

**TABLE 1**  
**TRAIL RIDGE 3-19 PIT**  
**PARACHUTE, COLORADO**  
**ENCANA OIL GAS (USA) INC.**

| PARAMETER               | COGCC<br>CONCENTRATION<br>LEVELS | UNITS    | 20141006 - TR 3-19<br>(E WALL) | 20141006 - TR 3-19<br>(E PB) | 20141006 - TR 3-19<br>(W PB) | 20141006 - TR 3-19<br>(W WALL) | 20141006 - TR 3-19<br>(S WALL) | 20141006 - TR 3-19<br>(N WALL) |
|-------------------------|----------------------------------|----------|--------------------------------|------------------------------|------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Sample Date             |                                  |          | 10/6/2014                      | 10/6/2014                    | 10/6/2014                    | 10/6/2014                      | 10/6/2014                      | 10/6/2014                      |
| Sample Depth (ft.)      |                                  |          | 6                              | 10                           | 10                           | 6                              | 6                              | 6                              |
| Arsenic                 | 0.39                             | mg/kg    | NA                             | NA                           | <b>3.2</b>                   | NA                             | NA                             | NA                             |
| Barium                  | 15,000                           | mg/kg    | NA                             | NA                           | 580                          | NA                             | NA                             | NA                             |
| Cadmium                 | 70                               | mg/kg    | NA                             | NA                           | 0.51                         | NA                             | NA                             | NA                             |
| Chromium (III)          | 120,000                          | mg/kg    | NA                             | NA                           | 44                           | NA                             | NA                             | NA                             |
| Chromium (VI)           | 23                               | mg/kg    | NA                             | NA                           | <2.0                         | NA                             | NA                             | NA                             |
| Copper                  | 3,100                            | mg/kg    | NA                             | NA                           | 14                           | NA                             | NA                             | NA                             |
| Lead                    | 400                              | mg/kg    | NA                             | NA                           | 19                           | NA                             | NA                             | NA                             |
| Mercury                 | 23                               | mg/kg    | NA                             | NA                           | <0.020                       | NA                             | NA                             | NA                             |
| Nickel                  | 1,600                            | mg/kg    | NA                             | NA                           | 23                           | NA                             | NA                             | NA                             |
| Selenium                | 390                              | mg/kg    | NA                             | NA                           | <2.0                         | NA                             | NA                             | NA                             |
| Silver                  | 390                              | mg/kg    | NA                             | NA                           | <1.0                         | NA                             | NA                             | NA                             |
| Zinc                    | 23,000                           | mg/kg    | NA                             | NA                           | 63                           | NA                             | NA                             | NA                             |
| EC                      | 4.0                              | mmhos/cm | NA                             | NA                           | 2.2                          | NA                             | NA                             | NA                             |
| pH                      | 6 - 9                            | SU       | NA                             | NA                           | 8.2                          | NA                             | NA                             | NA                             |
| SAR                     | 12                               | unitless | NA                             | NA                           | <b>19</b>                    | NA                             | NA                             | NA                             |
| TPH-GRO                 |                                  | mg/kg    | <0.50                          | <0.50                        | <0.50                        | <0.50                          | <0.50                          | <0.50                          |
| TPH-DRO                 |                                  | mg/kg    | 140                            | 76                           | <b>690</b>                   | 14                             | 48                             | 100                            |
| TPH                     | 500                              | mg/kg    | 140                            | 76                           | <b>690</b>                   | 14                             | 48                             | 100                            |
| Benzene                 | 0.17                             | mg/kg    | NA                             | NA                           | <0.0025                      | NA                             | NA                             | NA                             |
| Toluene                 | 85                               | mg/kg    | NA                             | NA                           | <0.025                       | NA                             | NA                             | NA                             |
| Ethylbenzene            | 100                              | mg/kg    | NA                             | NA                           | <0.0025                      | NA                             | NA                             | NA                             |
| Total Xylenes           | 175                              | mg/kg    | NA                             | NA                           | <0.0075                      | NA                             | NA                             | NA                             |
| Acenaphthene            | 1000                             | mg/kg    | NA                             | NA                           | 0.23                         | NA                             | NA                             | NA                             |
| Anthracene              | 1000                             | mg/kg    | NA                             | NA                           | 0.30                         | NA                             | NA                             | NA                             |
| Benzo(A)anthracene      | 0.22                             | mg/kg    | NA                             | NA                           | <0.060                       | NA                             | NA                             | NA                             |
| Benzo(B)fluoranthene    | 0.22                             | mg/kg    | NA                             | NA                           | <0.060                       | NA                             | NA                             | NA                             |
| Benzo(K)fluoranthene    | 2.2                              | mg/kg    | NA                             | NA                           | <0.060                       | NA                             | NA                             | NA                             |
| Benzo(A)pyrene          | 0.022                            | mg/kg    | NA                             | NA                           | <0.060                       | NA                             | NA                             | NA                             |
| Chrysene                | 22                               | mg/kg    | NA                             | NA                           | <0.060                       | NA                             | NA                             | NA                             |
| Dibenzo(A,H)anthracene  | 0.022                            | mg/kg    | NA                             | NA                           | <0.060                       | NA                             | NA                             | NA                             |
| Fluoranthene            | 1000                             | mg/kg    | NA                             | NA                           | <0.060                       | NA                             | NA                             | NA                             |
| Fluorene                | 1000                             | mg/kg    | NA                             | NA                           | 0.34                         | NA                             | NA                             | NA                             |
| Indeno(1,2,3,C,D)pyrene | 0.22                             | mg/kg    | NA                             | NA                           | <0.060                       | NA                             | NA                             | NA                             |
| Naphthalene             | 23                               | mg/kg    | NA                             | NA                           | 0.38                         | NA                             | NA                             | NA                             |
| Pyrene                  | 1000                             | mg/kg    | NA                             | NA                           | 0.24                         | NA                             | NA                             | NA                             |

**NOTES:**

< - less than the stated reporting limit

**BOLD** - indicates result exceeds the COGCC concentration level

COGCC - Colorado Oil and Gas Conservation Commission

EC- electrical conductivity

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed

SU - standard unit

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO



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| PARAMETER               | COGCC<br>CONCENTRATION<br>LEVELS | UNITS    | 20141006 - TR 3-19<br>(SPOILS S01) | 20141006 - TR 3-19<br>(SPOILS S02) | 20141006 - TR 3-19<br>(SPOILS S03) | 20141006 - TR 3-19<br>(SPOILS NE01) | 20141006 - TR 3-19<br>(SPOILS NE02) | 20141006 - TR 3-19<br>(SPOILS NE03) |
|-------------------------|----------------------------------|----------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Sample Date             |                                  |          | 10/6/2014                          | 10/6/2014                          | 10/6/2014                          | 10/6/2014                           | 10/6/2014                           | 10/6/2014                           |
| Sample Depth (ft.)      |                                  |          | --                                 | --                                 | --                                 | --                                  | --                                  | --                                  |
| Arsenic                 | 0.39                             | mg/kg    | <b>3.0</b>                         | <b>2.8</b>                         | <b>2.6</b>                         | <b>2.6</b>                          | <b>2.4</b>                          | <b>3.2</b>                          |
| Barium                  | 15,000                           | mg/kg    | 680                                | 690                                | 710                                | 610                                 | 550                                 | 620                                 |
| Cadmium                 | 70                               | mg/kg    | 0.61                               | 0.51                               | <0.50                              | 0.50                                | 0.51                                | 0.54                                |
| Chromium (III)          | 120,000                          | mg/kg    | 40                                 | 44                                 | 40                                 | 36                                  | 37                                  | 37                                  |
| Chromium (VI)           | 23                               | mg/kg    | <2.0                               | <2.0                               | <2.0                               | <2.0                                | <2.0                                | <2.0                                |
| Copper                  | 3,100                            | mg/kg    | 16                                 | 13                                 | 15                                 | 15                                  | 14                                  | 15                                  |
| Lead                    | 400                              | mg/kg    | 22                                 | 18                                 | 18                                 | 16                                  | 17                                  | 16                                  |
| Mercury                 | 23                               | mg/kg    | 0.023                              | <0.020                             | <0.020                             | <0.020                              | <0.020                              | <0.020                              |
| Nickel                  | 1,600                            | mg/kg    | 23                                 | 23                                 | 23                                 | 20                                  | 20                                  | 20                                  |
| Selenium                | 390                              | mg/kg    | <2.0                               | <2.0                               | <2.0                               | <2.0                                | <2.0                                | <2.0                                |
| Silver                  | 390                              | mg/kg    | <1.0                               | <1.0                               | <1.0                               | <1.0                                | <1.0                                | <1.0                                |
| Zinc                    | 23,000                           | mg/kg    | 66                                 | 52                                 | 60                                 | 55                                  | 58                                  | 53                                  |
| EC                      | 4.0                              | mmhos/cm | 1.8                                | 1.4                                | 1.8                                | 1.2                                 | 0.97                                | 1.2                                 |
| pH                      | 6 - 9                            | SU       | <b>9.3</b>                         | 8.7                                | 8.6                                | 8.4                                 | 8.3                                 | 8.30                                |
| SAR                     | 12                               | unitless | <b>15</b>                          | 8.7                                | <b>14</b>                          | 5.2                                 | 4.0                                 | 4.3                                 |
| TPH-GRO                 |                                  | mg/kg    | <0.50                              | <0.50                              | <0.50                              | <0.50                               | <0.50                               | <0.50                               |
| TPH-DRO                 |                                  | mg/kg    | 310                                | 130                                | <b>760</b>                         | 220                                 | 350                                 | 140                                 |
| TPH                     | 500                              | mg/kg    | 310                                | 130                                | <b>760</b>                         | 220                                 | 350                                 | 140                                 |
| Benzene                 | 0.17                             | mg/kg    | <0.0025                            | <0.0025                            | <0.0025                            | <0.0025                             | <0.0025                             | <0.0025                             |
| Toluene                 | 85                               | mg/kg    | <0.025                             | <0.025                             | <0.025                             | <0.025                              | <0.025                              | <0.025                              |
| Ethylbenzene            | 100                              | mg/kg    | <0.0025                            | <0.0025                            | <0.0025                            | <0.0025                             | <0.0025                             | <0.0025                             |
| Total Xylenes           | 175                              | mg/kg    | <0.0075                            | <0.0075                            | <0.0075                            | <0.0075                             | <0.0075                             | <0.0075                             |
| Acenaphthene            | 1000                             | mg/kg    | 0.048                              | 0.016                              | 0.040                              | 0.020                               | 0.029                               | 0.038                               |
| Anthracene              | 1000                             | mg/kg    | 0.087                              | 0.022                              | 0.047                              | 0.027                               | 0.040                               | 0.050                               |
| Benzo(A)anthracene      | 0.22                             | mg/kg    | <0.0060                            | <0.0060                            | <0.012                             | <0.0060                             | <0.012                              | <0.0060                             |
| Benzo(B)fluoranthene    | 0.22                             | mg/kg    | <0.0060                            | <0.0060                            | <0.012                             | <0.0060                             | <0.012                              | <0.0060                             |
| Benzo(K)fluoranthene    | 2.2                              | mg/kg    | <0.0060                            | <0.0060                            | <0.012                             | <0.0060                             | <0.012                              | <0.0060                             |
| Benzo(A)pyrene          | 0.022                            | mg/kg    | <0.0060                            | <0.0060                            | <0.012                             | <0.0060                             | <0.012                              | <0.0060                             |
| Chrysene                | 22                               | mg/kg    | 0.0089                             | <0.0060                            | <0.012                             | <0.0060                             | <0.012                              | <0.0060                             |
| Dibenzo(A,H)anthracene  | 0.022                            | mg/kg    | <0.0060                            | <0.0060                            | <0.012                             | <0.0060                             | <0.012                              | <0.0060                             |
| Fluoranthene            | 1000                             | mg/kg    | 0.0096                             | <0.0060                            | <0.012                             | <0.0060                             | <0.012                              | 0.0065                              |
| Fluorene                | 1000                             | mg/kg    | 0.090                              | 0.025                              | 0.073                              | 0.032                               | 0.040                               | 0.065                               |
| Indeno(1,2,3,C,D)pyrene | 0.22                             | mg/kg    | <0.0060                            | <0.0060                            | <0.012                             | <0.0060                             | <0.012                              | <0.0060                             |
| Naphthalene             | 23                               | mg/kg    | 0.11                               | 0.053                              | 0.19                               | 0.058                               | 0.068                               | 0.084                               |
| Pyrene                  | 1000                             | mg/kg    | 0.076                              | 0.021                              | 0.043                              | 0.029                               | 0.041                               | 0.050                               |

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TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO