

May 2014 Potentiometric Map

Location: TR 31-5-697
WPX Energy Rocky Mountain, LLC

Features

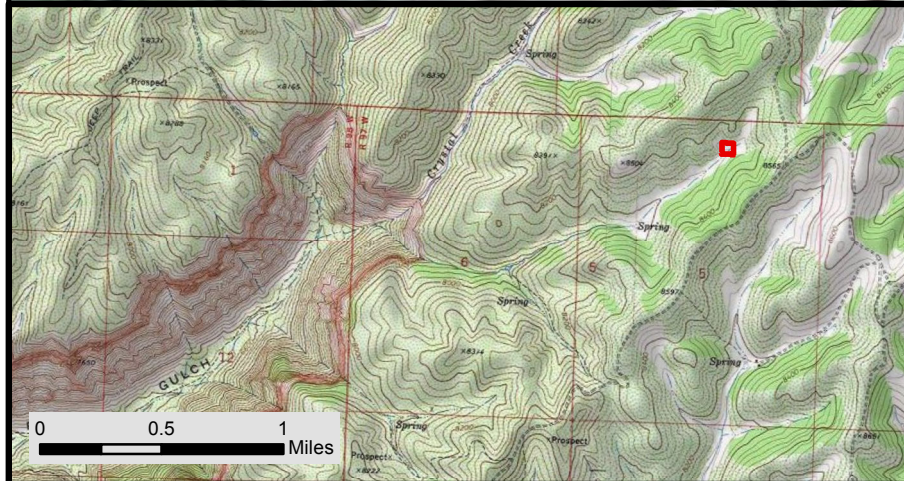
- Monitoring Well
- WPX Access Roads
- Potentiometric Lines
- Perennial Stream
- Intermittent Stream
- Township
- Section

PLSS

- Township
- Section

0 100 200 Feet





WPXENERGY Remediation Design Map: TR 31-5-697

39.560948 -108.241468
Section 5, Township 6 South, Range 97 West

Features

- Drilled Bart
- Not Drilled Bart
- Monitoring Well

PLSS

- Township
- Section

Transportation

- CO Highways
- County Roads
- Local Streets
- WPX Access

Hydrography

- Ditch
- Intermittent Stream
- Perennial Stream
- Waterbody
- Watershed



Author: B. Hall

Revision: 0

Date: 8/5/2014

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 1 | MW 1 | MW 1 | MW 1 | MW 1 |
|---|------|-----------------------------------|------------|----------|-----------|-----------|-----------|
| Date Sampled: | | | 10/19/2011 | 4/9/2012 | 7/12/2012 | 9/18/2012 | 12/5/2012 |
| Depth to Water (ft.) | | | 22.51 | 22.07 | NT | 24.09 | 24.26 |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | 0.18 | ND | ND | ND | ND |
| GRO | mg/L | | ND | ND | ND | ND | ND |
| Benzene | ug/l | 5 ug/l | ND | ND | ND | ND | ND |
| Ethylbenzene | ug/l | 700 ug/l | ND | ND | ND | ND | ND |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | ND |
| Xylene (total) | ug/l | 1400 ug/l | ND | ND | ND | ND | ND |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | ND | ND | ND | ND | ND |
| 2-Chloronaphthalene | ug/l | | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | ND | ND | ND | ND | ND |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | ND | ND | ND | ND | ND |
| Phenanthrene | ug/l | | ND | ND | ND | ND | ND |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 87 | 64 | 78 | 71 | 68 |
| Iron | mg/l | | 0.12 | ND | 1.1 | 0.55 | 0.12 |
| Magnesium | mg/l | | 43 | 32 | 37 | 34 | 33 |
| Manganese | mg/l | | ND | ND | 0.036 | 0.024 | 0.023 |
| Potassium | mg/l | | 1.1 | 0.64 | 0.9 | 0.98 | 0.74 |
| Sodium | mg/l | | 68 | 49 | 56 | 74 | 51 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.34 | 0.28 | 0.3 | 0.33 | 0.26 |
| Chloride | mg/l | 1.25 x bkgd | 42 | 52 | 45 | 47 | 41 |
| Nitrogen, Nitrate | mg/l | | 1.1 | 1.5 | 1.1 | 0.7 | 0.64 |
| Nitrogen, Nitrite | mg/l | | ND | ND | ND | ND | ND |
| Nitrogen, Nitrate-Nitrite | | | 1.1 | 1.5 | 1.1 | 0.7 | 0.64 |
| Sulfate | mg/l | 1.25 x bkgd | 130 | 110 | 120 | 130 | 120 |
| Fluoride | mg/l | | 0.19 | 0.17 | 0.24 | 0.18 | 0.16 |
| TDS | mg/l | 1.25 x bkgd | 652 | 624 | NT | 601 | 575 |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 1 | MW 1 | MW 1 | MW 1 | MW 1 |
|---|------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Date Sampled: | | | 3/27/2013 | 5/15/2013 | 7/26/2013 | 11/8/2013 | 5/29/2014 |
| Depth to Water (ft.) | | | 23.65 | 23.637 | 24.42 | 26.2 | |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | ND | ND | ND | ND | ND |
| GRO | mg/L | | ND | ND | ND | ND | ND |
| Benzene | ug/l | 5 ug/l | ND | ND | ND | ND | ND |
| Ethylbenzene | ug/l | 700 ug/l | ND | ND | ND | ND | ND |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | ND |
| Xylene (total) | ug/l | 1400 ug/l | ND | ND | ND | ND | ND |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | ND | ND | ND | NT | NT |
| 2-Chloronaphthalene | ug/l | | ND | ND | ND | NT | NT |
| 2-Methylnaphthalene | ug/l | | ND | ND | ND | NT | NT |
| Acenaphthene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | ND | ND | ND | NT | NT |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | ND | ND | NT | NT |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | ND | ND | ND | ND | ND |
| Phenanthrene | ug/l | | ND | ND | ND | NT | NT |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 73 | 84 | 76 | 78 | 84 |
| Iron | mg/l | | 1.3 | ND | ND | ND | 0.12 |
| Magnesium | mg/l | | 37 | 42 | 38 | 39 | 42 |
| Manganese | mg/l | | 1 | 0.29 | 0.042 | ND | ND |
| Potassium | mg/l | | 14 | 1.1 | 0.73 | 0.82 | 0.8 |
| Sodium | mg/l | | 57 | 59 | 56 | 59 | 60 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.34 | 0.41 | 0.33 | 0.34 | 0.44 |
| Chloride | mg/l | 1.25 x bkgd | 44 | 57 | 48 | 48 | 34 |
| Nitrogen, Nitrate | mg/l | | 1.2 | 1.2 | 0.94 | NT | NT |
| Nitrogen, Nitrite | mg/l | | ND | ND | ND | NT | NT |
| Nitrogen, Nitrate-Nitrite | | | 1.2 | 1.2 | 0.94 | NT | 1.9 |
| Sulfate | mg/l | 1.25 x bkgd | 110 | 120 | 120 | 110 | NT |
| Fluoride | mg/l | | 0.19 | 0.16 | 0.13 | 0.17 | 75 |
| TDS | mg/l | 1.25 x bkgd | 563 | 586 | 602 | 660 | NT |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 2 | MW 2 | MW 2 | MW 2 | MW 2 |
|---|------|-----------------------------------|------------|----------|-----------|-----------|-----------|
| Date Sampled: | | | 10/19/2011 | 4/9/2012 | 7/12/2012 | 9/18/2012 | 12/5/2012 |
| Depth to Water (ft.) | | | 26.41 | 25.87 | NT | 28.35 | 30.75 |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | 1.1 | 1.6 | ND | 3.4 | 120 |
| GRO | mg/L | | 7 | 4.8 | 2.5 | 10 | 28 |
| Benzene | ug/l | 5 ug/l | 120 | 70 | 98 | 63 | 110 |
| Ethylbenzene | ug/l | 700 ug/l | 92 | 58 | 56 | 84 | 590 |
| Toluene | ug/l | 560 ug/l | 2.2 | ND | 2.6 | ND | 36 |
| Xylene (total) | ug/l | 1400 ug/l | 1,600 | 1,200 | 470 | 1400 | 17,000 |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | 7.5 | ND | ND | ND | 230 |
| 2-Chloronaphthalene | ug/l | | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | ug/l | | 13 | ND | ND | ND | 600 |
| Acenaphthene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | ND | ND | ND | ND | ND |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | 13 | 7 | ND | 5.6 | 230 |
| Phenanthrene | ug/l | | ND | ND | ND | ND | ND |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 7.7 | 54 | 71 | 46 | 59 |
| Iron | mg/l | | ND | 0.13 | 0.44 | 0.098 | 0.2 |
| Magnesium | mg/l | | 39 | 28 | 34 | 29 | 30 |
| Manganese | mg/l | | 0.95 | 0.47 | 0.53 | 0.092 | 0.45 |
| Potassium | mg/l | | 1.2 | 0.79 | 1.6 | 0.66 | 0.98 |
| Sodium | mg/l | | 85 | 59 | 83 | 150 | 73 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.41 | 0.34 | 0.45 | 0.47 | 0.47 |
| Chloride | mg/l | 1.25 x bkgd | 53 | 45 | 53 | 61 | 54 |
| Nitrogen, Nitrate | mg/l | | 0.047 | 0.18 | ND | ND | ND |
| Nitrogen, Nitrite | mg/l | | ND | ND | ND | ND | ND |
| Nitrogen, Nitrate-Nitrite | | | 0.047 | 0.1 | ND | ND | ND |
| Sulfate | mg/l | 1.25 x bkgd | 67 | 74 | 26 | 35 | 28 |
| Fluoride | mg/l | | 0.19 | 0.18 | 0.27 | 0.21 | 0.2 |
| TDS | mg/l | 1.25 x bkgd | 618 | 627 | NT | 640 | 607 |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 2 | MW 2 | MW 2 | MW 2 | MW 2 |
|---|------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Date Sampled: | | | 3/27/2013 | 5/15/2013 | 7/11/2013 | 11/8/2013 | 5/29/2014 |
| Depth to Water (ft.) | | | 28.21 | 26.64 | 29.48 | 30.48 | |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | 39 | 46 | 22 | 210 | 88 |
| GRO | mg/L | | 21 | 62 | 9.5 | 8.6 | 6.4 |
| Benzene | ug/l | 5 ug/l | 150 | 60 | 37 | 54 | 60 |
| Ethylbenzene | ug/l | 700 ug/l | 190 | 120 | 61 | 40 | 68 |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | ND |
| Xylene (total) | ug/l | 1400 ug/l | 2,800 | 2,900 | 1,000 | 2,400 | 900 |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | 22 | 42 | 29 | NT | NT |
| 2-Chloronaphthalene | ug/l | | ND | ND | ND | NT | NT |
| 2-Methylnaphthalene | ug/l | | 52 | 110 | 77 | NT | NT |
| Acenaphthene | ug/l | | ND | ND | 11 | ND | ND |
| Acenaphthylene | ug/l | | ND | ND | ND | NT | NT |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | ND | ND | NT | NT |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | 5.9 |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | 23 | 60 | 19 | ND | 14 |
| Phenanthrene | ug/l | | ND | ND | ND | NT | NT |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 78 | 99 | 79 | 86 | 82 |
| Iron | mg/l | | 0.12 | 0.29 | 0.37 | 0.71 | 0.28 |
| Magnesium | mg/l | | 39 | 50 | 41 | 46 | 43 |
| Manganese | mg/l | | 0.59 | 0.7 | 0.46 | 0.62 | 0.5 |
| Potassium | mg/l | | 1.2 | 1.5 | 1.3 | 1.2 | 1 |
| Sodium | mg/l | | 90 | 82 | 83 | 89 | 87 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.42 | 0.36 | 0.45 | 0.38 | 0.45 |
| Chloride | mg/l | 1.25 x bkgd | 51 | 53 | 58 | 50 | 64 |
| Nitrogen, Nitrate | mg/l | | 0.14 | 0.044 | ND | NT | NT |
| Nitrogen, Nitrite | mg/l | | ND | ND | 0.038 | NT | NT |
| Nitrogen, Nitrate-Nitrite | | | 0.14 | 0.044 | 0.038 | NT | 0.24 |
| Sulfate | mg/l | 1.25 x bkgd | 24 | 41 | 50 | 37 | NT |
| Fluoride | mg/l | | 0.18 | 0.16 | 0.14 | 0.16 | NT |
| TDS | mg/l | 1.25 x bkgd | 605 | 601 | 721 | 820 | NT |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 3 | MW 3 | MW 3 | MW 3 | MW 3 |
|---|------|-----------------------------------|------------|----------|-----------|-----------|-----------|
| Date Sampled: | | | 10/19/2011 | 4/9/2012 | 7/12/2012 | 9/18/2012 | 12/5/2012 |
| Depth to Water (ft.) | | | 33.38 | 33.02 | NT | 33.04 | 34.3 |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | 40 | 1.1 | ND | 1.5 | 2 |
| GRO | mg/L | | 4.8 | 3 | 1.4 | 1.8 | 1.7 |
| Benzene | ug/l | 5 ug/l | 55 | 25 | 8.1 | 4.4 | ND |
| Ethylbenzene | ug/l | 700 ug/l | 97 | 95 | 28 | 12 | 7.1 |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | ND |
| Xylene (total) | ug/l | 1400 ug/l | 600 | 520 | 140 | 100 | 84 |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | ND | ND | ND | ND | 5.7 |
| 2-Chloronaphthalene | ug/l | | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | ug/l | | ND | ND | ND | ND | 11 |
| Acenaphthene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | ND | ND | ND | ND | ND |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | ND | ND | ND | ND | ND |
| Phenanthrene | ug/l | | ND | ND | ND | ND | ND |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 79 | 99 | 87 | 75 | 69 |
| Iron | mg/l | | 0.12 | 1.1 | 0.53 | 0.64 | 0.18 |
| Magnesium | mg/l | | 37 | 42 | 36 | 35 | 33 |
| Manganese | mg/l | | 1.7 | 3.2 | 1.9 | 0.61 | 2.5 |
| Potassium | mg/l | | 1.1 | 1.6 | 1.7 | 1 | 0.74 |
| Sodium | mg/l | | 89 | 130 | 81 | 59 | 52 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.55 | 2.5 | 0.68 | 0.36 | 0.31 |
| Chloride | mg/l | 1.25 x bkgd | 72 | 300 | 95 | 45 | 38 |
| Nitrogen, Nitrate | mg/l | | ND | ND | ND | ND | ND |
| Nitrogen, Nitrite | mg/l | | ND | ND | ND | ND | ND |
| Nitrogen, Nitrate-Nitrite | | | ND | ND | ND | ND | ND |
| Sulfate | mg/l | 1.25 x bkgd | 61 | 7.1 | 39 | 110 | 110 |
| Fluoride | mg/l | | 0.22 | 0.15 | 0.23 | 0.17 | 0.16 |
| TDS | mg/l | 1.25 x bkgd | 640 | 1,190 | NT | 603 | 581 |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 3 | MW 3 | MW 3 | MW 3 | MW 3 |
|---|------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Date Sampled: | | | 3/27/2013 | 5/15/2013 | 7/11/2013 | 11/8/2013 | 5/29/2014 |
| Depth to Water (ft.) | | | 32.74 | 30.31 | 32.64 | 33.98 | |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | 69 | 7.6 | 5.4 | 13 | 2.4 |
| GRO | mg/L | | 1.9 | 1.4 | 1.6 | 1.2 | 1.6 |
| Benzene | ug/l | 5 ug/l | 4.1 | 1.3 | ND | 5.4 | 5.1 |
| Ethylbenzene | ug/l | 700 ug/l | 12 | 8.6 | 3.9 | ND | 21 |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | ND |
| Xylene (total) | ug/l | 1400 ug/l | 100 | 29 | 22 | 3.6 | 80 |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | 17 | ND | ND | NT | NT |
| 2-Chloronaphthalene | ug/l | | ND | ND | ND | NT | NT |
| 2-Methylnaphthalene | ug/l | | 10 | 5.7 | ND | NT | NT |
| Acenaphthene | ug/l | | 5.7 | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | ND | ND | ND | NT | NT |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | ND | ND | NT | NT |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | ND | ND | ND | ND | ND |
| Phenanthrene | ug/l | | ND | ND | ND | NT | NT |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 870 | 110 | 83 | 87 | 160 |
| Iron | mg/l | | 4 | 0.22 | ND | ND | 1.1 |
| Magnesium | mg/l | | 410 | 50 | 40 | 42 | 66 |
| Manganese | mg/l | | 6.1 | 1.4 | 0.68 | 0.68 | 3.4 |
| Potassium | mg/l | | 9.7 | 1.2 | 0.88 | 0.89 | 1.3 |
| Sodium | mg/l | | 73 | 88 | 61 | 72 | 170 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.52 | 1 | 0.37 | 0.56 | 4 |
| Chloride | mg/l | 1.25 x bkgd | 61 | 130 | 51 | 68 | 500 |
| Nitrogen, Nitrate | mg/l | | 0.051 | 0.023 | ND | NT | NT |
| Nitrogen, Nitrite | mg/l | | ND | ND | 0.032 | NT | NT |
| Nitrogen, Nitrate-Nitrite | | | 0.051 | 0.023 | 0.032 | NT | ND |
| Sulfate | mg/l | 1.25 x bkgd | 73 | 85 | 93 | 61 | 66 |
| Fluoride | mg/l | | 0.18 | 0.14 | 0.11 | 0.14 | ND |
| TDS | mg/l | 1.25 x bkgd | 621 | 620 | 699 | 925 | NT |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 4 | MW 4 | MW 4 | MW 4 | MW 4 |
|---|------|-----------------------------------|------------|----------|-----------|-----------|-----------|
| Date Sampled: | | | 10/19/2011 | 4/9/2012 | 7/12/2012 | 9/18/2012 | 12/5/2012 |
| Depth to Water (ft.) | | | 28.83 | 27.56 | NT | 32.74 | 33.02 |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | 3.1 | 0.9 | 7.3 | 0.87 | 1.3 |
| GRO | mg/L | | 4.7 | 2.3 | 1.6 | 1.1 | 0.34 |
| Benzene | ug/l | 5 ug/l | 67 | 17 | 27 | 16 | 9 |
| Ethylbenzene | ug/l | 700 ug/l | 96 | 72 | 44 | 13 | 2.4 |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | ND |
| Xylene (total) | ug/l | 1400 ug/l | 470 | 160 | 130 | 44 | 7.8 |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | 6.6 | ND | ND | ND | ND |
| 2-Chloronaphthalene | ug/l | | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | ug/l | | 8.4 | ND | ND | ND | ND |
| Acenaphthene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | ND | ND | ND | ND | ND |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | 5.9 | ND | ND | ND | ND |
| Phenanthrene | ug/l | | ND | ND | ND | ND | ND |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 78 | 74 | 79 | 80 | 68 |
| Iron | mg/l | | ND | ND | 0.17 | ND | 0.091 |
| Magnesium | mg/l | | 37 | 34 | 35 | 34 | 31 |
| Manganese | mg/l | | 1.7 | 1.6 | 1.8 | 0.92 | 1.3 |
| Potassium | mg/l | | 1.1 | 0.84 | 0.98 | 0.79 | 0.77 |
| Sodium | mg/l | | 100 | 87 | 82 | 100 | 71 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.47 | 0.84 | 0.38 | 0.48 | 0.45 |
| Chloride | mg/l | 1.25 x bkgd | 63 | 75 | 64 | 61 | 52 |
| Nitrogen, Nitrate | mg/l | | ND | ND | ND | ND | ND |
| Nitrogen, Nitrite | mg/l | | ND | ND | ND | ND | ND |
| Nitrogen, Nitrate-Nitrite | | | ND | ND | ND | ND | ND |
| Sulfate | mg/l | 1.25 x bkgd | 2.7 | 10 | 12 | 49 | 49 |
| Fluoride | mg/l | | 0.2 | 0.18 | 0.23 | 0.16 | 0.16 |
| TDS | mg/l | 1.25 x bkgd | 623 | 689 | NT | 634 | 601 |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 4 | MW 4 | MW 4 | MW 4 | MW 4 |
|---|------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Date Sampled: | | | 3/27/2013 | 5/15/2013 | 7/11/2013 | 11/8/2013 | 5/29/2014 |
| Depth to Water (ft.) | | | 32.36 | 31.01 | 32.48 | 32.72 | |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | 1.4 | 1.3 | 0.65 | ND | 1.4 |
| GRO | mg/L | | 0.9 | 0.72 | 0.92 | 0.27 | 1.3 |
| Benzene | ug/l | 5 ug/l | 2 | 13 | 14 | ND | 9.9 |
| Ethylbenzene | ug/l | 700 ug/l | ND | 14 | 15 | ND | 36 |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | ND |
| Xylene (total) | ug/l | 1400 ug/l | 3.2 | 56 | 69 | ND | 99 |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | ND | ND | ND | NT | NT |
| 2-Chloronaphthalene | ug/l | | ND | ND | ND | NT | NT |
| 2-Methylnaphthalene | ug/l | | ND | ND | ND | NT | NT |
| Acenaphthene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | ND | ND | ND | NT | NT |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | ND | ND | NT | NT |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | ND | ND | ND | ND | ND |
| Phenanthrene | ug/l | | ND | ND | ND | NT | NT |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 910 | 99 | 88 | 83 | 90 |
| Iron | mg/l | | 1.1 | 0.17 | ND | ND | 0.35 |
| Magnesium | mg/l | | 430 | 47 | 41 | 40 | 44 |
| Manganese | mg/l | | 17 | 0.19 | 1.8 | 1.5 | 1.6 |
| Potassium | mg/l | | 9.1 | 1.2 | 0.91 | 0.84 | 0.81 |
| Sodium | mg/l | | 900 | 92 | 83 | 82 | 85 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.55 | 0.59 | 0.5 | 0.47 | 0.62 |
| Chloride | mg/l | 1.25 x bkgd | 62 | 84 | 68 | 58 | 87 |
| Nitrogen, Nitrate | mg/l | | 0.05 | ND | ND | NT | NT |
| Nitrogen, Nitrite | mg/l | | ND | ND | ND | NT | NT |
| Nitrogen, Nitrate-Nitrite | | | 0.05 | ND | ND | NT | ND |
| Sulfate | mg/l | 1.25 x bkgd | 74 | 21 | 9.7 | 24 | 23 |
| Fluoride | mg/l | | 0.18 | 0.14 | 0.11 | 0.15 | ND |
| TDS | mg/l | 1.25 x bkgd | 605 | 610 | 715 | 730 | NT |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 5 | MW 5 | MW 5 | MW 6 | MW 6 |
|---|------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Date Sampled: | | | 7/11/2013 | 11/8/2013 | 5/29/2014 | 7/11/2013 | 11/8/2013 |
| Depth to Water (ft.) | | | 29.47 | 30.46 | | 25.35 | 25.62 |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | ND | ND | ND | ND | ND |
| GRO | mg/L | | ND | ND | ND | ND | ND |
| Benzene | ug/l | 5 ug/l | ND | ND | ND | 1.5 | ND |
| Ethylbenzene | ug/l | 700 ug/l | ND | ND | ND | ND | ND |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | ND |
| Xylene (total) | ug/l | 1400 ug/l | ND | ND | ND | 18 | ND |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | ND | NT | NT | ND | NT |
| 2-Chloronaphthalene | ug/l | | ND | NT | NT | ND | NT |
| 2-Methylnaphthalene | ug/l | | ND | NT | NT | ND | NT |
| Acenaphthene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | ND | NT | NT | ND | NT |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | ND | NT | NT | ND | NT |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | ND | ND | ND | ND | ND |
| Phenanthrene | ug/l | | ND | NT | NT | ND | NT |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 63 | 61 | 61 | 76 | 73 |
| Iron | mg/l | | ND | ND | ND | 0.12 | ND |
| Magnesium | mg/l | | 31 | 30 | 30 | 36 | 35 |
| Manganese | mg/l | | 31 | 0.064 | 0.052 | 0.77 | 0.77 |
| Potassium | mg/l | | 0.032 | 1.1 | 0.66 | 1 | 0.88 |
| Sodium | mg/l | | 69 | 80 | 71 | 76 | 83 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | ND | 0.18 | 0.22 | 0.31 | 0.34 |
| Chloride | mg/l | 1.25 x bkgd | 17 | 19 | 20 | 48 | 43 |
| Nitrogen, Nitrate | mg/l | | ND | NT | NT | ND | NT |
| Nitrogen, Nitrite | mg/l | | ND | NT | NT | ND | NT |
| Nitrogen, Nitrate-Nitrite | | | ND | NT | ND | ND | NT |
| Sulfate | mg/l | 1.25 x bkgd | 110 | 110 | 110 | 53 | 53 |
| Fluoride | mg/l | | 0.15 | 0.17 | 0.12 | 0.11 | 0.15 |
| TDS | mg/l | 1.25 x bkgd | 589 | 584 | NT | 625 | 680 |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 6 | MW 7 | MW 7 | MW 7 | MW 8 |
|---|------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| Date Sampled: | | | 5/29/2014 | 7/11/2013 | 11/8/2013 | 5/29/2014 | 11/8/2013 |
| Depth to Water (ft.) | | | | 28.42 | 28.62 | | 22.09 |
| GC/MS Volatiles (SW846 8260B) | | | | | | | |
| DRO | mg/L | | ND | ND | ND | ND | 1.5 |
| GRO | mg/L | | ND | ND | ND | ND | 1.4 |
| Benzene | ug/l | 5 ug/l | 1.8 | ND | ND | ND | 90 |
| Ethylbenzene | ug/l | 700 ug/l | ND | ND | ND | ND | 16 |
| Toluene | ug/l | 560 ug/l | ND | ND | ND | ND | 26 |
| Xylene (total) | ug/l | 1400 ug/l | ND | ND | ND | ND | 150 |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | | | |
| 1-Methylnaphthalene | ug/l | | NT | ND | NT | NT | NT |
| 2-Chloronaphthalene | ug/l | | NT | ND | NT | NT | NT |
| 2-Methylnaphthalene | ug/l | | NT | ND | NT | NT | NT |
| Acenaphthene | ug/l | | ND | ND | ND | ND | ND |
| Acenaphthylene | ug/l | | NT | ND | NT | NT | NT |
| Anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | NT | ND | NT | NT | NT |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND | ND | ND |
| Naphthalene | ug/l | | ND | ND | ND | ND | ND |
| Phenanthrene | ug/l | | NT | ND | NT | NT | NT |
| Pyrene | ug/l | | ND | ND | ND | ND | ND |
| Metals Analysis | | | | | | | |
| Calcium | mg/l | | 74 | 63 | 71 | 79 | 87 |
| Iron | mg/l | | ND | ND | ND | ND | ND |
| Magnesium | mg/l | | 35 | 31 | 36 | 39 | 45 |
| Manganese | mg/l | | 0.091 | 0.032 | 0.51 | 0.39 | 1 |
| Potassium | mg/l | | 0.68 | 1.2 | 0.79 | 0.91 | 1.3 |
| Sodium | mg/l | | 65 | 69 | 82 | 85 | 82 |
| General Chemistry | | | | | | | |
| Bromide | mg/l | | 0.32 | ND | 0.2 | 0.44 | 0.44 |
| Chloride | mg/l | 1.25 x bkgd | 39 | 17 | 37 | 55 | 51 |
| Nitrogen, Nitrate | mg/l | | NT | ND | NT | NT | NT |
| Nitrogen, Nitrite | mg/l | | NT | ND | NT | NT | NT |
| Nitrogen, Nitrate-Nitrite | | | 0.24 | ND | NT | 0.025 | NT |
| Sulfate | mg/l | 1.25 x bkgd | 63 | 110 | 47 | 41 | 63 |
| Fluoride | mg/l | | 0.11 | 0.15 | 0.14 | ND | 0.17 |
| TDS | mg/l | 1.25 x bkgd | NT | 635 | 658 | NT | 746 |

Table 1

TR 31-5-697 Groundwater Analytical Results

| Sample ID: | | COGCC Table 910-1 Standards | MW 8 | MW 9 | MW 9 |
|---|------|-----------------------------------|-----------|-----------|-----------|
| Date Sampled: | | | 5/29/2014 | 11/8/2013 | 5/29/2014 |
| Depth to Water (ft.) | | | | 24.42 | |
| GC/MS Volatiles (SW846 8260B) | | | | | |
| DRO | mg/L | | ND | 3.3 | 1.1 |
| GRO | mg/L | | 0.44 | 11 | 0.55 |
| Benzene | ug/l | 5 ug/l | 9.8 | ND | ND |
| Ethylbenzene | ug/l | 700 ug/l | 6.2 | ND | ND |
| Toluene | ug/l | 560 ug/l | ND | 16 | ND |
| Xylene (total) | ug/l | 1400 ug/l | 83 | 1,800 | 8 |
| GC/MS Semi-volatiles (SW846 8270C) | | | | | |
| 1-Methylnaphthalene | ug/l | | NT | NT | NT |
| 2-Chloronaphthalene | ug/l | | NT | NT | NT |
| 2-Methylnaphthalene | ug/l | | NT | NT | NT |
| Acenaphthene | ug/l | | ND | ND | ND |
| Acenaphthylene | ug/l | | NT | NT | NT |
| Anthracene | ug/l | | ND | ND | ND |
| Benzo(a)anthracene | ug/l | | ND | ND | ND |
| Benzo(a)pyrene | ug/l | | ND | ND | ND |
| Benzo(b)fluoranthene | ug/l | | ND | ND | ND |
| Benzo(g,h,i)perylene | ug/l | | NT | NT | NT |
| Benzo(k)fluoranthene | ug/l | | ND | ND | ND |
| Chrysene | ug/l | | ND | ND | ND |
| Dibenzo(a,h)anthracene | ug/l | | ND | ND | ND |
| Fluoranthene | ug/l | | ND | ND | ND |
| Fluorene | ug/l | | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | ug/l | | ND | ND | ND |
| Naphthalene | ug/l | | ND | 30 | 30 |
| Phenanthrene | ug/l | | NT | NT | NT |
| Pyrene | ug/l | | ND | ND | ND |
| Metals Analysis | | | | | |
| Calcium | mg/l | | 72 | 69 | 68 |
| Iron | mg/l | | 0.11 | ND | ND |
| Magnesium | mg/l | | 37 | 36 | 35 |
| Manganese | mg/l | | 0.032 | 0.42 | 0.056 |
| Potassium | mg/l | | 0.86 | 2 | 0.8 |
| Sodium | mg/l | | 59 | 100 | 59 |
| General Chemistry | | | | | |
| Bromide | mg/l | | 0.31 | 0.58 | 0.27 |
| Chloride | mg/l | 1.25 x bkgd | 46 | 70 | 37 |
| Nitrogen, Nitrate | mg/l | | NT | NT | NT |
| Nitrogen, Nitrite | mg/l | | NT | NT | NT |
| Nitrogen, Nitrate-Nitrite | | | 1.2 | NT | ND |
| Sulfate | mg/l | 1.25 x bkgd | 110 | 70 | 100 |
| Fluoride | mg/l | | 0.13 | 0.27 | 0.13 |
| TDS | mg/l | 1.25 x bkgd | NT | 748 | NT |



09-Jun-2014

Mark Mumby
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **WPX TR 31-5-697 Quarterly MW 5.29.14**

Work Order: **14051574**

Dear Mark,

ALS Environmental received 10 samples on 31-May-2014 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 45.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Work Order: 14051574

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 14051574-01 | MW-1 | Water | | 5/29/2014 11:15 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-02 | MW-2 | Water | | 5/29/2014 14:15 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-03 | MW-3 | Water | | 5/29/2014 12:50 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-04 | MW-4 | Water | | 5/29/2014 12:30 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-05 | MW-5 | Water | | 5/29/2014 13:00 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-06 | MW-6 | Water | | 5/29/2014 11:35 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-07 | MW-7 | Water | | 5/29/2014 12:05 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-08 | MW-8 | Water | | 5/29/2014 13:10 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-09 | MW-9 | Water | | 5/29/2014 13:15 | 5/30/2014 09:30 | <input type="checkbox"/> |
| 14051574-10 | Trip Blank | Water | | 5/29/2014 | 5/30/2014 09:30 | <input type="checkbox"/> |

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Work Order: 14051574

Case Narrative

Batch 59283 sample 14051574-02 PAH analysis had one surrogate recovery that was high due to matrix interference. PAH compounds with reportable results may be biased high.

Batch 59317 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
WorkOrder: 14051574

QUALIFIERS, ACRONYMS, UNITS

| <u>Qualifier</u> | <u>Description</u> |
|-------------------------|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |

| <u>Acronym</u> | <u>Description</u> |
|-----------------------|-------------------------------------|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

| <u>Units Reported</u> | <u>Description</u> |
|------------------------------|---------------------------|
| µg/L | Micrograms per Liter |
| mg/L | Milligrams per Liter |

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-1
Collection Date: 5/29/2014 11:15 AM

Work Order: 14051574
Lab ID: 14051574-01
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|----------------|-------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | ND | | 0.10 | mg/L | 1 | 6/3/2014 07:14 PM |
| Surr: 4-Terphenyl-d14 | 89.8 | | 31-176 | %REC | 1 | 6/3/2014 07:14 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | ND | | 0.20 | mg/L | 1 | 6/3/2014 08:49 PM |
| Surr: Toluene-d8 | 105 | | 70-130 | %REC | 1 | 6/3/2014 08:49 PM |
| METALS BY ICP-MS (DISSOLVED) | | | | | | |
| | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 84 | | 0.50 | mg/L | 1 | 6/7/2014 05:08 AM |
| Iron | 0.12 | | 0.080 | mg/L | 1 | 6/7/2014 05:08 AM |
| Magnesium | 42 | | 0.20 | mg/L | 1 | 6/7/2014 05:08 AM |
| Manganese | ND | | 0.0050 | mg/L | 1 | 6/7/2014 05:08 AM |
| Potassium | 0.80 | | 0.20 | mg/L | 1 | 6/7/2014 05:08 AM |
| Sodium | 60 | | 0.20 | mg/L | 1 | 6/7/2014 05:08 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Fluorene | ND | | 5.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Naphthalene | ND | | 5.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 12:33 PM |
| Surr: 2-Fluorobiphenyl | 100 | | 20-140 | %REC | 1 | 6/6/2014 12:33 PM |
| Surr: 4-Terphenyl-d14 | 142 | | 22-172 | %REC | 1 | 6/6/2014 12:33 PM |
| Surr: Nitrobenzene-d5 | 119 | | 8-140 | %REC | 1 | 6/6/2014 12:33 PM |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8260 | | | Analyst: AK |
| Benzene | ND | | 1.0 | µg/L | 1 | 6/4/2014 11:51 PM |
| Ethylbenzene | ND | | 1.0 | µg/L | 1 | 6/4/2014 11:51 PM |
| m,p-Xylene | ND | | 2.0 | µg/L | 1 | 6/4/2014 11:51 PM |
| o-Xylene | ND | | 1.0 | µg/L | 1 | 6/4/2014 11:51 PM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/4/2014 11:51 PM |
| Xylenes, Total | ND | | 3.0 | µg/L | 1 | 6/4/2014 11:51 PM |
| Surr: 1,2-Dichloroethane-d4 | 94.9 | | 75-120 | %REC | 1 | 6/4/2014 11:51 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-1
Collection Date: 5/29/2014 11:15 AM

Work Order: 14051574
Lab ID: 14051574-01
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|-------------|------|--------------------|-------|-----------------|--------------------|
| <i>Surr: 4-Bromofluorobenzene</i> | 101 | | 80-110 | %REC | 1 | 6/4/2014 11:51 PM |
| <i>Surr: Dibromofluoromethane</i> | 99.8 | | 85-115 | %REC | 1 | 6/4/2014 11:51 PM |
| <i>Surr: Toluene-d8</i> | 96.8 | | 85-110 | %REC | 1 | 6/4/2014 11:51 PM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 0.44 | | 0.20 | mg/L | 1 | 6/5/2014 02:05 PM |
| Chloride | 34 | | 10 | mg/L | 10 | 6/5/2014 03:05 PM |
| Fluoride | 0.12 | | 0.10 | mg/L | 1 | 6/5/2014 02:05 PM |
| Sulfate | 75 | | 10 | mg/L | 10 | 6/5/2014 03:05 PM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | 1.9 | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-2
Collection Date: 5/29/2014 02:15 PM

Work Order: 14051574
Lab ID: 14051574-02
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|-------------|------|----------------|-------------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | 88 | | 0.10 | mg/L | 1 | 6/3/2014 08:14 PM |
| Surr: 4-Terphenyl-d14 | 120 | | 31-176 | %REC | 1 | 6/3/2014 08:14 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | 6.4 | | 0.20 | mg/L | 1 | 6/3/2014 09:15 PM |
| Surr: Toluene-d8 | 113 | | 70-130 | %REC | 1 | 6/3/2014 09:15 PM |
| METALS BY ICP-MS (DISSOLVED) | | | | | | |
| | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 82 | | 0.50 | mg/L | 1 | 6/7/2014 05:15 AM |
| Iron | 0.28 | | 0.080 | mg/L | 1 | 6/7/2014 05:15 AM |
| Magnesium | 43 | | 0.20 | mg/L | 1 | 6/7/2014 05:15 AM |
| Manganese | 0.50 | | 0.0050 | mg/L | 1 | 6/7/2014 05:15 AM |
| Potassium | 1.0 | | 0.20 | mg/L | 1 | 6/7/2014 05:15 AM |
| Sodium | 87 | | 0.20 | mg/L | 1 | 6/7/2014 05:15 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Fluorene | 5.9 | | 5.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Naphthalene | 14 | | 5.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:01 AM |
| Surr: 2-Fluorobiphenyl | 160 | S | 20-140 | %REC | 1 | 6/6/2014 01:01 AM |
| Surr: 4-Terphenyl-d14 | 170 | | 22-172 | %REC | 1 | 6/6/2014 01:01 AM |
| Surr: Nitrobenzene-d5 | 71.0 | | 8-140 | %REC | 1 | 6/6/2014 01:01 AM |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8260 | | | Analyst: BG |
| Benzene | 60 | | 2.0 | µg/L | 2 | 6/6/2014 05:14 PM |
| Ethylbenzene | 68 | | 2.0 | µg/L | 2 | 6/6/2014 05:14 PM |
| m,p-Xylene | 850 | | 10 | µg/L | 5 | 6/5/2014 07:32 PM |
| o-Xylene | 55 | | 2.0 | µg/L | 2 | 6/6/2014 05:14 PM |
| Toluene | ND | | 2.0 | µg/L | 2 | 6/6/2014 05:14 PM |
| Xylenes, Total | 900 | | 15 | µg/L | 5 | 6/5/2014 07:32 PM |
| Surr: 1,2-Dichloroethane-d4 | 94.9 | | 75-120 | %REC | 5 | 6/5/2014 07:32 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-2
Collection Date: 5/29/2014 02:15 PM

Work Order: 14051574
Lab ID: 14051574-02
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|-------------|------|--------------------|-------|-----------------|--------------------|
| <i>Surr: 1,2-Dichloroethane-d4</i> | 101 | | 75-120 | %REC | 2 | 6/6/2014 05:14 PM |
| <i>Surr: 4-Bromofluorobenzene</i> | 97.2 | | 80-110 | %REC | 5 | 6/5/2014 07:32 PM |
| <i>Surr: 4-Bromofluorobenzene</i> | 104 | | 80-110 | %REC | 2 | 6/6/2014 05:14 PM |
| <i>Surr: Dibromofluoromethane</i> | 99.2 | | 85-115 | %REC | 5 | 6/5/2014 07:32 PM |
| <i>Surr: Dibromofluoromethane</i> | 93.6 | | 85-115 | %REC | 2 | 6/6/2014 05:14 PM |
| <i>Surr: Toluene-d8</i> | 99.3 | | 85-110 | %REC | 5 | 6/5/2014 07:32 PM |
| <i>Surr: Toluene-d8</i> | 103 | | 85-110 | %REC | 2 | 6/6/2014 05:14 PM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 0.45 | | 0.20 | mg/L | 1 | 6/5/2014 02:25 PM |
| Chloride | 64 | | 10 | mg/L | 10 | 6/6/2014 07:58 AM |
| Fluoride | 0.13 | | 0.10 | mg/L | 1 | 6/5/2014 02:25 PM |
| Sulfate | 36 | | 10 | mg/L | 10 | 6/6/2014 07:58 AM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | 0.24 | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-3
Collection Date: 5/29/2014 12:50 PM

Work Order: 14051574
Lab ID: 14051574-03
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|------------|------|----------------|-------------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | 2.4 | | 0.10 | mg/L | 1 | 6/3/2014 08:44 PM |
| Surr: 4-Terphenyl-d14 | 114 | | 31-176 | %REC | 1 | 6/3/2014 08:44 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | 1.6 | | 0.20 | mg/L | 1 | 6/3/2014 10:06 PM |
| Surr: Toluene-d8 | 110 | | 70-130 | %REC | 1 | 6/3/2014 10:06 PM |
| METALS BY ICP-MS (DISSOLVED) | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 160 | | 0.50 | mg/L | 1 | 6/7/2014 05:21 AM |
| Iron | 1.1 | | 0.080 | mg/L | 1 | 6/7/2014 05:21 AM |
| Magnesium | 66 | | 0.20 | mg/L | 1 | 6/7/2014 05:21 AM |
| Manganese | 3.4 | | 0.050 | mg/L | 10 | 6/8/2014 03:09 AM |
| Potassium | 1.3 | | 0.20 | mg/L | 1 | 6/7/2014 05:21 AM |
| Sodium | 170 | | 0.20 | mg/L | 1 | 6/7/2014 05:21 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Fluorene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Naphthalene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:29 AM |
| Surr: 2-Fluorobiphenyl | 102 | | 20-140 | %REC | 1 | 6/6/2014 01:29 AM |
| Surr: 4-Terphenyl-d14 | 171 | | 22-172 | %REC | 1 | 6/6/2014 01:29 AM |
| Surr: Nitrobenzene-d5 | 132 | | 8-140 | %REC | 1 | 6/6/2014 01:29 AM |
| VOLATILE ORGANIC COMPOUNDS | | | SW8260 | | | Analyst: AK |
| Benzene | 5.1 | | 1.0 | µg/L | 1 | 6/5/2014 12:16 PM |
| Ethylbenzene | 21 | | 1.0 | µg/L | 1 | 6/5/2014 12:16 PM |
| m,p-Xylene | 78 | | 2.0 | µg/L | 1 | 6/5/2014 12:16 PM |
| o-Xylene | 2.2 | | 1.0 | µg/L | 1 | 6/5/2014 12:16 PM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/5/2014 12:16 PM |
| Xylenes, Total | 80 | | 3.0 | µg/L | 1 | 6/5/2014 12:16 PM |
| Surr: 1,2-Dichloroethane-d4 | 93.0 | | 75-120 | %REC | 1 | 6/5/2014 12:16 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-3
Collection Date: 5/29/2014 12:50 PM

Work Order: 14051574
Lab ID: 14051574-03
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|--------|------|--------------------|-------|-----------------|--------------------|
| Surr: 4-Bromofluorobenzene | 88.9 | | 80-110 | %REC | 1 | 6/5/2014 12:16 PM |
| Surr: Dibromofluoromethane | 99.2 | | 85-115 | %REC | 1 | 6/5/2014 12:16 PM |
| Surr: Toluene-d8 | 108 | | 85-110 | %REC | 1 | 6/5/2014 12:16 PM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 4.0 | | 0.20 | mg/L | 1 | 6/6/2014 02:55 AM |
| Chloride | 500 | | 40 | mg/L | 40 | 6/5/2014 02:45 PM |
| Fluoride | ND | | 0.10 | mg/L | 1 | 6/6/2014 02:55 AM |
| Sulfate | 66 | | 40 | mg/L | 40 | 6/5/2014 02:45 PM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | ND | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-4
Collection Date: 5/29/2014 12:30 PM

Work Order: 14051574
Lab ID: 14051574-04
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|-------------|------|----------------|-------------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | 1.4 | | 0.10 | mg/L | 1 | 6/3/2014 09:14 PM |
| Surr: 4-Terphenyl-d14 | 115 | | 31-176 | %REC | 1 | 6/3/2014 09:14 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | 1.3 | | 0.20 | mg/L | 1 | 6/3/2014 10:32 PM |
| Surr: Toluene-d8 | 114 | | 70-130 | %REC | 1 | 6/3/2014 10:32 PM |
| METALS BY ICP-MS (DISSOLVED) | | | | | | |
| | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 90 | | 0.50 | mg/L | 1 | 6/7/2014 05:27 AM |
| Iron | 0.35 | | 0.080 | mg/L | 1 | 6/7/2014 05:27 AM |
| Magnesium | 44 | | 0.20 | mg/L | 1 | 6/7/2014 05:27 AM |
| Manganese | 1.6 | | 0.0050 | mg/L | 1 | 6/7/2014 05:27 AM |
| Potassium | 0.81 | | 0.20 | mg/L | 1 | 6/7/2014 05:27 AM |
| Sodium | 85 | | 0.20 | mg/L | 1 | 6/7/2014 05:27 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Fluorene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Naphthalene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 01:57 AM |
| Surr: 2-Fluorobiphenyl | 96.3 | | 20-140 | %REC | 1 | 6/6/2014 01:57 AM |
| Surr: 4-Terphenyl-d14 | 168 | | 22-172 | %REC | 1 | 6/6/2014 01:57 AM |
| Surr: Nitrobenzene-d5 | 121 | | 8-140 | %REC | 1 | 6/6/2014 01:57 AM |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8260 | | | Analyst: AK |
| Benzene | 9.9 | | 1.0 | µg/L | 1 | 6/5/2014 12:40 PM |
| Ethylbenzene | 36 | | 1.0 | µg/L | 1 | 6/5/2014 12:40 PM |
| m,p-Xylene | 98 | | 2.0 | µg/L | 1 | 6/5/2014 12:40 PM |
| o-Xylene | 1.3 | | 1.0 | µg/L | 1 | 6/5/2014 12:40 PM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/5/2014 12:40 PM |
| Xylenes, Total | 99 | | 3.0 | µg/L | 1 | 6/5/2014 12:40 PM |
| Surr: 1,2-Dichloroethane-d4 | 92.2 | | 75-120 | %REC | 1 | 6/5/2014 12:40 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-4
Collection Date: 5/29/2014 12:30 PM

Work Order: 14051574
Lab ID: 14051574-04
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|-------------|------|--------------------|-------|-----------------|--------------------|
| Surr: 4-Bromofluorobenzene | 92.5 | | 80-110 | %REC | 1 | 6/5/2014 12:40 PM |
| Surr: Dibromofluoromethane | 96.5 | | 85-115 | %REC | 1 | 6/5/2014 12:40 PM |
| Surr: Toluene-d8 | 104 | | 85-110 | %REC | 1 | 6/5/2014 12:40 PM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 0.62 | | 0.20 | mg/L | 1 | 6/6/2014 03:15 AM |
| Chloride | 87 | | 10 | mg/L | 10 | 6/6/2014 05:17 AM |
| Fluoride | ND | | 0.10 | mg/L | 1 | 6/6/2014 03:15 AM |
| Sulfate | 23 | | 10 | mg/L | 10 | 6/6/2014 05:17 AM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | ND | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-5
Collection Date: 5/29/2014 01:00 PM

Work Order: 14051574
Lab ID: 14051574-05
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|----------------|-------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | ND | | 0.10 | mg/L | 1 | 6/3/2014 09:44 PM |
| Surr: 4-Terphenyl-d14 | 115 | | 31-176 | %REC | 1 | 6/3/2014 09:44 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | ND | | 0.20 | mg/L | 1 | 6/3/2014 10:57 PM |
| Surr: Toluene-d8 | 103 | | 70-130 | %REC | 1 | 6/3/2014 10:57 PM |
| METALS BY ICP-MS (DISSOLVED) | | | | | | |
| | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 61 | | 0.50 | mg/L | 1 | 6/7/2014 05:33 AM |
| Iron | ND | | 0.080 | mg/L | 1 | 6/7/2014 05:33 AM |
| Magnesium | 30 | | 0.20 | mg/L | 1 | 6/7/2014 05:33 AM |
| Manganese | 0.052 | | 0.0050 | mg/L | 1 | 6/7/2014 05:33 AM |
| Potassium | 0.66 | | 0.20 | mg/L | 1 | 6/7/2014 05:33 AM |
| Sodium | 71 | | 0.20 | mg/L | 1 | 6/7/2014 05:33 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Fluorene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Naphthalene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:25 AM |
| Surr: 2-Fluorobiphenyl | 97.9 | | 20-140 | %REC | 1 | 6/6/2014 02:25 AM |
| Surr: 4-Terphenyl-d14 | 168 | | 22-172 | %REC | 1 | 6/6/2014 02:25 AM |
| Surr: Nitrobenzene-d5 | 119 | | 8-140 | %REC | 1 | 6/6/2014 02:25 AM |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8260 | | | Analyst: AK |
| Benzene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:05 AM |
| Ethylbenzene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:05 AM |
| m,p-Xylene | ND | | 2.0 | µg/L | 1 | 6/5/2014 01:05 AM |
| o-Xylene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:05 AM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:05 AM |
| Xylenes, Total | ND | | 3.0 | µg/L | 1 | 6/5/2014 01:05 AM |
| Surr: 1,2-Dichloroethane-d4 | 93.0 | | 75-120 | %REC | 1 | 6/5/2014 01:05 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-5
Collection Date: 5/29/2014 01:00 PM

Work Order: 14051574
Lab ID: 14051574-05
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|-------------|------|--------------------|-------|-----------------|--------------------|
| <i>Surr: 4-Bromofluorobenzene</i> | 100 | | 80-110 | %REC | 1 | 6/5/2014 01:05 AM |
| <i>Surr: Dibromofluoromethane</i> | 98.2 | | 85-115 | %REC | 1 | 6/5/2014 01:05 AM |
| <i>Surr: Toluene-d8</i> | 95.8 | | 85-110 | %REC | 1 | 6/5/2014 01:05 AM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 0.22 | | 0.20 | mg/L | 1 | 6/6/2014 03:35 AM |
| Chloride | 20 | | 10 | mg/L | 10 | 6/6/2014 05:37 AM |
| Fluoride | 0.12 | | 0.10 | mg/L | 1 | 6/6/2014 03:35 AM |
| Sulfate | 110 | | 10 | mg/L | 10 | 6/6/2014 05:37 AM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | ND | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-6
Collection Date: 5/29/2014 11:35 AM

Work Order: 14051574
Lab ID: 14051574-06
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|----------------|-------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | ND | | 0.10 | mg/L | 1 | 6/3/2014 10:44 PM |
| Surr: 4-Terphenyl-d14 | 108 | | 31-176 | %REC | 1 | 6/3/2014 10:44 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | ND | | 0.20 | mg/L | 1 | 6/3/2014 11:23 PM |
| Surr: Toluene-d8 | 115 | | 70-130 | %REC | 1 | 6/3/2014 11:23 PM |
| METALS BY ICP-MS (DISSOLVED) | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 74 | | 0.50 | mg/L | 1 | 6/7/2014 05:40 AM |
| Iron | ND | | 0.080 | mg/L | 1 | 6/7/2014 05:40 AM |
| Magnesium | 35 | | 0.20 | mg/L | 1 | 6/7/2014 05:40 AM |
| Manganese | 0.091 | | 0.0050 | mg/L | 1 | 6/7/2014 05:40 AM |
| Potassium | 0.68 | | 0.20 | mg/L | 1 | 6/7/2014 05:40 AM |
| Sodium | 65 | | 0.20 | mg/L | 1 | 6/7/2014 05:40 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Fluorene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Naphthalene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 02:53 AM |
| Surr: 2-Fluorobiphenyl | 93.0 | | 20-140 | %REC | 1 | 6/6/2014 02:53 AM |
| Surr: 4-Terphenyl-d14 | 157 | | 22-172 | %REC | 1 | 6/6/2014 02:53 AM |
| Surr: Nitrobenzene-d5 | 113 | | 8-140 | %REC | 1 | 6/6/2014 02:53 AM |
| VOLATILE ORGANIC COMPOUNDS | | | SW8260 | | | Analyst: AK |
| Benzene | 1.8 | | 1.0 | µg/L | 1 | 6/5/2014 01:29 AM |
| Ethylbenzene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:29 AM |
| m,p-Xylene | ND | | 2.0 | µg/L | 1 | 6/5/2014 01:29 AM |
| o-Xylene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:29 AM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:29 AM |
| Xylenes, Total | ND | | 3.0 | µg/L | 1 | 6/5/2014 01:29 AM |
| Surr: 1,2-Dichloroethane-d4 | 95.0 | | 75-120 | %REC | 1 | 6/5/2014 01:29 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-6
Collection Date: 5/29/2014 11:35 AM

Work Order: 14051574
Lab ID: 14051574-06
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|-------------|------|--------------------|-------|-----------------|--------------------|
| <i>Surr: 4-Bromofluorobenzene</i> | 97.9 | | 80-110 | %REC | 1 | 6/5/2014 01:29 AM |
| <i>Surr: Dibromofluoromethane</i> | 100 | | 85-115 | %REC | 1 | 6/5/2014 01:29 AM |
| <i>Surr: Toluene-d8</i> | 94.7 | | 85-110 | %REC | 1 | 6/5/2014 01:29 AM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 0.32 | | 0.20 | mg/L | 1 | 6/6/2014 03:56 AM |
| Chloride | 39 | | 10 | mg/L | 10 | 6/6/2014 05:57 AM |
| Fluoride | 0.11 | | 0.10 | mg/L | 1 | 6/6/2014 03:56 AM |
| Sulfate | 63 | | 10 | mg/L | 10 | 6/6/2014 05:57 AM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | 0.24 | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-7
Collection Date: 5/29/2014 12:05 PM

Work Order: 14051574
Lab ID: 14051574-07
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|----------------|-------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | ND | | 0.10 | mg/L | 1 | 6/3/2014 11:14 PM |
| Surr: 4-Terphenyl-d14 | 113 | | 31-176 | %REC | 1 | 6/3/2014 11:14 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | ND | | 0.20 | mg/L | 1 | 6/4/2014 12:11 PM |
| Surr: Toluene-d8 | 106 | | 70-130 | %REC | 1 | 6/4/2014 12:11 PM |
| METALS BY ICP-MS (DISSOLVED) | | | | | | |
| | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 79 | | 0.50 | mg/L | 1 | 6/7/2014 05:46 AM |
| Iron | ND | | 0.080 | mg/L | 1 | 6/7/2014 05:46 AM |
| Magnesium | 39 | | 0.20 | mg/L | 1 | 6/7/2014 05:46 AM |
| Manganese | 0.39 | | 0.0050 | mg/L | 1 | 6/7/2014 05:46 AM |
| Potassium | 0.91 | | 0.20 | mg/L | 1 | 6/7/2014 05:46 AM |
| Sodium | 85 | | 0.20 | mg/L | 1 | 6/7/2014 05:46 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Fluorene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Naphthalene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:21 AM |
| Surr: 2-Fluorobiphenyl | 102 | | 20-140 | %REC | 1 | 6/6/2014 03:21 AM |
| Surr: 4-Terphenyl-d14 | 158 | | 22-172 | %REC | 1 | 6/6/2014 03:21 AM |
| Surr: Nitrobenzene-d5 | 117 | | 8-140 | %REC | 1 | 6/6/2014 03:21 AM |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8260 | | | Analyst: AK |
| Benzene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:54 AM |
| Ethylbenzene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:54 AM |
| m,p-Xylene | ND | | 2.0 | µg/L | 1 | 6/5/2014 01:54 AM |
| o-Xylene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:54 AM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/5/2014 01:54 AM |
| Xylenes, Total | ND | | 3.0 | µg/L | 1 | 6/5/2014 01:54 AM |
| Surr: 1,2-Dichloroethane-d4 | 94.4 | | 75-120 | %REC | 1 | 6/5/2014 01:54 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-7
Collection Date: 5/29/2014 12:05 PM

Work Order: 14051574
Lab ID: 14051574-07
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|--------------|------|--------------------|-------------|-----------------|--------------------|
| <i>Surr: 4-Bromofluorobenzene</i> | 99.1 | | 80-110 | %REC | 1 | 6/5/2014 01:54 AM |
| <i>Surr: Dibromofluoromethane</i> | 99.8 | | 85-115 | %REC | 1 | 6/5/2014 01:54 AM |
| <i>Surr: Toluene-d8</i> | 96.4 | | 85-110 | %REC | 1 | 6/5/2014 01:54 AM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 0.44 | | 0.20 | mg/L | 1 | 6/6/2014 04:16 AM |
| Chloride | 55 | | 10 | mg/L | 10 | 6/6/2014 06:58 AM |
| Fluoride | ND | | 0.10 | mg/L | 1 | 6/6/2014 04:16 AM |
| Sulfate | 41 | | 10 | mg/L | 10 | 6/6/2014 06:58 AM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | 0.025 | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-8
Collection Date: 5/29/2014 01:10 PM

Work Order: 14051574
Lab ID: 14051574-08
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------|------|----------------|-------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | ND | | 0.10 | mg/L | 1 | 6/3/2014 11:44 PM |
| Surr: 4-Terphenyl-d14 | 98.7 | | 31-176 | %REC | 1 | 6/3/2014 11:44 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | 0.44 | | 0.20 | mg/L | 1 | 6/4/2014 12:36 PM |
| Surr: Toluene-d8 | 105 | | 70-130 | %REC | 1 | 6/4/2014 12:36 PM |
| METALS BY ICP-MS (DISSOLVED) | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 72 | | 0.50 | mg/L | 1 | 6/7/2014 07:32 AM |
| Iron | 0.11 | | 0.080 | mg/L | 1 | 6/7/2014 07:32 AM |
| Magnesium | 37 | | 0.20 | mg/L | 1 | 6/7/2014 07:32 AM |
| Manganese | 0.032 | | 0.0050 | mg/L | 1 | 6/7/2014 07:32 AM |
| Potassium | 0.86 | | 0.20 | mg/L | 1 | 6/7/2014 07:32 AM |
| Sodium | 59 | | 0.20 | mg/L | 1 | 6/7/2014 07:32 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Fluorene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Naphthalene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 03:49 AM |
| Surr: 2-Fluorobiphenyl | 95.6 | | 20-140 | %REC | 1 | 6/6/2014 03:49 AM |
| Surr: 4-Terphenyl-d14 | 143 | | 22-172 | %REC | 1 | 6/6/2014 03:49 AM |
| Surr: Nitrobenzene-d5 | 112 | | 8-140 | %REC | 1 | 6/6/2014 03:49 AM |
| VOLATILE ORGANIC COMPOUNDS | | | SW8260 | | | Analyst: AK |
| Benzene | 9.8 | | 1.0 | µg/L | 1 | 6/5/2014 02:18 AM |
| Ethylbenzene | 6.2 | | 1.0 | µg/L | 1 | 6/5/2014 02:18 AM |
| m,p-Xylene | 78 | | 2.0 | µg/L | 1 | 6/5/2014 02:18 AM |
| o-Xylene | 5.0 | | 1.0 | µg/L | 1 | 6/5/2014 02:18 AM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/5/2014 02:18 AM |
| Xylenes, Total | 83 | | 3.0 | µg/L | 1 | 6/5/2014 02:18 AM |
| Surr: 1,2-Dichloroethane-d4 | 95.4 | | 75-120 | %REC | 1 | 6/5/2014 02:18 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-8
Collection Date: 5/29/2014 01:10 PM

Work Order: 14051574
Lab ID: 14051574-08
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|-------------|------|--------------------|-------|-----------------|--------------------|
| <i>Surr: 4-Bromofluorobenzene</i> | 100 | | 80-110 | %REC | 1 | 6/5/2014 02:18 AM |
| <i>Surr: Dibromofluoromethane</i> | 98.8 | | 85-115 | %REC | 1 | 6/5/2014 02:18 AM |
| <i>Surr: Toluene-d8</i> | 95.8 | | 85-110 | %REC | 1 | 6/5/2014 02:18 AM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 0.31 | | 0.20 | mg/L | 1 | 6/6/2014 04:36 AM |
| Chloride | 46 | | 10 | mg/L | 10 | 6/6/2014 12:29 PM |
| Fluoride | 0.13 | | 0.10 | mg/L | 1 | 6/6/2014 04:36 AM |
| Sulfate | 110 | | 10 | mg/L | 10 | 6/6/2014 12:29 PM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | 1.2 | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-9
Collection Date: 5/29/2014 01:15 PM

Work Order: 14051574
Lab ID: 14051574-09
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|------|----------------|-------------|-----------------------|--------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015M | | Prep: SW3511 / 6/3/14 | Analyst: IT |
| DRO (C10-C28) | 1.1 | | 0.10 | mg/L | 1 | 6/4/2014 12:14 PM |
| Surr: 4-Terphenyl-d14 | 118 | | 31-176 | %REC | 1 | 6/4/2014 12:14 PM |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | |
| | | | SW8015 | | | Analyst: IT |
| GRO (C6-C10) | 0.55 | | 0.20 | mg/L | 1 | 6/4/2014 01:02 PM |
| Surr: Toluene-d8 | 121 | | 70-130 | %REC | 1 | 6/4/2014 01:02 PM |
| METALS BY ICP-MS (DISSOLVED) | | | | | | |
| | | | SW6020A | | Prep: FILTER / 6/4/14 | Analyst: RH |
| Calcium | 68 | | 0.50 | mg/L | 1 | 6/7/2014 07:38 AM |
| Iron | ND | | 0.080 | mg/L | 1 | 6/7/2014 07:38 AM |
| Magnesium | 35 | | 0.20 | mg/L | 1 | 6/7/2014 07:38 AM |
| Manganese | 0.056 | | 0.0050 | mg/L | 1 | 6/7/2014 07:38 AM |
| Potassium | 0.80 | | 0.20 | mg/L | 1 | 6/7/2014 07:38 AM |
| Sodium | 59 | | 0.20 | mg/L | 1 | 6/7/2014 07:38 AM |
| SEMI-VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8270 | | Prep: SW3511 / 6/3/14 | Analyst: RM |
| Acenaphthene | ND | | 5.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Anthracene | ND | | 5.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Benzo(a)anthracene | ND | | 1.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Benzo(a)pyrene | ND | | 1.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Benzo(b)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Benzo(k)fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Chrysene | ND | | 1.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Dibenzo(a,h)anthracene | ND | | 2.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Fluoranthene | ND | | 1.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Fluorene | ND | | 5.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Indeno(1,2,3-cd)pyrene | ND | | 2.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Naphthalene | ND | | 5.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Pyrene | ND | | 5.0 | µg/L | 1 | 6/6/2014 04:17 AM |
| Surr: 2-Fluorobiphenyl | 103 | | 20-140 | %REC | 1 | 6/6/2014 04:17 AM |
| Surr: 4-Terphenyl-d14 | 166 | | 22-172 | %REC | 1 | 6/6/2014 04:17 AM |
| Surr: Nitrobenzene-d5 | 129 | | 8-140 | %REC | 1 | 6/6/2014 04:17 AM |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| | | | SW8260 | | | Analyst: AK |
| Benzene | ND | | 1.0 | µg/L | 1 | 6/5/2014 07:08 PM |
| Ethylbenzene | ND | | 1.0 | µg/L | 1 | 6/5/2014 07:08 PM |
| m,p-Xylene | 6.8 | | 2.0 | µg/L | 1 | 6/5/2014 07:08 PM |
| o-Xylene | ND | | 1.0 | µg/L | 1 | 6/5/2014 07:08 PM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/5/2014 07:08 PM |
| Xylenes, Total | 7.6 | | 3.0 | µg/L | 1 | 6/5/2014 07:08 PM |
| Surr: 1,2-Dichloroethane-d4 | 94.8 | | 75-120 | %REC | 1 | 6/5/2014 07:08 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: MW-9
Collection Date: 5/29/2014 01:15 PM

Work Order: 14051574
Lab ID: 14051574-09
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-------------------------------------|--------|------|--------------------|-------|-----------------|--------------------|
| Surr: 4-Bromofluorobenzene | 102 | | 80-110 | %REC | 1 | 6/5/2014 07:08 PM |
| Surr: Dibromofluoromethane | 101 | | 85-115 | %REC | 1 | 6/5/2014 07:08 PM |
| Surr: Toluene-d8 | 104 | | 85-110 | %REC | 1 | 6/5/2014 07:08 PM |
| ANIONS BY ION CHROMATOGRAPHY | | | SW9056 | | | Analyst: ED |
| Bromide | 0.27 | | 0.20 | mg/L | 1 | 6/6/2014 04:56 AM |
| Chloride | 37 | | 10 | mg/L | 10 | 6/6/2014 07:38 AM |
| Fluoride | 0.13 | | 0.10 | mg/L | 1 | 6/6/2014 04:56 AM |
| Sulfate | 100 | | 10 | mg/L | 10 | 6/6/2014 07:38 AM |
| NITROGEN, NITRATE-NITRITE | | | E353.2 R2.0 | | | Analyst: JB |
| Nitrogen, Nitrate-Nitrite | ND | | 0.020 | mg/L | 1 | 6/2/2014 10:15 AM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 09-Jun-14

Client: HRL Compliance Solutions, Inc
Project: WPX TR 31-5-697 Quarterly MW 5.29.14
Sample ID: Trip Blank
Collection Date: 5/29/2014

Work Order: 14051574
Lab ID: 14051574-10
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|-----------------------------------|--------|------|---------------|-------|-----------------|--------------------|
| VOLATILE ORGANIC COMPOUNDS | | | SW8260 | | | Analyst: AK |
| Benzene | ND | | 1.0 | µg/L | 1 | 6/4/2014 07:21 PM |
| Ethylbenzene | ND | | 1.0 | µg/L | 1 | 6/4/2014 07:21 PM |
| m,p-Xylene | ND | | 2.0 | µg/L | 1 | 6/4/2014 07:21 PM |
| o-Xylene | ND | | 1.0 | µg/L | 1 | 6/4/2014 07:21 PM |
| Toluene | ND | | 1.0 | µg/L | 1 | 6/4/2014 07:21 PM |
| Xylenes, Total | ND | | 3.0 | µg/L | 1 | 6/4/2014 07:21 PM |
| Surr: 1,2-Dichloroethane-d4 | 91.9 | | 75-120 | %REC | 1 | 6/4/2014 07:21 PM |
| Surr: 4-Bromofluorobenzene | 98.6 | | 80-110 | %REC | 1 | 6/4/2014 07:21 PM |
| Surr: Dibromofluoromethane | 97.2 | | 85-115 | %REC | 1 | 6/4/2014 07:21 PM |
| Surr: Toluene-d8 | 94.9 | | 85-110 | %REC | 1 | 6/4/2014 07:21 PM |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 14051574

Project: WPX TR 31-5-697 Quarterly MW 5.29.14

Batch ID: 59282

Instrument ID GC8

Method: SW8015M

| MBLK | | | | Sample ID: DBLKW1-59282-59282 | | | | Units: mg/L | | | Analysis Date: 6/3/2014 05:15 PM | | | |
|-----------------------|--|--------|------|-------------------------------|---------------|------|---------------|----------------|------|-----------|----------------------------------|--|-------|--|
| Client ID: | | | | Run ID: GC8_140603B | | | | SeqNo: 2792863 | | | Prep Date: 6/3/2014 | | DF: 1 | |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | |
| DRO (C10-C28) | | ND | 0.10 | | | | | | | | | | | |
| Surr: 4-Terphenyl-d14 | | 0.1204 | 0 | 0.1143 | 0 | 105 | 31-176 | 0 | | | | | | |

| LCS | | | | Sample ID: DLCSW1-59282-59282 | | | | Units: mg/L | | Analysis Date: 6/3/2014 05:45 PM | | |
|-----------------------|--------|------|---------------------|-------------------------------|------|----------------|---------------|---------------------|-----------|----------------------------------|--|--|
| Client ID: | | | Run ID: GC8_140603B | | | SeqNo: 2792864 | | Prep Date: 6/3/2014 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | |
| DRO (C10-C28) | 7.82 | 0.10 | 11.43 | 0 | 68.4 | 35-95 | 0 | | | | | |
| Surr: 4-Terphenyl-d14 | 0.1242 | 0 | 0.1143 | 0 | 109 | 31-176 | 0 | | | | | |

| MS | | | | Sample ID: 14051574-01B MS | | | | Units: mg/L | | Analysis Date: 6/3/2014 06:15 PM | | |
|-----------------------|--------|------|---------------------|----------------------------|------|----------------|---------------|---------------------|-----------|----------------------------------|--|--|
| Client ID: MW-1 | | | Run ID: GC8_140603B | | | SeqNo: 2792865 | | Prep Date: 6/3/2014 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | |
| DRO (C10-C28) | 7.613 | 0.10 | 11.43 | 0 | 66.6 | 29-96 | 0 | | | | | |
| Surr: 4-Terphenyl-d14 | 0.1312 | 0 | 0.1143 | 0 | 115 | 31-176 | 0 | | | | | |

| MSD | | | | Sample ID: 14051574-01B MSD | | | | Units: mg/L | | | Analysis Date: 6/3/2014 06:45 PM | | | |
|-----------------------|--------|------|---------|-----------------------------|------|---------------|---------------|----------------|-----------|------|----------------------------------|--|-------|--|
| Client ID: MW-1 | | | | Run ID: GC8_140603B | | | | SeqNo: 2792866 | | | Prep Date: 6/3/2014 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | | |
| DRO (C10-C28) | 7.48 | 0.10 | 11.43 | 0 | 65.5 | 29-96 | 7.613 | 1.76 | 30 | | | | | |
| Surr: 4-Terphenyl-d14 | 0.1281 | 0 | 0.1143 | 0 | 112 | 31-176 | 0.1312 | 2.4 | 30 | | | | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-01B | 14051574-02B | 14051574-03B |
| 14051574-04B | 14051574-05B | 14051574-06B |
| 14051574-07B | 14051574-08B | 14051574-09B |

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R141948** Instrument ID **GC9** Method: **SW8015**

| | | | | | | | | | | |
|-------------------------|--------|---|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MBLK | | Sample ID: GBLKW1-140603-R141948 | | | | Units: µg/L | | Analysis Date: 6/3/2014 01:04 PM | | |
| Client ID: | | Run ID: GC9_140603A | | | | SeqNo: 2791885 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | ND | 200 | | | | | | | | |
| <i>Surr: Toluene-d8</i> | 109 | 0 | 100 | 0 | 109 | 70-130 | 0 | | | |

| | | | | | | | | | | |
|-------------------------|--------|---|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| LCS | | Sample ID: GLCSW1-140603-R141948 | | | | Units: µg/L | | Analysis Date: 6/3/2014 12:38 PM | | |
| Client ID: | | Run ID: GC9_140603A | | | | SeqNo: 2791884 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 9295 | 200 | 10000 | 0 | 92.9 | 70-130 | 0 | | | |
| <i>Surr: Toluene-d8</i> | 114.1 | 0 | 100 | 0 | 114 | 70-130 | 0 | | | |

| | | | | | | | | | | |
|-------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MS | | Sample ID: 14051541-13A MS | | | | Units: µg/L | | Analysis Date: 6/4/2014 01:30 AM | | |
| Client ID: | | Run ID: GC9_140603A | | | | SeqNo: 2792894 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 8060 | 200 | 10000 | 0 | 80.6 | 70-130 | 0 | | | |
| <i>Surr: Toluene-d8</i> | 114.9 | 0 | 100 | 0 | 115 | 70-130 | 0 | | | |

| | | | | | | | | | | |
|-------------------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MSD | | Sample ID: 14051541-13A MSD | | | | Units: µg/L | | Analysis Date: 6/4/2014 01:56 AM | | |
| Client ID: | | Run ID: GC9_140603A | | | | SeqNo: 2792895 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 8023 | 200 | 10000 | 0 | 80.2 | 70-130 | 8060 | 0.461 | 30 | |
| <i>Surr: Toluene-d8</i> | 103.8 | 0 | 100 | 0 | 104 | 70-130 | 114.9 | 10.1 | 30 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-01A | 14051574-02A | 14051574-03A |
| 14051574-04A | 14051574-05A | 14051574-06A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142020** Instrument ID **GC9** Method: **SW8015**

| | | | | | | | | | | |
|-------------------------|--------|---|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MBLK | | Sample ID: GBLKW1-140604-R142020 | | | | Units: µg/L | | Analysis Date: 6/4/2014 11:20 AM | | |
| Client ID: | | Run ID: GC9_140604A | | | | SeqNo: 2793533 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | ND | 200 | | | | | | | | |
| <i>Surr: Toluene-d8</i> | 94.36 | 0 | 100 | 0 | 94.4 | 70-130 | 0 | | | |

| | | | | | | | | | | |
|-------------------------|--------|---|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| LCS | | Sample ID: GLCSW1-140604-R142020 | | | | Units: µg/L | | Analysis Date: 6/4/2014 10:54 AM | | |
| Client ID: | | Run ID: GC9_140604A | | | | SeqNo: 2793532 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 9386 | 200 | 10000 | 0 | 93.9 | 70-130 | 0 | | | |
| <i>Surr: Toluene-d8</i> | 112.6 | 0 | 100 | 0 | 113 | 70-130 | 0 | | | |

| | | | | | | | | | | |
|-------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MS | | Sample ID: 14051574-07A MS | | | | Units: µg/L | | Analysis Date: 6/4/2014 02:19 PM | | |
| Client ID: MW-7 | | Run ID: GC9_140604A | | | | SeqNo: 2793760 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 9902 | 200 | 10000 | 0 | 99 | 70-130 | 0 | | | |
| <i>Surr: Toluene-d8</i> | 121.4 | 0 | 100 | 0 | 121 | 70-130 | 0 | | | |

| | | | | | | | | | | |
|-------------------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MSD | | Sample ID: 14051574-07A MSD | | | | Units: µg/L | | Analysis Date: 6/4/2014 02:45 PM | | |
| Client ID: MW-7 | | Run ID: GC9_140604A | | | | SeqNo: 2793761 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 9607 | 200 | 10000 | 0 | 96.1 | 70-130 | 9902 | 3.03 | 30 | |
| <i>Surr: Toluene-d8</i> | 121.1 | 0 | 100 | 0 | 121 | 70-130 | 121.4 | 0.239 | 30 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-07A | 14051574-08A | 14051574-09A |
|--------------|--------------|--------------|

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **59317** Instrument ID **ICPMS2** Method: **SW6020A** (**Dissolve**)

| MBLK | | Sample ID: MBLK-59317-59317 | | | | Units: mg/L | | Analysis Date: 6/6/2014 11:48 PM | | |
|-------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: ICPMS2_140606A | | | | SeqNo: 2797942 | | Prep Date: 6/4/2014 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | ND | 0.50 | | | | | | | | |
| Iron | ND | 0.080 | | | | | | | | |
| Magnesium | ND | 0.20 | | | | | | | | |
| Manganese | ND | 0.0050 | | | | | | | | |
| Potassium | ND | 0.20 | | | | | | | | |
| Sodium | ND | 0.20 | | | | | | | | |

| MBLK | | Sample ID: MBLK-59317-59317 | | | | Units: mg/L | | Analysis Date: 6/6/2014 11:48 PM | | |
|-------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: ICPMS2_140606A | | | | SeqNo: 2797944 | | Prep Date: 6/4/2014 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Iron | ND | 0.080 | | | | | | | | |

| LCS | | Sample ID: LCS-59317-59317 | | | | Units: mg/L | | Analysis Date: 6/6/2014 11:54 PM | | |
|------------|---------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: ICPMS2_140606A | | | | SeqNo: 2797943 | | Prep Date: 6/4/2014 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 9.2 | 0.50 | 10 | 0 | 92 | 80-120 | 0 | | | |
| Iron | 9.425 | 0.080 | 10 | 0 | 94.2 | 80-120 | 0 | | | |
| Magnesium | 9.397 | 0.20 | 10 | 0 | 94 | 80-120 | 0 | | | |
| Manganese | 0.09129 | 0.0050 | 0.1 | 0 | 91.3 | 80-120 | 0 | | | |
| Potassium | 9.185 | 0.20 | 10 | 0 | 91.8 | 80-120 | 0 | | | |
| Sodium | 9.234 | 0.20 | 10 | 0 | 92.3 | 80-120 | 0 | | | |

| LCS | | Sample ID: LCS-59317-59317 | | | | Units: mg/L | | Analysis Date: 6/6/2014 11:54 PM | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: ICPMS2_140606A | | | | SeqNo: 2797945 | | Prep Date: 6/4/2014 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Iron | 9.425 | 0.080 | 10 | 0 | 94.2 | 85-115 | 0 | | | |

| MS | | Sample ID: 14051541-13BMS | | | | Units: mg/L | | Analysis Date: 6/7/2014 12:07 AM | | |
|------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: ICPMS2_140606A | | | | SeqNo: 2797947 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 116.2 | 0.50 | 10 | 107.2 | 90 | 75-125 | 0 | | | O |
| Iron | 9.42 | 0.080 | 10 | 0.04092 | 93.8 | 75-125 | 0 | | | |
| Magnesium | 85.48 | 0.20 | 10 | 76.41 | 90.7 | 75-125 | 0 | | | O |
| Manganese | 0.1207 | 0.0050 | 0.1 | 0.02429 | 96.4 | 75-125 | 0 | | | |
| Potassium | 12.35 | 0.20 | 10 | 2.724 | 96.3 | 75-125 | 0 | | | |
| Sodium | 157.9 | 0.20 | 10 | 148.5 | 94 | 75-125 | 0 | | | O |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **59317** Instrument ID **ICPMS2** Method: **SW6020A (Dissolve)**

| | | | | | | | | | | |
|------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MS | | Sample ID: 14051543-01AMS | | | | Units: mg/L | | Analysis Date: 6/7/2014 02:58 AM | | |
| Client ID: | | Run ID: ICPMS2_140606A | | | | SeqNo: 2797972 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Iron | 9.622 | 0.080 | 10 | 0.0398 | 95.8 | 70-130 | 0 | | | |

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MSD | | Sample ID: 14051541-13BMSD | | | | Units: mg/L | | Analysis Date: 6/7/2014 12:13 AM | | |
| Client ID: | | Run ID: ICPMS2_140606A | | | | SeqNo: 2797948 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 114.5 | 0.50 | 10 | 107.2 | 73 | 75-125 | 116.2 | 1.47 | 20 | SO |
| Iron | 9.601 | 0.080 | 10 | 0.04092 | 95.6 | 75-125 | 9.42 | 1.9 | 20 | |
| Magnesium | 83.95 | 0.20 | 10 | 76.41 | 75.4 | 75-125 | 85.48 | 1.81 | 20 | O |
| Manganese | 0.1199 | 0.0050 | 0.1 | 0.02429 | 95.6 | 75-125 | 0.1207 | 0.665 | 20 | |
| Potassium | 12.28 | 0.20 | 10 | 2.724 | 95.6 | 75-125 | 12.35 | 0.568 | 20 | |
| Sodium | 154.9 | 0.20 | 10 | 148.5 | 64 | 75-125 | 157.9 | 1.92 | 20 | SO |

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MSD | | Sample ID: 14051543-01AMSD | | | | Units: mg/L | | Analysis Date: 6/7/2014 04:50 AM | | |
| Client ID: | | Run ID: ICPMS2_140606A | | | | SeqNo: 2797988 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Iron | 9.934 | 0.080 | 10 | 0.0398 | 98.9 | 70-130 | 9.622 | 3.19 | 20 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-01C | 14051574-02C | 14051574-03C |
| 14051574-04C | 14051574-05C | 14051574-06C |
| 14051574-07C | 14051574-08C | 14051574-09C |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **59283** Instrument ID **SVMS7** Method: **SW8270**

| MBLK | | | | Sample ID: SBLKW1-59283-59283 | | | Units: µg/L | | Analysis Date: 6/5/2014 09:16 PM | | |
|------------------------|--------|-----|-----------------------|-------------------------------|------|----------------|---------------|---------------------|----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS7_140605A | | | SeqNo: 2796614 | | Prep Date: 6/3/2014 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Acenaphthene | ND | 5.0 | | | | | | | | | |
| Anthracene | ND | 5.0 | | | | | | | | | |
| Benzo(a)anthracene | ND | 5.0 | | | | | | | | | |
| Benzo(a)pyrene | ND | 5.0 | | | | | | | | | |
| Benzo(b)fluoranthene | ND | 5.0 | | | | | | | | | |
| Benzo(k)fluoranthene | ND | 5.0 | | | | | | | | | |
| Chrysene | ND | 5.0 | | | | | | | | | |
| Dibenzo(a,h)anthracene | ND | 5.0 | | | | | | | | | |
| Fluoranthene | ND | 5.0 | | | | | | | | | |
| Fluorene | ND | 5.0 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 5.0 | | | | | | | | | |
| Naphthalene | ND | 5.0 | | | | | | | | | |
| Pyrene | ND | 5.0 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 106.5 | 0 | 114 | 0 | 93.4 | 20-140 | | 0 | | | |
| Surr: 4-Terphenyl-d14 | 174.9 | 0 | 114 | 0 | 153 | 22-172 | | 0 | | | |
| Surr: Nitrobenzene-d5 | 132.8 | 0 | 114 | 0 | 117 | 8-140 | | 0 | | | |

| LCS | | | | Sample ID: SLCSW1-59283-59283 | | | Units: µg/L | | Analysis Date: 6/5/2014 09:45 PM | | |
|-------------------------------|--------------|------------------------------|------------|--------------------------------------|-----------------------|---------------|----------------------------|----------|---|------|--|
| Client ID: | | Run ID: SVMS7_140605A | | | SeqNo: 2796615 | | Prep Date: 6/3/2014 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Acenaphthene | 46.47 | 5.0 | 45.7 | 0 | 102 | 60-140 | | 0 | | | |
| Anthracene | 50.03 | 5.0 | 45.7 | 0 | 109 | 60-140 | | 0 | | | |
| Benzo(a)anthracene | 51.02 | 5.0 | 45.7 | 0 | 112 | 60-140 | | 0 | | | |
| Benzo(a)pyrene | 53.26 | 5.0 | 45.7 | 0 | 117 | 60-140 | | 0 | | | |
| Benzo(b)fluoranthene | 52.75 | 5.0 | 45.7 | 0 | 115 | 60-140 | | 0 | | | |
| Benzo(k)fluoranthene | 50.35 | 5.0 | 45.7 | 0 | 110 | 60-140 | | 0 | | | |
| Chrysene | 51.31 | 5.0 | 45.7 | 0 | 112 | 60-140 | | 0 | | | |
| Dibenzo(a,h)anthracene | 49.19 | 5.0 | 45.7 | 0 | 108 | 60-140 | | 0 | | | |
| Fluoranthene | 51.86 | 5.0 | 45.7 | 0 | 113 | 60-140 | | 0 | | | |
| Fluorene | 48.5 | 5.0 | 45.7 | 0 | 106 | 60-140 | | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 52.73 | 5.0 | 45.7 | 0 | 115 | 60-140 | | 0 | | | |
| Naphthalene | 40.11 | 5.0 | 45.7 | 0 | 87.8 | 40-140 | | 0 | | | |
| Pyrene | 58.7 | 5.0 | 45.7 | 0 | 128 | 60-140 | | 0 | | | |
| <i>Surr: 2-Fluorobiphenyl</i> | <i>119</i> | <i>0</i> | <i>114</i> | <i>0</i> | <i>104</i> | <i>20-140</i> | | <i>0</i> | | | |
| <i>Surr: 4-Terphenyl-d14</i> | <i>177.6</i> | <i>0</i> | <i>114</i> | <i>0</i> | <i>156</i> | <i>22-172</i> | | <i>0</i> | | | |
| <i>Surr: Nitrobenzene-d5</i> | <i>129.1</i> | <i>0</i> | <i>114</i> | <i>0</i> | <i>113</i> | <i>8-140</i> | | <i>0</i> | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **59283** Instrument ID **SVMS7** Method: **SW8270**

| MS | | | | Sample ID: 14051067-28A MS | | | Units: µg/L | | Analysis Date: 6/5/2014 10:13 PM | | |
|------------------------|--------|-----|-----------------------|----------------------------|------|----------------|---------------|---------------------|----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS7_140605A | | | SeqNo: 2796616 | | Prep Date: 6/3/2014 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Acenaphthene | 56.69 | 5.0 | 45.7 | 0 | 124 | 60-140 | 0 | | | | |
| Anthracene | 56.23 | 5.0 | 45.7 | 0 | 123 | 60-140 | 0 | | | | |
| Benzo(a)anthracene | 56.73 | 5.0 | 45.7 | 0 | 124 | 60-140 | 0 | | | | |
| Benzo(a)pyrene | 59.11 | 5.0 | 45.7 | 0 | 129 | 60-140 | 0 | | | | |
| Benzo(b)fluoranthene | 56.09 | 5.0 | 45.7 | 0 | 123 | 60-140 | 0 | | | | |
| Benzo(k)fluoranthene | 59.02 | 5.0 | 45.7 | 0 | 129 | 60-140 | 0 | | | | |
| Chrysene | 56.69 | 5.0 | 45.7 | 0 | 124 | 60-140 | 0 | | | | |
| Dibenzo(a,h)anthracene | 59.02 | 5.0 | 45.7 | 0 | 129 | 60-140 | 0 | | | | |
| Fluoranthene | 58.61 | 5.0 | 45.7 | 0 | 128 | 60-140 | 0 | | | | |
| Fluorene | 58.03 | 5.0 | 45.7 | 0 | 127 | 60-140 | 0 | | | | |
| Indeno(1,2,3-cd)pyrene | 61.17 | 5.0 | 45.7 | 0 | 134 | 60-140 | 0 | | | | |
| Naphthalene | 41.19 | 5.0 | 45.7 | 0 | 90.1 | 40-140 | 0 | | | | |
| Pyrene | 58.74 | 5.0 | 45.7 | 0 | 129 | 60-140 | 0 | | | | |
| Surr: 2-Fluorobiphenyl | 132.6 | 0 | 114 | 0 | 116 | 20-140 | 0 | | | | |
| Surr: 4-Terphenyl-d14 | 186.4 | 0 | 114 | 0 | 164 | 22-172 | 0 | | | | |
| Surr: Nitrobenzene-d5 | 147.3 | 0 | 114 | 0 | 129 | 8-140 | 0 | | | | |

| MSD | | | | Sample ID: 14051067-28A MSD | | | | Units: µg/L | | Analysis Date: 6/5/2014 10:41 PM | |
|------------------------|--------|-----|-----------------------|-----------------------------|------|----------------|---------------|---------------------|-----------|----------------------------------|--|
| Client ID: | | | Run ID: SVMS7_140605A | | | SeqNo: 2796617 | | Prep Date: 6/3/2014 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Acenaphthene | 50.63 | 5.0 | 45.7 | 0 | 111 | 60-140 | 56.69 | 11.3 | 30 | | |
| Anthracene | 52.16 | 5.0 | 45.7 | 0 | 114 | 60-140 | 56.23 | 7.51 | 30 | | |
| Benzo(a)anthracene | 53.33 | 5.0 | 45.7 | 0 | 117 | 60-140 | 56.73 | 6.19 | 30 | | |
| Benzo(a)pyrene | 55.95 | 5.0 | 45.7 | 0 | 122 | 60-140 | 59.11 | 5.48 | 30 | | |
| Benzo(b)fluoranthene | 53.53 | 5.0 | 45.7 | 0 | 117 | 60-140 | 56.09 | 4.67 | 30 | | |
| Benzo(k)fluoranthene | 54.17 | 5.0 | 45.7 | 0 | 119 | 60-140 | 59.02 | 8.56 | 30 | | |
| Chrysene | 54.08 | 5.0 | 45.7 | 0 | 118 | 60-140 | 56.69 | 4.7 | 30 | | |
| Dibenzo(a,h)anthracene | 55.15 | 5.0 | 45.7 | 0 | 121 | 60-140 | 59.02 | 6.77 | 30 | | |
| Fluoranthene | 53.62 | 5.0 | 45.7 | 0 | 117 | 60-140 | 58.61 | 8.88 | 30 | | |
| Fluorene | 53.44 | 5.0 | 45.7 | 0 | 117 | 60-140 | 58.03 | 8.24 | 30 | | |
| Indeno(1,2,3-cd)pyrene | 57.78 | 5.0 | 45.7 | 0 | 126 | 60-140 | 61.17 | 5.69 | 30 | | |
| Naphthalene | 39.79 | 5.0 | 45.7 | 0 | 87.1 | 40-140 | 41.19 | 3.44 | 30 | | |
| Pyrene | 54.99 | 5.0 | 45.7 | 0 | 120 | 60-140 | 58.74 | 6.59 | 30 | | |
| Surr: 2-Fluorobiphenyl | 121.9 | 0 | 114 | 0 | 107 | 20-140 | 132.6 | 8.41 | 30 | | |
| Surr: 4-Terphenyl-d14 | 170.6 | 0 | 114 | 0 | 150 | 22-172 | 186.4 | 8.85 | 30 | | |
| Surr: Nitrobenzene-d5 | 134 | 0 | 114 | 0 | 118 | 8-140 | 147.3 | 9.43 | 30 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **59283** Instrument ID **SVMS7** Method: **SW8270**

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-01B | 14051574-02B | 14051574-03B |
| 14051574-04B | 14051574-05B | 14051574-06B |
| 14051574-07B | 14051574-08B | 14051574-09B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142058** Instrument ID **VMS8** Method: **SW8260**

| MBLK | | | | Sample ID: VBLKW1-140604-R142058 | | | | Units: µg/L | | | Analysis Date: 6/4/2014 06:56 PM | | |
|-----------------------------|--------|-----|----------------------|----------------------------------|------|---------------|----------------|-------------|-----------|------------|----------------------------------|-------|--|
| Client ID: | | | Run ID: VMS8_140604A | | | | SeqNo: 2794340 | | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | |
| Benzene | ND | 1.0 | | | | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | | | | |
| m,p-Xylene | ND | 2.0 | | | | | | | | | | | |
| o-Xylene | ND | 1.0 | | | | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | | | | |
| Xylenes, Total | ND | 3.0 | | | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 18.5 | 0 | 20 | 0 | 92.5 | 75-120 | | 0 | | | | | |
| Surr: 4-Bromofluorobenzene | 20.09 | 0 | 20 | 0 | 100 | 80-110 | | 0 | | | | | |
| Surr: Dibromofluoromethane | 19.16 | 0 | 20 | 0 | 95.8 | 85-115 | | 0 | | | | | |
| Surr: Toluene-d8 | 19.31 | 0 | 20 | 0 | 96.6 | 85-110 | | 0 | | | | | |

| LCS | | | | Sample ID: VLCSW1-140604-R142058 | | | Units: µg/L | | Analysis Date: 6/4/2014 05:43 PM | | |
|------------------------------------|--------------|----------|-----------------------------|---|-------------|-----------------------|--------------------|------------|---|--------------|--|
| Client ID: | | | Run ID: VMS8_140604A | | | SeqNo: 2794339 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | 21.7 | 1.0 | 20 | 0 | 108 | 85-125 | 0 | | | | |
| Ethylbenzene | 22.45 | 1.0 | 20 | 0 | 112 | 85-125 | 0 | | | | |
| m,p-Xylene | 44.37 | 2.0 | 40 | 0 | 111 | 75-130 | 0 | | | | |
| o-Xylene | 21.97 | 1.0 | 20 | 0 | 110 | 80-125 | 0 | | | | |
| Toluene | 21.36 | 1.0 | 20 | 0 | 107 | 85-125 | 0 | | | | |
| Xylenes, Total | 66.34 | 3.0 | 60 | 0 | 111 | 80-126 | 0 | | | | |
| <i>Surr: 1,2-Dichloroethane-d4</i> | <i>19.15</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>95.8</i> | <i>75-120</i> | <i>0</i> | | | | |
| <i>Surr: 4-Bromofluorobenzene</i> | <i>20.06</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>100</i> | <i>80-110</i> | <i>0</i> | | | | |
| <i>Surr: Dibromofluoromethane</i> | <i>20.21</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>101</i> | <i>85-115</i> | <i>0</i> | | | | |
| <i>Surr: Toluene-d8</i> | <i>19.04</i> | <i>0</i> | <i>20</i> | <i>0</i> | <i>95.2</i> | <i>85-110</i> | <i>0</i> | | | | |

| MS | | | | Sample ID: 14051541-04A MS | | | | Units: µg/L | | Analysis Date: 6/5/2014 03:31 AM | |
|-----------------------------|--------|-----|----------------------|----------------------------|------|----------------|---------------|-------------|-----------|----------------------------------|--|
| Client ID: | | | Run ID: VMS8_140604A | | | SeqNo: 2794374 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | 20.48 | 1.0 | 20 | 0 | 102 | 85-125 | 0 | | | | |
| Ethylbenzene | 20.37 | 1.0 | 20 | 0 | 102 | 85-125 | 0 | | | | |
| m,p-Xylene | 39.63 | 2.0 | 40 | 0 | 99.1 | 75-130 | 0 | | | | |
| o-Xylene | 19.33 | 1.0 | 20 | 0 | 96.6 | 80-125 | 0 | | | | |
| Toluene | 20.15 | 1.0 | 20 | 0 | 101 | 85-125 | 0 | | | | |
| Xylenes, Total | 58.96 | 3.0 | 60 | 0 | 98.3 | 80-126 | 0 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 18.98 | 0 | 20 | 0 | 94.9 | 75-120 | 0 | | | | |
| Surr: 4-Bromofluorobenzene | 20.17 | 0 | 20 | 0 | 101 | 80-110 | 0 | | | | |
| Surr: Dibromofluoromethane | 20.16 | 0 | 20 | 0 | 101 | 85-115 | 0 | | | | |
| Surr: Toluene-d8 | 19.15 | 0 | 20 | 0 | 95.8 | 85-110 | 0 | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142058** Instrument ID **VMS8** Method: **SW8260**

| MSD | | | | Sample ID: 14051541-04A MSD | | | Units: µg/L | | Analysis Date: 6/5/2014 03:56 AM | | |
|-----------------------------|--------|-----|----------------------|-----------------------------|----------------|---------------|---------------|--------|----------------------------------|------|--|
| Client ID: | | | Run ID: VMS8_140604A | | SeqNo: 2794377 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | 20.34 | 1.0 | 20 | 0 | 102 | 85-125 | 20.48 | 0.686 | 30 | | |
| Ethylbenzene | 20.09 | 1.0 | 20 | 0 | 100 | 85-125 | 20.37 | 1.38 | 30 | | |
| m,p-Xylene | 38.77 | 2.0 | 40 | 0 | 96.9 | 75-130 | 39.63 | 2.19 | 30 | | |
| o-Xylene | 19.21 | 1.0 | 20 | 0 | 96 | 80-125 | 19.33 | 0.623 | 30 | | |
| Toluene | 19.8 | 1.0 | 20 | 0 | 99 | 85-125 | 20.15 | 1.75 | 30 | | |
| Xylenes, Total | 57.98 | 3.0 | 60 | 0 | 96.6 | 80-126 | 58.96 | 1.68 | 30 | | |
| Surr: 1,2-Dichloroethane-d4 | 18.75 | 0 | 20 | 0 | 93.8 | 75-120 | 18.98 | 1.22 | 30 | | |
| Surr: 4-Bromofluorobenzene | 20.18 | 0 | 20 | 0 | 101 | 80-110 | 20.17 | 0.0496 | 30 | | |
| Surr: Dibromofluoromethane | 20.22 | 0 | 20 | 0 | 101 | 85-115 | 20.16 | 0.297 | 30 | | |
| Surr: Toluene-d8 | 18.92 | 0 | 20 | 0 | 94.6 | 85-110 | 19.15 | 1.21 | 30 | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-01A | 14051574-02A | 14051574-03A |
| 14051574-04A | 14051574-05A | 14051574-06A |
| 14051574-07A | 14051574-08A | 14051574-09A |
| 14051574-10A | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142081** Instrument ID **VMS8** Method: **SW8260**

| MBLK | | Sample ID: VLKW1-140605-R142081 | | | | Units: µg/L | | Analysis Date: 6/5/2014 12:28 PM | | |
|-----------------------------|--------|--|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: VMS8_140605A | | | | SeqNo: 2795555 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| m,p-Xylene | ND | 2.0 | | | | | | | | |
| o-Xylene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 3.0 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 18.83 | 0 | 20 | 0 | 94.2 | 75-120 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 19.64 | 0 | 20 | 0 | 98.2 | 80-110 | 0 | | | |
| Surr: Dibromofluoromethane | 19.38 | 0 | 20 | 0 | 96.9 | 85-115 | 0 | | | |
| Surr: Toluene-d8 | 18.85 | 0 | 20 | 0 | 94.2 | 85-110 | 0 | | | |

| LCS | | Sample ID: VLCSW1-140605-R142081 | | | | Units: µg/L | | Analysis Date: 6/5/2014 10:50 AM | | |
|-----------------------------|--------|---|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: VMS8_140605A | | | | SeqNo: 2795554 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | 20.21 | 1.0 | 20 | 0 | 101 | 85-125 | 0 | | | |
| Ethylbenzene | 21.07 | 1.0 | 20 | 0 | 105 | 85-125 | 0 | | | |
| m,p-Xylene | 41.06 | 2.0 | 40 | 0 | 103 | 75-130 | 0 | | | |
| o-Xylene | 20.38 | 1.0 | 20 | 0 | 102 | 80-125 | 0 | | | |
| Toluene | 20.43 | 1.0 | 20 | 0 | 102 | 85-125 | 0 | | | |
| Xylenes, Total | 61.44 | 3.0 | 60 | 0 | 102 | 80-126 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 18.33 | 0 | 20 | 0 | 91.6 | 75-120 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 20.02 | 0 | 20 | 0 | 100 | 80-110 | 0 | | | |
| Surr: Dibromofluoromethane | 19.9 | 0 | 20 | 0 | 99.5 | 85-115 | 0 | | | |
| Surr: Toluene-d8 | 19.13 | 0 | 20 | 0 | 95.6 | 85-110 | 0 | | | |

| MS | | Sample ID: 1406149-01A MS | | | | Units: µg/L | | Analysis Date: 6/5/2014 08:46 PM | | |
|-----------------------------|--------|----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: VMS8_140605A | | | | SeqNo: 2795572 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | 21.14 | 1.0 | 20 | 0 | 106 | 85-125 | 0 | | | |
| Ethylbenzene | 21.7 | 1.0 | 20 | 0 | 108 | 85-125 | 0 | | | |
| m,p-Xylene | 46.06 | 2.0 | 40 | 0 | 115 | 75-130 | 0 | | | |
| o-Xylene | 20.97 | 1.0 | 20 | 0 | 105 | 80-125 | 0 | | | |
| Toluene | 20.53 | 1.0 | 20 | 0 | 103 | 85-125 | 0 | | | |
| Xylenes, Total | 67.03 | 3.0 | 60 | 0 | 112 | 80-126 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 18.87 | 0 | 20 | 0 | 94.4 | 75-120 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 19.8 | 0 | 20 | 0 | 99 | 80-110 | 0 | | | |
| Surr: Dibromofluoromethane | 19.83 | 0 | 20 | 0 | 99.2 | 85-115 | 0 | | | |
| Surr: Toluene-d8 | 18.85 | 0 | 20 | 0 | 94.2 | 85-110 | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142081** Instrument ID **VMS8** Method: **SW8260**

| MSD | | | | Sample ID: 1406149-01A MSD | | | | Units: µg/L | | | Analysis Date: 6/5/2014 09:10 PM | | | |
|-----------------------------|--------|-----|---------|----------------------------|------|---------------|---------------|----------------|-----------|------|----------------------------------|--|-------|--|
| Client ID: | | | | Run ID: VMS8_140605A | | | | SeqNo: 2795573 | | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | | |
| Benzene | 21.15 | 1.0 | 20 | 0 | 106 | 85-125 | 21.14 | 0.0473 | 30 | | | | | |
| Ethylbenzene | 21.69 | 1.0 | 20 | 0 | 108 | 85-125 | 21.7 | 0.0461 | 30 | | | | | |
| m,p-Xylene | 43.46 | 2.0 | 40 | 0 | 109 | 75-130 | 46.06 | 5.81 | 30 | | | | | |
| o-Xylene | 20.89 | 1.0 | 20 | 0 | 104 | 80-125 | 20.97 | 0.382 | 30 | | | | | |
| Toluene | 20.83 | 1.0 | 20 | 0 | 104 | 85-125 | 20.53 | 1.45 | 30 | | | | | |
| Xylenes, Total | 64.35 | 3.0 | 60 | 0 | 107 | 80-126 | 67.03 | 4.08 | 30 | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 18.77 | 0 | 20 | 0 | 93.8 | 75-120 | 18.87 | 0.531 | 30 | | | | | |
| Surr: 4-Bromofluorobenzene | 20.39 | 0 | 20 | 0 | 102 | 80-110 | 19.8 | 2.94 | 30 | | | | | |
| Surr: Dibromofluoromethane | 19.7 | 0 | 20 | 0 | 98.5 | 85-115 | 19.83 | 0.658 | 30 | | | | | |
| Surr: Toluene-d8 | 18.8 | 0 | 20 | 0 | 94 | 85-110 | 18.85 | 0.266 | 30 | | | | | |

The following samples were analyzed in this batch:

14051574-02A

14051574-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142179A** Instrument ID **VMS5** Method: **SW8260**

| MBLK | | | | Sample ID: VBLKW1-140606-R142179A | | | | Units: µg/L | | Analysis Date: 6/6/2014 02:35 PM | |
|-----------------------------|--------|-----|----------------------|-----------------------------------|------|----------------|---------------|-------------|-----------|----------------------------------|--|
| Client ID: | | | Run ID: VMS5_140606A | | | SeqNo: 2798095 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | ND | 1.0 | | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | | |
| o-Xylene | ND | 1.0 | | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 20.4 | 0 | 20 | 0 | 102 | 75-120 | | 0 | | | |
| Surr: 4-Bromofluorobenzene | 19.39 | 0 | 20 | 0 | 97 | 80-110 | | 0 | | | |
| Surr: Dibromofluoromethane | 19.48 | 0 | 20 | 0 | 97.4 | 85-115 | | 0 | | | |
| Surr: Toluene-d8 | 19.26 | 0 | 20 | 0 | 96.3 | 85-110 | | 0 | | | |

| LCS | | | | Sample ID: VLCSW1-140606-R142179A | | | | Units: µg/L | | | Analysis Date: 6/6/2014 01:17 PM | | | |
|-----------------------------|--------|-----|---------|-----------------------------------|------|---------------|---------------|----------------|-----------|------|----------------------------------|--|-------|--|
| Client ID: | | | | Run ID: VMS5_140606A | | | | SeqNo: 2798094 | | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | | |
| Benzene | 20.99 | 1.0 | 20 | 0 | 105 | 85-125 | 0 | | | | | | | |
| Ethylbenzene | 21.3 | 1.0 | 20 | 0 | 106 | 85-125 | 0 | | | | | | | |
| o-Xylene | 21.2 | 1.0 | 20 | 0 | 106 | 80-125 | 0 | | | | | | | |
| Toluene | 21.15 | 1.0 | 20 | 0 | 106 | 85-125 | 0 | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 20.09 | 0 | 20 | 0 | 100 | 75-120 | 0 | | | | | | | |
| Surr: 4-Bromofluorobenzene | 19.55 | 0 | 20 | 0 | 97.8 | 80-110 | 0 | | | | | | | |
| Surr: Dibromofluoromethane | 19.64 | 0 | 20 | 0 | 98.2 | 85-115 | 0 | | | | | | | |
| Surr: Toluene-d8 | 19.44 | 0 | 20 | 0 | 97.2 | 85-110 | 0 | | | | | | | |

| MS | | | | Sample ID: 14051615-01A MS | | | | Units: µg/L | | Analysis Date: 6/7/2014 12:12 PM | |
|-----------------------------|--------|-----|----------------------|----------------------------|------|----------------|---------------|-------------|-----------|----------------------------------|--|
| Client ID: | | | Run ID: VMS5_140606A | | | SeqNo: 2798109 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | 21.6 | 1.0 | 20 | 0 | 108 | 85-125 | 0 | | | | |
| Ethylbenzene | 22.5 | 1.0 | 20 | 0 | 112 | 85-125 | 0 | | | | |
| o-Xylene | 22.22 | 1.0 | 20 | 0 | 111 | 80-125 | 0 | | | | |
| Toluene | 22.47 | 1.0 | 20 | 0.4 | 110 | 85-125 | 0 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 20.12 | 0 | 20 | 0 | 101 | 75-120 | 0 | | | | |
| Surr: 4-Bromofluorobenzene | 19.47 | 0 | 20 | 0 | 97.4 | 80-110 | 0 | | | | |
| Surr: Dibromofluoromethane | 19.29 | 0 | 20 | 0 | 96.4 | 85-115 | 0 | | | | |
| Surr: Toluene-d8 | 19.14 | 0 | 20 | 0 | 95.7 | 85-110 | 0 | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142179A** Instrument ID **VMS5** Method: **SW8260**

| MSD | | | | Sample ID: 14051615-01A MSD | | | | Units: µg/L | | Analysis Date: 6/7/2014 12:38 PM | |
|-----------------------------|--------|-----|----------------------|-----------------------------|------|----------------|---------------|-------------|-----------|----------------------------------|--|
| Client ID: | | | Run ID: VMS5_140606A | | | SeqNo: 2798110 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Benzene | 21.03 | 1.0 | 20 | 0 | 105 | 85-125 | 21.6 | 2.67 | 30 | | |
| Ethylbenzene | 22.53 | 1.0 | 20 | 0 | 113 | 85-125 | 22.5 | 0.133 | 30 | | |
| o-Xylene | 22.43 | 1.0 | 20 | 0 | 112 | 80-125 | 22.22 | 0.941 | 30 | | |
| Toluene | 21.83 | 1.0 | 20 | 0.4 | 107 | 85-125 | 22.47 | 2.89 | 30 | | |
| Surr: 1,2-Dichloroethane-d4 | 20.04 | 0 | 20 | 0 | 100 | 75-120 | 20.12 | 0.398 | 30 | | |
| Surr: 4-Bromofluorobenzene | 19.59 | 0 | 20 | 0 | 98 | 80-110 | 19.47 | 0.614 | 30 | | |
| Surr: Dibromofluoromethane | 19.3 | 0 | 20 | 0 | 96.5 | 85-115 | 19.29 | 0.0518 | 30 | | |
| Surr: Toluene-d8 | 19.31 | 0 | 20 | 0 | 96.6 | 85-110 | 19.14 | 0.884 | 30 | | |

The following samples were analyzed in this batch:

14051574-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R141833** Instrument ID **LACHAT2** Method: **E353.2 R2.0**

| | | | | | | | | | | |
|-------------|--------|---|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MBLK | | Sample ID: WBLKW1-140602-R141833 | | | | Units: mg/L | | Analysis Date: 6/2/2014 10:15 AM | | |
| Client ID: | | Run ID: LACHAT2_140602D | | | | SeqNo: 2789447 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Nitrogen, Nitrate-Nitrite ND 0.020

| | | | | | | | | | | |
|------------|--------|---|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| LCS | | Sample ID: WLCSW1-140602-R141833 | | | | Units: mg/L | | Analysis Date: 6/2/2014 10:15 AM | | |
| Client ID: | | Run ID: LACHAT2_140602D | | | | SeqNo: 2789448 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Nitrogen, Nitrate-Nitrite 4.947 0.020 5 0 98.9 80-120 0

| | | | | | | | | | | |
|------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MS | | Sample ID: 14051574-01D MS | | | | Units: mg/L | | Analysis Date: 6/2/2014 10:15 AM | | |
| Client ID: MW-1 | | Run ID: LACHAT2_140602D | | | | SeqNo: 2789450 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Nitrogen, Nitrate-Nitrite 6.725 0.020 5 1.891 96.7 75-125 0

| | | | | | | | | | | |
|------------------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MSD | | Sample ID: 14051574-01D MSD | | | | Units: mg/L | | Analysis Date: 6/2/2014 10:15 AM | | |
| Client ID: MW-1 | | Run ID: LACHAT2_140602D | | | | SeqNo: 2789451 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Nitrogen, Nitrate-Nitrite 6.733 0.020 5 1.891 96.8 75-125 6.725 0.119 20

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-01D | 14051574-02D | 14051574-03D |
| 14051574-04D | 14051574-05D | 14051574-06D |
| 14051574-07D | 14051574-08D | 14051574-09D |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142150** Instrument ID **IC3** Method: **SW9056**

| | | | | | | | | | | | | | | |
|------------|--|--------|------|-----------------------------|---------------|------|---------------|----------------|------|-----------|----------------------------------|--|-------|--|
| MBLK | | | | Sample ID: CCB/MBLK-R142150 | | | | Units: mg/L | | | Analysis Date: 6/5/2014 07:43 AM | | | |
| Client ID: | | | | Run ID: IC3_140605A | | | | SeqNo: 2796261 | | | Prep Date: | | DF: 1 | |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | |
| Bromide | | ND | 0.20 | | | | | | | | | | | |
| Chloride | | 0.1492 | 1.0 | | | | | | | | J | | | |
| Fluoride | | ND | 0.10 | | | | | | | | | | | |
| Sulfate | | ND | 1.0 | | | | | | | | | | | |

| LCS | | | | Sample ID: LCS-R142150 | | | | Units: mg/L | | | Analysis Date: 6/5/2014 10:48 AM | | |
|------------|--------|------|---------------------|------------------------|------|---------------|----------------|-------------|------------|------|----------------------------------|--|--|
| Client ID: | | | Run ID: IC3_140605A | | | | SeqNo: 2796262 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | |
| Bromide | 2.044 | 0.20 | 2 | 0 | 102 | 88-113 | 0 | | | | | | |
| Chloride | 9.698 | 1.0 | 10 | 0 | 97 | 88-107 | 0 | | | | | | |
| Fluoride | 1.919 | 0.10 | 2 | 0 | 95.9 | 86-111 | 0 | | | | | | |
| Sulfate | 10.54 | 1.0 | 10 | 0 | 105 | 85-110 | 0 | | | | | | |

| MS | | | | Sample ID: 14051504-03A MS | | | | Units: mg/L | | | Analysis Date: 6/5/2014 01:24 PM | | | |
|------------|--------|------|---------|----------------------------|------|---------------|---------------|----------------|-----------|------|----------------------------------|--|-------|--|
| Client ID: | | | | Run ID: IC3_140605A | | | | SeqNo: 2796272 | | | Prep Date: | | DF: 2 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | | |
| Bromide | 2.269 | 0.40 | 2 | 0 | 113 | 75-125 | | 0 | | | | | | |
| Chloride | 13.44 | 2.0 | 10 | 3.5 | 99.4 | 75-125 | | 0 | | | | | | |
| Fluoride | 2.158 | 0.20 | 2 | 0.2142 | 97.2 | 75-125 | | 0 | | | | | | |
| Sulfate | 25.17 | 2.0 | 10 | 15.32 | 98.6 | 75-125 | | 0 | | | | | | |

| MSD | | | | Sample ID: 14051504-03A MSD | | | | Units: mg/L | | Analysis Date: 6/5/2014 01:45 PM | |
|------------|--------|------|---------------------|-----------------------------|------|----------------|---------------|-------------|-----------|----------------------------------|--|
| Client ID: | | | Run ID: IC3_140605A | | | SeqNo: 2796273 | | Prep Date: | | DF: 2 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Bromide | 2.037 | 0.40 | 2 | 0 | 102 | 75-125 | 2.269 | 10.8 | 20 | | |
| Chloride | 13.37 | 2.0 | 10 | 3.5 | 98.7 | 75-125 | 13.44 | 0.565 | 20 | | |
| Fluoride | 2.078 | 0.20 | 2 | 0.2142 | 93.2 | 75-125 | 2.158 | 3.79 | 20 | | |
| Sulfate | 23.66 | 2.0 | 10 | 15.32 | 83.4 | 75-125 | 25.17 | 6.19 | 20 | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-01C | 14051574-02C | 14051574-03C |
|--------------|--------------|--------------|

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142154** Instrument ID **IC3** Method: **SW9056**

| MBLK | | Sample ID: CCB/MBLK-R142154 | | | | Units: mg/L | | Analysis Date: 6/6/2014 02:15 AM | | |
|-------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: IC3_140606A | | | | SeqNo: 2796415 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Bromide | ND | 0.20 | | | | | | | | |
| Chloride | 0.1612 | 1.0 | | | | | | | | J |
| Fluoride | ND | 0.10 | | | | | | | | |
| Sulfate | ND | 1.0 | | | | | | | | |

| LCS | | Sample ID: LCS-R142154 | | | | Units: mg/L | | Analysis Date: 6/6/2014 02:35 AM | | |
|------------|--------|-------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| Client ID: | | Run ID: IC3_140606A | | | | SeqNo: 2796417 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Bromide | 1.972 | 0.20 | 2 | 0 | 98.6 | 88-113 | 0 | | | |
| Chloride | 9.591 | 1.0 | 10 | 0 | 95.9 | 88-107 | 0 | | | |
| Fluoride | 1.917 | 0.10 | 2 | 0 | 95.8 | 86-111 | 0 | | | |
| Sulfate | 9.968 | 1.0 | 10 | 0 | 99.7 | 85-110 | 0 | | | |

| MS | | Sample ID: 14051574-02C MS | | | | Units: mg/L | | Analysis Date: 6/6/2014 08:18 AM | | |
|------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|---------------|
| Client ID: MW-2 | | Run ID: IC3_140606A | | | | SeqNo: 2796455 | | Prep Date: | | DF: 10 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Bromide | 11.28 | 2.0 | 10 | 0 | 113 | 75-125 | 0 | | | |
| Chloride | 118.1 | 10 | 50 | 64.12 | 108 | 75-125 | 0 | | | |
| Fluoride | 9.62 | 1.0 | 10 | 0 | 96.2 | 75-125 | 0 | | | |
| Sulfate | 84.5 | 10 | 50 | 35.56 | 97.9 | 75-125 | 0 | | | |

| MSD | | Sample ID: 14051574-02C MSD | | | | Units: mg/L | | Analysis Date: 6/6/2014 08:39 AM | | |
|------------------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|---------------|
| Client ID: MW-2 | | Run ID: IC3_140606A | | | | SeqNo: 2796457 | | Prep Date: | | DF: 10 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Bromide | 10.65 | 2.0 | 10 | 0 | 106 | 75-125 | 11.28 | 5.76 | 20 | |
| Chloride | 116.5 | 10 | 50 | 64.12 | 105 | 75-125 | 118.1 | 1.38 | 20 | |
| Fluoride | 9.326 | 1.0 | 10 | 0 | 93.3 | 75-125 | 9.62 | 3.1 | 20 | |
| Sulfate | 90.25 | 10 | 50 | 35.56 | 109 | 75-125 | 84.5 | 6.58 | 20 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 14051574-02C | 14051574-03C | 14051574-04C |
| 14051574-05C | 14051574-06C | 14051574-07C |
| 14051574-08C | 14051574-09C | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 14051574
Project: WPX TR 31-5-697 Quarterly MW 5.29.14

QC BATCH REPORT

Batch ID: **R142190** Instrument ID **IC4** Method: **SW9056**

| | | | | | | | | | | |
|-------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| MBLK | | Sample ID: CCB/MBLK-R142190 | | | | Units: mg/L | | Analysis Date: 6/6/2014 03:43 AM | | |
| Client ID: | | Run ID: IC4_140606B | | | | SeqNo: 2797130 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 0.0828 | 1.0 | | | | | | | | J |
| Sulfate | ND | 1.0 | | | | | | | | |

| | | | | | | | | | | |
|------------|--------|-------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|
| LCS | | Sample ID: LCS-R142190 | | | | Units: mg/L | | Analysis Date: 6/6/2014 04:03 AM | | |
| Client ID: | | Run ID: IC4_140606B | | | | SeqNo: 2797131 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 10.19 | 1.0 | 10 | 0 | 102 | 88-107 | 0 | | | |
| Sulfate | 10.7 | 1.0 | 10 | 0 | 107 | 85-110 | 0 | | | |

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|---------------|
| MS | | Sample ID: 14051541-15B MS | | | | Units: mg/L | | Analysis Date: 6/6/2014 08:46 AM | | |
| Client ID: | | Run ID: IC4_140606B | | | | SeqNo: 2797147 | | Prep Date: | | DF: 50 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 252.2 | 50 | 200 | 52.89 | 99.6 | 75-125 | 0 | | | |
| Sulfate | 711.3 | 50 | 200 | 543 | 84.2 | 75-125 | 0 | | | |

| | | | | | | | | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|---------------|
| MSD | | Sample ID: 14051541-15B MSD | | | | Units: mg/L | | Analysis Date: 6/6/2014 09:06 AM | | |
| Client ID: | | Run ID: IC4_140606B | | | | SeqNo: 2797149 | | Prep Date: | | DF: 50 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 249.8 | 50 | 200 | 52.89 | 98.5 | 75-125 | 252.2 | 0.934 | 20 | |
| Sulfate | 700.3 | 50 | 200 | 543 | 78.6 | 75-125 | 711.3 | 1.56 | 20 | |

The following samples were analyzed in this batch:

14051574-08C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

| | |
|-------------|----------|
| WORKORDER # | 14051574 |
|-------------|----------|

| | | | | | | | | | | | | | | | |
|--------------------|------------|---|-------------|--------------------|-----------|-------------------------------|----|--------------------------|---|-----------|---|----------|---|----------------------------|--|
| PROJECT NAME | | WPX TR 31-5-697 Quarterly Monitor Well Sampling | | SAMPLER | | Reed Wold/ Mark Mumby | | DATE | | 5/29/2014 | | PAGE | | 1 of 1 | |
| PROJECT No. | | | | SITE ID | | TR 31-5-697 | | TURNAROUND | | 5 Day | | DISPOSAL | | By Lab or Return to Client | |
| COMPANY NAME | | HRL Compliance | | BILL TO COMPANY | | WPX | | BTEX | | | | | | | |
| SEND REPORT TO | | Mark Mumby | | INVOICE ATTN TO | | Karolina Blaney | | GRO | | | | | | | |
| ADDRESS | | 2385 F 1/2 Rd | | ADDRESS | | 1058 Co Rd 215 | | DRO | | | | | | | |
| CITY / STATE / ZIP | | Grand Junction, CO 81506 | | CITY / STATE / ZIP | | Parachute CO 81635 | | PAH | | | | | | | |
| PHONE | | 970-243-3271 | | PHONE | | 970-683-2295 | | Semi-Vols | | | | | | | |
| FAX | | 970-243-3280 | | FAX | | | | Dissolved Metals-Cations | | | | | | | |
| E-MAIL | | mmumby@hrlcomp.com rwold@hrlcomp.com | | E-MAIL | | Karolina.blaney@wpxenergy.com | | Anions | | | | | | | |
| Lab ID | Field ID | Matrix | Sample Date | Sample Time | # Bottles | Pres. | QC | | | | | | | | |
| 1 | MW 1 | W | 5/29/2014 | 11:15 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 2 | MW 2 | W | 5/29/2014 | 14:15 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 3 | MW 3 | W | 5/29/2014 | 12:50 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 4 | MW 4 | W | 5/29/2014 | 12:30 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 5 | MW 5 | W | 5/29/2014 | 13:00 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 6 | MW 6 | W | 5/29/2014 | 11:35 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 7 | MW 7 | W | 5/29/2014 | 12:05 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 8 | MW 8 | W | 5/29/2014 | 13:10 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 9 | MW 9 | W | 5/29/2014 | 13:15 | 10 | 1.8 | | X | X | X | X | X | X | | |
| 10 | Trip Blank | | | | | | | X | | | | | | | |

*Time Zone (Circle): EST CST MST PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

| | | |
|-----------|--------------------------|--------------------------------------|
| Comments: | QC PACKAGE (check below) | |
| | X | LEVEL II (Standard QC) |
| | | LEVEL III (Std QC + forms) |
| | | LEVEL IV (Std QC + forms + raw data) |

3.6 °C 5/30
4.8 °C 5/31

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

| SIGNATURE | PRINTED NAME | DATE | TIME |
|-----------|------------------|---------|-------|
| Reed Wold | Reed Wold | 5/29/14 | 3:30 |
| | | 5-29-14 | 3:10 |
| | | 5-29-14 | 3:40 |
| | Kerry L. JERENKA | 5/31/14 | 10:30 |
| | | | |

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 31-May-14 09:30

Work Order: 14051574

Received by: KRW

Checklist completed by Keith Wurenga
eSignature

31-May-14
Date

Reviewed by: Ann Preston
eSignature

09-Jun-14
Date

Matrices: Water

Carrier name: FedEx

| | | | |
|---|---|--|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample(s) received on ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <u>3.6, 4.8 C</u> | | |
| Cooler(s)/Kit(s): | | | |
| Date/Time sample(s) sent to storage: | <u>5/31/2014 12:15:38 PM</u> | | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| pH adjusted? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| pH adjusted by: | | | |

Login Notes: Two coolers over two different days (5/30 & 5/31)

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (816) 399-0079
Sample Receiving
ALS Laboratory Group
3352 128th Avenue
Holland, MI 49424

Origin ID: GRRR



Ship Date: 29MAY14
Anctypt: 50.0 LB
CAG: 2284840@NET3480

Dim: 24 X 15 X 15 IN

BHP TO: (816) 399-0079
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL BENDER

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 862914-1
Invoice #
PO # Parachute
Dept #

FRI - 30 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 7701 3873 0688
B291

68 GRRR

49424
MI-128
GRR



0020 140000 F200

After printing this label:

1. Use the "Print" button on this page to print your label to your laser or inkjet printer.
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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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LOS

ALS Parachute Custody Seal

DATE 5-29 Time 17:00

Name M. J. M.

From: (816) 399-6070
 Sample Receiving
 ALS Laboratory Group
 3352 128th Avenue
 Holland, MI 49424

Origin ID: GRRA



Ship Date: 29MAY14
 Act/Hgt: 59.0 LB
 CAD: 2284MAYNET3490
 Dims: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 032914-2
 Invoice #
 PO # Parachute
 Dept #

SHIP TO: (816) 399-6070
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL BENDER

HOLLAND, MI 49424

FRI—29 MAY 10:30A
 PRIORITY OVERNIGHT

TRK# 7701 3877 2851

E291

68 GRRA



520162014F20

4942
 GR

Name

DATE 5-29-14 Time 17:30

ALS Parachute Custody Seal

After printing this label:

1. Use the "Print" button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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