

Mr. Bill Dougherty
Field Supervisor
NADEL & GUSSMAN PERMIAN, LLC
2408 Freeman Avenue
Artesia, New Mexico 88210

January 4, 2016

Ms. Heather Patterson
NEW MEXICO OIL CONSERVATION DIVISION
District 2
811 South First Street
Artesia, New Mexico 88210

Ms. Amber Groves
NEW MEXICO STATE LAND OFFICE
Hobbs District
2827 N. Dal Paso Street
Suite No. 117
Hobbs, New Mexico 88240

Re: Aid State No.10 Corrective Action Plan/ Final Remediation Report
U/L G 13-17S-28E 1650' FNL 2310' FEL, Eddy County, New Mexico
API No. 30-015-38462

Dear Ms.'s Patterson and Groves:

Nadel & Gussman Permian, LLC (NGP) herewith submits its Corrective Action Plan (CAP) and Final Remediation Report (FRR) in one document for the unauthorized, hydrocarbon and produced water discharge, caused by a manway gasket leak from the heater treater located on the Aid State No. 10 at approximately 1300 Hrs. on July 30, 2015. Ms. Patterson of the New Mexico Oil Conservation Division (NMOCD) in Eddy County, New Mexico was notified at approximately 1400 Hrs. of the overspray onto state lands by NGP's company official. The New Mexico State Land Office was notified approximately 24 hours later of the discharge predicated on an overspray scenario, which was treated with Microblaze, rather than excavation of the impacted soils and plants. The application rate is unknown.

In October 2015, a down gradient accumulation of the contaminants was found in the sandy soils, extending approximately 120' west of the heater treater with a horizontal contaminant range of approximately 150' north and 150' south of the heater treater, resulting in a 2' - 3.5' contamination depth. However, approximately, seventy-five percent of the contaminant footprint ranged in depth from 1" to 3", primarily dependent upon the retention time moving westerly along the significantly wide, downhill gradient. The absorption rate, mainly from the overspray, running north and south along the well pad, produced a fairly uniform contamination pattern, since retention times were generally uniform and the gradient areas immediately adjacent to the pad were less steep with thin soils. Additionally, soil in the impounded areas contained pebbles and small rocks which were embedded in either a sandy-loamy mix or a blow sand composition, resulting in a high permeability

soils, which allowed rapid movement of the contamination into deeper soil layers.

Following from the July 30th scenario, NGP called for a vacuum truck to begin sucking up the fluid contained within the 20ml HDPE lined, bermed area, surrounding the heater treater resulting in the recovery of 72 bbls of oil. However, due to extremely high winds that day, (sustained around 35mph, gusting to 50mph), the discharged fluids contained within the walls of the berm had provided a wave-like surface from which the wind obtained access to them, continuing to move hydrocarbon particles in the form of a running discharge toward the west. The resultant accumulation of contaminant fluids was not identified as anything other than, a very light, surface footprint. The blowing sand and other airborne particles obscured any down gradient footprint to the degree that in October 2015, when the second set of samples were taken, it was barely noticeable.

A pilot sample was again taken on October 26th to confirm whether or not additional excavation would be needed and to what depth, once NGP realized the overspray also had a potential collection area, birthed by a depression in the sand, allowing the topographic relief of the area to address its diversity, creating a shape, almost like two large bowls. Therein, the remaining contaminant was located and later excavated. The October 28th sampling, more accurately delineated the existing conditions and depth of the contamination, which then became the directive to complete the project.

The most significant accumulation was approximately 150' down gradient from the pad. Although the entire affected area was excavated, the majority of the contaminated soil was removed from the lowest elevation. Approximately 144 yards of contaminated material was removed and hauled to R360 for disposal. New samples were obtained to verify the area was remediated to NMOCD regulatory standards (see enclosed), such that NGP could commence with backfilling and seeding. The NMOCD and the NMSLO were consulted, shown the laboratory analytical results and photos. Ms. Groves came to the location to verify the infield operations as reported by NGP. NGP then backfilled a total of 9 loads of clean fill obtained from a local caliche pit, returning the footprint area to its topographical elevation commensurate with the surrounding terrain.

The Bureau of Land Management (BLM) Seed Mix No. 2 was applied and disked into the soil. The New Mexico State Land Office was contacted prior to ordering the seed mix. NGP was requested to notify Ms. Groves prior to application of the seed such that she could witness the event. Unfortunately, the seed mix was accidentally applied without Ms. Groves presence, due to a communication glitch. It is estimated it will take 2 to 5 years before diverse, indigenous speciation occurs, predicated on annual rainfall and temperatures.

Enclosed are all sample analyticals, pertinent photos, initial and final C141's

Please call should you have questions.

Regards,

A handwritten signature in black ink, appearing to read "Bill Dougherty". The signature is fluid and cursive, with a large, stylized "B" and "D".

Bill Dougherty
Field Supervisor

AID STATE #10
NOT TO SCALE

✦ -CONTAMINATED SITE
✦ -REMEDIED

Google earth











Summary Report

Bill Dougherty
Nadel & Gussman Permian LLC
601 N. Marienfeld
Suite 508
Midland, TX 79701

Report Date: August 14, 2015

Work Order: 15081026



Project Location: Artesia, NM
Project Name: Aid State #10
Project Number: 8/5/15

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 401668 | 1 | soil | 2015-08-05 | 10:00 | 2015-08-10 |
| 401669 | 2 | soil | 2015-08-05 | 10:00 | 2015-08-10 |
| 401670 | 3 | soil | 2015-08-05 | 10:00 | 2015-08-10 |
| 401671 | 4 | soil | 2015-08-05 | 10:00 | 2015-08-10 |
| 401672 | 5 | soil | 2015-08-05 | 10:00 | 2015-08-10 |

| Sample - Field Code | BTEX | | | | MTBE | TPH DRO | TPH GRO |
|---------------------|---------------------------|--------------------|-------------------------|-------------------|-----------------|---------------------------|---------------------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | MTBE (mg/Kg) | DRO (mg/Kg) | GRO (mg/Kg) |
| 401668 - 1 | <0.100 ¹ | <0.100 | <0.100 | <0.100 | <0.100 | 2570 _B | 20.8 _{Qr} |
| 401669 - 2 | <0.400 ² | 1.52 | 5.17 | 15.6 | <0.400 | 12900 _B | 732 _{Qr} |
| 401670 - 3 | <0.400 ³ | 0.870 | 3.19 | 10.1 | <0.400 | 31600 _B | 303 _{Qr} |
| 401671 - 4 | <0.400 ⁴ | <0.400 | <0.400 | 0.551 | <0.400 | 2240 _B | <80.0 _{Qr} |
| 401672 - 5 | 0.772 ⁵ | 13.6 | 17.2 | 30.9 | <0.400 | 30200 _B | 1150 _{Qr} |

Sample: 401668 - 1

| Param | Flag | Result | Units | RL |
|----------|------|-------------|-------|----|
| Chloride | | 2230 | mg/Kg | 50 |

Sample: 401669 - 2

¹Sample dilution due to hydrocarbons.²Sample dilution due to hydrocarbons.³Sample dilution due to hydrocarbons.⁴Sample dilution due to hydrocarbons.⁵Sample dilution due to hydrocarbons.

| Param | Flag | Result | Units | RL |
|----------|------|-------------|-------|----|
| Chloride | | 2620 | mg/Kg | 50 |

Sample: 401670 - 3

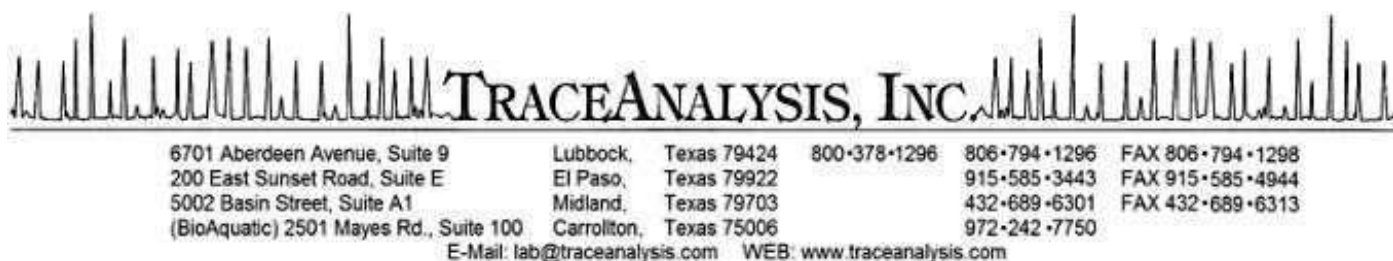
| Param | Flag | Result | Units | RL |
|----------|------|-------------|-------|----|
| Chloride | | 2430 | mg/Kg | 50 |

Sample: 401671 - 4

| Param | Flag | Result | Units | RL |
|----------|------|--------------|-------|----|
| Chloride | | 10400 | mg/Kg | 50 |

Sample: 401672 - 5

| Param | Flag | Result | Units | RL |
|----------|------|-------------|-------|----|
| Chloride | | 2330 | mg/Kg | 50 |



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Bill Dougherty
Nadel & Gussman Permian LLC
601 N. Marienfeld
Suite 508
Midland, TX, 79701

Report Date: August 14, 2015

Work Order: 15081026



Project Location: Artesia, NM
Project Name: Aid State #10
Project Number: 8/5/15

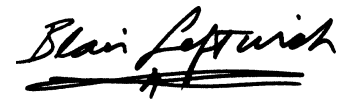
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 401668 | 1 | soil | 2015-08-05 | 10:00 | 2015-08-10 |
| 401669 | 2 | soil | 2015-08-05 | 10:00 | 2015-08-10 |
| 401670 | 3 | soil | 2015-08-05 | 10:00 | 2015-08-10 |
| 401671 | 4 | soil | 2015-08-05 | 10:00 | 2015-08-10 |
| 401672 | 5 | soil | 2015-08-05 | 10:00 | 2015-08-10 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal stroke at the end.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

| | |
|--|-----------|
| Case Narrative | 4 |
| Analytical Report | 5 |
| Sample 401668 (1) | 5 |
| Sample 401669 (2) | 6 |
| Sample 401670 (3) | 7 |
| Sample 401671 (4) | 9 |
| Sample 401672 (5) | 10 |
| Method Blanks | 12 |
| QC Batch 123977 - Method Blank (1) | 12 |
| QC Batch 123997 - Method Blank (1) | 12 |
| QC Batch 124015 - Method Blank (1) | 12 |
| QC Batch 124016 - Method Blank (1) | 13 |
| Laboratory Control Spikes | 14 |
| QC Batch 123977 - LCS (1) | 14 |
| QC Batch 123997 - LCS (1) | 14 |
| QC Batch 124015 - LCS (1) | 14 |
| QC Batch 124016 - LCS (1) | 15 |
| Matrix Spikes | 17 |
| QC Batch 123977 - MS (1) | 17 |
| QC Batch 123997 - MS (1) | 17 |
| QC Batch 124015 - MS (1) | 17 |
| QC Batch 124016 - MS (1) | 18 |
| Calibration Standards | 20 |
| QC Batch 123977 - CCV (1) | 20 |
| QC Batch 123977 - CCV (2) | 20 |
| QC Batch 123997 - ICV (1) | 20 |
| QC Batch 123997 - CCV (1) | 20 |
| QC Batch 124015 - CCV (1) | 20 |
| QC Batch 124015 - CCV (2) | 21 |
| QC Batch 124016 - CCV (1) | 21 |
| QC Batch 124016 - CCV (2) | 21 |
| Appendix | 23 |
| Report Definitions | 23 |
| Laboratory Certifications | 23 |
| Standard Flags | 23 |
| Result Comments | 24 |
| Attachments | 24 |

Case Narrative

Samples for project Aid State #10 were received by TraceAnalysis, Inc. on 2015-08-10 and assigned to work order 15081026. Samples for work order 15081026 were received intact at a temperature of 17.5 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|--------------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 104852 | 2015-08-13 at 14:12 | 124015 | 2015-08-13 at 14:12 |
| Chloride (Titration) | SM 4500-Cl B | 104837 | 2015-08-13 at 11:48 | 123997 | 2015-08-13 at 11:49 |
| MTBE | S 8021B | 104852 | 2015-08-13 at 14:12 | 124015 | 2015-08-13 at 14:12 |
| TPH DRO | S 8015 D | 104822 | 2015-08-13 at 09:08 | 123977 | 2015-08-13 at 09:13 |
| TPH GRO | S 8015 D | 104852 | 2015-08-13 at 14:12 | 124016 | 2015-08-13 at 14:12 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15081026 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 5 of 24
Artesia, NM

Analytical Report

Sample: 401668 - 1

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124015
Prep Batch: 104852

Analytical Method: S 8021B
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| MTBE | U | 1,3,4,5 | <0.100 | mg/Kg | 5 | 0.0200 |
| Benzene | U | 1,2,3,4,5 | <0.100 | mg/Kg | 5 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.100 | mg/Kg | 5 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.100 | mg/Kg | 5 | 0.0200 |
| Xylene | U | 1,2,3,4,5 | <0.100 | mg/Kg | 5 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 1.75 | mg/Kg | 5 | 2.00 | 88 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 1.72 | mg/Kg | 5 | 2.00 | 86 | 67.9 - 120 |

Sample: 401668 - 1

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 2230 | mg/Kg | 5 | 50.0 |

Sample: 401668 - 1

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 123977
Prep Batch: 104822

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | B | 1,2,3,4 | 2570 | mg/Kg | 5 | 50.0 |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 6 of 24
Artesia, NM

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|-------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 3 | 165 | mg/Kg | 5 | 25.0 | 660 | 48.9 - 172 |

Sample: 401668 - 1

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 124016
Prep Batch: 104852

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------------|---------|-----------|-------|----------|------|
| GRO | Q _r | 1,2,3,4 | 20.8 | mg/Kg | 5 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.58 | mg/Kg | 5 | 2.00 | 79 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 2.08 | mg/Kg | 5 | 2.00 | 104 | 68.4 - 120 |

Sample: 401669 - 2

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124015
Prep Batch: 104852

Analytical Method: S 8021B
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL | | | | |
|--------------|------|---------|-----------|--------|----------|--------|--------|
| | | | Result | Units | Dilution | RL | |
| MTBE | U | 1,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 | |
| Benzene | 2 | U | 1,2,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 |
| Toluene | | | 1,2,3,4,5 | 1.52 | mg/Kg | 20 | 0.0200 |
| Ethylbenzene | | | 1,2,3,4,5 | 5.17 | mg/Kg | 20 | 0.0200 |
| Xylene | | | 1,2,3,4,5 | 15.6 | mg/Kg | 20 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| Trifluorotoluene (TFT) | | 5 | 1.96 | mg/Kg | 20 | 2.00 | 98 | 65.6 - 125 | |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 5 | 4.84 | mg/Kg | 20 | 2.00 | 242 | 67.9 - 120 |

Sample: 401669 - 2

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 7 of 24
Artesia, NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 2620 | mg/Kg | 5 | 50.0 |

Sample: 401669 - 2

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 123977
Prep Batch: 104822

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | B | 1,2,3,4 | 12900 | mg/Kg | 5 | 50.0 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 3 | 408 | mg/Kg | 5 | 25.0 | 1632 | 48.9 - 172 |

Sample: 401669 - 2

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 124016
Prep Batch: 104852

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------------|---------|--------------|-------|----------|------|
| GRO | Q _r | 1,2,3,4 | 732 | mg/Kg | 20 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| Trifluorotoluene (TFT) | | 3 | 1.62 | mg/Kg | 20 | 2.00 | 81 | 76.5 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 3 | 20.4 | mg/Kg | 20 | 2.00 | 1020 | 68.4 - 120 |

Sample: 401670 - 3

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124015
Prep Batch: 104852

Analytical Method: S 8021B
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 8 of 24
Artesia, NM

| Parameter | Flag | Cert | RL | | | | |
|--------------|------|-----------|--------------|--------|----------|--------|--------|
| | | | Result | Units | Dilution | RL | |
| MTBE | U | 1,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 | |
| Benzene | 3 | U | 1,2,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 |
| Toluene | | 1,2,3,4,5 | 0.870 | mg/Kg | 20 | 0.0200 | |
| Ethylbenzene | | 1,2,3,4,5 | 3.19 | mg/Kg | 20 | 0.0200 | |
| Xylene | | 1,2,3,4,5 | 10.1 | mg/Kg | 20 | 0.0200 | |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 5 | 3.23 | mg/Kg | 20 | 2.00 | 162 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 5 | 2.70 | mg/Kg | 20 | 2.00 | 135 | 67.9 - 120 |

Sample: 401670 - 3

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 2430 | mg/Kg | 5 | 50.0 |

Sample: 401670 - 3

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 123977
Prep Batch: 104822

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | B | 1,2,3,4 | 31600 | mg/Kg | 10 | 50.0 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 3 | 1120 | mg/Kg | 10 | 25.0 | 4480 | 48.9 - 172 |

Sample: 401670 - 3

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 124016
Prep Batch: 104852

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 9 of 24
Artesia, NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| GRO | Qr | 1,2,3,4 | 303 | mg/Kg | 20 | 4.00 |

| Surrogate | Flag | | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 3 | 1.64 | mg/Kg | 20 | 2.00 | 82 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 3 | 8.89 | mg/Kg | 20 | 2.00 | 444 | 68.4 - 120 |

Sample: 401671 - 4

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124015
Prep Batch: 104852

Analytical Method: S 8021B
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| MTBE | U | 1,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 |
| Benzene | U | 1,2,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 |
| Toluene | U | 1,2,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 |
| Ethylbenzene | U | 1,2,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 |
| Xylene | | 1,2,3,4,5 | 0.551 | mg/Kg | 20 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 5 | 2.42 | mg/Kg | 20 | 2.00 | 121 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 2.13 | mg/Kg | 20 | 2.00 | 106 | 67.9 - 120 |

Sample: 401671 - 4

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 10400 | mg/Kg | 5 | 50.0 |

Sample: 401671 - 4

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 123977
Prep Batch: 104822

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 10 of 24
Artesia, NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | B | 1,2,3,4 | 2240 | mg/Kg | 1 | 50.0 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 3 | 94.3 | mg/Kg | 1 | 25.0 | 377 | 48.9 - 172 |

Sample: 401671 - 4

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 124016
Prep Batch: 104852

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------------|---------|--------------|-------|----------|------|
| GRO | Q _r | 1,2,3,4 | <80.0 | mg/Kg | 20 | 4.00 |

| Surrogate | Flag | | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 3 | 2.16 | mg/Kg | 20 | 2.00 | 108 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 3 | 3.82 | mg/Kg | 20 | 2.00 | 191 | 68.4 - 120 |

Sample: 401672 - 5

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 124015
Prep Batch: 104852

Analytical Method: S 8021B
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|-----------|--------------|-------|----------|--------|
| MTBE | U | 1,3,4,5 | <0.400 | mg/Kg | 20 | 0.0200 |
| Benzene | 5 | 1,2,3,4,5 | 0.772 | mg/Kg | 20 | 0.0200 |
| Toluene | | 1,2,3,4,5 | 13.6 | mg/Kg | 20 | 0.0200 |
| Ethylbenzene | | 1,2,3,4,5 | 17.2 | mg/Kg | 20 | 0.0200 |
| Xylene | | 1,2,3,4,5 | 30.9 | mg/Kg | 20 | 0.0200 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | Q _{sr} | Q _{sr} | 5 | 2.65 | mg/Kg | 20 | 2.00 | 132 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 5 | 4.32 | mg/Kg | 20 | 2.00 | 216 | 67.9 - 120 |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 11 of 24
Artesia, NM

Sample: 401672 - 5

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 2330 | mg/Kg | 5 | 50.0 |

Sample: 401672 - 5

Laboratory: Lubbock
Analysis: TPH DRO
QC Batch: 123977
Prep Batch: 104822

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation:

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|---------|--------------|-------|----------|------|
| DRO | B | 1,2,3,4 | 30200 | mg/Kg | 5 | 50.0 |

| Surrogate | | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 3 | 1240 | mg/Kg | 5 | 25.0 | 4960 | 48.9 - 172 |

Sample: 401672 - 5

Laboratory: Lubbock
Analysis: TPH GRO
QC Batch: 124016
Prep Batch: 104852

Analytical Method: S 8015 D
Date Analyzed: 2015-08-13
Sample Preparation: 2015-08-13

Prep Method: S 5035
Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------------|---------|--------------|-------|----------|------|
| GRO | Q _r | 1,2,3,4 | 1150 | mg/Kg | 20 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits | |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|------------|
| Trifluorotoluene (TFT) | | 3 | 1.54 | mg/Kg | 20 | 2.00 | 77 | 76.5 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 3 | 32.7 | mg/Kg | 20 | 2.00 | 1635 | 68.4 - 120 |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 12 of 24
Artesia, NM

Method Blanks

Method Blank (1) QC Batch: 123977

QC Batch: 123977 Date Analyzed: 2015-08-13 Analyzed By: HJ
Prep Batch: 104822 QC Preparation: 2015-08-13 Prepared By: HJ

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| DRO | B | B | 16.2 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 3 | 30.3 | mg/Kg | 1 | 25.0 | 121 | 48.9 - 172 |

Method Blank (1) QC Batch: 123997

QC Batch: 123997 Date Analyzed: Analyzed By:
Prep Batch: QC Preparation: Prepared By:

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | 1 | <31.4 | mg/Kg | 50 |

Method Blank (1) QC Batch: 124015

QC Batch: 124015 Date Analyzed: 2015-08-13 Analyzed By: MT
Prep Batch: 104852 QC Preparation: 2015-08-13 Prepared By: MT

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|-----------|---------------|-------|------|
| MTBE | | 1,3,4,5 | <0.00852 | mg/Kg | 0.02 |
| Benzene | | 1,2,3,4,5 | <0.00444 | mg/Kg | 0.02 |
| Toluene | | 1,2,3,4,5 | <0.00457 | mg/Kg | 0.02 |
| Ethylbenzene | | 1,2,3,4,5 | <0.00762 | mg/Kg | 0.02 |
| Xylene | | 1,2,3,4,5 | <0.00367 | mg/Kg | 0.02 |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 13 of 24
Artesia, NM

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 5 | 2.02 | mg/Kg | 1 | 2.00 | 101 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | | 5 | 2.06 | mg/Kg | 1 | 2.00 | 103 | 67.9 - 120 |

Method Blank (1) QC Batch: 124016

QC Batch: 124016
Prep Batch: 104852

Date Analyzed: 2015-08-13
QC Preparation: 2015-08-13

Analyzed By: MT
Prepared By: MT

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|---------|------------|-------|----|
| GRO | | 1,2,3,4 | <0.641 | mg/Kg | 4 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | 3 | 1.90 | mg/Kg | 1 | 2.00 | 95 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 3 | 1.94 | mg/Kg | 1 | 2.00 | 97 | 68.4 - 120 |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 14 of 24
Artesia, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 123977
Prep Batch: 104822

Date Analyzed: 2015-08-13
QC Preparation: 2015-08-13

Analyzed By: HJ
Prepared By: HJ

| Param | F | | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | B | B | 1,2,3,4 | 532 | mg/Kg | 1 | 500 | 16.2 | 103 | 60.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | | | LCSD | | Dil. | Spike | Matrix | Rec. | | RPD | |
|-------|---|---|---------|--------|-------|------|--------|--------|------|------------|-----|-------|
| | F | C | | Result | Units | | Amount | Result | Rec. | Limit | RPD | Limit |
| DRO | B | B | 1,2,3,4 | 482 | mg/Kg | 1 | 500 | 16.2 | 93 | 60.9 - 130 | 10 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | 3 | 33.2 | 30.7 | mg/Kg | 1 | 25.0 | 133 | 123 | 48.9 - 172 |

Laboratory Control Spike (LCS-1)

QC Batch: 123997
Prep Batch:

Date Analyzed:
QC Preparation:

Analyzed By:
Prepared By:

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 2380 | mg/Kg | 5 | 2500 | <157 | 95 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 2380 | mg/Kg | 5 | 2500 | <157 | 95 | 85 - 115 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 15 of 24
Artesia, NM

Laboratory Control Spike (LCS-1)

QC Batch: 124015
Prep Batch: 104852

Date Analyzed: 2015-08-13
QC Preparation: 2015-08-13

Analyzed By: MT
Prepared By: MT

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|
| MTBE | | 1,3,4,5 | 2.07 | mg/Kg | 1 | 2.00 | <0.00852 | 104 | 73.6 - 120 |
| Benzene | | 1,2,3,4,5 | 1.90 | mg/Kg | 1 | 2.00 | <0.00444 | 95 | 71.4 - 120 |
| Toluene | | 1,2,3,4,5 | 1.90 | mg/Kg | 1 | 2.00 | <0.00457 | 95 | 71.8 - 120 |
| Ethylbenzene | | 1,2,3,4,5 | 1.88 | mg/Kg | 1 | 2.00 | <0.00762 | 94 | 71.1 - 120 |
| Xylene | | 1,2,3,4,5 | 5.52 | mg/Kg | 1 | 6.00 | <0.00367 | 92 | 72.5 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE | | 1,3,4,5 | 2.11 | mg/Kg | 1 | 2.00 | <0.00852 | 106 | 73.6 - 120 | 2 | 20 |
| Benzene | | 1,2,3,4,5 | 1.95 | mg/Kg | 1 | 2.00 | <0.00444 | 98 | 71.4 - 120 | 3 | 20 |
| Toluene | | 1,2,3,4,5 | 1.96 | mg/Kg | 1 | 2.00 | <0.00457 | 98 | 71.8 - 120 | 3 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 1.94 | mg/Kg | 1 | 2.00 | <0.00762 | 97 | 71.1 - 120 | 3 | 20 |
| Xylene | | 1,2,3,4,5 | 5.70 | mg/Kg | 1 | 6.00 | <0.00367 | 95 | 72.5 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 5 | 1.81 | 1.88 | mg/Kg | 1 | 2.00 | 90 | 94 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | 5 | 1.90 | 1.93 | mg/Kg | 1 | 2.00 | 95 | 96 | 67.9 - 120 |

Laboratory Control Spike (LCS-1)

QC Batch: 124016
Prep Batch: 104852

Date Analyzed: 2015-08-13
QC Preparation: 2015-08-13

Analyzed By: MT
Prepared By: MT

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1,2,3,4 | 15.9 | mg/Kg | 1 | 20.0 | <0.641 | 80 | 60.3 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1,2,3,4 | 16.1 | mg/Kg | 1 | 20.0 | <0.641 | 80 | 60.3 - 120 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 16 of 24
Artesia, NM

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 3 | 1.71 | 1.71 | mg/Kg | 1 | 2.00 | 86 | 86 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 3 | 1.97 | 2.02 | mg/Kg | 1 | 2.00 | 98 | 101 | 68.4 - 120 |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 17 of 24
Artesia, NM

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 401356

QC Batch: 123977
Prep Batch: 104822

Date Analyzed: 2015-08-13
QC Preparation: 2015-08-13

Analyzed By: HJ
Prepared By: HJ

| Param | F | | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO | B | B | 1,2,3,4 | 746 | mg/Kg | 1 | 500 | 265 | 96 | 47.9 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | | MSD | | | Spike | Matrix | Rec. | | RPD | | |
|-------|---|---|---------|-------|-------|--------|--------|------|-------|------------|-------|----|
| | F | C | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit | |
| DRO | B | B | 1,2,3,4 | 748 | mg/Kg | 1 | 500 | 265 | 97 | 47.9 - 130 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| | | MS | MSD | | | Spike | MS | MSD | Rec. |
|-------------|---|--------|--------|-------|------|--------|------|------|------------|
| Surrogate | | Result | Result | Units | Dil. | Amount | Rec. | Rec. | Limit |
| n-Tricosane | 3 | 168 | 172 | mg/Kg | 1 | 150 | 112 | 115 | 48.9 - 172 |

Matrix Spike (MS-1) Spiked Sample: 401672

QC Batch: 123997
Prep Batch:

Date Analyzed:
QC Preparation:

Analyzed By:
Prepared By:

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 4600 | mg/Kg | 5 | 2500 | 2330 | 91 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 4700 | mg/Kg | 5 | 2500 | 2330 | 95 | 80 - 120 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 18 of 24
Artesia, NM

Matrix Spike (MS-1) Spiked Sample: 401350

QC Batch: 124015
Prep Batch: 104852

Date Analyzed: 2015-08-13
QC Preparation: 2015-08-13

Analyzed By: MT
Prepared By: MT

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|-----------|--------------|-------|------|-----------------|------------------|------|---------------|
| MTBE | | 1,3,4,5 | 2.54 | mg/Kg | 5 | 2.00 | <0.0426 | 127 | 62.5 - 154 |
| Benzene | | 1,2,3,4,5 | 1.73 | mg/Kg | 5 | 2.00 | <0.0222 | 86 | 63.9 - 132 |
| Toluene | | 1,2,3,4,5 | 1.79 | mg/Kg | 5 | 2.00 | 0.064 | 86 | 64 - 141 |
| Ethylbenzene | | 1,2,3,4,5 | 1.91 | mg/Kg | 5 | 2.00 | <0.0381 | 96 | 66.7 - 148 |
| Xylene | | 1,2,3,4,5 | 7.08 | mg/Kg | 5 | 6.00 | 1.23 | 98 | 63.6 - 145 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|-----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| MTBE | | 1,3,4,5 | 2.11 | mg/Kg | 5 | 2.00 | <0.0426 | 106 | 62.5 - 154 | 18 | 20 |
| Benzene | | 1,2,3,4,5 | 1.66 | mg/Kg | 5 | 2.00 | <0.0222 | 83 | 63.9 - 132 | 4 | 20 |
| Toluene | | 1,2,3,4,5 | 1.78 | mg/Kg | 5 | 2.00 | 0.064 | 86 | 64 - 141 | 1 | 20 |
| Ethylbenzene | | 1,2,3,4,5 | 1.87 | mg/Kg | 5 | 2.00 | <0.0381 | 94 | 66.7 - 148 | 2 | 20 |
| Xylene | | 1,2,3,4,5 | 7.09 | mg/Kg | 5 | 6.00 | 1.23 | 98 | 63.6 - 145 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------------|-------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | | 5 | 1.76 | 1.70 | mg/Kg | 5 | 2 | 88 | 85 | 65.6 - 125 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} 5 | 2.61 | 2.59 | mg/Kg | 5 | 2 | 130 | 130 | 67.9 - 120 |

Matrix Spike (MS-1) Spiked Sample: 401840

QC Batch: 124016
Prep Batch: 104852

Date Analyzed: 2015-08-13
QC Preparation: 2015-08-13

Analyzed By: MT
Prepared By: MT

| | MS | | | | | Spike | Matrix | Rec. | | |
|-------|----------------|----------------|---------|-------|-------|--------|--------|------|-------|----------|
| Param | F | C | Result | Units | Dil. | Amount | Result | Rec. | Limit | |
| GRO | Q _s | Q _s | 1,2,3,4 | 857 | mg/Kg | 10 | 20.0 | 378 | 2395 | 25 - 139 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---------------------------------|---------------------------------|---------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | Q _r , Q _s | Q _r , Q _s | 1,2,3,4 | 1080 | mg/Kg | 10 | 20.0 | 378 | 3510 | 25 - 139 | 23 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--|--|--|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | | | | 2.81 | 3.14 | mg/Kg | 10 | 2 | 140 | 157 | 76.5 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | | 25.3 | 31.1 | mg/Kg | 10 | 2 | 1265 | 1555 | 68.4 - 120 |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 20 of 24
Artesia, NM

Calibration Standards

Standard (CCV-1)

QC Batch: 123977

Date Analyzed: 2015-08-13

Analyzed By: HJ

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1,2,3,4 | mg/Kg | 500 | 485 | 97 | 80 - 120 | 2015-08-13 |

Standard (CCV-2)

QC Batch: 123977

Date Analyzed: 2015-08-13

Analyzed By: HJ

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1,2,3,4 | mg/Kg | 500 | 482 | 96 | 80 - 120 | 2015-08-13 |

Standard (ICV-1)

QC Batch: 123997

Date Analyzed:

Analyzed By:

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2015-08-13 |

Standard (CCV-1)

QC Batch: 123997

Date Analyzed:

Analyzed By:

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2015-08-13 |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 21 of 24
Artesia, NM

Standard (CCV-1)

QC Batch: 124015

Date Analyzed: 2015-08-13

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | | 1,3,4,5 | mg/Kg | 0.100 | 0.103 | 103 | 80 - 120 | 2015-08-13 |
| Benzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0968 | 97 | 80 - 120 | 2015-08-13 |
| Toluene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0956 | 96 | 80 - 120 | 2015-08-13 |
| Ethylbenzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0956 | 96 | 80 - 120 | 2015-08-13 |
| Xylene | | 1,2,3,4,5 | mg/kg | 0.300 | 0.280 | 93 | 80 - 120 | 2015-08-13 |

Standard (CCV-2)

QC Batch: 124015

Date Analyzed: 2015-08-13

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-----------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE | | 1,3,4,5 | mg/Kg | 0.100 | 0.0960 | 96 | 80 - 120 | 2015-08-13 |
| Benzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0888 | 89 | 80 - 120 | 2015-08-13 |
| Toluene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0875 | 88 | 80 - 120 | 2015-08-13 |
| Ethylbenzene | | 1,2,3,4,5 | mg/kg | 0.100 | 0.0857 | 86 | 80 - 120 | 2015-08-13 |
| Xylene | | 1,2,3,4,5 | mg/kg | 0.300 | 0.252 | 84 | 80 - 120 | 2015-08-13 |

Standard (CCV-1)

QC Batch: 124016

Date Analyzed: 2015-08-13

Analyzed By: MT

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.979 | 98 | 80 - 120 | 2015-08-13 |

Standard (CCV-2)

QC Batch: 124016

Date Analyzed: 2015-08-13

Analyzed By: MT

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 22 of 24
Artesia, NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1,2,3,4 | mg/Kg | 1.00 | 0.987 | 99 | 80 - 120 | 2015-08-13 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | L-A-B | L2418 | Lubbock |
| 2 | Kansas | Kansas E-10317 | Lubbock |
| 3 | LELAP | LELAP-02003 | Lubbock |
| 4 | NELAP | T104704219-15-11 | Lubbock |
| 5 | | 2014-018 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |

Report Date: August 14, 2015
8/5/15

Work Order: 15081026
Aid State #10

Page Number: 24 of 24
Artesia, NM

| F | Description |
|---|-------------|
|---|-------------|

| | |
|---|---|
| U | The analyte is not detected above the SDL |
|---|---|

Result Comments

- 1 Sample dilution due to hydrocarbons.
- 2 Sample dilution due to hydrocarbons.
- 3 Sample dilution due to hydrocarbons.
- 4 Sample dilution due to hydrocarbons.
- 5 Sample dilution due to hydrocarbons.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

Summary Report

Bill Dougherty
Nadel & Gussman Permian LLC
601 N. Marienfeld
Suite 508
Midland, TX 79701

Report Date: December 1, 2015

Work Order: 15112036



Project Name: Aide State No. 10
Project Number: HT Discharge

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------------|--------|------------|------------|---------------|
| 408815 | N Side Area 2.5' | soil | 2015-11-19 | 10:50 | 2015-11-20 |
| 408816 | W Side Bowl Area 1' | soil | 2015-11-19 | 10:55 | 2015-11-20 |
| 408817 | E Side Bowl Area 2.5' | soil | 2015-11-19 | 11:00 | 2015-11-20 |
| 408818 | S Side Comp 2.5' | soil | 2015-11-19 | 12:15 | 2015-11-20 |
| 408819 | Background | soil | 2015-11-19 | 12:00 | 2015-11-20 |

| Sample - Field Code | BTEX | | | | TPH DRO | TPH GRO |
|--------------------------------|--------------------|--------------------|-------------------------|-------------------|----------------|----------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | DRO (mg/Kg) | GRO (mg/Kg) |
| 408815 - N Side Area 2.5' | <0.0200 | <0.0200 | <0.0200 | <0.0200 Qr | <50.0 B | <4.00 |
| 408816 - W Side Bowl Area 1' | <0.0200 | <0.0200 | <0.0200 | <0.0200 Qr | <50.0 B | <4.00 |
| 408817 - E Side Bowl Area 2.5' | <0.0200 | <0.0200 | <0.0200 | <0.0200 Qr | <50.0 B | <4.00 |
| 408818 - S Side Comp 2.5' | <0.0200 | <0.0200 | <0.0200 | <0.0200 Qr | <50.0 B | <4.00 |
| 408819 - Background | <0.0200 | <0.0200 | <0.0200 | <0.0200 Qr | <50.0 B | <4.00 |

Sample: 408815 - N Side Area 2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 290 | mg/Kg | 50 |

Sample: 408816 - W Side Bowl Area 1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <250 | mg/Kg | 50 |

Sample: 408817 - E Side Bowl Area 2.5'

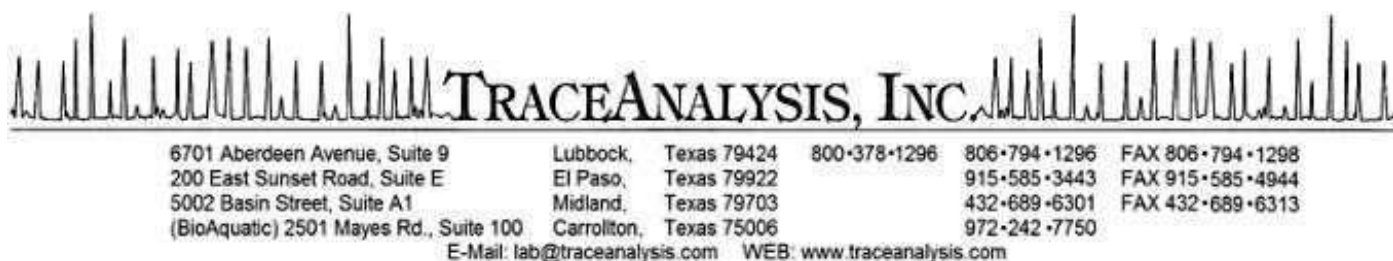
| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <250 | mg/Kg | 50 |

Sample: 408818 - S Side Comp 2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <250 | mg/Kg | 50 |

Sample: 408819 - Background

| Param | Flag | Result | Units | RL |
|----------|------|------------|-------|----|
| Chloride | | 290 | mg/Kg | 50 |



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Bill Dougherty
Nadel & Gussman Permian LLC
601 N. Marienfeld
Suite 508
Midland, TX, 79701

Report Date: December 1, 2015

Work Order: 15112036



Project Name: Aide State No. 10
Project Number: HT Discharge

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------------|--------|------------|------------|---------------|
| 408815 | N Side Area 2.5' | soil | 2015-11-19 | 10:50 | 2015-11-20 |
| 408816 | W Side Bowl Area 1' | soil | 2015-11-19 | 10:55 | 2015-11-20 |
| 408817 | E Side Bowl Area 2.5' | soil | 2015-11-19 | 11:00 | 2015-11-20 |
| 408818 | S Side Comp 2.5' | soil | 2015-11-19 | 12:15 | 2015-11-20 |
| 408819 | Background | soil | 2015-11-19 | 12:00 | 2015-11-20 |

Notes

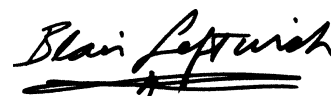
• **Work Order 15112036:** Email results to: jmartin@naguss.com; bdougherty@naguss.com; spresley@naguss.com; cmwink@mac.com

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a horizontal line underneath.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

| | |
|---|-----------|
| Case Narrative | 4 |
| Analytical Report | 5 |
| Sample 408815 (N Side Area 2.5') | 5 |
| Sample 408816 (W Side Bowl Area 1') | 6 |
| Sample 408817 (E Side Bowl Area 2.5') | 7 |
| Sample 408818 (S Side Comp 2.5') | 9 |
| Sample 408819 (Background) | 10 |
| Method Blanks | 13 |
| QC Batch 126548 - Method Blank (1) | 13 |
| QC Batch 126618 - Method Blank (1) | 13 |
| QC Batch 126619 - Method Blank (1) | 13 |
| QC Batch 126675 - Method Blank (1) | 14 |
| Laboratory Control Spikes | 15 |
| QC Batch 126548 - LCS (1) | 15 |
| QC Batch 126618 - LCS (1) | 15 |
| QC Batch 126619 - LCS (1) | 16 |
| QC Batch 126675 - LCS (1) | 16 |
| Matrix Spikes | 18 |
| QC Batch 126548 - MS (1) | 18 |
| QC Batch 126618 - MS (1) | 18 |
| QC Batch 126619 - MS (1) | 19 |
| QC Batch 126675 - MS (1) | 19 |
| Calibration Standards | 21 |
| QC Batch 126548 - ICV (1) | 21 |
| QC Batch 126548 - CCV (1) | 21 |
| QC Batch 126618 - CCV (1) | 21 |
| QC Batch 126618 - CCV (2) | 21 |
| QC Batch 126618 - CCV (3) | 22 |
| QC Batch 126619 - CCV (1) | 22 |
| QC Batch 126619 - CCV (2) | 22 |
| QC Batch 126619 - CCV (3) | 22 |
| QC Batch 126675 - CCV (1) | 23 |
| QC Batch 126675 - CCV (2) | 23 |
| Appendix | 24 |
| Report Definitions | 24 |
| Laboratory Certifications | 24 |
| Standard Flags | 24 |
| Attachments | 24 |

Case Narrative

Samples for project Aide State No. 10 were received by TraceAnalysis, Inc. on 2015-11-20 and assigned to work order 15112036. Samples for work order 15112036 were received intact at a temperature of 23.3 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|--------------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 107086 | 2015-11-23 at 11:10 | 126618 | 2015-11-24 at 08:48 |
| Chloride (Titration) | SM 4500-Cl B | 107085 | 2015-11-23 at 10:15 | 126548 | 2015-11-23 at 11:04 |
| TPH DRO | S 8015 D | 107193 | 2015-11-30 at 15:23 | 126675 | 2015-11-30 at 15:32 |
| TPH GRO | S 8015 D | 107086 | 2015-11-23 at 11:10 | 126619 | 2015-11-25 at 09:10 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15112036 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 5 of 25

Analytical Report

Sample: 408815 - N Side Area 2.5'

Laboratory: Midland
Analysis: BTEX
QC Batch: 126618
Prep Batch: 107086

Analytical Method: S 8021B
Date Analyzed: 2015-11-24
Sample Preparation: 2015-11-23

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.76 | mg/Kg | 1 | 2.00 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.64 | mg/Kg | 1 | 2.00 | 82 | 70 - 130 |

Sample: 408815 - N Side Area 2.5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 126548
Prep Batch: 107085

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-11-23
Sample Preparation: 2015-11-23

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 290 | mg/Kg | 5 | 50.0 |

Sample: 408815 - N Side Area 2.5'

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 126675
Prep Batch: 107193

Analytical Method: S 8015 D
Date Analyzed: 2015-11-30
Sample Preparation: 2015-11-30

Prep Method: N/A
Analyzed By: JL
Prepared By: JL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | B,Jb | 1 | <50.0 | mg/Kg | 1 | 50.0 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 6 of 25

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | Q _{sr} | Q _{sr} | 72.7 | mg/Kg | 1 | 50.0 | 145 | 70 - 130 |

Sample: 408815 - N Side Area 2.5'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 126619
Prep Batch: 107086

Analytical Method: S 8015 D
Date Analyzed: 2015-11-25
Sample Preparation: 2015-11-23

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|-----------|-------|----------|------|
| GRO | U | 1 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.90 | mg/Kg | 1 | 2.00 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.68 | mg/Kg | 1 | 2.00 | 84 | 70 - 130 |

Sample: 408816 - W Side Bowl Area 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 126618
Prep Batch: 107086

Analytical Method: S 8021B
Date Analyzed: 2015-11-24
Sample Preparation: 2015-11-23

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|--------------------|------|-----------|-------|----------|--------|
| Benzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Q _r , U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.73 | mg/Kg | 1 | 2.00 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.69 | mg/Kg | 1 | 2.00 | 84 | 70 - 130 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 7 of 25

Sample: 408816 - W Side Bowl Area 1'

| | | | |
|-------------|----------------------|---------------------|--------------|
| Laboratory: | Midland | | |
| Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B |
| QC Batch: | 126548 | Date Analyzed: | 2015-11-23 |
| Prep Batch: | 107085 | Sample Preparation: | 2015-11-23 |
| | | Prep Method: | N/A |
| | | Analyzed By: | AM |
| | | Prepared By: | AM |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | u | | <250 | mg/Kg | 5 | 50.0 |

Sample: 408816 - W Side Bowl Area 1'

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Midland | | |
| Analysis: | TPH DRO | Analytical Method: | S 8015 D |
| QC Batch: | 126675 | Date Analyzed: | 2015-11-30 |
| Prep Batch: | 107193 | Sample Preparation: | 2015-11-30 |
| | | Prep Method: | N/A |
| | | Analyzed By: | JL |
| | | Prepared By: | JL |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | B,U | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 61.8 | mg/Kg | 1 | 50.0 | 124 | 70 - 130 |

Sample: 408816 - W Side Bowl Area 1'

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Midland | | |
| Analysis: | TPH GRO | Analytical Method: | S 8015 D |
| QC Batch: | 126619 | Date Analyzed: | 2015-11-25 |
| Prep Batch: | 107086 | Sample Preparation: | 2015-11-23 |
| | | Prep Method: | S 5035 |
| | | Analyzed By: | AK |
| | | Prepared By: | AK |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | u | 1 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.88 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.71 | mg/Kg | 1 | 2.00 | 86 | 70 - 130 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 8 of 25

Sample: 408817 - E Side Bowl Area 2.5'

Laboratory: Midland

Analysis: BTEX

QC Batch: 126618

Prep Batch: 107086

Analytical Method: S 8021B

Date Analyzed: 2015-11-24

Sample Preparation: 2015-11-23

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.63 | mg/Kg | 1 | 2.00 | 82 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.65 | mg/Kg | 1 | 2.00 | 82 | 70 - 130 |

Sample: 408817 - E Side Bowl Area 2.5'

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 126548

Prep Batch: 107085

Analytical Method: SM 4500-Cl B

Date Analyzed: 2015-11-23

Sample Preparation: 2015-11-23

Prep Method: N/A

Analyzed By: AM

Prepared By: AM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | U | | <250 | mg/Kg | 5 | 50.0 |

Sample: 408817 - E Side Bowl Area 2.5'

Laboratory: Midland

Analysis: TPH DRO

QC Batch: 126675

Prep Batch: 107193

Analytical Method: S 8015 D

Date Analyzed: 2015-11-30

Sample Preparation: 2015-11-30

Prep Method: N/A

Analyzed By: JL

Prepared By: JL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | B,Jb | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 49.1 | mg/Kg | 1 | 50.0 | 98 | 70 - 130 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 9 of 25

Sample: 408817 - E Side Bowl Area 2.5'

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Midland | | |
| Analysis: | TPH GRO | Analytical Method: | S 8015 D |
| QC Batch: | 126619 | Date Analyzed: | 2015-11-25 |
| Prep Batch: | 107086 | Sample Preparation: | 2015-11-23 |
| | | Prep Method: | S 5035 |
| | | Analyzed By: | AK |
| | | Prepared By: | AK |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 1 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.82 | mg/Kg | 1 | 2.00 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.67 | mg/Kg | 1 | 2.00 | 84 | 70 - 130 |

Sample: 408818 - S Side Comp 2.5'

| | | | |
|-------------|---------|---------------------|------------|
| Laboratory: | Midland | | |
| Analysis: | BTEX | Analytical Method: | S 8021B |
| QC Batch: | 126618 | Date Analyzed: | 2015-11-24 |
| Prep Batch: | 107086 | Sample Preparation: | 2015-11-23 |
| | | Prep Method: | S 5035 |
| | | Analyzed By: | AK |
| | | Prepared By: | AK |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.65 | mg/Kg | 1 | 2.00 | 82 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.73 | mg/Kg | 1 | 2.00 | 86 | 70 - 130 |

Sample: 408818 - S Side Comp 2.5'

| | | | |
|-------------|----------------------|---------------------|--------------|
| Laboratory: | Midland | | |
| Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B |
| QC Batch: | 126548 | Date Analyzed: | 2015-11-23 |
| Prep Batch: | 107085 | Sample Preparation: | 2015-11-23 |
| | | Prep Method: | N/A |
| | | Analyzed By: | AM |
| | | Prepared By: | AM |

continued ...

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 10 of 25

sample 408818 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
| Chloride | U | | <250 | mg/Kg | 5 | 50.0 |

Sample: 408818 - S Side Comp 2.5'

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | | | | |
| Analysis: | TPH DRO | Analytical Method: | S 8015 D | Prep Method: | N/A |
| QC Batch: | 126675 | Date Analyzed: | 2015-11-30 | Analyzed By: | JL |
| Prep Batch: | 107193 | Sample Preparation: | 2015-11-30 | Prepared By: | JL |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | B,Jb | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qsr | Qsr | 67.2 | mg/Kg | 1 | 50.0 | 134 | 70 - 130 |

Sample: 408818 - S Side Comp 2.5'

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | | | | |
| Analysis: | TPH GRO | Analytical Method: | S 8015 D | Prep Method: | S 5035 |
| QC Batch: | 126619 | Date Analyzed: | 2015-11-25 | Analyzed By: | AK |
| Prep Batch: | 107086 | Sample Preparation: | 2015-11-23 | Prepared By: | AK |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 1 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.90 | mg/Kg | 1 | 2.00 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.79 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 11 of 25

Sample: 408819 - Background

Laboratory: Midland

Analysis: BTEX

QC Batch: 126618

Prep Batch: 107086

Analytical Method: S 8021B

Date Analyzed: 2015-11-24

Sample Preparation: 2015-11-23

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qr,U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.65 | mg/Kg | 1 | 2.00 | 82 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.64 | mg/Kg | 1 | 2.00 | 82 | 70 - 130 |

Sample: 408819 - Background

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 126548

Prep Batch: 107085

Analytical Method: SM 4500-Cl B

Date Analyzed: 2015-11-23

Sample Preparation: 2015-11-23

Prep Method: N/A

Analyzed By: AM

Prepared By: AM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | | 290 | mg/Kg | 5 | 50.0 |

Sample: 408819 - Background

Laboratory: Midland

Analysis: TPH DRO

QC Batch: 126675

Prep Batch: 107193

Analytical Method: S 8015 D

Date Analyzed: 2015-11-30

Sample Preparation: 2015-11-30

Prep Method: N/A

Analyzed By: JL

Prepared By: JL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | B,Jb | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qsr | Qsr | 80.0 | mg/Kg | 1 | 50.0 | 160 | 70 - 130 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 12 of 25

Sample: 408819 - Background

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 126619
Prep Batch: 107086

Analytical Method: S 8015 D
Date Analyzed: 2015-11-25
Sample Preparation: 2015-11-23

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 1 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.85 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.66 | mg/Kg | 1 | 2.00 | 83 | 70 - 130 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 13 of 25

Method Blanks

Method Blank (1) QC Batch: 126548

QC Batch: 126548 Date Analyzed: 2015-11-23 Analyzed By: AM
Prep Batch: 107085 QC Preparation: 2015-11-23 Prepared By: AM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| Chloride | | | <31.9 | mg/Kg | 50 |

Method Blank (1) QC Batch: 126618

QC Batch: 126618 Date Analyzed: 2015-11-24 Analyzed By: AK
Prep Batch: 107086 QC Preparation: 2015-11-23 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|---------------|-------|------|
| Benzene | | 1 | <0.00533 | mg/Kg | 0.02 |
| Toluene | | 1 | <0.00645 | mg/Kg | 0.02 |
| Ethylbenzene | | 1 | <0.0116 | mg/Kg | 0.02 |
| Xylene | | 1 | <0.00874 | mg/Kg | 0.02 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.94 | mg/Kg | 1 | 2.00 | 97 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.75 | mg/Kg | 1 | 2.00 | 88 | 70 - 130 |

Method Blank (1) QC Batch: 126619

QC Batch: 126619 Date Analyzed: 2015-11-25 Analyzed By: AK
Prep Batch: 107086 QC Preparation: 2015-11-23 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| GRO | | 1 | <2.32 | mg/Kg | 4 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 14 of 25

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 2.06 | mg/Kg | 1 | 2.00 | 103 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.83 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |

Method Blank (1) QC Batch: 126675

QC Batch: 126675
Prep Batch: 107193

Date Analyzed: 2015-11-30
QC Preparation: 2015-11-30

Analyzed By: JL
Prepared By: JL

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| DRO | B | B | 10.8 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 47.4 | mg/Kg | 1 | 50.0 | 95 | 70 - 130 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 126548
Prep Batch: 107085

Date Analyzed: 2015-11-23
QC Preparation: 2015-11-23

Analyzed By: AM
Prepared By: AM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2420 | mg/Kg | 5 | 2500 | <160 | 97 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2420 | mg/Kg | 5 | 2500 | <160 | 97 | 85 - 115 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 126618
Prep Batch: 107086

Date Analyzed: 2015-11-24
QC Preparation: 2015-11-23

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1 | 1.89 | mg/Kg | 1 | 2.00 | <0.00533 | 94 | 70 - 130 |
| Toluene | | 1 | 1.98 | mg/Kg | 1 | 2.00 | <0.00645 | 99 | 70 - 130 |
| Ethylbenzene | | 1 | 2.07 | mg/Kg | 1 | 2.00 | <0.0116 | 104 | 70 - 130 |
| Xylene | | 1 | 6.08 | mg/Kg | 1 | 6.00 | <0.00874 | 101 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1 | 1.94 | mg/Kg | 1 | 2.00 | <0.00533 | 97 | 70 - 130 | 3 | 20 |
| Toluene | | 1 | 2.02 | mg/Kg | 1 | 2.00 | <0.00645 | 101 | 70 - 130 | 2 | 20 |
| Ethylbenzene | | 1 | 2.10 | mg/Kg | 1 | 2.00 | <0.0116 | 105 | 70 - 130 | 1 | 20 |
| Xylene | | 1 | 6.25 | mg/Kg | 1 | 6.00 | <0.00874 | 104 | 70 - 130 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 16 of 25

control spikes continued ...

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
| Trifluorotoluene (TFT) | 1.65 | 1.74 | mg/Kg | 1 | 2.00 | 82 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.67 | 1.74 | mg/Kg | 1 | 2.00 | 84 | 87 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 126619
Prep Batch: 107086

Date Analyzed: 2015-11-25
QC Preparation: 2015-11-23

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1 | 21.4 | mg/Kg | 1 | 20.0 | <2.32 | 107 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1 | 20.3 | mg/Kg | 1 | 20.0 | <2.32 | 102 | 70 - 130 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| Trifluorotoluene (TFT) | 1.98 | 1.92 | mg/Kg | 1 | 2.00 | 99 | 96 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.81 | 1.77 | mg/Kg | 1 | 2.00 | 90 | 88 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 126675
Prep Batch: 107193

Date Analyzed: 2015-11-30
QC Preparation: 2015-11-30

Analyzed By: JL
Prepared By: JL

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1 | 269 | mg/Kg | 1 | 250 | 10.8 | 103 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 17 of 25

control spikes continued . . .

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| DRO | | 1 | 269 | mg/Kg | 1 | 250 | 10.8 | 103 | 70 - 130 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| n-Tricosane | 52.6 | 52.4 | mg/Kg | 1 | 50.0 | 105 | 105 | 70 - 130 |

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 408831

QC Batch: 126548
Prep Batch: 107085

Date Analyzed: 2015-11-23
QC Preparation: 2015-11-23

Analyzed By: AM
Prepared By: AM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2420 | mg/Kg | 5 | 2500 | <160 | 97 | 78.9 - 121 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2420 | mg/Kg | 5 | 2500 | <160 | 97 | 78.9 - 121 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 408552

QC Batch: 126618
Prep Batch: 107086

Date Analyzed: 2015-11-24
QC Preparation: 2015-11-23

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1 | 1.69 | mg/Kg | 2 | 2.00 | <0.0107 | 84 | 70 - 130 |
| Toluene | | 1 | 1.88 | mg/Kg | 2 | 2.00 | <0.0129 | 94 | 70 - 130 |
| Ethylbenzene | | 1 | 2.14 | mg/Kg | 2 | 2.00 | <0.0232 | 107 | 70 - 130 |
| Xylene | | 1 | 4.46 | mg/Kg | 2 | 6.00 | <0.0175 | 74 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | | MSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|--------------|----------------|----------------|--------|-------|-------|-----------------|------------------|---------|---------------|----------|--------------|----|
| | F | C | Result | Units | | | | | | | | |
| Benzene | | | 1 | 1.59 | mg/Kg | 2 | 2.00 | <0.0107 | 80 | 70 - 130 | 6 | 20 |
| Toluene | | | 1 | 1.77 | mg/Kg | 2 | 2.00 | <0.0129 | 88 | 70 - 130 | 6 | 20 |
| Ethylbenzene | | | 1 | 2.07 | mg/Kg | 2 | 2.00 | <0.0232 | 104 | 70 - 130 | 3 | 20 |
| Xylene | Q _r | Q _r | 1 | 5.99 | mg/Kg | 2 | 6.00 | <0.0175 | 100 | 70 - 130 | 29 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 19 of 25

matrix spikes continued ...

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
| Trifluorotoluene (TFT) | 3.43 | 3.18 | mg/Kg | 2 | 4 | 86 | 80 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 3.61 | 3.26 | mg/Kg | 2 | 4 | 90 | 82 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 408552

QC Batch: 126619
Prep Batch: 107086

Date Analyzed: 2015-11-25
QC Preparation: 2015-11-23

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 1 | 30.1 | mg/Kg | 2 | 20.0 | 7.79 | 112 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 1 | 31.3 | mg/Kg | 2 | 20.0 | 7.79 | 118 | 70 - 130 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 3.52 | 3.34 | mg/Kg | 2 | 4 | 88 | 84 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 3.67 | 3.56 | mg/Kg | 2 | 4 | 92 | 89 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 408831

QC Batch: 126675
Prep Batch: 107193

Date Analyzed: 2015-11-30
QC Preparation: 2015-11-30

Analyzed By: JL
Prepared By: JL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 1 | 320 | mg/Kg | 1 | 250 | 8.09 | 125 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 20 of 25

matrix spikes continued ...

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| DRO | | 1 | 313 | mg/Kg | 1 | 250 | 8.09 | 122 | 70 - 130 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|-------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| n-Tricosane | 56.7 | 59.1 | mg/Kg | 1 | 50 | 113 | 118 | 70 - 130 |

Calibration Standards

Standard (ICV-1)

QC Batch: 126548

Date Analyzed: 2015-11-23

Analyzed By: AM

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 101 | 101 | 85 - 115 | 2015-11-23 |

Standard (CCV-1)

QC Batch: 126548

Date Analyzed: 2015-11-23

Analyzed By: AM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 99.0 | 99 | 85 - 115 | 2015-11-23 |

Standard (CCV-1)

QC Batch: 126618

Date Analyzed: 2015-11-24

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/kg | 0.100 | 0.0938 | 94 | 80 - 120 | 2015-11-24 |
| Toluene | | 1 | mg/kg | 0.100 | 0.101 | 101 | 80 - 120 | 2015-11-24 |
| Ethylbenzene | | 1 | mg/kg | 0.100 | 0.103 | 103 | 80 - 120 | 2015-11-24 |
| Xylene | | 1 | mg/kg | 0.300 | 0.306 | 102 | 80 - 120 | 2015-11-24 |

Standard (CCV-2)

QC Batch: 126618

Date Analyzed: 2015-11-24

Analyzed By: AK

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 22 of 25

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/kg | 0.100 | 0.0957 | 96 | 80 - 120 | 2015-11-24 |
| Toluene | | 1 | mg/kg | 0.100 | 0.101 | 101 | 80 - 120 | 2015-11-24 |
| Ethylbenzene | | 1 | mg/kg | 0.100 | 0.100 | 100 | 80 - 120 | 2015-11-24 |
| Xylene | | 1 | mg/kg | 0.300 | 0.299 | 100 | 80 - 120 | 2015-11-24 |

Standard (CCV-3)

QC Batch: 126618

Date Analyzed: 2015-11-24

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/kg | 0.100 | 0.0981 | 98 | 80 - 120 | 2015-11-24 |
| Toluene | | 1 | mg/kg | 0.100 | 0.102 | 102 | 80 - 120 | 2015-11-24 |
| Ethylbenzene | | 1 | mg/kg | 0.100 | 0.103 | 103 | 80 - 120 | 2015-11-24 |
| Xylene | | 1 | mg/kg | 0.300 | 0.308 | 103 | 80 - 120 | 2015-11-24 |

Standard (CCV-1)

QC Batch: 126619

Date Analyzed: 2015-11-25

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 1.10 | 110 | 80 - 120 | 2015-11-25 |

Standard (CCV-2)

QC Batch: 126619

Date Analyzed: 2015-11-25

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 0.923 | 92 | 80 - 120 | 2015-11-25 |

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 23 of 25

Standard (CCV-3)

QC Batch: 126619

Date Analyzed: 2015-11-25

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 1 | mg/Kg | 1.00 | 0.978 | 98 | 80 - 120 | 2015-11-25 |

Standard (CCV-1)

QC Batch: 126675

Date Analyzed: 2015-11-30

Analyzed By: JL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 266 | 106 | 80 - 120 | 2015-11-30 |

Standard (CCV-2)

QC Batch: 126675

Date Analyzed: 2015-11-30

Analyzed By: JL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 254 | 102 | 80 - 120 | 2015-11-30 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704392-14-8 | Midland |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

Report Date: December 1, 2015
HT Discharge

Work Order: 15112036
Aide State No. 10

Page Number: 25 of 25

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1521727876

155615 OPERATOR

☒ Initial Report ☐ Final Report

| | |
|--|----------------------------|
| Name of Company: Nadel and Gussman Permian, LLC | Contact: Bill Dougherty |
| Address: 601 N. Marienfeld, Suite 508, Midland, TX 79707 | Telephone No. 325-998-7107 |
| Facility Name: Aid State #10 | Facility Type: Oil Well |

| | | |
|---------------------------|---------------|----------------------|
| Surface Owner State of NM | Mineral Owner | API No. 30-015-38462 |
|---------------------------|---------------|----------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|------------------|---------------|-----------------------|---------------------------|-----------------------|------------------------|----------------|
| Unit Letter G | Section 13 | Township 17 S | Range 28 E | Feet from the 1650 | North/South Line NORTH | Feet from the 2310 | East/West Line EAST | County EDDY |
|------------------|---------------|------------------|---------------|-----------------------|---------------------------|-----------------------|------------------------|----------------|

Latitude _____ Longitude _____

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release Oil and Water | Volume of Release N/A * | Volume Recovered 71.52 BBLS |
| Source of Release Manway Gasket Leak | Date and Hour of Occurrence 7/30/2015 Early Hours | Date and Hour of Discovery 7/30/2015 1:00 PM MST |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Heather Patterson with the OCD | |
| By Whom? Bill Dougherty | Date and Hour 7/30/2015 2:00 PM MST | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

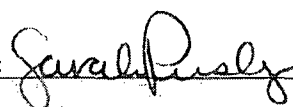
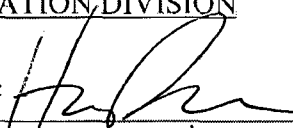
Manway gasket was leaking on the heater treater.
A Double R Vacuum truck arrived on location at 5:15 PM. Sucked up all fluid inside the berm. Bill Dougherty sprayed micro blaze on the vegetation on 7/31/2015.

Describe Area Affected and Cleanup Action Taken.*

Approx. 5.52 bbls of oil and 66 bbls of water were released. A majority of the spill was contained within the berm, except for some oil spray that was carried by the wind.
A double R vacuum truck sucked up all oil inside the berm. Micro Blaze was sprayed onto the vegetation.

We will take a sample of the soil inside and outside of the berm and send the results to Heather Patterson of the OCD. Once we have the sample results a final report will be submitted.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | | |
|--|---|----------------------|
| Signature:  | OIL CONSERVATION DIVISION | |
| Printed Name: Sarah Presley | Approved by Environmental Specialist:  | |
| Title: Regulatory Analyst | Approval Date: 8/5/15 | Expiration Date: N/A |
| E-mail Address: spresley@naguss.com | Conditions of Approval: | |
| Date: 8/4/2015 Phone: 432-682-4429 | Remediation per O.C.D. Rules & Guidelines <input checked="" type="checkbox"/> Attached <input type="checkbox"/> | |

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 8/10/15

* Attach Additional Sheets If Necessary

2RP-3185

Patterson, Heather, EMNRD

From: Sarah Presley <spresley@naguss.com>
Sent: Tuesday, August 04, 2015 3:58 PM
To: Patterson, Heather, EMNRD
Subject: RE: Aid State #10
Attachments: Aid State #10.C-141.08 04 2015.pdf

Heather,

I have attached the C-141 for this spill. Please let me know if you would rather me send in the hard copy.

Thank you for your help!

Sarah Presley

Nadel and Gussman Permian, L.L.C.
601 N. Marienfeld, Suite 508
Midland, TX 79701
Ph: 432-682-4429
Fax: 432-682-4325
spresley@naguss.com

From: Bill Dougherty
Sent: Thursday, July 30, 2015 7:31 PM
To: 'heather.patterson@state.nm.us'
Cc: Bill Dougherty; Joel Martin; Mike McCurdy; Sarah Presley; Jason Hammons; Raven Vasquez
Subject: Aid State #10

Ms. Patterson these are the pictures from the spill on Aid State #10 if you will allow me to I would like to spray micro blaze on the vegetation that has the over spray. I have a sample kit coming from Trace Analysis to collect the samples for testing. I will give you a call first thing in the morning.

Thanks.
Bill Dougherty
Nadel and Gussman
N.M. Field Superintendent
325-998-7107

ENVIRONMENTAL RELEASE NOTIFICATION**Call-In Sheet**Date: 7/30/15Notice received by: HMPName of Company/Phone # Nadel & GussmanFacility Name Air State #10API # 30-015-38462 (nashu)Sec. 13 Township 17B Range 28EDate of Occurrence 7/30/15 (or late 7/29/15)Date/Hour of Discovery 7/30/15 12:00PMType of Release oil & PWVolume of Release unknVolume Recovered unkn

Briefly Describe Cause of Problem and action taken: Heater Treats Manway
Gasket blew. Mostly in lineal containment
Some overspray on pasture (no pooling)
Bill Dougherty / Nadel & Gussman

Notice given by: Name/ Company

Date/Hour Immediate Notice given

Date C-141 received: 8/4/152RP- 3185

FLARE NOTIFICATION**Call-In Sheet**

Date: _____

Notice received by: _____

Name of Company/Phone # _____

Facility Name _____

Date of Occurrence _____

Date/Hour of Flare _____

Type of Release _____

Flared MCF Volume _____

Volume Recovered _____

Briefly Describe Cause of Problem and action taken: _____

_____Notice given by: Name/ Company

Date/Hour Immediate Notice given

Date C-141 received: _____

2RP- _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

| | |
|--|----------------------------|
| Name of Company: Nadel and Gussman Permian, LLC | Contact: Bill Dougherty |
| Address: 601 N. Marienfeld, Suite 508, Midland, TX 79707 | Telephone No. 325-998-7107 |
| Facility Name: Aid State #10 | Facility Type: Oil Well |

| | | |
|---------------------------|---------------|----------------------|
| Surface Owner State of NM | Mineral Owner | API No. 30-015-38462 |
|---------------------------|---------------|----------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|------------------|---------------|-----------------------|---------------------------|-----------------------|------------------------|----------------|
| Unit Letter G | Section 13 | Township 17 S | Range 28 E | Feet from the 1650 | North/South Line NORTH | Feet from the 2310 | East/West Line EAST | County EDDY |
|------------------|---------------|------------------|---------------|-----------------------|---------------------------|-----------------------|------------------------|----------------|

Latitude _____ Longitude _____

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release Oil and Water | Volume of Release N/A | Volume Recovered 71.52 BBLS |
| Source of Release Manway Gasket Leak | Date and Hour of Occurrence 7/30/2015 Early Hours | Date and Hour of Discovery 7/30/2015 1:00 PM MST |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Heather Patterson with the OCD | |
| By Whom? Bill Dougherty | Date and Hour 7/30/2015 2:00 PM MST | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

The manway gasket was leaking on the heater treater. Double R responded to call out for a vacuum truck to suck up the liquid discharge of hydrocarbon and produced water contained within the bermed area surrounding the heat treater. However, high winds prevailed, lifting the discharged particles of this mixture into an airborne situation, transporting them approximately 120' west of the HT and 150' x 150' north and south, respectively. Microblaze was initially used to arrest the deterioration of the impacted plant life but it was determined the salt concentrations were more responsible for killing off the vegetation than the hydrocarbon component sprayed onto the leaves. Therefore the application of Microblaze was discontinued and excavation was determined to be necessary.

Describe Area Affected and Cleanup Action Taken.*

A majority of the spill was contained within the berm. Approx. 6 bbls of oil and 66 bbls of produced water were released. Further investigation revealed an impoundment area had formed approximately 120' down gradient and west of the heater treater. Following a series of sampling events to delineate the contaminant areas, approximately 110 yards of contaminated soil was removed and transported to R360 for disposal. New samples were obtained to verify the area was remediated to NMOCD regulatory standards (see enclosed). NGP obtained clearance from the NMOCD to begin backfilling the excavated area. A total of 9 loads of clean fill obtained from a local caliche pit were hauled to the excavated site, returning the footprint area to its previous topographical elevation commensurate with the surrounding terrain. Seeding was done pursuant to Bureau of Land Management (BLM) Seed Mix No. 2. The New Mexico State Land Office was contacted prior to ordering the seed mixture.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | | | |
|--|---------------------------------------|------------------|-----------------------------------|
| Signature:  | <u>OIL CONSERVATION DIVISION</u> | | |
| Printed Name: Bill Dougherty | Approved by Environmental Specialist: | | |
| Title: NM Field Superintendent | Approval Date: | Expiration Date: | |
| E-mail Address: spresley@naguss.com | Conditions of Approval: | | Attached <input type="checkbox"/> |
| Date: 1/5/2016 | Phone: 432-682-4429 | | |