

Closure Report Cimarex Energy Company: Vega 9 Federal #3 Battery |30-015-36713|2RP-2620|

February 3, 2017

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

Prepared For:

Cimarex Energy Company

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1st Street Artesia, NM 88210

Subject:

Remedial Activities and Closure Report

Cimarex Energy Co.

Vega 9 Federal #3 Battery |30-015-36713|2RP-2620|

Dear Mr. Bratcher,

Cimarex Energy Company (Cimarex) has contracted Talon/LPE (Talon) to perform soil assessment and consultation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Cimarex Vega 9 Fed #3 Battery is located approximately twenty-five (25) miles east of Artesia, New Mexico. The legal location for this facility is Unit Letter E, Section 9, Township 17S South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.849669 North and -103.983445 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Kermit-Berino fine sands with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the 2005 CheveronTexaco Ground Water Trend Map, the ground water in this area is approximately 300-feet below ground surface (BGS). The referenced ground water data is presented in Appendix II. Therefore the ranking for this site is a **0** based on the following:

Depth to ground water >100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for Total Chlorides.

Incident Description and Initial Remedial Actions

On November 18, 2014 the gas supply to the heater treater started leaking and caught fire. The fire caused the sight glass on the heater treater to break causing a release of approximately 10bbls of oil and 20bbls of produced water. All of the fluid was contained within the berms of the heater treater battery. A roustabout crew was mobilized to scrape up the saturated soil at surface. Talon/LPE mobilized personnel to conduct a site assessment and preform soil sampling activities within the battery. The results of our soil sampling activities are summarized in the table below.

Laboratory Results

See Appendix IV for complete report of laboratory results.

| Sample ID | Depth (feet) | BTEX (mg/kg) | Chlorides (mg/kg) | TPH (mg/kg) GRO | TPH (mg/kg) DRO |
|-----------|-----------------|-----------------|----------------------|--------------------|-----------------------|
| S-1 | 0 | ND | 64 | ND | 45 |
| S-1 | 0.5 | ND | 112 | ND | ND |
| S-2 | 0 | ND | 11300 | ND | ND |
| S-2 | 1 | ND | 224 | ND | ND |
| S-2 | 2 | ND | 784 | ND | ND |
| S-3 | 0 | 115 | 12400 | 707 | 2350 |
| S-3 | 1 | 0.465 | 1630 | ND | 30.3 |
| S-3 | 2 | ND | 656 | ND | ND |
| S-4 | 0 | ND | 3520 | ND | ND |
| S-4 | 1 | ND | 32 | ND | ND |
| S-4 | 2 | ND | 288 | ND | ND |
| S-5 | 0 | 255 | 12300 | 1610 | 3610 |
| S-5 | 1 | ND | 336 | ND | ND |
| S-5 | 2 | ND | 928 | ND | ND |

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for Total Chlorides.

Remedial Actions

- The impacted areas in the vicinity of sample locations S-2, S-4, and S-5 were excavated to a depth of 1-foot BGS by a third party construction crew.
- The impacted area within the vicinity of sample location S-3 was excavated to a depth of 2-feet BGS by a third party construction crew.
- All of the excavated soil was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with caliche and gravel.

Closure

On behalf of Cimarex Energy we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

TALON/LPE

Sheldon L. Hitchcock

Project Manager

David J. Adkins District Manager

Attachments

Appendix I Site Plan

Appendix II Groundwater Data

Appendix III Initial C-141 & Final C-141

Appendix IV Laboratory Results

APPENDIX I SITE PLAN

NTS Scale in Feet Legend
- Sample Location Bern Seperators Berm Seperators \$-\text{\$\phi\$} HI S-2 Pump Jack Tank Battery Berm

Vega 9 Fed #1 Battery Cimarex Energy Eddy County, New Mexico Figure 1 - Site Plan

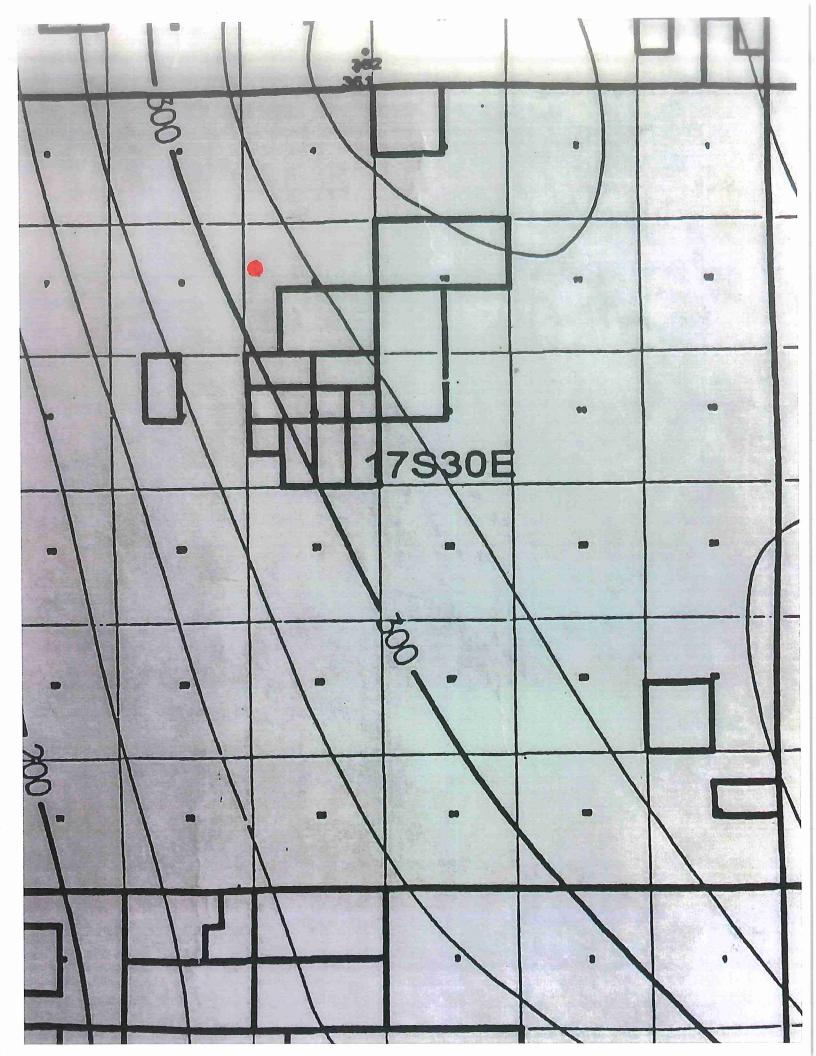


Date: 12/01/2014

Scale: NTS

Drawn By: TJS

APPENDIX II GROUNDWATER DATA



APPENDIX III
INITIAL C-141
&
FINAL C-141

| 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

Form C-141 Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC.

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| Name of Company: Clinarex Burgx Company | | | | | | | | . 4 | | | | | | |
|--|----------------|--------------------------|---|--------------|-----------------------|------------|-------------------------------|---------------------------------------|---------------------------|-----------------------|----------------------------|------------------|---|--|
| Name of Company: Cinsarex Brorgy Company Address: 600 M Marienfold Ste 600 Midland TX Telephone No. 432-853-7059 Facility Name: Vega 9 Fed #3 Battery Surface Owner: BLM Mineral Owner: BLM API No.30-015-36713 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the Geography Red Park Battery Latitude 32.8500404 Longitude 103.9834824 NATURE OF RELEASE Type of Release: Mixed Fluids Volume Of Release: Obbisoli 10bbisr/W Norte of Release: Heater Treater Date and Hour of Occurrence: Int/8/2014 9:00em If YES, Township Release: Heater Treater Was Immediate Notice Given? Yes No Norte of Mice Battery Was a Watercourse Reached? Yes No Date and Hour 11/19/14 12:12am If YES, Volume Impacting the Watercourse. Was a Watercourse was Impacted, Describe Pully.* Describe Cause of Problem and Remedial Action Taken.* The gas supply to the heater treater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in a proximately 30bbis of mixed fluids. The fire was extinguished and the cupilmont was repaired. Describe Area Affected and Cleanup Action Taken.* The gas supply to the heater treater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in a proximately 30bbis of mixed fluids. The fire was extinguished and the cupilmont was repaired. Describe Area Affected and Cleanup Action Taken.* The gas supply to the heater treater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in a proximately 30bbis of mixed fluids. The fire was extinguished and the cupilmont was repaired. Describe Area Affected and Cleanup Action Taken.* The gas supply to the heater treater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in approximately 30bbis of mixed fluids. The fire was extinguished and the cupilmont was repaired within the bourse of the batter | | | | Rele | ease Notific | ation | | | | | | | | |
| Address: 600 N Marienfeld Sto 600 Midland Tx Facility Name: Vega 9 Fed #3 Battery Mineral Owner: BLM | | | | | | | | | |] Initia | l Report | | Final Report | |
| Facility Name: Vega 9 Fed #3 Battery | Name of Co | mpany: Ci | imarex Ener | gy Comp | any | | | | | | | | | |
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| Unit Letter B Section Township Range Feet from the North/South Line Feet from the G60 W East/West Line County Eddy Latitude 32.8500404 Longitude -103.9834824 NATURE OF RELEASE Volume of Release: 20bblsOii Volume Recovered: 0bbls | Surface Own | ner: BLM | | | Mineral C | wner: I | 3LM | | | API No.30-015-36713 | | | | |
| Unit Letter B Section Township Range Feet from the North/South Line Reef from the G60 W | | | | | LOCA | AOTT. | I OF REI | CEASE | | | | | | |
| Latitude 32.8500404 Longitude -103.9834824 NATURE OF RELEASE Type of Release: Mixed Pluids Source of Release: Heater Treater Was Immediate Notice Given? Was Whom? Gloria Garza Date and Hour of Occurrence: 11/18/2014 9:00am Wike Bratcher-NMOCD Sol Hughes-BLM Date and Hour: 11/19/14 12:12am Date and Hour: 11/19/14 12:12am If YBS, Volume Impacting the Watercourse. Was a Watercourse Reached? Yes No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The gas supply to the heater freater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in approximately 30bbls of mixed fluids. The fire was extinguished and the equipment was repaired. Describe Avea Affected and Cleanup Action Taken.* All of the fluid remained within the berns of the battery. Talon/LPE mobilized personnel to conduct a site assessment and soil sampling within the impacted battery. Upon recipit of snatyltical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD) and EBM. Climare contracted a separate construction company to conduct the remediation in accordance with the approved work plan. Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 of the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the | Unit Letter | Section | Township | Range | | | | , | East/We | st Line | | | *************************************** | |
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| Type of Release: Mixed Pluids Volume of Release: 20bblsOil 10bblsPW | | | *************************************** | l | | L | | <u> </u> |] | | | | | |
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| Was Immediate Notice Given? Yes No Not Required If YES, To Whom? Mike Bratcher-NMOCD Sol Hughes-BLM | Source of Re | lease: Heate | er Treater | | | | | | | | | | • | |
| By Whom? Gloria Garza Date and Hour: 11/19/14 12:12am Was a Watercourse Reached? Wes No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The gas supply to the heater treater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in approximately 30bbls of mixed fluids. The fire was extinguished and the equipment was repaired. Describe Area Affected and Cleanup Action Taken.* All of the fluid remained within the berms of the battery. Talon/LPE mobilized personnel to conduct a site assessment and soil sampling within the impacted battery. Upon recipt of analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and BLM. Cimarex contracted a separate construction company to conduct the remediation in accordance with the approved work plan. 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/or "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 Approved by Environmental Specialist: | Was Immedia | ate Notice (| Given? | | | | If YES, To | Whom? | | | | | | |
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| Describe Cause of Problem and Remedial Action Taken.* The gas supply to the heater treater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in approximately 30bbls of mixed fluids. The fire was extinguished and the equipment was repaired. Describe Area Affected and Cleanup Action Taken.* All of the fluid remained within the berms of the battery. Talon/LPE mobilized personnel to conduct a site assessment and soil sampling within the impacted battery. Upon reciept of analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and BLM. Cimarex contracted a separate construction company to conduct the remediation in accordance with the approved work plan. 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 "Pinal 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: | YYAS A WATON | oourio roa | | Yes 🗵 | ₫ No | | | | | | | | | |
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| The gas supply to the heater treater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in approximately 30bbls of mixed fluids. The fire was extinguished and the equipment was repaired. Describe Area Affected and Cleanup Action Taken.* All of the fluid remained within the berms of the battery. Talon/LPE mobilized personnel to conduct a site assessment and soil sampling within the impacted battery. Upon reciept of analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and BLM. Cimarex contracted a separate construction company to conduct the remediation in accordance with the approved work plan. 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: | Tu maiores. | | T | | | | | | | | | | | |
| The gas supply to the heater treater leaked which resulted in a fire. The fire caused the sight glass on the heater treater to break which resulted in approximately 30bbls of mixed fluids. The fire was extinguished and the equipment was repaired. Describe Area Affected and Cleanup Action Taken.* All of the fluid remained within the berms of the battery. Talon/LPE mobilized personnel to conduct a site assessment and soil sampling within the impacted battery. Upon reciept of analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and BLM. Cimarex contracted a separate construction company to conduct the remediation in accordance with the approved work plan. 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: | Describe Co. | as of Duoli | an and Deme | dial Actio | n Taken * | | | | | | | | | |
| Describe Area Affected and Cleanup Action Taken.* All of the fluid remained within the berms of the battery. Talon/LPE mobilized personnel to conduct a site assessment and soil sampling within the impacted battery. Upon reciept of analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and BLM. Cimarex contracted a separate construction company to conduct the remediation in accordance with the approved work plan. 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. OIL CONSERVATION DIVISION Approved by Environmental Specialist: Printed Name: Christine Alderman Approved by Environmental Specialist: | The gas sunn | ly to the he | ater treater le | aked whic | h resulted in a fire | e. The fir | e caused the | sight glass on the | heater tre | ater to br | cak which r | esulted | in | |
| All of the fluid remained within the berms of the battery. Talon/LPE mobilized personnel to conduct a site assessment and son sampling within the impacted battery. Upon reciept of analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and BLM. Cimarex contracted a separate construction company to conduct the remediation in accordance with the approved work plan. 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. OIL CONSERVATION DIVISION Approved by Environmental Specialist: | approximatel | ly 30bbls of | fmixed fluids | . The fire | was extinguished | and the | equipment wa | as repaired. | | | | | | |
| All of the fluid remained within the berms of the battery. Talon/LPE mobilized personnel to conduct a site assessment and son sampling within the impacted battery. Upon reciept of analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and BLM. Cimarex contracted a separate construction company to conduct the remediation in accordance with the approved work plan. 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 "Pinal 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. OIL CONSERVATION DIVISION Approved by Environmental Specialist: | | | | | | | | | | | | | | |
| All of the fluid remained within the berms of the battery. Talon/LPE mobilized personnel to conduct a site assessment and son sampling within the impacted battery. Upon reciept of analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and BLM. Cimarex contracted a separate construction company to conduct the remediation in accordance with the approved work plan. 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. OIL CONSERVATION DIVISION Approved by Environmental Specialist: | Describe Are | a Affected | and Cleanup | Action Ta | ken.* | | | | | | !! | | in tha | |
| 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 "Pinal 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Christine Alderman Approved by Environmental Specialist: | All of the flu | id remained | d within the b | erms of th | c battery. Talon/L | PE mob | ilized person vent a remed | nel to conduct a s istim work plan | nte assessn was drafte | nent and d and sul | son sampun osequently a | g with porove | d by | |
| 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 "Pinal 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Christine Alderman | NMOCD and | tery, Upon 1 BLM. Cir | reciepi oi ana narex contrac | ted a separ | rate construction of | company | to conduct t | he remediation in | accordanc | e with th | e approved | work p | lan. | |
| regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may change public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Pinal 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: | 1 | | | | | | | | | | | | | |
| 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 naturally 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Christine Alderman | 1 | 11 | | to use set o | andlow file contain i | reinace n | ntitications s | and perform corre | crive actio | ns for rei | eases willer | i iiiay c | nuangoi | |
| should their operations have failed to adequately investigate and remediate contamination that pose a tireat to ground water, surface water, inhant near 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Christine Alderman | 1 1. 1 141. | andle and | tuanment Th | a accenten | ree of a C. [4] ren | ort hy th | e NMOCI) n | aarken as "Finai E | ceport ao | es noi rei | teae me obe | antor o | i naomiy | |
| Signature: Out of Conservation Division Signature: Approved by Environmental Specialist: Printed Name: Christine Alderman Approved by Environmental Specialist: | 1 -113 41 | amountiana 1 | have feiled ta | istennahe | v investigate and i | remeatat | e contaminai | ion mat dose a ui | Icai to Kio | una waw | a, buildoo n | ucoi, m | TITIGIT HOUSE | |
| Signature: Christine Alderman Approved by Environmental Specialist: Printed Name: Christine Alderman Approved by Environmental Specialist: | or the enviro | nment. In | addition, NM | OCD acce | ptance of a C-141 | report o | loes not relie | Ae tue oberator or | responsio | inty for t | ompnance | MILLI GE | ly othor | |
| Signature: Christine Alderman Approved by Environmental Specialist: Printed Name: Christine Alderman | reactal, state | , or local la | IMS GROUNT TOB | uiausons. | | T | | OIL CON | ISERVA | TION | DIVISIO | NC | | |
| Printed Name: Christine Alderman Approved by Environmental Specialist: Printed Name: Christine Alderman | | 16000 | tin 1 | Plan |) na a a | | | | | | | • | | |
| Printed Name: Christine Alderman | Signature: | Jun | une o | yaei | Arcw | | 4 4 1 | Duningamantal S | Charlolist | | | | | |
| Touristian Detail | Printed Nam | e: Christine | e Alderman | | | | White of | A PHAROMHORIST | oheeigust: | | | | | |
| Title: BHS Supervisor Approval Date: Expiration Date. | | | | | | | Annuaral D. | nte: | D. | vnlration | Date: | | | |
| <u> </u> | Title: BHS S | Supervisor | | | | | Approvai Da | 110. | P | vhitarion | Date. | | | |
| E-mail Address: calderman@cimarex.com Conditions of Approval: Attached | E-mail Addı | ess; calderi | nan@cimare | c.com | | | Conditions of | of Approval: | | | Attache | d 🔲 | | |
| Date: 2/6/2017 Phone: 432-853-7059 | | | | | 2. 052. 7050 | | | | | | | | | |

^{*} Attach Additional Sheets If Necessary

APPENDIX IV LABORATORY RESULTS



December 02, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VEGA 9 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 11/21/14 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

11/21/2014

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 0' (H403604-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/25/2014 | ND | 1.73 | 86.5 | 2.00 | 6.14 | |
| Toluene* | <0.050 | 0.050 | 11/25/2014 | ND | 1.71 | 85.5 | 2.00 | 6.80 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/25/2014 | ND | 1.71 | 85.3 | 2.00 | 7.55 | |
| Total Xylenes* | <0.150 | 0.150 | 11/25/2014 | ND | 5.19 | 86.4 | 6.00 | 7.82 | |
| Total BTEX | <0.300 | 0.300 | 11/25/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 % | % 61-154 | Ç. | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 11/24/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/24/2014 | ND | 184 | 91.9 | 200 | 4.85 | |
| DRO >C10-C28 | 45.0 | 10.0 | 11/24/2014 | ND | 181 | 90.5 | 200 | 8.98 | |
| Surrogate: 1-Chlorooctane | 127 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 146 | % 52.1-17 | 6 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To:

(575) 745-8905

Received:

11/21/2014

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 0.5' (H403604-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.73 | 86.5 | 2.00 | 6.14 | |
| Toluene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.71 | 85.5 | 2.00 | 6.80 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.71 | 85.3 | 2.00 | 7.55 | |
| Total Xylenes* | <0.150 | 0.150 | 11/26/2014 | ND | 5.19 | 86.4 | 6.00 | 7.82 | |
| Total BTEX | <0.300 | 0.300 | 11/26/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 9 | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 11/24/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 117 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 130 9 | % 52.1-17 | 6 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celeg Ditreme



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/21/2014

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1

Project Number:

NONE GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-2 0' (H403604-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.73 | 86.5 | 2.00 | 6.14 | |
| Toluene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.71 | 85.5 | 2.00 | 6.80 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.71 | 85.3 | 2.00 | 7.55 | |
| Total Xylenes* | <0.150 | 0.150 | 11/26/2014 | ND | 5.19 | 86.4 | 6.00 | 7.82 | |
| Total BTEX | <0.300 | 0.300 | 11/26/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 % | % 61-154 | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 11300 | 16.0 | 11/24/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 125 5 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 140 | % 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celeg & Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/21/2014

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1

Project Number: Project Location: NONE GIVEN NOT GIVEN Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 1' (H403604-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.73 | 86.5 | 2.00 | 6.14 | |
| Toluene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.71 | 85.5 | 2.00 | 6.80 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/26/2014 | ND | 1.71 | 85.3 | 2.00 | 7.55 | |
| Total Xylenes* | <0.150 | 0.150 | 11/26/2014 | ND | 5.19 | 86.4 | 6.00 | 7.82 | |
| Total BTEX | <0.300 | 0.300 | 11/26/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 100 % | 6 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 11/24/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 131 % | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 143 9 | 6 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celey D. Keens



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

11/21/2014

Reported:

BTEX 8021B

12/02/2014

Project Name:

VEGA 9 FED #1 NONE GIVEN

mg/kg

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

105

200

2.83

Jodi Henson

Sample ID: S-2 2' (H403604-05)

| | | | | The second secon | | | | | |
|--------------------------------------|--------|-----------------|------------|--|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.7 | % 61-154 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 784 | 16.0 | 11/24/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |

ND

211

Analyzed By: CK

_

124 %

<10.0

47.2-157

11/25/2014

10.0

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

DRO >C10-C28

134%

52.1-176

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Celey & Kreene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/21/2014

Reported:

12/02/2014 VEGA 9 FED #1

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 0' (H403604-06)

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 3.99 | 0.500 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | 33.1 | 0.500 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | 32.1 | 0.500 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | 45.5 | 1.50 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | 115 | 3.00 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 110 % | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 12400 | 16.0 | 11/24/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 707 | 50.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | 2350 | 50.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 114 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 9 | 52.1-17 | 6 | | | | | | |

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Celey D. Keine



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rax

11/21/2014

Reported: 12/02/2014

Project Name: VEGA 9 FED #1
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date:

11/20/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: S-3 1' (H403604-07)

Received:

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | 0.125 | 0.050 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | 0.131 | 0.050 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | 0.208 | 0.150 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | 3 |
| Total BTEX | 0.465 | 0.300 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.4 9 | % 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1630 | 16.0 | 11/24/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | 30.3 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 131 9 | % 47.2-15 | 7 | | | - | | | |
| Surrogate: 1-Chlorooctadecane | 149 9 | % 52.1-17 | 6 | | | | | | |

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Fax To:

(575) 745-8905

Received:

11/21/2014

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1

Project Number: Project Location: NONE GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 2' (H403604-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.7 9 | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 656 | 16.0 | 11/24/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 123 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 138 9 | % 52.1-17 | 6 | | | | | | |

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TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: CK

Received:

11/21/2014

Reported:

DTEV 0031D

12/02/2014

Project Name:

VEGA 9 FED #1

ma /lea

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-4 0' (H403604-09)

| BTEX 8021B | mg/l | cg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.1 % | 61-154 | | | | | | | |
| Chloride, SM4500Cl-B | mg/l | кg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3520 | 16.0 | 11/24/2014 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/l | кg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 125 % | 6 47.2-157 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 137 % | 52.1-170 | 6 | | | | | | |

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Received:

11/21/2014

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-4 1' (H403604-10)

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 98.3 | % 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/24/2014 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 117 9 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 130 | % 52.1-17 | 6 | | | | | | |

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Celeg & trees



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

11/21/2014

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1

138 %

52.1-176

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-4 2' (H403604-11)

| BTEX 8021B | mg/l | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.7 % | 61-154 | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 11/24/2014 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 122 % | 6 47.2-157 | 7 | | | | | | |

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Surrogate: 1-Chlorooctadecane

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11/21/2014

Reported: 12/02/2014 VEGA 9 FED #1 Project Name:

Project Number: NONE GIVEN

Project Location: NOT GIVEN Sampling Date:

11/20/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact Jodi Henson

Sample Received By:

Sample ID: S-5 0' (H403604-12)

Received:

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 20.8 | 1.00 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | 97.6 | 1.00 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | 61.5 | 1.00 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | 75.0 | 3.00 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | 255 | 6.00 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 105 9 | % 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 12300 | 16.0 | 11/24/2014 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 1610 | 50.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | 3610 | 50.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 138 : | % 47.2-15 | 7 | -10-12-0 | | | | | |
| | | | | | | | | | |

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Fax To:

(575) 745-8905

Received:

11/21/2014

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1

Project Number: Project Location: NONE GIVEN

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-5 1' (H403604-13)

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.2 9 | % 61-154 | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 336 | 16.0 | 11/24/2014 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| Surrogate: 1-Chlorooctane | 122 9 | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 141 9 | 6 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celey D. Keine



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

Reported:

12/02/2014

Project Name:

VEGA 9 FED #1

Project Number: Project Location: NONE GIVEN NOT GIVEN

11/21/2014

Sampling Date:

11/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-5 2' (H403604-14)

| BTEX | 8021B |
|------|-------|
| | |

| BTEX 8021B | mg/l | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|---------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.60 | 80.0 | 2.00 | 13.3 | |
| Toluene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.61 | 80.7 | 2.00 | 12.3 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2014 | ND | 1.58 | 79.0 | 2.00 | 13.8 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2014 | ND | 4.75 | 79.2 | 6.00 | 14.1 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.7 9 | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| | - I | | | Mail al Black | DC. | 0/ 0 | T V-1 00 | DDD | 0116 |

| the state of the s | | | | | | | | | |
|--|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 928 | 16.0 | 11/24/2014 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/25/2014 | ND | 202 | 101 | 200 | 1.12 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/25/2014 | ND | 211 | 105 | 200 | 2.83 | |
| | | | | | | | | | |

Surrogate: 1-Chlorooctane

130 %

47.2-157

Surrogate: 1-Chlorooctadecane

146%

52.1-176

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Celeg & treene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey & Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

| Company Name: Talon/LPE | m | | 8/1 | 3/4/=10 | 0000 | | | ANALYSIS | S REQUEST | 1 |
|-------------------------------|------------------------|------------------------------|-------------------------------|--------------|------|----------|----------|----------|-----------|---|
| Project Manager: S. Hitchcock | ock | | P.O. #: | | | | _ | | | |
| Address: 408 W. Texas Ave | Ave. | | Company: Ta | Talon/LPE | | | | | | |
| city: Artesia | State: NM Zip | zip: 88210 | Attn: | | | | | | | |
| Phone #: 575-746-8768 | Fax #: 575-746-8905 | -8905 | Address: | | | | | | | |
| Project #: | Project Owner: Cimarex | | City: | | | | | | | |
| Project Name: Vega 9 Fe | Fed #1 | | State: Z | Zip: | | | | | | |
| Project Location: | | | Phone #: | | | | | | | |
| Sampler Name: S. Hitchcock | CK | | Fax #: | | | | | | | |
| | | MATRIX | PRESERV. | SAMPLING | | | | | | |
| Lab I.D. San | Sample I.D. | TAINERS NDWATER EWATER GE | BASE: | | PH | EX | nlorides | | | |
| H403604 | (G)R | GRO | OTHE ACID ICE / OTHE | DATE TIME | - | \vdash | С | | | |
| 1 5-10' | G | | / / | 1/20/14 2:13 | Š | | \ | | | |
| 510122 | 6 | | | 1 21/15 | 1 | 7 | 1 | | | |
| 3 5-2 6 | 6 | | | 1 211 | / | 7 | \ | | | |
| 4 5-2 1 | 6 | | | 2114 | / | / | \ | | | |
| 5 5-2 2 | 6 | / | | 2:2 | _ | | \ | | | |
| 6 5-30 | G | 7 1 | |) 2;29 | / | _ | | | | |
| 7 5-31 | 6 | | \ | / 2130 | 0 | / | / | | | |
| 8 5-3 2 | G | | / | 1 213 | 1 28 | 1 | \ | | | |
| 10 h-5; b | G | 7 | | 1 2:36 | 1 | / | | | | |
| 10 5-4 1' | 9 | | \ | 25:50 | > | \ | | | | |

Relinquished By: Relinquished By: Delivered By: (Circle One) Time: Received By: Phone Result: Fax Result: REMARKS: ☐ Yes ☐ No

> Add'l Phone #: Add'l Fax #:

Sample Condition CHECKED BY:
Cool Intact (initials).

Pres Pres
No No No

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Sampler - UPS - Bus - Other:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

| | A | 4.20 Pres | Sampler - UPS - Bus - Other: |
|-------------------------------|---|---|---|
| | CHECKED BY: | Sample Condition | Delivered By: (Circle One) |
| | | Time: | |
| | | Date: Received By: | Relinquished By: |
| | REMARKS: | Time: 50 Wal Mense | Shalder Him |
| It: ☐ Yes ☐ No Add'l Phone #: | Phone Result: | Date: Received By: | affliated of successors arising out of or related to the performance Relinquished By: |
| | or loss of profits incurred by client, its subsidiaries, on any of the above stated reasons or otherwise. | analyses. All claims including those for negligence and any otner cause wassuccere state oversine unstabliness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including without installation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including which which is interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including which which is interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including which will be consequentiation. | analyses. All claims including those for negligence and any or service. In no event shall Cardinal be liable for incidental or or |
| T pplicable | Il be limited to the amount paid by the client for the av Cardinal within 30 days after completion of the ap | PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the | PLEASE NOTE: Liability and Damages. Cardinal's liability an |
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| | 150,2 | | 2 |
| | - | | 1 5/11 2 |
| E | O DATE TIME | # CO GRO WAS SOIL OIL SLUI OTH | 400004 |
| TPH BTEX Chlorid | | AB OR (CONTAINER UNDWATE TEWATE DGE ER: | Lab I.D. Sample I.D. |
| des | | rs Ter | |
| | PRESERV. SAMPLING | MATRIX | |
| | 1 | Fax | Sampler Name: S. Hitchcock |
| | 井 | Phone #: | Project Location: |
| | Zip: | State: | Project Name: Vega 9 Fed #1 |
| | | Project Owner: Cimarex City: | Project #: |
| | Š. | Fax #: 575-746-8905 Address: | Phone #: 575-746-8768 |
| | | State: NM Zip: 88210 Attn: | city: Artesia |
| | ny: Talon/LPE | Company: | |
| | | P.O. # | Project Manager: S. Hitchcock |
| | BILL 10 | | Company Name: Talon/LPE |
| | | | |

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