



Figure 1
Site Location Map
Loustalet 42-15
SENE S15 T5N R64W
Weld County, Colorado

Drawn By: DBA
Date: 11/21/2013



Note: Surface drainage direction is estimated based on site topography and is not related to regional topography.

Scale: 1 inch equals 36 feet

DRAWN BY: CAW
DATE: 11/20/2013

Facility Diagram
PDC Energy – DJ Basin
Loustalet 42-15
SENE S15 T5N R64W
Weld County, CO



6899 Pecos Street
Unit C
Denver, CO 80221

LEGEND

- Former Vault Location
- Earthen Berm
- X Soil Sample Location



Meter House

FIGURE 2
SAMPLE LOCATION
MAP
Not to Scale

TABLE 1
LOUSTALET 42-15
SOIL ANALYTICAL RESULTS SUMMARY TABLE

| Sample ID | Date Sampled | Depth (Feet bgs) | PID Readings (ppm) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Naphthalene (mg/kg) | TPH ⁽²⁾ (mg/kg) |
|--|--------------|------------------|--------------------|-----------------|-----------------|----------------------|-----------------------|---------------------|----------------------------|
| SS01 | 11/11/2013 | 6 | 0 | <0.002 | <0.005 | <0.005 | <0.010 | <0.010 | <50 |
| COGCC standards for soil (mg/kg) ⁽¹⁾ | | | | 0.17 | 85 | 100 | 175 | 23 | 500 |

Notes:

1). Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 1, 2009.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

GRO - Gasoline range organics DRO - Diesel range organics

mg/kg - Milligrams per kilogram bgs - Below ground surface

ppm - Parts per million

Bold red values indicate an exceedance of the COGCC soil standards for the Site.

ATTACHMENT A

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 12, 2013

Brandon Bruns
PDC Energy
1775 Sherman St. STE. 3000
Denver, CO 80203
RE: Loustalet 42-15

Enclosed are the results of analyses for samples received by Summit Scientific on 11/11/13 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury
President / Laboratory Manager



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Loustalet 42-15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/12/13 20:46

SS01@6
R311065-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/11/13 11:30

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 3111114 | 11/11/13 | 11/11/13 | 8015M | |

Date Sampled: 11/11/13 11:30

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: <i>o</i> -Terphenyl | | 107 % | 30-150 | | " | " | " | " | |

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/11/13 11:30

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Naphthalene | ND | 0.010 | mg/kg | 1 | 3111113 | 11/11/13 | 11/11/13 | EPA 8260B | |
| Benzene | ND | 0.0020 | " | " | " | " | " | " | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: 11/11/13 11:30

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 99.4 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 99.1 % | 21-167 | | " | " | " | " | |

Summit Scientific

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PDC Energy
 1775 Sherman St. STE. 3000
 Denver CO, 80203

Project: Loustalet 42-15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 11/12/13 20:46

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 3111114 - EPA 3550A

Blank (3111114-BLK1)

Prepared & Analyzed: 11/11/13

C10-C28 (DRO) ND 50 mg/kg

LCS (3111114-BS1)

Prepared & Analyzed: 11/11/13

C10-C28 (DRO) 512 50 mg/kg 501 102 73-134

Matrix Spike (3111114-MS1)

Source: R311062-01

Prepared & Analyzed: 11/11/13

C10-C28 (DRO) 521 50 mg/kg 467 20.3 107 50-148

Matrix Spike Dup (3111114-MSD1)

Source: R311062-01

Prepared: 11/11/13 Analyzed: 11/12/13

C10-C28 (DRO) 470 50 mg/kg 461 20.3 97.4 50-148 10.3 13

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Denver CO, 80203

Project: Loustalet 42-15

Project Number: [none]
Project Manager: Brandon Brunns

Reported:
11/12/13 20:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 311113 - EPA 5030 Soil MS

Blank (311113-BLK1)

Prepared & Analyzed: 11/11/13

| | | | | | | | | | | |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|
| Naphthalene | ND | 0.010 | mg/kg | | | | | | | |
| Benzene | ND | 0.0020 | " | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0419</i> | | <i>"</i> | <i>0.0397</i> | | <i>105</i> | <i>23-173</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0394</i> | | <i>"</i> | <i>0.0400</i> | | <i>98.5</i> | <i>20-170</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0411</i> | | <i>"</i> | <i>0.0400</i> | | <i>103</i> | <i>21-167</i> | | | |

LCS (311113-BS1)

Prepared & Analyzed: 11/11/13

| | | | | | | | | | | |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|
| Naphthalene | ND | 0.010 | mg/kg | | | | 66-138 | | | |
| Benzene | 0.0914 | 0.0020 | " | 0.100 | | 91.4 | 58-130 | | | |
| Toluene | 0.106 | 0.0050 | " | 0.100 | | 106 | 61-134 | | | |
| Ethylbenzene | 0.129 | 0.0050 | " | 0.100 | | 129 | 74-139 | | | |
| m,p-Xylene | 0.243 | 0.010 | " | 0.200 | | 122 | 73-137 | | | |
| o-Xylene | 0.119 | 0.0050 | " | 0.100 | | 119 | 73-141 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0424</i> | | <i>"</i> | <i>0.0397</i> | | <i>107</i> | <i>23-173</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0398</i> | | <i>"</i> | <i>0.0400</i> | | <i>99.5</i> | <i>20-170</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0403</i> | | <i>"</i> | <i>0.0400</i> | | <i>101</i> | <i>21-167</i> | | | |

Matrix Spike (311113-MS1)

Source: R311062-01

Prepared & Analyzed: 11/11/13

| | | | | | | | | | | |
|---|---------------|--------|----------|---------------|----|-------------|---------------|--|--|--|
| Naphthalene | ND | 0.010 | mg/kg | | ND | | 10-158 | | | |
| Benzene | 0.0846 | 0.0020 | " | 0.0933 | ND | 90.7 | 30-131 | | | |
| Toluene | 0.0982 | 0.0050 | " | 0.0933 | ND | 105 | 30-134 | | | |
| Ethylbenzene | 0.120 | 0.0050 | " | 0.0933 | ND | 129 | 22-153 | | | |
| m,p-Xylene | 0.226 | 0.010 | " | 0.187 | ND | 121 | 10-159 | | | |
| o-Xylene | 0.112 | 0.0050 | " | 0.0933 | ND | 120 | 31-151 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0414</i> | | <i>"</i> | <i>0.0370</i> | | <i>112</i> | <i>23-173</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0372</i> | | <i>"</i> | <i>0.0373</i> | | <i>99.8</i> | <i>20-170</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0372</i> | | <i>"</i> | <i>0.0373</i> | | <i>99.6</i> | <i>21-167</i> | | | |

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PDC Energy
 1775 Sherman St. STE. 3000
 Denver CO, 80203

Project: Loustalet 42-15

Project Number: [none]
 Project Manager: Brandon Brunns

Reported:
 11/12/13 20:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 3111113 - EPA 5030 Soil MS

Matrix Spike Dup (3111113-MSD1)

Source: R311062-01

Prepared & Analyzed: 11/11/13

| | | | | | | | | | |
|---|---------------|--------|----------|---------------|----|-------------|---------------|------|----|
| Naphthalene | ND | 0.010 | mg/kg | ND | ND | 10-158 | | 42 | |
| Benzene | 0.0816 | 0.0020 | " | 0.0898 | ND | 90.9 | 30-131 | 3.61 | 34 |
| Toluene | 0.0947 | 0.0050 | " | 0.0898 | ND | 105 | 30-134 | 3.67 | 30 |
| Ethylbenzene | 0.117 | 0.0050 | " | 0.0898 | ND | 130 | 22-153 | 3.24 | 24 |
| m,p-Xylene | 0.220 | 0.010 | " | 0.180 | ND | 123 | 10-159 | 2.80 | 68 |
| o-Xylene | 0.108 | 0.0050 | " | 0.0898 | ND | 120 | 31-151 | 3.82 | 38 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0388</i> | | <i>"</i> | <i>0.0356</i> | | <i>109</i> | <i>23-173</i> | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0356</i> | | <i>"</i> | <i>0.0359</i> | | <i>99.2</i> | <i>20-170</i> | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0357</i> | | <i>"</i> | <i>0.0359</i> | | <i>99.5</i> | <i>21-167</i> | | |

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Project: Loustalet 42-15

Project Number: [none]
Project Manager: Brandon Bruns

Reported:
11/12/13 20:46

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference