

## 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 22, 2009

Project: Hooven Cincinnati Final Remedy

Samples arrived at the laboratory on Wednesday, December 09, 2009. The PO# for this group is 0015039270 and the release number is 50008931. The group number for this submittal is 1174352.

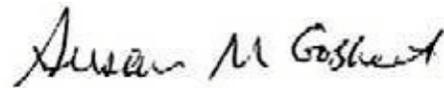
| <u>Client Sample Description</u> | <u>Lancaster Labs (LLI) #</u> |
|----------------------------------|-------------------------------|
| MW-10,120709 Grab Water          | 5858905                       |
| MW-10,120709 Filtered Grab Water | 5858906                       |
| MW-38,120809 Grab Water          | 5858907                       |
| MW-38,120809 Filtered Grab Water | 5858908                       |
| FB-2,120809 Grab Water           | 5858909                       |
| MW-21,120809 Grab Water          | 5858910                       |
| MW-21,120809 Filtered Grab Water | 5858911                       |
| BD-3,120809 Grab Water           | 5858912                       |
| BD-3,120809 Filtered Grab Water  | 5858913                       |
| Trip Blank,120809 Water          | 5858914                       |

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,



Susan M. Goshert  
Group Leader



# 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-10,120709 Grab Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5858905  
LLI Group # 1174352  
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 12/07/2009 14:05 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEM10 SDG#: HVQ36-01

| CAT No.      | Analysis Name    | CAS Number          | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--------------|------------------|---------------------|--------------------|------------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b> | <b>SW-846 8260B</b> | <b>ug/l</b>        | <b>ug/l</b>                        |                 |
| 07582        | Benzene          | 71-43-2             | 0.6 J              | 0.5                                | 1               |
| 07582        | Chlorobenzene    | 108-90-7            | N.D.               | 0.8                                | 1               |
| 07582        | Ethylbenzene     | 100-41-4            | 5 J                | 0.8                                | 1               |
| 07582        | Toluene          | 108-88-3            | 0.8 J              | 0.7                                | 1               |
| 07582        | Xylene (Total)   | 1330-20-7           | 2 J                | 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      | Y093441AA | 12/10/2009 09:23       | Holly Berry | 1               |
| 07582   | PPL + Xylene (total) by 8260 | SW-846 8260B | 1      | Y093441AA | 12/10/2009 09:23       | Holly Berry | 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-10,120709 Filtered Grab Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858906  
LLI Group # 1174352  
OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/07/2009 14:05 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEF10 SDG#: HVQ36-02

| CAT No.                 | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|-------------------------|---------------|------------|--------------------|------------------------------------|-----------------|
| <b>Metals Dissolved</b> |               |            | <b>mg/l</b>        | <b>mg/l</b>                        |                 |
| 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      | 093481848002 | 12/19/2009 04:32       | John W Yanzuk II | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 093481848002 | 12/22/2009 08:04       | Joanne M Gates   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 093481848002 | 12/14/2009 15:21       | James L Mertz    | 1               |



# Analysis Report

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**Sample Description: MW-38,120809 Grab Water**  
**2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858907**  
**LLI Group # 1174352**  
**OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/08/2009 10:35 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEM38 SDG#: HVQ36-03

| CAT No.  | Analysis Name          | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--|------------------------|------------|--------------------|------------------------------------|-----------------|
| <b>GC/MS Volatiles</b>   |                        |            |                    |                                    |                 |
| <b>SW-846 8260B</b>  |                        |            |                    |                                    |                 |
| 07582  | Benzene                | 71-43-2    | 130                | ug/l<br>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   | 11                 | 0.7                                | 1               |
| 07582  | Xylene (Total)         | 1330-20-7  | 22                 | 0.8                                | 1               |
| <b>GC Miscellaneous</b>  |                        |            |                    |                                    |                 |
| <b>SW-846 8015B modified</b>   |                        |            |                    |                                    |                 |
| 07105  | Methane                | 74-82-8    | 12,000             | ug/l<br>500                        | 100             |
| <b>Metals</b>  |                        |            |                    |                                    |                 |
| <b>SW-846 6010B</b>  |                        |            |                    |                                    |                 |
| 01750  | Calcium                | 7440-70-2  | 316                | mg/l<br>0.0702                     | 1               |
| 01754  | Iron                   | 7439-89-6  | 6.19               | 0.0522                             | 1               |
| 07058  | Manganese              | 7439-96-5  | 0.441              | 0.00084                            | 1               |
| 01762  | Potassium              | 7440-09-7  | 24.2               | 0.239                              | 1               |
| 01767  | Sodium                 | 7440-23-5  | 948                | 4.33                               | 10              |
| <b>SW-846 6010B modified</b>   |                        |            |                    |                                    |                 |
| 02268  | Ferric Iron            | n.a.       | N.D.               | mg/l<br>0.20                       | 1               |
| <b>Wet Chemistry</b>   |                        |            |                    |                                    |                 |
| <b>EPA 300.0</b>   |                        |            |                    |                                    |                 |
| 00224  | Chloride               | 16887-00-6 | 2,490              | mg/l<br>100                        | 500             |
| 00228  | Sulfate                | 14808-79-8 | 1.5 J              | 1.5                                | 5               |
| <b>EPA 351.2</b>   |                        |            |                    |                                    |                 |
| 00217  | Kjeldahl Nitrogen      | n.a.       | 5.2                | mg/l<br>0.50                       | 1               |
| <b>EPA 353.2</b>   |                        |            |                    |                                    |                 |
| 00220  | Nitrate Nitrogen       | 14797-55-8 | N.D.               | mg/l<br>0.040                      | 1               |
| 00219  | Nitrite Nitrogen       | 14797-65-0 | N.D.               | 0.015                              | 1               |
| <b>SM20 5310 C</b>   |                        |            |                    |                                    |                 |
| 00273  | Total Organic Carbon   | n.a.       | 2.2                | mg/l<br>0.50                       | 1               |
| <b>EPA 410.4</b>   |                        |            |                    |                                    |                 |
| 04001  | Chemical Oxygen Demand | n.a.       | 92.2 J             | mg/l<br>32.0                       | 2.5             |
| The reporting limit for the analyte above was raised due to matrix interference. |                        |            |                    |                                    |                 |
| <b>SM20 2320 B</b>   |                        |            |                    |                                    |                 |
| 00202  | Alkalinity to pH 4.5   | n.a.       | 392                | mg/l as CaCO3<br>0.46              | 1               |
| 00201  | Alkalinity to pH 8.3   | n.a.       | N.D.               | 0.46                               | 1               |
| <b>SM20 3500 Fe B</b>  |                        |            |                    |                                    |                 |
| <b>modified</b>  |                        |            |                    |                                    |                 |

**Sample Description: MW-38,120809 Grab Water**  
**2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858907**  
**LLI Group # 1174352**  
**OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/08/2009 10:35 by DB Account Number: 11494

Submitted: 12/09/2009 09:25 Chevron  
 Reported: 12/22/2009 at 13:59 5000 State Route 128  
 Discard: 02/21/2010 HOOVEN OH 45033

SEM38 SDG#: HVQ36-03

| CAT No.              | Analysis Name    | CAS Number                       | As Received Result | As Received Method Detection Limit | Dilution Factor |
|----------------------|------------------|----------------------------------|--------------------|------------------------------------|-----------------|
| <b>Wet Chemistry</b> |                  |                                  |                    |                                    |                 |
|                      |                  | <b>SM20 3500 Fe B modified</b>   | mg/l               | mg/l                               |                 |
| 08344                | Ferrous Iron     | n.a.                             | 6.4                | 0.20                               | 20              |
|                      |                  | <b>SM20 4500 S2 D</b>            | mg/l               | mg/l                               |                 |
| 00230                | Sulfide          | 18496-25-8                       | N.D.               | 0.054                              | 1               |
|                      |                  | <b>SM20 4500NH3 B/C modified</b> | mg/l               | mg/l                               |                 |
| 00221                | Ammonia Nitrogen | 7664-41-7                        | 1.5                | 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 |
|---------|--------------------------------|-------------------------|--------|--------------|------------------------|---------------------------|-----------------|
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B            | 1      | Y093441AA    | 12/10/2009 09:44       | Holly Berry               | 1               |
| 07582   | PPL + Xylene (total) by 8260   | SW-846 8260B            | 1      | Y093441AA    | 12/10/2009 09:44       | Holly Berry               | 1               |
| 07105   | Volatile Headspace Hydrocarbon | SW-846 8015B modified   | 1      | 093450000A   | 12/16/2009 07:53       | Dustin A Underkoffler     | 100             |
| 01750   | Calcium                        | SW-846 6010B            | 1      | 093481848002 | 12/19/2009 04:35       | John W Yanzuk II          | 1               |
| 01754   | Iron                           | SW-846 6010B            | 1      | 093481848002 | 12/19/2009 04:35       | John W Yanzuk II          | 1               |
| 07058   | Manganese                      | SW-846 6010B            | 1      | 093481848002 | 12/19/2009 04:35       | John W Yanzuk II          | 1               |
| 01762   | Potassium                      | SW-846 6010B            | 1      | 093481848002 | 12/19/2009 04:35       | John W Yanzuk II          | 1               |
| 01767   | Sodium                         | SW-846 6010B            | 1      | 093481848002 | 12/22/2009 08:08       | Joanne M Gates            | 10              |
| 02268   | Ferric Iron                    | SW-846 6010B modified   | 1      | 093562268001 | 12/22/2009 09:20       | Parker D Lindstrom        | 1               |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A            | 1      | 093481848002 | 12/14/2009 15:21       | James L Mertz             | 1               |
| 00224   | Chloride                       | EPA 300.0               | 1      | 09349196601B | 12/18/2009 02:39       | Ashley M Adams            | 500             |
| 00228   | Sulfate                        | EPA 300.0               | 1      | 09349196601B | 12/18/2009 01:49       | Ashley M Adams            | 5               |
| 00217   | Kjeldahl Nitrogen              | EPA 351.2               | 2      | 09351108101A | 12/18/2009 09:37       | K. Robert Caulfeild-James | 1               |
| 00220   | Nitrate Nitrogen               | EPA 353.2               | 1      | 09350106101A | 12/16/2009 19:30       | Joseph E McKenzie         | 1               |
| 00219   | Nitrite Nitrogen               | EPA 353.2               | 1      | 09343105101A | 12/09/2009 20:01       | Joseph E McKenzie         | 1               |
| 00273   | Total Organic Carbon           | SM20 5310 C             | 1      | 09344049501A | 12/10/2009 02:36       | James S Mathiot           | 1               |
| 01460   | Total Kjeldahl Nitrogen Digest | EPA 351.2               | 2      | 09351108101A | 12/17/2009 10:55       | Nancy J Shoop             | 1               |
| 04001   | Chemical Oxygen Demand         | EPA 410.4               | 3      | 09351400101A | 12/17/2009 07:50       | Susan A Engle             | 2.5             |
| 00202   | Alkalinity to pH 4.5           | SM20 2320 B             | 1      | 09349020201A | 12/15/2009 13:43       | Geraldine C Smith         | 1               |
| 00201   | Alkalinity to pH 8.3           | SM20 2320 B             | 1      | 09349020201A | 12/15/2009 13:43       | Geraldine C Smith         | 1               |
| 08344   | Ferrous Iron                   | SM20 3500 Fe B modified | 1      | 09343834401A | 12/09/2009 22:00       | Daniel S Smith            | 20              |

**Sample Description: MW-38,120809 Grab Water**  
**2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858907**  
**LLI Group # 1174352**  
**OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/08/2009 10:35 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEM38 SDG#: HVQ36-03

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### Laboratory Sample Analysis Record

| CAT No. | Analysis Name    | Method                    | Trial# | Batch#       | Analysis Date and Time | Analyst           | Dilution Factor |
|---------|------------------|---------------------------|--------|--------------|------------------------|-------------------|-----------------|
| 00230   | Sulfide          | SM20 4500 S2 D            | 1      | 09344023002A | 12/10/2009 20:47       | Geraldine C Smith | 1               |
| 00221   | Ammonia Nitrogen | SM20 4500NH3 B/C modified | 2      | 09355022101A | 12/21/2009 20:30       | Luz M Groff       | 1               |



# Analysis Report

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**Sample Description: MW-38,120809 Filtered Grab Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858908  
LLI Group # 1174352  
OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/08/2009 10:35 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEF38 SDG#: HVQ36-04

| CAT No.                 | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|-------------------------|---------------|------------|--------------------|------------------------------------|-----------------|
| <b>Metals Dissolved</b> |               |            | <b>mg/l</b>        | <b>mg/l</b>                        |                 |
| 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  | 0.440              | 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      | 093481848002 | 12/19/2009 04:38       | John W Yanzuk II | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 093481848002 | 12/22/2009 08:11       | Joanne M Gates   | 1               |
| 07058   | Manganese                     | SW-846 6010B | 1      | 093481848002 | 12/19/2009 04:38       | John W Yanzuk II | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 093481848002 | 12/14/2009 15:21       | James L Mertz    | 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:** FB-2,120809 Grab Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy

**LLI Sample #** WW 5858909  
**LLI Group #** 1174352  
OH

**Project Name:** Hooven Cincinnati Final Remedy

**Collected:** 12/08/2009 10:05 by DB **Account Number:** 11494  
**Submitted:** 12/09/2009 09:25 **Chevron**  
**Reported:** 12/22/2009 at 13:59 **5000 State Route 128**  
**Discard:** 02/21/2010 **HOOVEN OH 45033**

SEMF2 SDG#: HVQ36-05FB

| CAT No.      | Analysis Name    | CAS Number          | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--------------|------------------|---------------------|--------------------|------------------------------------|-----------------|
| <b>GC/MS</b> | <b>Volatiles</b> | <b>SW-846 8260B</b> | <b>ug/l</b>        | <b>ug/l</b>                        |                 |
| 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      | Y093441AA | 12/10/2009 10:05       | Holly Berry | 1               |
| 07582   | PPL + Xylene (total) by 8260 | SW-846 8260B | 1      | Y093441AA | 12/10/2009 10:05       | Holly Berry | 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-21,120809 Grab Water**  
**2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858910**  
**LLI Group # 1174352**  
**OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/08/2009 14:00 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEM21 SDG#: HVQ36-06

| CAT No.  | Analysis Name          | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--|------------------------|------------|--------------------|------------------------------------|-----------------|
| <b>GC/MS Volatiles SW-846 8260B ug/l</b>           |                        |            |                    |                                    |                 |
| 07582  | Benzene                | 71-43-2    | 170                | 3                                  | 5               |
| 07582  | Chlorobenzene          | 108-90-7   | N.D.               | 4                                  | 5               |
| 07582  | Ethylbenzene           | 100-41-4   | 2,500              | 40                                 | 50              |
| 07582  | Toluene                | 108-88-3   | 86                 | 4                                  | 5               |
| 07582  | Xylene (Total)         | 1330-20-7  | 1,600              | 4                                  | 5               |
| <b>GC Volatiles SW-846 8015B ug/l</b>              |                        |            |                    |                                    |                 |
| 01635  | TPH-GRO water C6-C10   | n.a.       | 17,000             | 200                                | 10              |
| <b>GC Extractable TPH SW-846 8015B ug/l</b>        |                        |            |                    |                                    |                 |
| 08269  | TPH-DRO water C10-C28  | n.a.       | 5,000              | 310                                | 10              |
| <b>GC Miscellaneous SW-846 8015B modified ug/l</b> |                        |            |                    |                                    |                 |
| 07105  | Methane                | 74-82-8    | 15,000             | 500                                | 100             |
| <b>Metals SW-846 6010B mg/l</b>                    |                        |            |                    |                                    |                 |
| 01750  | Calcium                | 7440-70-2  | 155                | 0.0702                             | 1               |
| 01754  | Iron                   | 7439-89-6  | 18.7               | 0.0522                             | 1               |
| 07058  | Manganese              | 7439-96-5  | 0.0698             | 0.00084                            | 1               |
| 01762  | Potassium              | 7440-09-7  | 2.37               | 0.239                              | 1               |
| 01767  | Sodium                 | 7440-23-5  | 29.8               | 0.433                              | 1               |
| <b>SW-846 6010B modified mg/l</b>                  |                        |            |                    |                                    |                 |
| 02268  | Ferric Iron            | n.a.       | N.D.               | 0.50                               | 1               |
| <b>Wet Chemistry EPA 300.0 mg/l</b>                |                        |            |                    |                                    |                 |
| 00224  | Chloride               | 16887-00-6 | 79.6               | 4.0                                | 20              |
| 00228  | Sulfate                | 14808-79-8 | 23.7               | 1.5                                | 5               |
| <b>EPA 351.2 mg/l</b>                              |                        |            |                    |                                    |                 |
| 00217  | Kjeldahl Nitrogen      | n.a.       | 0.74 J             | 0.50                               | 1               |
| <b>EPA 353.2 mg/l</b>                              |                        |            |                    |                                    |                 |
| 00220  | Nitrate Nitrogen       | 14797-55-8 | N.D.               | 0.040                              | 1               |
| 00219  | Nitrite Nitrogen       | 14797-65-0 | 0.028 J            | 0.015                              | 1               |
| <b>SM20 5310 C mg/l</b>                            |                        |            |                    |                                    |                 |
| 00273  | Total Organic Carbon   | n.a.       | 7.5                | 0.50                               | 1               |
| <b>EPA 410.4 mg/l</b>                              |                        |            |                    |                                    |                 |
| 04001  | Chemical Oxygen Demand | n.a.       | 86.1               | 12.8                               | 1               |
| <b>SM20 2320 B mg/l as CaCO3</b>                   |                        |            |                    |                                    |                 |



# 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-21,120809 Grab Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy

LLI Sample # WW 5858910  
LLI Group # 1174352  
OH

Project Name: Hooven Cincinnati Final Remedy

Collected: 12/08/2009 14:00 by DB Account Number: 11494  
Submitted: 12/09/2009 09:25 Chevron  
Reported: 12/22/2009 at 13:59 5000 State Route 128  
Discard: 02/21/2010 HOOVEN OH 45033

SEM21 SDG#: HVQ36-06

| CAT No.              | Analysis Name        | CAS Number                       | As Received Result   | As Received Method Detection Limit | Dilution Factor |
|----------------------|----------------------|----------------------------------|----------------------|------------------------------------|-----------------|
| <b>Wet Chemistry</b> |                      |                                  |                      |                                    |                 |
|                      |                      | <b>SM20 2320 B</b>               | <b>mg/l as CaCO3</b> | <b>mg/l as CaCO3</b>               |                 |
| 00202                | Alkalinity to pH 4.5 | n.a.                             | 504                  | 0.46                               | 1               |
| 00201                | Alkalinity to pH 8.3 | n.a.                             | N.D.                 | 0.46                               | 1               |
|                      |                      | <b>SM20 3500 Fe B modified</b>   | <b>mg/l</b>          | <b>mg/l</b>                        |                 |
| 08344                | Ferrous Iron         | n.a.                             | 19.2                 | 0.50                               | 50              |
|                      |                      | <b>SM20 4500 S2 D</b>            | <b>mg/l</b>          | <b>mg/l</b>                        |                 |
| 00230                | Sulfide              | 18496-25-8                       | N.D.                 | 0.054                              | 1               |
|                      |                      | <b>SM20 4500NH3 B/C modified</b> | <b>mg/l</b>          | <b>mg/l</b>                        |                 |
| 00221                | Ammonia Nitrogen     | 7664-41-7                        | N.D.                 | 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 |
|---------|--------------------------------|-----------------------|--------|--------------|------------------------|-----------------------|-----------------|
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B          | 1      | Y093441AA    | 12/10/2009 10:47       | Holly Berry           | 5               |
| 01163   | GC/MS VOA Water Prep           | SW-846 5030B          | 2      | Y093441AA    | 12/10/2009 11:08       | Holly Berry           | 50              |
| 07582   | PPL + Xylene (total) by 8260   | SW-846 8260B          | 1      | Y093441AA    | 12/10/2009 10:47       | Holly Berry           | 5               |
| 07582   | PPL + Xylene (total) by 8260   | SW-846 8260B          | 1      | Y093441AA    | 12/10/2009 11:08       | Holly Berry           | 50              |
| 01146   | GC VOA Water Prep              | SW-846 5030B          | 1      | 09345B20A    | 12/12/2009 01:06       | Matthew S Woods       | 10              |
| 01635   | TPH-GRO water C6-C10           | SW-846 8015B          | 1      | 09345B20A    | 12/12/2009 01:06       | Matthew S Woods       | 10              |
| 08269   | TPH-DRO water C10-C28          | SW-846 8015B          | 1      | 093430018A   | 12/15/2009 12:57       | Tracy A Cole          | 10              |
| 07003   | Extraction - DRO (Waters)      | SW-846 3510C          | 1      | 093430018A   | 12/10/2009 09:30       | Karen R Rettew        | 1               |
| 07105   | Volatile Headspace Hydrocarbon | SW-846 8015B modified | 1      | 093450000A   | 12/16/2009 08:05       | Dustin A Underkoffler | 100             |
| 01848   | WW SW846 ICP Digest (tot rec)  | SW-846 3005A          | 1      | 093481848002 | 12/14/2009 15:21       | James L Mertz         | 1               |
| 01750   | Calcium                        | SW-846 6010B          | 1      | 093481848002 | 12/19/2009 04:47       | John W Yanzuk II      | 1               |
| 01754   | Iron                           | SW-846 6010B          | 1      | 093481848002 | 12/19/2009 04:47       | John W Yanzuk II      | 1               |
| 07058   | Manganese                      | SW-846 6010B          | 1      | 093481848002 | 12/19/2009 04:47       | John W Yanzuk II      | 1               |
| 01762   | Potassium                      | SW-846 6010B          | 1      | 093481848002 | 12/19/2009 04:47       | John W Yanzuk II      | 1               |
| 01767   | Sodium                         | SW-846 6010B          | 1      | 093481848002 | 12/19/2009 04:47       | John W Yanzuk II      | 1               |
| 02268   | Ferric Iron                    | SW-846 6010B modified | 1      | 093562268001 | 12/22/2009 09:21       | Parker D Lindstrom    | 1               |
| 00224   | Chloride                       | EPA 300.0             | 1      | 09349196601B | 12/15/2009 19:48       | Ashley M Adams        | 20              |
| 00228   | Sulfate                        | EPA 300.0             | 1      | 09349196601B | 12/18/2009 03:28       | Ashley M Adams        | 5               |



# 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-21,120809 Grab Water**  
**2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858910**  
**LLI Group # 1174352**  
**OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/08/2009 14:00 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEM21 SDG#: HVQ36-06

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name                  | Method                    | Trial# | Batch#       | Analysis Date and Time | Analyst                | Dilution Factor |
|---------|--------------------------------|---------------------------|--------|--------------|------------------------|------------------------|-----------------|
| 00217   | Kjeldahl Nitrogen              | EPA 351.2                 | 1      | 09346108101A | 12/13/2009 09:25       | Joseph E McKenzie      | 1               |
| 00220   | Nitrate Nitrogen               | EPA 353.2                 | 1      | 09350106101A | 12/16/2009 19:33       | Joseph E McKenzie      | 1               |
| 00219   | Nitrite Nitrogen               | EPA 353.2                 | 1      | 09343105101A | 12/09/2009 20:02       | Joseph E McKenzie      | 1               |
| 00273   | Total Organic Carbon           | SM20 5310 C               | 1      | 09344049501A | 12/10/2009 02:43       | James S Mathiot        | 1               |
| 01460   | Total Kjeldahl Nitrogen Digest | EPA 351.2                 | 1      | 09346108101A | 12/12/2009 12:40       | Carolyn M Mastropietro | 1               |
| 00202   | Alkalinity to pH 4.5           | SM20 2320 B               | 1      | 09349020201A | 12/15/2009 13:43       | Geraldine C Smith      | 1               |
| 00201   | Alkalinity to pH 8.3           | SM20 2320 B               | 1      | 09349020201A | 12/15/2009 13:43       | Geraldine C Smith      | 1               |
| 08344   | Ferrous Iron                   | SM20 3500 Fe B modified   | 1      | 09343834401A | 12/09/2009 22:00       | Daniel S Smith         | 50              |
| 00230   | Sulfide                        | SM20 4500 S2 D            | 1      | 09344023002A | 12/10/2009 20:47       | Geraldine C Smith      | 1               |
| 00221   | Ammonia Nitrogen               | SM20 4500NH3 B/C modified | 1      | 09344022101A | 12/10/2009 18:30       | Luz M Groff            | 1               |
| 04001   | Chemical Oxygen Demand         | EPA 410.4                 | 2      | 09351400101A | 12/17/2009 07:50       | Susan A Engle          | 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-21,120809 Filtered Grab Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858911  
LLI Group # 1174352  
OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/08/2009 14:00 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEF21 SDG#: HVQ36-07

| CAT No.                 | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|-------------------------|---------------|------------|--------------------|------------------------------------|-----------------|
| <b>Metals Dissolved</b> |               |            | <b>mg/l</b>        | <b>mg/l</b>                        |                 |
| 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  | 0.0677             | 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      | 093481848002 | 12/19/2009 04:50       | John W Yanzuk II | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 093481848002 | 12/22/2009 08:15       | Joanne M Gates   | 1               |
| 07058   | Manganese                     | SW-846 6010B | 1      | 093481848002 | 12/19/2009 04:50       | John W Yanzuk II | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 093481848002 | 12/14/2009 15:21       | James L Mertz    | 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:** BD-3,120809 Grab Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy

**LLI Sample #** WW 5858912  
**LLI Group #** 1174352  
OH

**Project Name:** Hooven Cincinnati Final Remedy

Collected: 12/08/2009 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEMB3 SDG#: HVQ36-08FD

| CAT No.  | Analysis Name         | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|--|-----------------------|------------|--------------------|------------------------------------|-----------------|
| <b>GC/MS Volatiles SW-846 8260B</b>  |                       |            | ug/l               | ug/l                               |                 |
| 07582  | Benzene               | 71-43-2    | 170                | 3                                  | 5               |
| 07582  | Chlorobenzene         | 108-90-7   | N.D.               | 4                                  | 5               |
| 07582  | Ethylbenzene          | 100-41-4   | 2,500              | 8                                  | 10              |
| 07582  | Toluene               | 108-88-3   | 85                 | 4                                  | 5               |
| 07582  | Xylene (Total)        | 1330-20-7  | 1,600              | 4                                  | 5               |
| Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 3. |                       |            |                    |                                    |                 |
| <b>GC Volatiles SW-846 8015B</b>   |                       |            | ug/l               | ug/l                               |                 |
| 01635  | TPH-GRO water C6-C10  | n.a.       | 18,000             | 200                                | 10              |
| <b>GC Extractable TPH SW-846 8015B</b>   |                       |            | ug/l               | ug/l                               |                 |
| 08269  | TPH-DRO water C10-C28 | n.a.       | 5,200              | 310                                | 10              |

### 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      | Y093442AA  | 12/11/2009 00:03       | Nicholas R Rossi | 5               |
| 01163   | GC/MS VOA Water Prep         | SW-846 5030B | 2      | Y093441AA  | 12/10/2009 11:29       | Holly Berry      | 10              |
| 07582   | PPL + Xylene (total) by 8260 | SW-846 8260B | 1      | Y093441AA  | 12/10/2009 11:29       | Holly Berry      | 10              |
| 07582   | PPL + Xylene (total) by 8260 | SW-846 8260B | 1      | Y093442AA  | 12/11/2009 00:03       | Nicholas R Rossi | 5               |
| 01146   | GC VOA Water Prep            | SW-846 5030B | 1      | 09345B20A  | 12/12/2009 01:28       | Matthew S Woods  | 10              |
| 01635   | TPH-GRO water C6-C10         | SW-846 8015B | 1      | 09345B20A  | 12/12/2009 01:28       | Matthew S Woods  | 10              |
| 08269   | TPH-DRO water C10-C28        | SW-846 8015B | 1      | 093430018A | 12/15/2009 13:17       | Tracy A Cole     | 10              |
| 07003   | Extraction - DRO (Waters)    | SW-846 3510C | 1      | 093430018A | 12/10/2009 09:30       | Karen R Rettew   | 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: BD-3,120809 Filtered Grab Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy**

**LLI Sample # WW 5858913  
LLI Group # 1174352  
OH**

**Project Name: Hooven Cincinnati Final Remedy**

Collected: 12/08/2009 by DB

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEFB3 SDG#: HVQ36-09FD

| CAT No.                 | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|-------------------------|---------------|------------|--------------------|------------------------------------|-----------------|
| <b>Metals Dissolved</b> |               |            | <b>mg/l</b>        | <b>mg/l</b>                        |                 |
| 07035                   | Arsenic       | 7440-38-2  | 0.0101 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      | 093481848002 | 12/19/2009 04:53       | John W Yanzuk II | 1               |
| 07055   | Lead                          | SW-846 6010B | 1      | 093481848002 | 12/22/2009 08:19       | Joanne M Gates   | 1               |
| 01848   | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1      | 093481848002 | 12/14/2009 15:21       | James L Mertz    | 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, 120809 Water  
2nd Semi-Annual 2009-Cincinnati Final Remedy

**LLI Sample #** WW 5858914  
**LLI Group #** 1174352  
OH

**Project Name:** Hooven Cincinnati Final Remedy

Collected: 12/08/2009 15:45

Account Number: 11494

Submitted: 12/09/2009 09:25

Chevron

Reported: 12/22/2009 at 13:59

5000 State Route 128

Discard: 02/21/2010

HOOVEN OH 45033

SEMTB SDG#: HVQ36-10TB\*

| CAT No.                             | Analysis Name        | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|-------------------------------------|----------------------|------------|--------------------|------------------------------------|-----------------|
| <b>GC/MS Volatiles SW-846 8260B</b> |                      |            |                    |                                    |                 |
| 07582                               | Benzene              | 71-43-2    | N.D.               | 0.5 ug/l                           | 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               |
| <b>GC Volatiles SW-846 8015B</b>    |                      |            |                    |                                    |                 |
| 01635                               | TPH-GRO water C6-C10 | n.a.       | N.D.               | 20 ug/l                            | 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      | Y093441AA | 12/10/2009 10:25       | Holly Berry     | 1               |
| 07582   | PPL + Xylene (total) by 8260 | SW-846 8260B | 1      | Y093441AA | 12/10/2009 10:25       | Holly Berry     | 1               |
| 01146   | GC VOA Water Prep            | SW-846 5030B | 1      | 09345B20A | 12/11/2009 14:14       | Matthew S Woods | 1               |
| 01635   | TPH-GRO water C6-C10         | SW-846 8015B | 1      | 09345B20A | 12/11/2009 14:14       | Matthew S Woods | 1               |

## Quality Control Summary

 Client Name: Chevron  
 Reported: 12/22/09 at 01:59 PM

Group Number: 1174352

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: Y093441AA    | Sample number(s): 5858905,5858907,5858909-5858910,5858912,5858914 |                  |                     |                 |                  |                        |            |                |
| Benzene                    | N.D.  | 0.5              | ug/l                | 102             |                  | 79-120                 |            |                |
| Chlorobenzene              | N.D.  | 0.8              | ug/l                | 104             |                  | 80-120                 |            |                |
| Ethylbenzene               | N.D.  | 0.8              | ug/l                | 100             |                  | 79-120                 |            |                |
| Toluene                    | N.D.  | 0.7              | ug/l                | 104             |                  | 79-120                 |            |                |
| Xylene (Total)             | N.D.  | 0.8              | ug/l                | 101             |                  | 80-120                 |            |                |
| Batch number: Y093442AA    | Sample number(s): 5858912   |                  |                     |                 |                  |                        |            |                |
| Benzene                    | N.D.  | 0.5              | ug/l                | 101             |                  | 79-120                 |            |                |
| Chlorobenzene              | N.D.  | 0.8              | ug/l                | 101             |                  | 80-120                 |            |                |
| Toluene                    | N.D.  | 0.7              | ug/l                | 103             |                  | 79-120                 |            |                |
| Xylene (Total)             | N.D.  | 0.8              | ug/l                | 99              |                  | 80-120                 |            |                |
| Batch number: 09345B20A    | Sample number(s): 5858910,5858912,5858914                         |                  |                     |                 |                  |                        |            |                |
| TPH-GRO water C6-C10       | N.D.  | 20.              | ug/l                | 109             | 118              | 75-135                 | 8          | 30             |
| Batch number: 093430018A   | Sample number(s): 5858910,5858912                                 |                  |                     |                 |                  |                        |            |                |
| TPH-DRO water C10-C28      | N.D.  | 32.              | ug/l                | 71              | 84               | 56-122                 | 16         | 20             |
| Batch number: 093450000A   | Sample number(s): 5858907,5858910                                 |                  |                     |                 |                  |                        |            |                |
| Methane                    | N.D.  | 10.              | ug/l                | 88              |                  | 80-120                 |            |                |
| Batch number: 093481848002 | Sample number(s): 5858906-5858908,5858910-5858911,5858913         |                  |                     |                 |                  |                        |            |                |
| Arsenic                    | N.D.  | 0.0072           | mg/l                | 101             |                  | 89-115                 |            |                |
| Calcium                    | N.D.  | 0.0702           | mg/l                | 102             |                  | 90-112                 |            |                |
| Iron                       | N.D.  | 0.0522           | mg/l                | 102             |                  | 90-112                 |            |                |
| Lead                       | N.D.  | 0.0069           | mg/l                | 102             |                  | 80-120                 |            |                |
| Manganese                  | N.D.  | 0.00084          | mg/l                | 101             |                  | 90-110                 |            |                |
| Potassium                  | N.D.  | 0.239            | mg/l                | 98              |                  | 85-115                 |            |                |
| Sodium                     | N.D.  | 0.433            | mg/l                | 107             |                  | 87-114                 |            |                |
| Batch number: 09343105101A | Sample number(s): 5858907,5858910                                 |                  |                     |                 |                  |                        |            |                |
| Nitrite Nitrogen           | N.D.  | 0.015            | mg/l                | 99              |                  | 90-110                 |            |                |
| Batch number: 09344049501A | Sample number(s): 5858907,5858910                                 |                  |                     |                 |                  |                        |            |                |
| Total Organic Carbon       | N.D.  | 0.50             | mg/l                | 100             |                  | 91-113                 |            |                |
| Batch number: 09346108101A | Sample number(s): 5858910   |                  |                     |                 |                  |                        |            |                |
| Kjeldahl Nitrogen          | N.D.  | 0.50             | mg/l                | 101             |                  | 90-110                 |            |                |
| Batch number: 09349196601B | Sample number(s): 5858907,5858910                                 |                  |                     |                 |                  |                        |            |                |
| Chloride                   | N.D.  | 0.20             | mg/l                | 98              |                  | 90-110                 |            |                |
| Sulfate                    | N.D.  | 0.30             | mg/l                | 100             |                  | 89-110                 |            |                |
| Batch number: 09350106101A | Sample number(s): 5858907,5858910                                 |                  |                     |                 |                  |                        |            |                |
| Nitrate Nitrogen           | N.D.  | 0.040            | mg/l                | 102             |                  | 90-110                 |            |                |

\*- 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: 12/22/09 at 01:59 PM

Group Number: 1174352

### 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: 09351108101A<br>Kjeldahl Nitrogen      | N.D.                | 0.50             | 5858907<br>mg/l                   | 97              |                  | 90-110                 |            |                |
| Batch number: 09343834401A<br>Ferrous Iron           | N.D.                | 0.010            | 5858907, 5858910<br>mg/l          | 100             |                  | 92-105                 |            |                |
| Batch number: 09344022101A<br>Ammonia Nitrogen       | N.D.                | 0.20             | 5858910<br>mg/l                   | 93              | 92               | 85-105                 | 1          | 5              |
| Batch number: 09344023002A<br>Sulfide                | N.D.                | 0.054            | 5858907, 5858910<br>mg/l          | 98              |                  | 90-110                 |            |                |
| Batch number: 09349020201A<br>Alkalinity to pH 4.5   | N.D.                | 0.46             | 5858907, 5858910<br>mg/l as CaCO3 | 100             |                  | 98-103                 |            |                |
| Batch number: 09351400101A<br>Chemical Oxygen Demand |                     |                  | 5858907, 5858910                  | 102             |                  | 94-110                 |            |                |
| Batch number: 09355022101A<br>Ammonia Nitrogen       | N.D.                | 0.20             | 5858907<br>mg/l                   | 93              | 92               | 85-105                 | 1          | 5              |

### 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: Y093441AA                         | Sample number(s): 5858905, 5858907, 5858909-5858910, 5858912, 5858914 UNSPK: P858932    |                 |                      |            |                |                 |                 |                |                    |
| Benzene   | 109   | 108             | 80-126               | 1          | 30             |                 |                 |                |                    |
| Chlorobenzene                                   | 110   | 108             | 87-124               | 2          | 30             |                 |                 |                |                    |
| Ethylbenzene                                    | 104   | 104             | 71-134               | 0          | 30             |                 |                 |                |                    |
| Toluene   | 110   | 111             | 80-125               | 1          | 30             |                 |                 |                |                    |
| Xylene (Total)                                  | 105   | 104             | 79-125               | 1          | 30             |                 |                 |                |                    |
| Batch number: Y093442AA                         | Sample number(s): 5858912 UNSPK: P859196  |                 |                      |            |                |                 |                 |                |                    |
| Benzene   | 104   | 99              | 80-126               | 5          | 30             |                 |                 |                |                    |
| Chlorobenzene                                   | 104   | 101             | 87-124               | 3          | 30             |                 |                 |                |                    |
| Toluene   | 106   | 102             | 80-125               | 5          | 30             |                 |                 |                |                    |
| Xylene (Total)                                  | 102   | 97              | 79-125               | 5          | 30             |                 |                 |                |                    |
| Batch number: 09345B20A<br>TPH-GRO water C6-C10 | Sample number(s): 5858910, 5858912, 5858914 UNSPK: P859676                              |                 |                      |            |                |                 |                 |                |                    |
|   | 100   |                 | 63-154               |            |                |                 |                 |                |                    |
| Batch number: 093450000A<br>Methane             | Sample number(s): 5858907, 5858910 UNSPK: P858877                                       |                 |                      |            |                |                 |                 |                |                    |
|   | 68  | 82              | 35-157               | 18         | 20             |                 |                 |                |                    |
| Batch number: 093481848002                      | Sample number(s): 5858906-5858908, 5858910-5858911, 5858913 UNSPK: P858880 BKG: P858880 |                 |                      |            |                |                 |                 |                |                    |
| Arsenic   | 102   | 103             | 75-125               | 1          | 20             | 0.0257          | 0.0278          | 8 (1)          | 20                 |
| Calcium   | 167 (2)   | 54 (2)          | 75-125               | 3          | 20             | 162             | 166             | 3              | 20                 |

\*- 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: 12/22/09 at 01:59 PM

Group Number: 1174352

### 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><br><u>%REC</u>  | <u>MSD</u><br><u>%REC</u> | <u>MS/MSD</u><br><u>Limits</u> | <u>RPD</u><br><u>RPD</u> | <u>RPD</u><br><u>MAX</u> | <u>BKG</u><br><u>Conc</u> | <u>DUP</u><br><u>Conc</u> | <u>DUP</u><br><u>RPD</u> | <u>Dup</u> <u>RPD</u><br><u>Max</u> |
|--|---|---------------------------|--------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|-------------------------------------|
| Iron   | 148 (2)   | 84 (2)                    | 75-125                         | 3                        | 20                       | 22.1                      | 22.8                      | 3                        | 20                                  |
| Lead   | 94  | 114                       | 75-125                         | 19                       | 20                       | N.D.                      | N.D.                      | 0 (1)                    | 20                                  |
| Manganese  | 99 (2)  | 86 (2)                    | 75-125                         | 2                        | 20                       | 3.05                      | 3.11                      | 2                        | 20                                  |
| Potassium  | 105   | 101                       | 75-125                         | 2                        | 20                       | 3.46                      | 3.64                      | 5                        | 20                                  |
| Sodium   | 37 (2)  | 30 (2)                    | 75-125                         | 0                        | 20                       | 214                       | 204                       | 5                        | 20                                  |
| Batch number: 09343105101A<br>Nitrite Nitrogen                             | Sample number(s): 5858907,5858910 UNSPK: P858691 BKG: P858691<br>100 90-110 N.D. N.D. 0 (1) 20                                    |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09344049501A<br>Total Organic Carbon                         | Sample number(s): 5858907,5858910 UNSPK: P858839 BKG: P858839<br>102 64-141 13.1 13.2 1 4   |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09346108101A<br>Kjeldahl Nitrogen                            | Sample number(s): 5858910 UNSPK: P859882 BKG: P859882<br>96 90-110 N.D. N.D. 0 (1) 20   |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09349196601B<br>Chloride<br>Sulfate                          | Sample number(s): 5858907,5858910 UNSPK: 5858907 BKG: 5858907<br>99 90-110 2,490 2,430 3 20<br>132* 90-110 1.5 J N.D. 200* (1) 20 |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09350106101A<br>Nitrate Nitrogen                             | Sample number(s): 5858907,5858910 UNSPK: P859533 BKG: P859533<br>30* 90-110 3.0 3.3 10* 2   |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09351108101A<br>Kjeldahl Nitrogen                            | Sample number(s): 5858907 UNSPK: P864143 BKG: P864143<br>118* 90-110 0.73 J 0.67 J 8 (1) 20                                       |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09343834401A<br>Ferrous Iron                                 | Sample number(s): 5858907,5858910 UNSPK: 5858907 BKG: 5858907<br>99 99 66-130 0 6 6.4 6.5 2 (1) 10                                |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09344022101A<br>Ammonia Nitrogen                             | Sample number(s): 5858910 BKG: P858920<br>2.8 2.6 6* (1) 2  |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09344023002A<br>Sulfide                                      | Sample number(s): 5858907,5858910 UNSPK: P854947 BKG: P854947<br>90 89 69-133 1 18 N.D. N.D. 0 (1) 7                              |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09349020201A<br>Alkalinity to pH 4.5<br>Alkalinity to pH 8.3 | Sample number(s): 5858907,5858910 UNSPK: P858877 BKG: P858877<br>99 98 64-130 0 2 241 242 1 4<br>N.D. N.D. 0 (1) 4                |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09351400101A<br>Chemical Oxygen Demand                       | Sample number(s): 5858907,5858910 UNSPK: P864439 BKG: P865376<br>96 90-110 906 906 0 (1) 5  |                           |                                |                          |                          |                           |                           |                          |                                     |
| Batch number: 09355022101A<br>Ammonia Nitrogen                             | Sample number(s): 5858907 BKG: P866856<br>14.5 13.4 8* 2  |                           |                                |                          |                          |                           |                           |                          |                                     |

### 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

\*- 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: 12/22/09 at 01:59 PM

Group Number: 1174352

### Surrogate Quality Control

Batch number: Y093441AA

|         | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 5858905 | 94                   | 90                    | 97         | 99                   |
| 5858907 | 96                   | 91                    | 96         | 96                   |
| 5858909 | 100                  | 96                    | 92         | 88                   |
| 5858910 | 95                   | 91                    | 96         | 96                   |
| 5858914 | 102                  | 97                    | 92         | 87                   |
| Blank   | 100                  | 94                    | 93         | 89                   |
| LCS     | 98                   | 94                    | 99         | 99                   |
| MS      | 97                   | 95                    | 99         | 100                  |
| MSD     | 96                   | 93                    | 99         | 100                  |
| Limits: | 80-116               | 77-113                | 80-113     | 78-113               |

Analysis Name: PPL + Xylene (total) by 8260

Batch number: Y093442AA

|         | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 5858912 | 97                   | 92                    | 99         | 97                   |
| Blank   | 97                   | 92                    | 94         | 92                   |
| LCS     | 94                   | 91                    | 97         | 99                   |
| MS      | 96                   | 91                    | 98         | 98                   |
| MSD     | 95                   | 92                    | 97         | 98                   |
| Limits: | 80-116               | 77-113                | 80-113     | 78-113               |

Analysis Name: TPH-GRO water C6-C10

Batch number: 09345B20A

Trifluorotoluene-F

|         |     |
|---------|-----|
| 5858910 | 120 |
| 5858912 | 128 |
| 5858914 | 100 |
| Blank   | 99  |
| LCS     | 112 |
| LCSD    | 111 |
| MS      | 123 |

Limits: 63-135

Analysis Name: TPH-DRO water C10-C28

Batch number: 093430018A

Orthoterphenyl

|         |     |
|---------|-----|
| 5858910 | 113 |
| 5858912 | 124 |
| Blank   | 67  |
| LCS     | 85  |
| LCSD    | 91  |

Limits: 54-127

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 093450000A

Propene

|         |    |
|---------|----|
| 5858907 | 95 |
|---------|----|

\*- 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: 12/22/09 at 01:59 PM

Group Number: 1174352

### Surrogate Quality Control

|         |     |
|---------|-----|
| 5858910 | 97  |
| Blank   | 102 |
| LCS     | 98  |
| MS      | 61  |
| MSD     | 78  |

---

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# 1174352 Sample # 5858905-14

COC # 211767

Temp = 2.9 - 3.5°C

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

| <p><b>1</b> Client: <u>CHEVRON</u> Acct. #: <u>11494</u></p> <p>Project Name/#: <u>2ND SEMI ANNUAL 2009</u> PWSID # <u>HWACN17000M20</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><b>4</b> Matrix</p> <p><input type="checkbox"/> Potable <input type="checkbox"/> Check if NPDES Applicable</p> <p>Soil _____ Water _____ Other _____</p> |                |                |       | <p><b>5</b> Analyses Requested</p> <p>Preservation Codes</p> <p><u>VOCS PA 8260</u><br/><u>Pb/As DISSOLVED METALS</u><br/><u>TPH GLO</u><br/><u>TPH DRO</u><br/><u>MNA</u></p> |              |                        |         |                       |              |                                     |         |         |     | <p><b>6</b> Temperature of samples upon receipt (if requested)</p> |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
|--|----------------|----------------|------|---|----------------|----------------|-------|--|--------------|------------------------|---------|-----------------------|--------------|-------------------------------------|---------|---------|-----|--|---------------|---------|------|---|--|---|--|--|---|---|---|--|--|--|---------------------------|---------------|---------|------|---|--|---|--|--|----|---|---|--|--|---|--|--------------|---------|------|---|--|---|--|--|---|---|--|--|--|--|--|---------------|---------|------|---|--|---|--|--|----|---|---|---|---|---|-------------------------------------|--------------|---------|---|---|--|---|--|--|---|---|---|---|---|--|--|-------------------|---------|------|---|--|---|--|--|---|---|--|--|--|--|--|-------------------|---------|------|---|--|---|--|--|---|--|--|---|--|--|-------------------------|--------------------------------|--|--|--|---|--|--|--|-----------------|--|
| <p><b>2</b> Sample Identification</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Date Collected</th> <th>Time Collected</th> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Other</th> <th>Total # of Containers</th> <th>VOCS PA 8260</th> <th>Pb/As DISSOLVED METALS</th> <th>TPH GLO</th> <th>TPH DRO</th> <th>MNA</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>MW-10, 120709</td> <td>12-7-09</td> <td>1405</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>4</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>SEE ATTACHED ANALYTE LIST</td> </tr> <tr> <td>MW-38, 120809</td> <td>12-8-09</td> <td>1035</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>16</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>FB-2, 120809</td> <td>12-8-09</td> <td>1005</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>3</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-21, 120809</td> <td>12-8-09</td> <td>1400</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>21</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>DISSOLVED METALS ARE FIELD FILTERED</td> </tr> <tr> <td>BD-3, 120809</td> <td>12-8-09</td> <td>—</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>9</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>TRP BLANK, 120809</td> <td>12-8-09</td> <td>1545</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>2</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TRP BLANK, 120809</td> <td>12-8-09</td> <td>1545</td> <td>X</td> <td></td> <td>X</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>QC SUMMARY DATA PACKAGE</td> </tr> </tbody> </table> |                |                |      | Sample Identification   | Date Collected | Time Collected | Grab  | Composite  | Soil         | Water                  | Other   | Total # of Containers | VOCS PA 8260 | Pb/As DISSOLVED METALS              | TPH GLO | TPH DRO | MNA | Remarks  | MW-10, 120709 | 12-7-09 | 1405 | X |  | X |  |  | 4 | X | X |  |  |  | SEE ATTACHED ANALYTE LIST | MW-38, 120809 | 12-8-09 | 1035 | X |  | X |  |  | 16 | X | X |  |  | X |  | FB-2, 120809 | 12-8-09 | 1005 | X |  | X |  |  | 3 | X |  |  |  |  |  | MW-21, 120809 | 12-8-09 | 1400 | X |  | X |  |  | 21 | X | X | X | X | X | DISSOLVED METALS ARE FIELD FILTERED | BD-3, 120809 | 12-8-09 | — | X |  | X |  |  | 9 | X | X | X | X |  |  | TRP BLANK, 120809 | 12-8-09 | 1545 | X |  | X |  |  | 2 | X |  |  |  |  |  | TRP BLANK, 120809 | 12-8-09 | 1545 | X |  | X |  |  | 2 |  |  | X |  |  | QC SUMMARY DATA PACKAGE | <p><b>3</b> Grab Composite</p> |  | <p><b>7</b> 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 4064</u></p> <p>E-mail address: <u>M.MITCHELL@TPH.DRO.COM</u></p> |  | <p>Relinquished by: <u>Dale Barrett</u> Date: <u>12-8-09</u> Time: <u>615</u> Received by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date: _____ Time: _____ Received by: <u>Mary Mark</u> Date: <u>12/9/09</u> Time: <u>975</u></p> |  |  |  | <p><b>9</b></p> |  |
| Sample Identification  | Date Collected | Time Collected | Grab | Composite   | Soil           | Water          | Other | Total # of Containers  | VOCS PA 8260 | Pb/As DISSOLVED METALS | TPH GLO | TPH DRO               | MNA          | Remarks                             |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
| MW-10, 120709  | 12-7-09        | 1405           | X    |   | X              |                |       | 4  | X            | X                      |         |                       |              | SEE ATTACHED ANALYTE LIST           |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
| MW-38, 120809  | 12-8-09        | 1035           | X    |   | X              |                |       | 16   | X            | X                      |         |                       | X            |                                     |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
| FB-2, 120809   | 12-8-09        | 1005           | X    |   | X              |                |       | 3  | X            |                        |         |                       |              |                                     |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
| MW-21, 120809  | 12-8-09        | 1400           | X    |   | X              |                |       | 21   | X            | X                      | X       | X                     | X            | DISSOLVED METALS ARE FIELD FILTERED |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
| BD-3, 120809   | 12-8-09        | —              | X    |   | X              |                |       | 9  | X            | X                      | X       | X                     |              |                                     |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
| TRP BLANK, 120809  | 12-8-09        | 1545           | X    |   | X              |                |       | 2  | X            |                        |         |                       |              |                                     |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
| TRP BLANK, 120809  | 12-8-09        | 1545           | X    |   | X              |                |       | 2  |              |                        | X       |                       |              | QC SUMMARY DATA PACKAGE             |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |
| <p><b>8</b> 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 replicate volume.)</p> <p>Type VI (Raw Data Only) Internal COC Required? Yes / No _____</p> <p>SDG Complete? Yes No</p>   |                |                |      |   |                |                |       |  |              |                        |         |                       |              |                                     |         |         |     |  |               |         |      |   |  |   |  |  |   |   |   |  |  |  |                           |               |         |      |   |  |   |  |  |    |   |   |  |  |   |  |              |         |      |   |  |   |  |  |   |   |  |  |  |  |  |               |         |      |   |  |   |  |  |    |   |   |   |   |   |                                     |              |         |   |   |  |   |  |  |   |   |   |   |   |  |  |                   |         |      |   |  |   |  |  |   |   |  |  |  |  |  |                   |         |      |   |  |   |  |  |   |  |  |   |  |  |                         |                                |  |  |  |   |  |  |  |                 |  |

Analytical Requests for Groundwater  
Chevron Cincinnati Facility, Hooven, Ohio

Volatile Organics

Benzene  
Chlorobenzene  
Ethylbenzene  
Toluene  
Xylenes (total)

Dissolved Metals- field filtered

Arsenic  
Lead

TPH

GRO  
DRO

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



## Lancaster Laboratories Explanation of Symbols and Abbreviations

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

|                         |  |                        |  |
|-------------------------|--|------------------------|--|
| <b>N.D.</b>             | none detected  | <b>BMQL</b>            | Below Minimum Quantitation Level               |
| <b>TNTC</b>             | Too Numerous To Count  | <b>MPN</b>             | Most Probable Number                           |
| <b>IU</b>               | International Units  | <b>CP Units</b>        | cobalt-chloroplatinate units                   |
| <b>umhos/cm</b>         | micromhos/cm   | <b>NTU</b>             | nephelometric turbidity units                  |
| <b>C</b>                | degrees Celsius  | <b>F</b>               | degrees Fahrenheit                             |
| <b>Cal</b>              | (diet) calories  | <b>lb.</b>             | pound(s)                                       |
| <b>meq</b>              | milliequivalents   | <b>kg</b>              | kilogram(s)                                    |
| <b>g</b>                | gram(s)  | <b>mg</b>              | milligram(s)                                   |
| <b>ug</b>               | microgram(s)   | <b>l</b>               | liter(s)                                       |
| <b>ml</b>               | milliliter(s)  | <b>ul</b>              | microliter(s)                                  |
| <b>m3</b>               | cubic meter(s)   | <b>fib &gt;5 um/ml</b> | fibers greater than 5 microns in length per ml |
| <b>&lt;</b>             | 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.  |                        |  |
| <b>&gt;</b>             | greater than   |                        |  |
| <b>ppm</b>              | 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. |                        |  |
| <b>ppb</b>              | parts per billion  |                        |  |
| <b>Dry weight basis</b> | 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

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

### Inorganic Qualifiers

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