

**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**SMITH ELSIE GU #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

| Well Name | Date                            | Benzene<br>(µg/L)       | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | Depth Water/<br>(Product<br>Thickness)<br>(ft bgs) | Relative<br>GW Elev.<br>(ft) |
|-----------|---------------------------------|-------------------------|-------------------|------------------------|----------------------------|--|------------------------------|
| AMW01     | 5/27/2008                       | 8,800                   | 7,900             | 890                    | 18,000                     | 14.31  | NA                           |
|           | 7/1/2008                        | 8,300                   | 6,700             | 680                    | 12,000                     | 14.30  | NA                           |
|           | 1/13/2009                       | 2,100                   | 26                | 750                    | 7,800                      | PVC Bent   | NA                           |
|           | AMW01 destroyed as of 4/20/2009 |                         |                   |                        |                            |  |                              |
| AMW02     | 5/27/2008                       | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | 7/1/2008                        | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | 1/13/2009                       | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | AMW02 destroyed as of 4/20/2009 |                         |                   |                        |                            |  |                              |
| MW01      | 8/8/2014                        | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | 8/11/2014                       | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | MW01 destroyed as of 11/26/2014 |                         |                   |                        |                            |  |                              |
| MW02      | 8/8/2014                        | <1.0                    | <1.0              | <1.0                   | <1.0                       | 13.95  | NA                           |
|           | 8/11/2014                       | <1.0                    | <1.0              | <1.0                   | <1.0                       | 15.98  | NA                           |
|           | MW02 destroyed as of 11/26/2014 |                         |                   |                        |                            |  |                              |
| MW03      | 8/8/2014                        | <1.0                    | <1.0              | <1.0                   | <1.0                       | 19.22  | NA                           |
|           | 8/11/2014                       | <1.0                    | <1.0              | <1.0                   | <1.0                       | 17.55  | NA                           |
|           | MW03 destroyed as of 11/26/2014 |                         |                   |                        |                            |  |                              |
| MW04      | 8/8/2014                        | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | 8/11/2014                       | 94.5                    | <4.0              | 31.9                   | 762                        | 19.20  | NA                           |
|           | 11/26/2014                      | 326                     | 5.5               | 179                    | 287                        | 9.90   | 88.46                        |
|           | 1/22/2015                       | Surveyed - Not Sampled  |                   |                        |                            | 12.88  | 88.11                        |
|           | 2/12/2015                       | 431                     | <4.0              | 138                    | 1,430                      | 12.67  | 88.32                        |
|           | 5/22/2015                       | 359                     | 7.9               | 221                    | 2,200                      | 11.36  | 89.63                        |
|           | 8/25/2015                       | 351                     | <4.0              | 238                    | 182                        | 11.42  | 89.57                        |
|           | 11/19/2015                      | 533                     | <10.0             | 240                    | 735                        | 12.27  | 88.72                        |
|           | 2/12/2016                       | Not Found - Not Sampled |                   |                        |                            | Not Found  | NA                           |
|           | 5/18/2016                       | 60.6                    | <4.0              | <4.0                   | <4.0                       | 8.11   | 92.88                        |
|           | 8/15/2016                       | 60.6                    | <1.00             | 18.4                   | <1.00                      | 10.74  | 90.25                        |
|           | 11/30/2016                      | 21.1                    | <1.00             | 1.25                   | 2.27                       | 10.91  | 90.05                        |
|           | 2/10/2017                       | 31.0                    | 1.20              | 1.31                   | 2.27                       | 10.91  | 90.05                        |
|           | 5/3/2017                        | 5.50                    | <1.00             | <1.00                  | 1.20                       | 10.75  | 90.21                        |
|           | 8/9/2017                        | 11.8                    | <1.00             | <1.00                  | <1.00                      | 9.88   | 89.84                        |
|           | 11/20/2017                      | 5.90                    | <1.00             | <1.00                  | <1.00                      | 11.30  | 88.42                        |
|           | 2/27/2018                       | 1.69                    | <1.00             | <1.00                  | <1.00                      | 10.23  | 87.94                        |
|           | 5/22/2018                       | <1.00                   | <1.00             | <1.00                  | <1.00                      | 10.17  | 88.00                        |
| MW05      | 8/8/2014                        | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | 8/11/2014                       | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | 1/22/2015                       | Surveyed - Not Sampled  |                   |                        |                            | 15.99  | 83.13                        |
|           | 2/12/2015                       | 4,340                   | 378               | 304                    | 10,300                     | 15.45  | 83.67                        |



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**KERR-MCGEE OIL & GAS ONSHORE LP**

| Well Name | Date       | Benzene<br>(µg/L)      | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | Depth Water/<br>(Product<br>Thickness)<br>(ft bgs) | Relative<br>GW Elev.<br>(ft) |
|-----------|------------|------------------------|-------------------|------------------------|----------------------------|--|------------------------------|
|           | 5/22/2015  | 1,240                  | 8.6               | 197                    | 3,310                      | 5.30   | 93.82                        |
|           | 8/25/2015  | 2,570                  | <100              | 266                    | 4,540                      | 10.35  | 88.77                        |
|           | 11/19/2015 | 4,440                  | <50.0             | 486                    | 8,030                      | 12.22  | 86.90                        |
|           | 2/12/2016  | 846                    | <100              | <100                   | 1,760                      | 6.56   | 92.56                        |
|           | 5/18/2016  | 735                    | <10.0             | <10.0                  | 166                        | 5.80   | 93.32                        |
|           | 8/15/2016  | 2,610                  | 5.52              | 556                    | 2,840                      | 11.05  | 88.07                        |
|           | 11/30/2016 | 6,310                  | <20.0             | 700                    | 9,950                      | 11.02  | 88.12                        |
|           | 2/10/2017  | 6,620                  | 111               | 706                    | 10,900                     | 11.23  | 87.91                        |
|           | 5/3/2017   | 6,990                  | <50.0             | 782                    | 10,800                     | 10.99  | 88.15                        |
|           | 8/9/2017   | 1,700                  | <50.0             | 67.0                   | 2,060                      | 5.51   | 91.77                        |
|           | 11/20/2017 | 2,810                  | <50.0             | 276                    | 4,100                      | 9.40   | 87.88                        |
|           | 2/27/2018  | 7,610                  | 31.4              | 438                    | 4,740                      | 9.77   | 86.87                        |
|           | 5/22/2018  | 191                    | <4.00             | 38.9                   | 97.8                       | 10.32  | 86.32                        |
| <hr/>     |            |                        |                   |                        |                            |  |                              |
| MW06      | 8/8/2014   | Dry - Not Sampled      |                   |                        |                            | Dry  | NA                           |
|           | 8/11/2014  | Dry - Not Sampled      |                   |                        |                            | Dry  | NA                           |
|           | 11/26/2014 | 530                    | <1.0              | 71.6                   | 284                        | 12.24  | 84.87                        |
|           | 1/22/2015  | Surveyed - Not Sampled |                   |                        |                            | 15.78  | 83.88                        |
|           | 2/12/2015  | 466                    | <4.0              | 69.4                   | 141                        | 15.30  | 84.36                        |
|           | 5/22/2015  | 671                    | <1.0              | 159                    | 352                        | 9.07   | 90.59                        |
|           | 8/25/2015  | 1,440                  | <100              | 225                    | 4,020                      | 9.55   | 90.11                        |
|           | 11/19/2015 | 1,480                  | <50.0             | 309                    | 4,380                      | 11.08  | 88.58                        |
|           | 2/12/2016  | 784                    | <50.0             | 79.5                   | 1,420                      | 10.99  | 88.67                        |
|           | 5/18/2016  | 873                    | <10.0             | 189                    | 2,380                      | 6.02   | 93.64                        |
|           | 8/15/2016  | 1,470                  | <10.0             | 348                    | 3,140                      | 8.99   | 90.67                        |
|           | 11/30/2016 | 45.3                   | <10.0             | 661                    | 50.8                       | 10.38  | 89.29                        |
|           | 2/10/2017  | 781                    | <10.0             | 242                    | 2,570                      | 11.26  | 88.41                        |
|           | 5/3/2017   | 336                    | <20.0             | 196                    | 1,040                      | 11.76  | 87.91                        |
|           | 8/9/2017   | 470                    | <20.0             | 267                    | 1,210                      | 8.66   | 89.45                        |
|           | 11/20/2017 | 358                    | <20.0             | 155                    | 1,030                      | 10.27  | 87.84                        |
|           | 2/27/2018  | 438                    | <4.00             | 195                    | 1,530                      | 10.03  | 79.45                        |
|           | 5/22/2018  | 507                    | <4.00             | 115                    | 1,040                      | 10.22  | 86.70                        |
| <hr/>     |            |                        |                   |                        |                            |  |                              |
| MW07      | 8/8/2014   | Dry - Not Sampled      |                   |                        |                            | Dry  | NA                           |
|           | 8/11/2014  | Dry - Not Sampled      |                   |                        |                            | Dry  | NA                           |
|           | 11/26/2014 | 7,330                  | 994               | 836                    | 12,200                     | 8.47   | 90.05                        |
|           | 1/22/2015  | Surveyed - Not Sampled |                   |                        |                            | 12.44  | 88.74                        |
|           | 2/12/2015  | 8,930                  | <100              | 1,220                  | 22,600                     | 12.72  | 88.46                        |
|           | 5/22/2015  | 8,830                  | 85.4              | 1,070                  | 15,600                     | 13.82  | 87.36                        |
|           | 8/25/2015  | 10,100                 | <1000             | 1,250                  | 18,400                     | 11.18  | 90.00                        |
|           | 11/19/2015 | 9,470                  | <500              | 1,140                  | 16,900                     | 10.73  | 90.45                        |
|           | 2/12/2016  | 9,850                  | <100              | 1,010                  | 15,300                     | 12.42  | 88.76                        |
|           | 5/18/2016  | 1,700                  | <100              | 379                    | 6,000                      | 7.11   | 94.07                        |
|           | 8/15/2016  | 6,260                  | <50.0             | 862                    | 12,800                     | 9.12   | 92.06                        |



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| Well Name | Date       | Benzene<br>(µg/L)      | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | Depth Water/<br>(Product<br>Thickness)<br>(ft bgs) | Relative<br>GW Elev.<br>(ft) |
|-----------|------------|------------------------|-------------------|------------------------|----------------------------|--|------------------------------|
|           | 11/30/2016 | 7,760                  | <50.0             | 936                    | 13,100                     | 9.54   | 91.60                        |
|           | 2/10/2017  | 9,100                  | <50.0             | 1,090                  | 15,700                     | 10.84  | 90.30                        |
|           | 5/3/2017   | 9,010                  | <50.0             | 964                    | 13,700                     | 11.79  | 89.35                        |
|           | 8/9/2017   | 9,110                  | <100              | 821                    | 13,400                     | 9.90   | 89.46                        |
|           | 11/20/2017 | 5,970                  | <100              | 709                    | 7,700                      | 10.64  | 88.72                        |
|           | 2/27/2018  | 11,300                 | <50.0             | 1,150                  | 12,900                     | 11.01  | 87.38                        |
|           | 5/22/2018  | 9,080                  | <50.0             | 984                    | 9,620                      | 11.64  | 86.75                        |
| MW08      | 8/8/2014   | Dry - Not Sampled      |                   |                        |                            | Dry  | NA                           |
|           | 8/11/2014  | Dry - Not Sampled      |                   |                        |                            | Dry  | NA                           |
|           | 11/26/2014 | <1.0                   | <1.0              | <1.0                   | <1.0                       | 16.92  | 86.84                        |
|           | 1/22/2015  | Surveyed - Not Sampled |                   |                        |                            | 17.87  | 85.63                        |
|           | 2/12/2015  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 17.48  | 86.02                        |
|           | 5/22/2015  | 1.3                    | <1.0              | <1.0                   | <1.0                       | 16.45  | 87.05                        |
|           | 8/25/2015  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 13.09  | 90.41                        |
|           | 11/19/2015 | 1.0                    | <1.0              | <1.0                   | <1.0                       | 13.29  | 90.21                        |
|           | 2/12/2016  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 16.03  | 87.47                        |
|           | 5/18/2016  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 11.29  | 92.21                        |
|           | 8/15/2016  | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.06  | 91.44                        |
|           | 11/30/2016 | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.40  | 91.30                        |
|           | 2/10/2017  | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.28  | 91.42                        |
|           | 5/3/2017   | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.17  | 91.53                        |
|           | 8/9/2017   | <1.00                  | <1.00             | <1.00                  | <1.00                      | 11.48  | 89.43                        |
|           | 11/20/2017 | <1.00                  | <1.00             | <1.00                  | <1.00                      | 11.48  | 89.43                        |
|           | 2/27/2018  | <1.00                  | <1.00             | <1.00                  | 2.01                       | 11.24  | 89.48                        |
|           | 5/22/2018  | <4.00                  | <4.00             | <4.00                  | <4.00                      | 11.28  | 89.44                        |
| MW09      | 8/8/2014   | 6,280                  | 7.3               | 1,940                  | 26,500                     | 11.23  | NA                           |
|           | 8/11/2014  | 5,240                  | <20.0             | 1,640                  | 23,500                     | 11.28  | NA                           |
|           | 11/26/2014 | 1,440                  | <100              | 685                    | 9,920                      | 9.80   | 89.11                        |
|           | 1/22/2015  | Surveyed - Not Sampled |                   |                        |                            | 12.93  | 88.60                        |
|           | 2/12/2015  | 2,470                  | <50.0             | 1,070                  | 17,000                     | 12.77  | 88.76                        |
|           | 5/22/2015  | 1,240                  | <100              | 945                    | 7,170                      | 10.97  | 90.56                        |
|           | 8/25/2015  | 3,150                  | <20.0             | 451                    | 10,500                     | 10.38  | 91.15                        |
|           | 11/19/2015 | 2,850                  | <100              | 287                    | 12,700                     | 12.07  | 89.46                        |
|           | 2/12/2016  | 3,080                  | <100              | 499                    | 12,800                     | 11.94  | 89.59                        |
|           | 5/18/2016  | 3,870                  | <100              | 209                    | 13,000                     | 7.96   | 93.57                        |
|           | 8/15/2016  | 3,240                  | <100              | 622                    | 12,300                     | 9.33   | 92.20                        |
|           | 11/30/2016 | 732                    | <50.0             | 869                    | 332                        | 10.89  | 90.62                        |
|           | 2/10/2017  | 2,640                  | <50.0             | 508                    | 12,800                     | 11.09  | 90.42                        |
|           | 5/3/2017   | 2,490                  | <50.0             | 552                    | 9,700                      | 11.01  | 90.50                        |
|           | 8/9/2017   | 3,870                  | <40.0             | 645                    | 14,000                     | 9.19   | 91.20                        |
|           | 11/20/2017 | 2,230                  | 3.97              | 378                    | 7,830                      | 11.22  | 89.17                        |
|           | 2/27/2018  | 126                    | <20.0             | 443                    | 843                        | 10.40  | 88.36                        |



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| Well Name | Date                           | Benzene<br>(µg/L)       | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | Depth Water/<br>(Product<br>Thickness)<br>(ft bgs) | Relative<br>GW Elev.<br>(ft) |
|-----------|--------------------------------|-------------------------|-------------------|------------------------|----------------------------|--|------------------------------|
|           | 5/22/2018                      | 2,240                   | <4.00             | <4.00                  | 7,760                      | 10.27  | 88.49                        |
| MW10      | 8/8/2014                       | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | 8/11/2014                      | Dry - Not Sampled       |                   |                        |                            | Dry  | NA                           |
|           | 11/26/2014                     | 1,420                   | 106               | 706                    | 8,710                      | 10.27  | 89.11                        |
|           | 1/22/2015                      | Surveyed - Not Sampled  |                   |                        |                            | PVC Blocked  | NA                           |
|           | 2/12/2015                      | Damaged - Not Sampled   |                   |                        |                            | PVC Blocked  | NA                           |
|           | 5/22/2015                      | Damaged - Not Sampled   |                   |                        |                            | PVC Blocked  | NA                           |
|           | 8/25/2015                      | Damaged - Not Sampled   |                   |                        |                            | PVC Blocked  | NA                           |
|           | 11/19/2015                     | Damaged - Not Sampled   |                   |                        |                            | PVC Blocked  | NA                           |
|           | 2/12/2016                      | Damaged - Not Sampled   |                   |                        |                            | PVC Blocked  | NA                           |
|           | 5/18/2016                      | Damaged - Not Sampled   |                   |                        |                            | PVC Blocked  | NA                           |
|           | 8/15/2016                      | Damaged - Not Sampled   |                   |                        |                            | PVC Blocked  | NA                           |
|           | 11/30/2016                     | Damaged - Not Sampled   |                   |                        |                            | PVC Blocked  | NA                           |
|           | 5/22/2018                      | Destroyed - Not Sampled |                   |                        |                            | 12.23  | NA                           |
|           | MW10 destroyed as of 2/10/2017 |                         |                   |                        |                            |  |                              |
| MW11      | 8/8/2014                       | 7,920                   | 2060              | 1,620                  | 23,900                     | 12.75  | NA                           |
|           | 8/11/2014                      | 8,120                   | 1600              | 1,310                  | 23,300                     | 12.77  | NA                           |
|           | 11/26/2014                     | 2,490                   | <100              | 1,330                  | 19,900                     | 10.81  | 89.93                        |
|           | 1/22/2015                      | Surveyed - Not Sampled  |                   |                        |                            | 13.59  | 88.64                        |
|           | 2/12/2015                      | 4,280                   | 264               | 982                    | 14,800                     | 13.40  | 88.83                        |
|           | 5/22/2015                      | 2,850                   | <100              | 923                    | 11,800                     | 12.24  | 89.99                        |
|           | 8/25/2015                      | 3,570                   | <50.0             | 656                    | 8,790                      | 11.98  | 90.25                        |
|           | 11/19/2015                     | 3,980                   | <100              | 728                    | 10,500                     | 12.98  | 89.25                        |
|           | 2/12/2016                      | 3,470                   | <100              | 561                    | 9,190                      | 12.76  | 89.47                        |
|           | 5/18/2016                      | <4.0                    | <4.0              | <4.0                   | <4.0                       | 9.46   | 92.77                        |
|           | 8/15/2016                      | 1,830                   | 11.0              | 117                    | 2,310                      | 11.25  | 90.98                        |
|           | 11/30/2016                     | 2,880                   | 21.2              | 302                    | 4,610                      | 11.66  | 90.58                        |
|           | 2/10/2017                      | 3,600                   | 49.2              | 486                    | 7,200                      | 11.51  | 90.73                        |
|           | 5/3/2017                       | 766                     | <20.0             | 260                    | 3,450                      | 11.52  | 90.72                        |
|           | 8/9/2017                       | 2,520                   | <20.0             | 258                    | 4,320                      | 10.55  | 90.25                        |
|           | 11/20/2017                     | 1,500                   | <100              | 253                    | 3,880                      | 11.85  | 88.95                        |
|           | 2/27/2018                      | 2,860                   | <20.0             | 390                    | 1,890                      | 10.88  | 88.58                        |
|           | 5/22/2018                      | 3,180                   | <50.0             | 404                    | 1,680                      | 10.72  | 88.74                        |
| MW12      | 8/8/2014                       | 5.5                     | <1.0              | 145                    | 2,930                      | 12.92  | NA                           |
|           | 8/11/2014                      | 16                      | <4.0              | 554                    | 5,290                      | 12.85  | NA                           |
|           | 11/26/2014                     | 8.1                     | <4.0              | 35.8                   | 207                        | 10.74  | 89.18                        |
|           | 1/22/2015                      | Surveyed - Not Sampled  |                   |                        |                            | 13.66  | 88.92                        |
|           | 2/12/2015                      | 2.1                     | <1.0              | 30.6                   | 302                        | 14.52  | 88.06                        |
|           | 5/22/2015                      | 2.1                     | <1.0              | 2.5                    | 7.5                        | 12.33  | 90.25                        |
|           | 8/25/2015                      | 4.5                     | <1.0              | 1.2                    | 4.3                        | 12.07  | 90.51                        |
|           | 11/19/2015                     | 4.2                     | <1.0              | 103                    | 258                        | 13.01  | 89.57                        |



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**KERR-MCGEE OIL & GAS ONSHORE LP**

| Well Name                     | Date       | Benzene<br>(µg/L)      | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Total<br>Xylenes<br>(µg/L) | Depth Water/<br>(Product<br>Thickness)<br>(ft bgs) | Relative<br>GW Elev.<br>(ft) |
|-------------------------------|------------|------------------------|-------------------|------------------------|----------------------------|--|------------------------------|
|                               | 2/12/2016  | <b>8.9</b>             | <1.0              | 52.7                   | 226                        | 12.78  | 89.80                        |
|                               | 5/18/2016  | <4.0                   | <4.0              | <4.0                   | <4.0                       | 9.66   | 92.92                        |
|                               | 8/15/2016  | 4.06                   | <1.00             | 7.82                   | 8.38                       | 10.98  | 91.60                        |
|                               | 11/30/2016 | <1.00                  | <1.00             | <1.00                  | <1.00                      | 11.39  | 91.19                        |
|                               | 2/10/2017  | 1.88                   | <1.00             | 31.8                   | <1.00                      | 11.25  | 91.33                        |
|                               | 5/3/2017   | <1.00                  | <1.00             | 6.72                   | <1.00                      | 11.13  | 91.45                        |
|                               | 8/9/2017   | <1.00                  | <1.00             | <1.00                  | <1.00                      | 10.25  | 91.59                        |
|                               | 11/20/2017 | 4.95                   | <1.00             | 3.26                   | 47.0                       | 11.74  | 90.10                        |
|                               | 2/27/2018  | <1.00                  | <1.00             | <1.00                  | <1.00                      | 10.76  | 89.14                        |
|                               | 5/22/2018  | <1.00                  | <1.00             | <1.00                  | <1.00                      | 10.65  | 89.25                        |
| MW13                          | 8/8/2014   | <1.0                   | <1.0              | <1.0                   | 4.80                       | 14.04  | NA                           |
|                               | 8/11/2014  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 14.07  | NA                           |
|                               | 11/26/2014 | <1.0                   | <1.0              | <1.0                   | <1.0                       | 11.46  | 89.28                        |
|                               | 1/22/2015  | Surveyed - Not Sampled |                   |                        |                            | 14.39  | 89.07                        |
|                               | 2/12/2015  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 14.21  | 89.25                        |
|                               | 5/22/2015  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 13.40  | 90.06                        |
|                               | 8/25/2015  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 13.07  | 90.39                        |
|                               | 11/19/2015 | <1.0                   | <1.0              | <1.0                   | <1.0                       | 13.72  | 89.74                        |
|                               | 2/12/2016  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 13.61  | 89.85                        |
|                               | 5/18/2016  | <1.0                   | <1.0              | <1.0                   | <1.0                       | 10.99  | 92.47                        |
|                               | 8/15/2016  | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.23  | 91.23                        |
|                               | 11/30/2016 | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.21  | 91.12                        |
|                               | 2/10/2017  | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.09  | 91.24                        |
|                               | 5/3/2017   | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.06  | 91.27                        |
|                               | 8/9/2017   | <1.00                  | <1.00             | <1.00                  | <1.00                      | 11.37  | 89.74                        |
|                               | 11/20/2017 | <1.00                  | <1.00             | <1.00                  | <1.00                      | 12.50  | 88.61                        |
|                               | 2/27/2018  | <1.00                  | <1.00             | <1.00                  | <1.00                      | 11.86  | 89.00                        |
|                               | 5/22/2018  | <1.00                  | <1.00             | <1.00                  | <1.00                      | 11.79  | 89.07                        |
| <b>COGCC Allowable Levels</b> |            | <b>5</b>               | <b>1000</b>       | <b>700</b>             | <b>1400</b>                |  |                              |

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

NM - not measured

µg/L - micrograms per liter

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level

Excavation groundwater depth is approximate





May 29, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Smith Elsie #1**

**Project Number - KMG0590/WO#8855133**

Attached are your analytical results for KMG - Smith Elsie #1 received by Origins Laboratory, Inc. May 22, 2018. This project is associated with Origins project number Y805347-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

### CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled       | Date Received    |
|-----------|---------------|--------|--------------------|------------------|
| MW04      | Y805347-01    | Water  | May 22, 2018 13:55 | 05/22/2018 18:15 |
| MW05      | Y805347-02    | Water  | May 22, 2018 14:00 | 05/22/2018 18:15 |
| MW06      | Y805347-03    | Water  | May 22, 2018 14:05 | 05/22/2018 18:15 |
| MW07      | Y805347-04    | Water  | May 22, 2018 14:10 | 05/22/2018 18:15 |
| MW08      | Y805347-05    | Water  | May 22, 2018 14:15 | 05/22/2018 18:15 |
| MW09      | Y805347-06    | Water  | May 22, 2018 14:20 | 05/22/2018 18:15 |
| MW11      | Y805347-07    | Water  | May 22, 2018 14:25 | 05/22/2018 18:15 |
| MW12      | Y805347-08    | Water  | May 22, 2018 14:30 | 05/22/2018 18:15 |
| MW13      | Y805347-09    | Water  | May 22, 2018 14:35 | 05/22/2018 18:15 |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*







LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: Y805347

Client: LTE

Client Project ID: KMG - Smith Elsie #1

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 05/23/2018

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐ (Describe)

Cooler Number/Temperature: 1 5.2 °C / °C / °C / °C

Thermometer ID: T003

| Requirement Description   | Yes                                 | No                                  | N/A                      | Comments (if any) |
|---|-------------------------------------|-------------------------------------|--------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Is there ice present (document if blue ice is used)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                   |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                   |
| Were all samples received intact <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
| Additional Comments (if any):   |                                     |                                     |                          |                   |

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/23/18

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

MW04

5/22/2018 1:55:00PM

| Analyte | Result | Reporting |  | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------|--|-------|----------|-------|----------|----------|-------|
|         |        | Limit     |  |       |          |       |          |          |       |

Origins Laboratory, Inc.  
Y805347-01 (Water)

BTEX by EPA 8260C

|                |    |      |      |   |         |            |            |   |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene        | ND | 1.00 | ug/L | 1 | B8E2601 | 05/26/2018 | 05/26/2018 | U |
| Toluene        | ND | 1.00 | "    | " | "       | "          | "          | U |
| Ethylbenzene   | ND | 1.00 | "    | " | "       | "          | "          | U |
| Xylenes, total | ND | 1.00 | "    | " | "       | "          | "          | U |

|                                  |        |        |   |   |   |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.7 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8            | 100 %  | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 99.7 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

## MW05

5/22/2018 2:00:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory, Inc. Y805347-02 (Water)

### BTEX by EPA 8260C

|                                  |        |        |      |   |         |            |            |   |
|----------------------------------|--------|--------|------|---|---------|------------|------------|---|
| Benzene                          | 191    | 4.00   | ug/L | 4 | B8E2601 | 05/26/2018 | 05/27/2018 |   |
| Toluene                          | ND     | 4.00   | "    | " | "       | "          | "          | U |
| Ethylbenzene                     | 38.9   | 4.00   | "    | " | "       | "          | "          |   |
| Xylenes, total                   | 97.8   | 4.00   | "    | " | "       | "          | "          |   |
| Surrogate: 1,2-Dichloroethane-d4 | 115 %  | 84-121 |      |   | "       | "          | "          |   |
| Surrogate: Toluene-d8            | 98.0 % | 85-115 |      |   | "       | "          | "          |   |
| Surrogate: 4-Bromofluorobenzene  | 96.8 % | 84-114 |      |   | "       | "          | "          |   |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

## MW06

5/22/2018 2:05:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory, Inc. Y805347-03 (Water)

### BTEX by EPA 8260C

|                                  |        |        |      |   |         |            |            |   |
|----------------------------------|--------|--------|------|---|---------|------------|------------|---|
| Benzene                          | 507    | 4.00   | ug/L | 4 | B8E2601 | 05/26/2018 | 05/27/2018 |   |
| Toluene                          | ND     | 4.00   | "    | " | "       | "          | "          | U |
| Ethylbenzene                     | 115    | 4.00   | "    | " | "       | "          | "          |   |
| Xylenes, total                   | 1040   | 4.00   | "    | " | "       | "          | 05/27/2018 |   |
| Surrogate: 1,2-Dichloroethane-d4 | 103 %  | 84-121 |      |   | "       | "          | 05/27/2018 |   |
| Surrogate: Toluene-d8            | 99.3 % | 85-115 |      |   | "       | "          | "          |   |
| Surrogate: 4-Bromofluorobenzene  | 96.7 % | 84-114 |      |   | "       | "          | "          |   |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

## MW07

5/22/2018 2:10:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory, Inc. Y805347-04 (Water)

### BTEX by EPA 8260C

|                                  |        |        |      |    |         |            |            |   |
|----------------------------------|--------|--------|------|----|---------|------------|------------|---|
| Benzene                          | 9080   | 50.0   | ug/L | 50 | B8E2601 | 05/26/2018 | 05/27/2018 |   |
| Toluene                          | ND     | 50.0   | "    | "  | "       | "          | "          | U |
| Ethylbenzene                     | 984    | 50.0   | "    | "  | "       | "          | "          |   |
| Xylenes, total                   | 9620   | 50.0   | "    | "  | "       | "          | "          |   |
| Surrogate: 1,2-Dichloroethane-d4 | 104 %  | 84-121 |      |    | "       | "          | "          |   |
| Surrogate: Toluene-d8            | 98.4 % | 85-115 |      |    | "       | "          | "          |   |
| Surrogate: 4-Bromofluorobenzene  | 98.9 % | 84-114 |      |    | "       | "          | "          |   |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

MW08

5/22/2018 2:15:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.  
Y805347-05 (Water)

BTEX by EPA 8260C

|                |    |      |      |   |         |            |            |   |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene        | ND | 4.00 | ug/L | 4 | B8E2601 | 05/26/2018 | 05/27/2018 | U |
| Toluene        | ND | 4.00 | "    | " | "       | "          | "          | U |
| Ethylbenzene   | ND | 4.00 | "    | " | "       | "          | "          | U |
| Xylenes, total | ND | 4.00 | "    | " | "       | "          | "          | U |

|                                  |        |        |   |   |   |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 103 %  | 84-121 | " | " | " |
| Surrogate: Toluene-d8            | 99.4 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 96.4 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

## MW09

5/22/2018 2:20:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory, Inc. Y805347-06 (Water)

### BTEX by EPA 8260C

|                |      |      |      |    |         |            |            |   |
|----------------|------|------|------|----|---------|------------|------------|---|
| Benzene        | 2240 | 50.0 | ug/L | 50 | B8E2601 | 05/26/2018 | 05/27/2018 |   |
| Toluene        | ND   | 4.00 | "    | 4  | "       | "          | 05/27/2018 | U |
| Ethylbenzene   | ND   | 4.00 | "    | "  | "       | "          | "          | U |
| Xylenes, total | 7760 | 50.0 | "    | 50 | "       | "          | 05/27/2018 |   |

|                                  |        |        |  |  |   |   |            |  |
|----------------------------------|--------|--------|--|--|---|---|------------|--|
| Surrogate: 1,2-Dichloroethane-d4 | 96.5 % | 84-121 |  |  | " | " | 05/27/2018 |  |
| Surrogate: Toluene-d8            | 98.2 % | 85-115 |  |  | " | " | "          |  |
| Surrogate: 4-Bromofluorobenzene  | 100 %  | 84-114 |  |  | " | " | "          |  |

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

MW11  
5/22/2018 2:25:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.  
Y805347-07 (Water)

## BTEX by EPA 8260C

|                                  |        |        |      |    |         |            |            |   |
|----------------------------------|--------|--------|------|----|---------|------------|------------|---|
| Benzene                          | 3180   | 50.0   | ug/L | 50 | B8E2601 | 05/26/2018 | 05/27/2018 |   |
| Toluene                          | ND     | 50.0   | "    | "  | "       | "          | "          | U |
| Ethylbenzene                     | 404    | 50.0   | "    | "  | "       | "          | "          |   |
| Xylenes, total                   | 1680   | 50.0   | "    | "  | "       | "          | "          |   |
| Surrogate: 1,2-Dichloroethane-d4 | 99.6 % | 84-121 |      |    | "       | "          | "          |   |
| Surrogate: Toluene-d8            | 100 %  | 85-115 |      |    | "       | "          | "          |   |
| Surrogate: 4-Bromofluorobenzene  | 97.0 % | 84-114 |      |    | "       | "          | "          |   |

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

MW12  
5/22/2018 2:30:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.  
Y805347-08 (Water)

## BTEX by EPA 8260C

|                |    |      |      |   |         |            |            |   |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene        | ND | 1.00 | ug/L | 1 | B8E2601 | 05/26/2018 | 05/27/2018 | U |
| Toluene        | ND | 1.00 | "    | " | "       | "          | "          | U |
| Ethylbenzene   | ND | 1.00 | "    | " | "       | "          | "          | U |
| Xylenes, total | ND | 1.00 | "    | " | "       | "          | "          | U |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 %  | 84-121 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 99.3 % | 85-115 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 96.5 % | 84-114 |  |  | " | " | " |  |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

MW13  
5/22/2018 2:35:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.  
Y805347-09 (Water)

## BTEX by EPA 8260C

|                |    |      |      |   |         |            |            |   |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene        | ND | 1.00 | ug/L | 1 | B8E2601 | 05/26/2018 | 05/27/2018 | U |
| Toluene        | ND | 1.00 | "    | " | "       | "          | "          | U |
| Ethylbenzene   | ND | 1.00 | "    | " | "       | "          | "          | U |
| Xylenes, total | ND | 1.00 | "    | " | "       | "          | "          | U |

|                                  |        |        |   |   |   |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 104 %  | 84-121 | " | " | " |
| Surrogate: Toluene-d8            | 99.1 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 96.1 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B8E2601 - EPA 5030B (Water)**

**Blank (B8E2601-BLK1)**

Prepared: 05/26/2018 Analyzed: 05/26/2018

|                                  |    |      |      |      |      |  |        |  |  |   |
|----------------------------------|----|------|------|------|------|--|--------|--|--|---|
| Benzene                          | ND | 1.00 | ug/L |      |      |  |        |  |  | U |
| Toluene                          | ND | 1.00 | "    |      |      |  |        |  |  | U |
| Ethylbenzene                     | ND | 1.00 | "    |      |      |  |        |  |  | U |
| Xylenes, total                   | ND | 1.00 | "    |      |      |  |        |  |  | U |
| Surrogate: 1,2-Dichloroethane-d4 | 64 |      | "    | 62.5 | 102  |  | 84-121 |  |  |   |
| Surrogate: Toluene-d8            | 62 |      | "    | 62.5 | 98.9 |  | 85-115 |  |  |   |
| Surrogate: 4-Bromofluorobenzene  | 60 |      | "    | 62.5 | 96.0 |  | 84-114 |  |  |   |

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG0590/WO#88551335  
Project: KMG - Smith Elsie #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B8E2601 - EPA 5030B (Water)**

**LCS (B8E2601-BS1)**

Prepared: 05/26/2018 Analyzed: 05/26/2018

|                                  |      |      |      |      |  |      |          |
|----------------------------------|------|------|------|------|--|------|----------|
| Benzene                          | 43.8 | 1.00 | ug/L | 50.0 |  | 87.7 | 73.3-129 |
| Toluene                          | 43.0 | 1.00 | "    | 50.0 |  | 86.0 | 76.2-123 |
| Ethylbenzene                     | 45.8 | 1.00 | "    | 50.0 |  | 91.6 | 73.6-130 |
| m,p-Xylene                       | 85.0 | 2.00 | "    | 100  |  | 85.0 | 76.1-126 |
| o-Xylene                         | 45.8 | 1.00 | "    | 50.0 |  | 91.5 | 76.6-124 |
| Surrogate: 1,2-Dichloroethane-d4 | 63   |      | "    | 62.5 |  | 101  | 84-121   |
| Surrogate: Toluene-d8            | 62   |      | "    | 62.5 |  | 98.7 | 85-115   |
| Surrogate: 4-Bromofluorobenzene  | 63   |      | "    | 62.5 |  | 101  | 84-114   |

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B8E2601 - EPA 5030B (Water)**

| Matrix Spike (B8E2601-MS1)       |      | Source: Y805347-01 |      |      | Prepared: 05/26/2018 Analyzed: 05/26/2018 |      |        |  |  |  |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene                          | 44.4 | 1.00               | ug/L | 50.0 | 0.300                                     | 88.1 | 74-130 |  |  |  |
| Toluene                          | 42.8 | 1.00               | "    | 50.0 | ND  | 85.6 | 73-131 |  |  |  |
| Ethylbenzene                     | 46.0 | 1.00               | "    | 50.0 | ND  | 92.0 | 76-132 |  |  |  |
| m,p-Xylene                       | 88.1 | 2.00               | "    | 100  | ND  | 88.1 | 69-139 |  |  |  |
| o-Xylene                         | 46.6 | 1.00               | "    | 50.0 | ND  | 93.3 | 74-131 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 69   |                    | "    | 62.5 |   | 110  | 84-121 |  |  |  |
| Surrogate: Toluene-d8            | 62   |                    | "    | 62.5 |   | 98.7 | 85-115 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 64   |                    | "    | 62.5 |   | 103  | 84-114 |  |  |  |

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B8E2601 - EPA 5030B (Water)**

| Matrix Spike Dup (B8E2601-MSD1)  |      | Source: Y805347-01 |      |      | Prepared: 05/26/2018 Analyzed: 05/26/2018 |      |        |       |    |  |
|----------------------------------|------|--------------------|------|------|---|------|--------|-------|----|--|
| Benzene                          | 44.3 | 1.00               | ug/L | 50.0 | 0.300                                     | 88.0 | 74-130 | 0.113 | 20 |  |
| Toluene                          | 42.6 | 1.00               | "    | 50.0 | ND  | 85.3 | 73-131 | 0.375 | 20 |  |
| Ethylbenzene                     | 45.9 | 1.00               | "    | 50.0 | ND  | 91.9 | 76-132 | 0.131 | 20 |  |
| m,p-Xylene                       | 87.0 | 2.00               | "    | 100  | ND  | 87.0 | 69-139 | 1.18  | 20 |  |
| o-Xylene                         | 46.1 | 1.00               | "    | 50.0 | ND  | 92.2 | 74-131 | 1.19  | 20 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 68   |                    | "    | 62.5 |   | 110  | 84-121 |       |    |  |
| Surrogate: Toluene-d8            | 62   |                    | "    | 62.5 |   | 98.4 | 85-115 |       |    |  |
| Surrogate: 4-Bromofluorobenzene  | 64   |                    | "    | 62.5 |   | 103  | 84-114 |       |    |  |

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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