

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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2109517682
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD) nAPP2109517682
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.148581 _____ Longitude -104.232381 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Da Vinci 7-18 Federal	Site Type: Battery
Date Release Discovered: 4/2/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
C	7	25S	27E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 18	Volume Recovered (bbls) 13
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment Failure

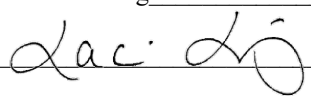
A hole developed in the 10" water trunk line on the discharge side of the inlet scrubbers due to internal erosion. According to our spill calculator, we released 17 barrels of produced water and we were able to recover 13 barrels. The spill remained on the pad.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Gloria Garza To: Mike Bratcher, Robert Hamlet, Cristina Eads and BLM By: Email	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
Printed Name: Laci Luig	Title: ESH Specialist
Signature: 	Date: 4/5/2021
email: llug@cimarex.com	Telephone: (432) 208-3035
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 11/1/2021

Incident ID	nAPP2109517682
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Remediation Plan

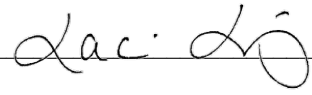
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 10/19/2021 _____
email: lluig@cimarex.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Ramona Marcus _____ Date: 11/1/2021 _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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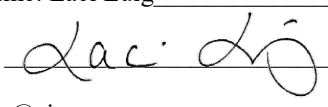
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 10/19/2021 _____
email: lluig@cimarex.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Ramona Marcus _____ Date: 11/1/2021 _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  _____ Date: 12/15/2021 _____
Printed Name: Chad Hensley _____ Title: Environmental Specialist Advanced _____

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: Da vinci 7-18 FC CTB

Date of Spill: 4/2/2021

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box,

flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☐

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0000 BBL WATER: 0.0000 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations						Standing Liquid Calculations							
Total Surface Area	width	length	wet soil depth	oil (%)		Standing Liquid Area	width	length	liquid depth	oil (%)			
Rectangle Area #1	75 ft	X	57 ft	X	2 in	0%	Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

Production Data NOT Required

Average Daily Production: Oil

0 BBL

Water

0 BBL

Did leak occur before the separator?: ☐ YES ☐ N/A (place an "X")

Amount of Free Liquid Recovered:

0 BBL

okay

Percentage of Oil in Free Liquid Recovered:

0%

(percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

* sand = .08 gallon liquid per gallon volume of soil.

* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil.

* sandy clay loam soil = .14 gallon liquid per gallon volume of soil.

* clay loam = .16 gallon liquid per gallon volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.

* sandy loam = .5 gallon liquid per gallon volume of soil.

Saturated Soil Volume Calculations:

Total Solid/Liquid Volume: 4,275 sq. ft. H2O 713 cu. ft. OIL cu. ft.

Estimated Volumes Spilled

Liquid in Soil: 17.8 BBL
Free Liquid: 0.0 BBL
Totals: 17.765 BBL

Total Liquid Spill Liquid: 17.765 BBL 0.000 BBL

Recovered Volumes

Estimated oil recovered: 0.0 BBL check - okay
Estimated water recovered: 0.0 BBL check - okay

Free Liquid Volume Calculations:

Total Free Liquid Volume: sq. ft. H2O .000 cu. ft. OIL .000 cu. ft.

Estimated Production Volumes Lost

Estimated Production Spilled: 0.000000 BBL 0.000000 BBL

Estimated Surface Damage

Surface Area: 4,275 sq. ft.

Surface Area: .0981 acre

Estimated Weights, and Volumes

Saturated Soil = 79,800 lbs 713 cu. ft. 26 cu. yds.
Total Liquid = 18 BBL 746.13 gallon 6,208 lbs

NAPP2109517682



talonlpe.com • 866.742.0742



Remediation and Closure Report

Da Vinci 7-18 Federal
Eddy County, New Mexico
Incident # NAPP2109517682

Prepared For:

Cimarex Energy Company
600 N. Marienfeld Street, Ste. 600
Midland, TX 79701

Prepared By:

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

October 12, 2021



Mike Bratcher
NMOCD
1301 W. Grand Avenue
Artesia, NM 88210

Jim Amos
BLM
620 E. Greene St.
Carlsbad, NM 88220

Subject: **Remediation and Closure Report**
Da Vinci 7-18 Federal
Eddy County, New Mexico
Incident #NAPP2109517682

Dear Mr. Bratcher,

Cimarex Energy, Co. contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and closure request is presented herein.

Site Information

The Da Vinci 7-18 Federal Battery is located approximately fifty (50) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter C, Section 7, Township 25 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.148581 and -104.232381. A Site Location Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Reagan-Upton association with 0-9 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of gravelly loam, Holocene to lower Pleistocene in age. Drainage courses in this area are typically well drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 42-feet below ground surface (bgs). See [Appendix II](#) for the referenced groundwater depth. Further research of the Bureau of Land Management Karst data indicates that this site is situated within a high potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred in an area where the groundwater is less than 50 feet bgs. in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater	42 Feet/bgs
----------------------------------	-------------

- | | |
|---|---|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet of any continuously flowing watercourse or any other significant watercourse |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 200 feet of any lakebed, sinkhole or a playa lake |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet from an occupied permanent residence, school, hospital, institution or church |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 1000 feet of any freshwater well or spring |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978 |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet of a wetland |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within the area overlying a subsurface mine |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Within an unstable area |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within a 100-year floodplain |

Because the release occurred in a high potential karst area and the depth to groundwater is references as less than 50 feet bgs., the cleanup criteria for this site is as follows.

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

According to the C-141 Release Notification, a hole developed in the 10" water trunk line on the discharge side of the inlet scrubbers due to internal corrosion. According to the spill calculator 17 barrels of produced water were released and 13 barrels were recovered. All fluid remained on the pad area and non-traversed to pasture area. The site map is presented in [Appendix I](#).

Site Assessment

On May 05, 2021, Talon mobilized personnel and equipment to the site and conducted an initial site assessment, as well as a site safety walk with Cimarex Energy personnel. On May 06, 2021, remediation work commenced on the exterior (south side) of the containment. Due to safety concerns, the interior source area of the release was postponed to a date when the facility could be shut in. The excavated area was mapped, photographed and sampled utilizing a hand auger. All soil samples were properly packaged, preserved, and transported to Cardinal Laboratories via chain of custody for analysis of Total Chlorides (Method SM4500Cl-B), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Sample locations are shown on the attached site plan and the results of our sampling event are presented on the following data table.

Table I
05-11-21 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth ft. (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	5/05/2021	1'	ND	ND	ND	ND	ND	-	4960
	5/05/2021	2'	ND	ND	ND	ND	ND	-	1880
	5/05/2021	3'	ND	ND	ND	ND	ND	-	528
	5/05/2021	4'	ND	ND	ND	ND	ND	-	1380
	5/05/2021	5'	ND	ND	ND	ND	ND	-	176
S1 ESWC	5/06/2021	5'	ND	ND	ND	ND	ND	-	208
S1 SSWC	5/06/2021	5'	ND	ND	ND	ND	ND	-	208
S-2	5/05/2021	1'	ND	ND	ND	ND	ND	-	720
	5/05/2021	2'	ND	ND	ND	ND	ND	-	128
S2 ESW	5/06/2021	1'	ND	ND	ND	ND	ND	-	48.0
S2 ESW	5/06/2021	2'	ND	ND	ND	12.3	ND	12.3	320
S-3	5/05/2021	1'	ND	ND	ND	ND	ND	-	560
S3 ESW	5/06/2021	1'	ND	ND	ND	ND	ND	-	80
S-4	5/05/2021	1'	ND	ND	ND	ND	ND	-	64
S-5	5/05/2021	1'	ND	ND	<10.0	91.7	33.2	124.9	544
	5/05/2021	2'	ND	ND	ND	ND	ND	-	80
S-5 SSW	5/06/2021	1'	ND	ND	ND	ND	ND	-	800
	5/12/2021	*1'	ND	ND	ND	ND	ND	-	290

S-6	5/05/2021	1'	ND	ND	ND	ND	ND	-	544
S-7 SW	5/06/2021	1'	ND	ND	ND	ND	ND	-	112
S-7	5/06/2021	1'	ND	ND	ND	ND	ND	-	96
S-8	5/06/2021	1'	ND	ND	ND	ND	ND	-	3600
	5/06/2021	2'	ND	ND	ND	ND	ND	-	528
S-9	5/06/2021	1'	ND	ND	ND	ND	ND	-	1140
	5/06/2021	2'	ND	ND	ND	ND	ND	-	144
S-10	5/06/2021	1'	ND	ND	ND	ND	ND	-	1730
	5/06/2021	2'	ND	ND	ND	ND	ND	-	80.0
N-SW1	5/06/2021	1'	ND	ND	ND	ND	ND	-	560
N-SW2	5/06/2021	1'	ND	ND	ND	ND	ND	-	368
N-SW3	5/06/2021	1'	ND	ND	ND	ND	ND	-	416
WSW1	5/06/2021	1'	ND	ND	ND	26.8	ND	-	832
	5/12/2021	*1'	ND	ND	ND	ND	ND	-	79
WSW2	5/06/2021	1'	ND	ND	ND	20.2	ND	-	880
	5/12/2021	*1'	ND	ND	ND	ND	ND	-	110
WSW3	5/06/2021	1'	ND	ND	ND	ND	ND	-	288

ND-Analyte Not Detected

See [Appendix IV](#) for the complete report of laboratory results.

On September 09, 2021 based on the laboratory results from the initial site assessment and upon client authorization, Talon personnel and equipment were mobilized to the site in order to commence remediation of the interior side of the containment under the high-pressure lines. An area approximately 25 feet long, 06 feet wide and 3 feet deep was excavated by hand from the stained area. The bottom and sidewalls of the excavated area were sampled on a 6-point composite basis. All soil samples were properly collected, and preserved for transport to Hall Laboratories in order to confirm that NMOCD clean-up criteria had been achieved. The confirmation results from the laboratory are tabulated below.

Table II
9/14/2021 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth ft. (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-11	5/10/2021	0-1'	ND	ND	ND	120	74	194	20000
S-11A	9/9/2021	3'	ND	ND	ND	9.3	ND	9.6	540
S-12	9/9/2021	3'	ND	ND	ND	ND	ND	-	510
S-13	9/9/2021	3'	ND	ND	ND	ND	ND	-	470
S-14	9/9/2021	3'	ND	ND	ND	ND	ND	-	250
S-15	9/9/2021	3'	ND	ND	ND	ND	ND	-	880
	9/10/2021	4'	ND	ND	ND	ND	ND	-	170
Background	5/12/2021	0-1'	ND	ND	ND	ND	ND	-	ND

ND-Analyte Not Detected

See [Appendix IV](#) for the complete report of laboratory results.

Remedial Actions

- The spill footprint was excavated to depths of 3 to 4 feet bgs., and to the horizontal extent that all surface staining and hydrocarbon odors were removed. Laboratory analysis confirms that NMOCD remediation guidelines for soil characterization were achieved.
- A background sample was obtained in order to confirm horizontal delineation.
- The excavated area was backfilled with clean caliche and compacted to grade.
- All contaminated soil was transported to Lea Land, LLC, a NMOCD approved disposal facility.
- Cimarex Energy has taken proactive measures with installations of engineered Falcon Lined containments.

Closure

Based on this site characterization, remedial actions completed, and analytical results, we request that no further actions be required, and that closure with regard to the attached incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

Talon/LPE

Rebecca S. Pons
Senior Environmental Project Manager

Attachments:

Appendix I Site Plans
Appendix II Groundwater Data, Soil Survey, Karst Map, FEMA Map
Appendix III Photographic Documentation
Appendix IV Laboratory Data

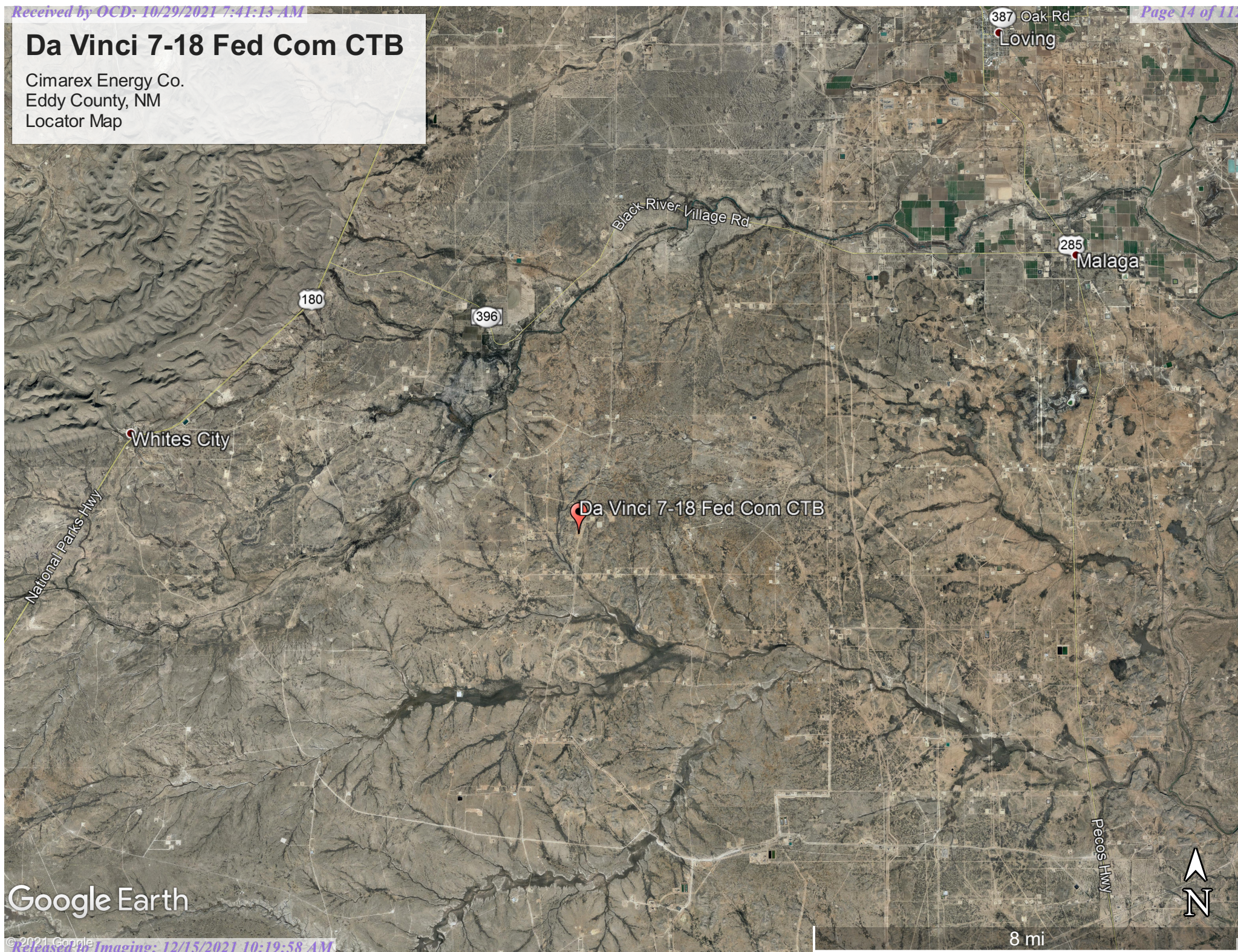


APPENDIX I

SITE PLANS

Da Vinci 7-18 Fed Com CTB

Cimarex Energy Co.
Eddy County, NM
Locator Map



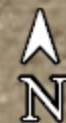
Google Earth

Davinci 7 Fed Com #009H

Cimarex Energy Co.
30-015-44697
Eddy County, NM
Confirmation Sample Map

Legend

- Excavation
- Sample Point



100 ft

Davinci 7 Fed Com #009H

Cimarex Energy Co.
30-015-44697
Eddy County, NM
Confirmation Sample Map

Legend

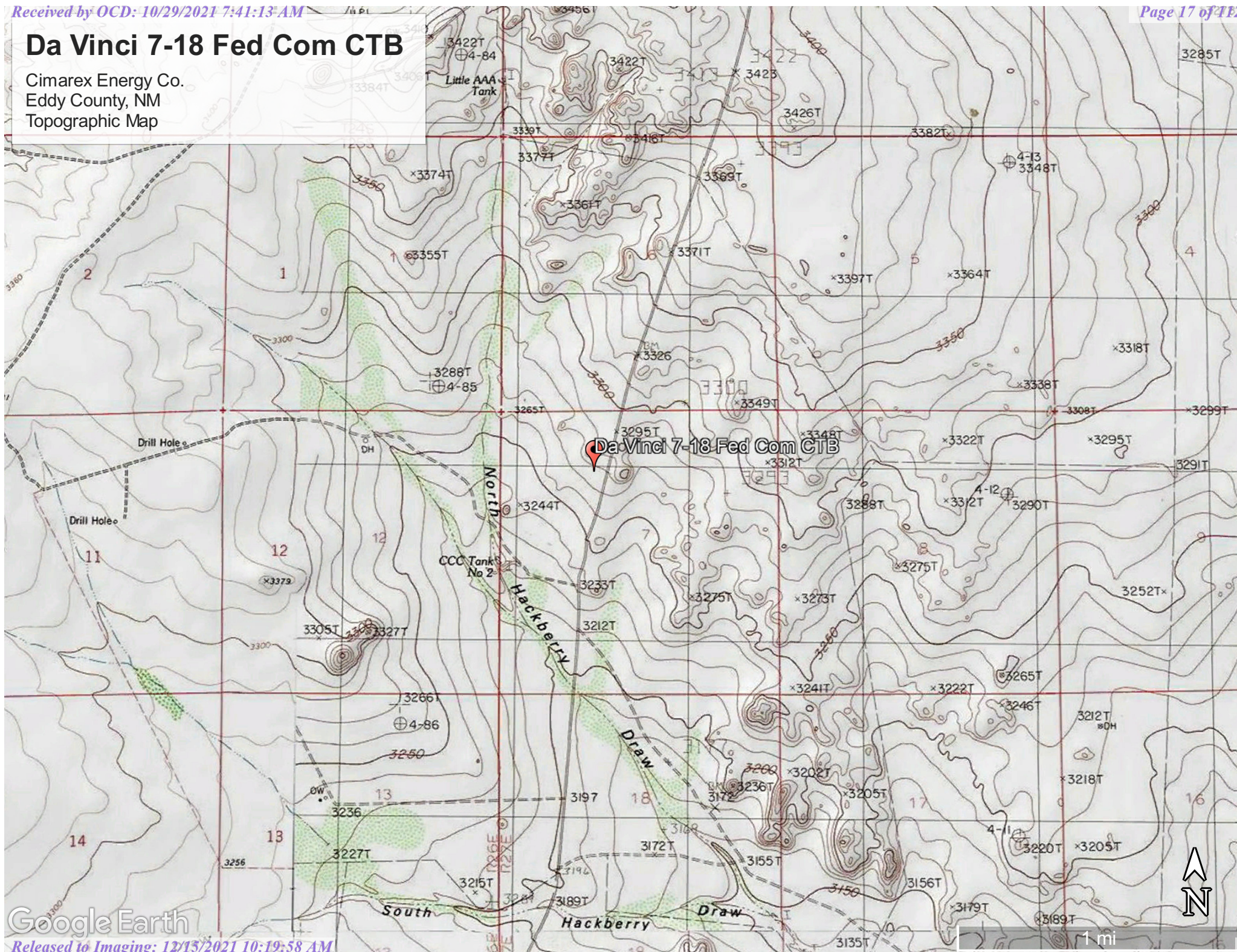
- Excavation
- Sample Point



100 ft

Da Vinci 7-18 Fed Com CTB

Cimarex Energy Co.
Eddy County, NM
Topographic Map





APPENDIX II

GROUNDWATER DATA

SOIL SURVEY



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03261 POD1	CUB	ED		3	2	1	20	25S	27E	574007	3554006*	3547	351		
C 03569 POD1	CUB	ED		2	1	1	14	25S	26E	568862	3555746	3801	30	0	30
C 03654 POD1	CUB	ED		2	3	1	24	25S	26E	570654	3553773	3808			
C 00819	C	ED		4	4		26	24S	26E	570022	3560935*	4453	62	42	20
C 03200 POD1	C	ED		2	3	4	34	24S	26E	568206	3559349	4720	80	52	28
C 01841	C	ED				1	29	24S	27E	573806	3561953*	4995	150		

Average Depth to Water: **31 feet**

Minimum Depth: **0 feet**

Maximum Depth: **52 feet**

Record Count: 6

UTM NAD83 Radius Search (in meters):

Easting (X): 572389.5

Northing (Y): 3557163

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/7/21 12:07 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RE—Reagan-Upton association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5d

Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent

Upton and similar soils: 25 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Alluvial fans, fan remnants

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Ecological site: R070DY153NM - Loamy
Hydric soil rating: No

Description of Upton

Setting

Landform: Fans, ridges
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070DY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 3 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R042XC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

Da Vinci 7-18 Fed Com CTB

Cimarex Energy Co.
Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium

Da Vinci 7-18 Fed Com CTB





APPENDIX III

PHOTOGRAPHIC DOCUMENTATION

Cimarex Energy Da Vinci 7-18 Fed Com CTB

PHOTO DOCUMENTATION



Impacted Area



Excavated area south of containment



Backfilled exterior of containment to grade



Interior of containment excavation



Interior of containment excavation



Interior of containment backfilled to grade



APPENDIX IV

C-141 FORMS

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 22732

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 22732
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	Da Vinci 7-18 Federal Battery
Date Release Discovered	04/02/2021
Surface Owner	Federal

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 18 BBL Recovered: 13 BBL Lost: 5 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A hole developed in the 10" water trunk line on the discharge side of the inlet scrubbers due to internal erosion. According to our spill calculator, we released 17 barrels of produced water and we were able to recover 13 barrels. The spill remained on the pad.
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	Gloria Garza
If YES, was immediate notice given to the OCD, to whom	M. Bratcher, R. Hamlet, C. Eads, BLM
If YES, was immediate notice given to the OCD, when	04/02/2021
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Email
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

District I

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 22732

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 22732
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD 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.

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 22732

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 22732
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
system	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/5/2021



APPENDIX V

LABORATORY DATA



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

May 17, 2021

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: DaVinci 7 Containment DA

OrderNo.: 2105500

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/12/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2105500

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11 0-1'

Project: DaVinci 7 Containment DA

Collection Date: 5/10/2021 2:35:00 PM

Lab ID: 2105500-001

Matrix: SOIL

Received Date: 5/12/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	20000	600		mg/Kg	200	5/16/2021 7:02:32 PM	60041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	120	9.5		mg/Kg	1	5/13/2021 12:53:31 PM	59982
Motor Oil Range Organics (MRO)	74	47		mg/Kg	1	5/13/2021 12:53:31 PM	59982
Surr: DNOP	104	70-130		%Rec	1	5/13/2021 12:53:31 PM	59982
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/13/2021 3:22:05 PM	59968
Surr: BFB	89.6	70-130		%Rec	1	5/13/2021 3:22:05 PM	59968
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/13/2021 3:22:05 PM	59968
Toluene	ND	0.049		mg/Kg	1	5/13/2021 3:22:05 PM	59968
Ethylbenzene	ND	0.049		mg/Kg	1	5/13/2021 3:22:05 PM	59968
Xylenes, Total	ND	0.098		mg/Kg	1	5/13/2021 3:22:05 PM	59968
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/13/2021 3:22:05 PM	59968

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105500

17-May-21

Client: Talon Artesia**Project:** DaVinci 7 Containment DA

Sample ID: MB-60041		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 60041		RunNo: 77389						
Prep Date: 5/14/2021		Analysis Date: 5/14/2021		SeqNo: 2747142		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60041		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 60041		RunNo: 77389						
Prep Date: 5/14/2021		Analysis Date: 5/14/2021		SeqNo: 2747143		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105500

17-May-21

Client: Talon Artesia**Project:** DaVinci 7 Containment DA

Sample ID: MB-59982	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59982	RunNo: 77344								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745776 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

Sample ID: LCS-59982	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59982	RunNo: 77344								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745777 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	68.9	141			
Surr: DNOP	5.2		5.000		104	70	130			

Sample ID: MB-60006	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60006	RunNo: 77392								
Prep Date: 5/13/2021	Analysis Date: 5/14/2021	SeqNo: 2746412 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	70	130			

Sample ID: LCS-60006	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60006	RunNo: 77392								
Prep Date: 5/13/2021	Analysis Date: 5/14/2021	SeqNo: 2746413 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105500

17-May-21

Client: Talon Artesia**Project:** DaVinci 7 Containment DA

Sample ID: mb-59968	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 59968	RunNo: 77380								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745540 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.4	70	130			

Sample ID: lcs-59968	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 59968	RunNo: 77380								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745541 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	78.6	131			
Surr: BFB	1000		1000		102	70	130			

Sample ID: mb-59978	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 59978	RunNo: 77380								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745564 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.5	70	130			

Sample ID: lcs-59978	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 59978	RunNo: 77380								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745565 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 4 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105500

17-May-21

Client: Talon Artesia**Project:** DaVinci 7 Containment DA

Sample ID: mb-59968	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59968	RunNo: 77380								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745589	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: LCS-59968	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59968	RunNo: 77380								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745590	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	80	120			
Toluene	1.0	0.050	1.000	0	99.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

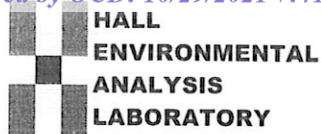
Sample ID: mb-59978	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59978	RunNo: 77380								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745613	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: LCS-59978	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59978	RunNo: 77380								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745614	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2105500

RcptNo: 1

Received By: Juan Rojas

5/12/2021 7:35:00 AM

Juan Rojas

Completed By: Desiree Dominguez

5/12/2021 8:01:47 AM

DD

Reviewed By:

*JR 5/12/21*Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: 10
5/12/21
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				
2	0.5	Good				
3	0	Good				

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W. Texas Ave

Artesia, NM 88210

Phone #: 575.746.8768

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time: 4-Day

☐ Standard ☐ Rush

Project Name:

DaVinci 7 Containment (DA)

Project #:

701162.103.01

Project Manager:

R. Pons

Sampler: J. Carnes

On Ice: ☒ Yes ☐ No

of Coolers: 3

Cooler Temp (including CF): See Remarks

Container Type and #

Preservative Type

HEAL No.

2105500

Glass Jar

Ice/Cool

-001

Date Time Matrix Sample Name

5/10/2021 2:35 Soil S-11 0-1'

Received by: Via: Date Time

5/11/21 1040

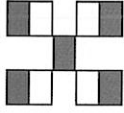
Relinquished by: Date Time

5/11/21 1900

Remarks:

1.0-0.1=0.7
0.6-0.1=0.5
0.1-0.1=0

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

C H L O R I D E S
B T E X
T P H X
X X X



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 11, 2021

BRANDON SINCLAIR

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: DAVINCI 7-18 FED COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/06/21 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	05/06/2021	Sampling Date:	05/05/2021
Reported:	05/11/2021	Sampling Type:	Soil
Project Name:	DAVINCI 7-18 FED COM CTB	Sampling Condition:	Cool & Intact
Project Number:	701162.103.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: S 1 - 1' (H211173-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	05/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.9 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1 - 2' (H211173-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.3 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1 - 3' (H211173-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEx	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.4 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1 - 4' (H211173-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.7 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1 - 5' (H211173-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.2 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 2 - 1' (H211173-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.3 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 2 - 2' (H211173-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.1 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 3 - 1' (H211173-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	05/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.7 % 38.9-142

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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 4 - 1' (H211173-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.6 % 38.9-142

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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 5 - 1' (H211173-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTEx	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	206	103	200	2.56	
DRO >C10-C28*	91.7	10.0	05/07/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	33.2	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.9 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 5 - 2' (H211173-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/08/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/08/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.9 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/05/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 6 - 1' (H211173-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	05/10/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/08/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/08/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.9 % 38.9-142

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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1 - ESWC 5' (H211173-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/10/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/08/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/08/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.5 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1 - SSWC 5' (H211173-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2021	ND	206	103	200	2.56	
DRO >C10-C28*	<10.0	10.0	05/08/2021	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/08/2021	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.0 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S7 - SW 1' (H211173-15)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/10/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N - SW3 1' (H211173-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/10/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	05/06/2021	Sampling Date:	05/06/2021
Reported:	05/11/2021	Sampling Type:	Soil
Project Name:	DAVINCI 7-18 FED COM CTB	Sampling Condition:	Cool & Intact
Project Number:	701162.103.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: N - SW2 1' (H211173-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02		
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.8 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N - SW1 1' (H211173-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	05/10/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 76.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.6 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 2 - ESW 1' (H211173-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.01	100	2.00	8.02	
Toluene*	<0.050	0.050	05/07/2021	ND	2.10	105	2.00	6.42	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	6.79	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.91	98.5	6.00	6.76	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/10/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.2 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 2 - ESW 2' (H211173-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	12.3	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S- 5 SSW 1' (H211173-21)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTEx	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.3 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S- 3 ESW 1' (H211173-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.3 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW 3 1' (H211173-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTEx	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/10/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.4 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW 2 1' (H211173-24)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	20.2	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.6 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW 1 1' (H211173-25)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	05/10/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/07/2021	ND	199	99.6	200	0.200	
DRO >C10-C28*	26.8	10.0	05/07/2021	ND	191	95.6	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.7 % 38.9-142

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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 1' (H211173-26)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2021	ND	208	104	200	8.90	
DRO >C10-C28*	<10.0	10.0	05/10/2021	ND	206	103	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/10/2021	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.8 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 1' (H211173-27)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86	
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2021	ND	208	104	200	8.90	
DRO >C10-C28*	<10.0	10.0	05/10/2021	ND	206	103	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/10/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.1 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 2' (H211173-28)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86	
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/10/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2021	ND	208	104	200	8.90	
DRO >C10-C28*	<10.0	10.0	05/10/2021	ND	206	103	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/10/2021	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.2 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 10 1' (H211173-29)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2021	ND	208	104	200	8.90	
DRO >C10-C28*	<10.0	10.0	05/10/2021	ND	206	103	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/10/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.3 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 10 2' (H211173-30)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/07/2021	ND	1.99	99.6	2.00	9.86		
Toluene*	<0.050	0.050	05/07/2021	ND	1.97	98.3	2.00	10.3		
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	1.93	96.5	2.00	10.5		
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.71	95.2	6.00	9.84		
Total BTEX	<0.300	0.300	05/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2021	ND	208	104	200	8.90	
DRO >C10-C28*	<10.0	10.0	05/10/2021	ND	206	103	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/10/2021	ND					

Surrogate: 1-Chlorooctane 75.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.8 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 1' (H211173-31)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2021	ND	2.07	104	2.00	1.52	
Toluene*	<0.050	0.050	05/10/2021	ND	2.02	101	2.00	0.192	
Ethylbenzene*	<0.050	0.050	05/10/2021	ND	1.97	98.3	2.00	1.17	
Total Xylenes*	<0.150	0.150	05/10/2021	ND	5.89	98.2	6.00	0.780	
Total BTEX	<0.300	0.300	05/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	05/10/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2021	ND	208	104	200	8.90	
DRO >C10-C28*	<10.0	10.0	05/10/2021	ND	206	103	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/10/2021	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.3 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2021
 Reported: 05/11/2021
 Project Name: DAVINCI 7-18 FED COM CTB
 Project Number: 701162.103.01
 Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 05/06/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 2' (H211173-32)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2021	ND	2.07	104	2.00	1.52	
Toluene*	<0.050	0.050	05/10/2021	ND	2.02	101	2.00	0.192	
Ethylbenzene*	<0.050	0.050	05/10/2021	ND	1.97	98.3	2.00	1.17	
Total Xylenes*	<0.150	0.150	05/10/2021	ND	5.89	98.2	6.00	0.780	
Total BTEX	<0.300	0.300	05/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/10/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2021	ND	208	104	200	8.90	
DRO >C10-C28*	<10.0	10.0	05/10/2021	ND	206	103	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/10/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 SM4500Cl-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

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		BILL TO		ANALYSIS REQUEST	
Project Manager: B. Sinclair		P.O. #: 70162.103.01			
Address: 408 W. Texas Ave		Company: Cimarex			
City: Artesia		Attn: <i>Patricia</i>			
Phone #: 575.746.8768		Address:			
State: NM zip: 88210		City:			
Project #: 70162.103.01		Project Owner: Cimarex			
Project Name: Davinci 7-18 Fed Com CTB		State:			
Project Location: Eddy County, NM		Zip:			
Sampler Name:		Phone #:			
Fax #:					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV
				GROUNDWATER	
				WASTEWATER	
				SOIL	
				OIL	
				SLUDGE	
				OTHER :	
				ACID/BASE:	
				ICE COOL	
				OTHER :	
		DATE	TIME		
4211173	51-1'	5-5-21	10:00	CL	
1	51-2'		10:05	TRD	
2	51-3'		10:10	BTEX	
3	51-4'		10:25		
4	51-5'		10:30		
5	52-1'		10:40		
6	52-2'		10:45		
7	53-1'		10:55		
8	54-1'		11:15		
9	55-1'		11:30		
10					

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Relinquished By: *[Signature]* Date: 5-6-21 Received By: *[Signature]* Date: 10-20-21

Relinquished By: *[Signature]* Date: 10-20-21 Received By: *[Signature]* Date: 10-20-21

Delivered By: (Circle One) *5.6c #113*

Sampler - UPS - Bus - Other: *5.6c #113*

Sample Condition: Cool ☒ Intact ☐ Yes ☐ No

CHECKED BY: *[Signature]* (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #: *[Blank]*

Fax Result: ☐ Yes ☐ No Add'l Fax #: *[Blank]*

REMARKS: *[Blank]*

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



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

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		BILL TO		ANALYSIS REQUEST																															
Project Manager: B. Sinclair		P.O. #: 701162.103.01																																	
Address: 408 W. Texas Ave		Company: Talon																																	
City: Artesia		Attn:																																	
Phone #: 575.746.8768		Address:																																	
Fax #: Project #: 701162.103.01		City:																																	
Project Name: DaVinci 7-18 Fed Com CTB		State:																																	
Project Location: Eddy County, NM		Zip:																																	
Sample Name:		Fax #:																																	
FOR LAB USE ONLY		PRESERV		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		CL		TPH		BTEX	
H21173		5-5 55w 1'		C				X																											
21		5-3 55w 1'																																	
23		W 5w 3 1'																																	
24		W 5w 2 1'																																	
25		W 5w 1 1'																																	
26		5-7 1'																																	
27		5-8 1'																																	
28		5-8 2'																																	
29		5-10 1'																																	
30		5-10 2'																																	

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Relinquished By: *[Signature]* Date: 5-6-21 Received By: *[Signature]* Date: 10-9-21

Relinquished By: *[Signature]* Date: 10-9-21 Received By: *[Signature]* Date: 10-9-21

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: 5:6i #113

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No

CHECKED BY: (Initials) *[Signature]*

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #: ☐ Yes ☐ No ☐ Add'l Fax #: ☐ Yes ☐ No

REMARKS:

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		BILL TO		ANALYSIS REQUEST																									
Project Manager: B. Sinclair		P.O. #: 701162, 103.01																											
Address: 408 W. Texas Ave		Company: T & L																											
City: Artesia		Attn:																											
Phone #: 575.746.8768		Address:																											
Fax #: 575.746.8768		City:																											
Project #: 701162, 103.01		State: NM zip: 88210																											
Project Owner: Cimarex		City:																											
Project Name: DaVinci 7-18 Fed Com CTB		State:																											
Project Location: Eddy County, NM		Zip:																											
Sample Name:		Phone #:																											
FOR LAB USE ONLY		Fax #:																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING																					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	CE/ COOL	OTHER :	DATE	TIME	CL	TPH	BTEX												
H241173	31	5-9 1'	C			X				X			5-6-21	11:10	X	X	X												
	32	5-9 2'	C			X				X			5-6-21	11:25	X	X	X												
<p>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 analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																													
Relinquished By:		Date: 5-6-21	Received By:																										
Relinquished By: [Signature]		Date: 5-6-21	Received By: [Signature]																										
Delivered By: (Circle One)		Sample Condition		CHECKED BY:																									
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)																									
5.6c #113		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Y.B.																									
REMARKS:																													



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

May 20, 2021

Brandon Sinclair
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: DaVinci7 (DA)

OrderNo.: 2105637

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/14/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2105637

Date Reported: 5/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: WSW-2 1'

Project: DaVinci7 (DA)

Collection Date: 5/12/2021 10:00:00 AM

Lab ID: 2105637-001

Matrix: SOIL

Received Date: 5/14/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	110	60		mg/Kg	20	5/18/2021 8:51:31 PM	60107
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/18/2021 2:10:52 AM	60058
Surr: BFB	101	70-130		%Rec	1	5/18/2021 2:10:52 AM	60058
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	5/19/2021 11:18:32 AM	60121
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/19/2021 11:18:32 AM	60121
Surr: DNOP	96.5	70-130		%Rec	1	5/19/2021 11:18:32 AM	60121
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/18/2021 2:10:52 AM	60058
Toluene	ND	0.048		mg/Kg	1	5/18/2021 2:10:52 AM	60058
Ethylbenzene	ND	0.048		mg/Kg	1	5/18/2021 2:10:52 AM	60058
Xylenes, Total	ND	0.096		mg/Kg	1	5/18/2021 2:10:52 AM	60058
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	5/18/2021 2:10:52 AM	60058
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	5/18/2021 2:10:52 AM	60058
Surr: Dibromofluoromethane	114	70-130		%Rec	1	5/18/2021 2:10:52 AM	60058
Surr: Toluene-d8	99.6	70-130		%Rec	1	5/18/2021 2:10:52 AM	60058

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 7

Analytical Report

Lab Order 2105637

Date Reported: 5/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: WSW-1 1'

Project: DaVinci7 (DA)

Collection Date: 5/12/2021 10:05:00 AM

Lab ID: 2105637-002

Matrix: SOIL

Received Date: 5/14/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	79	60		mg/Kg	20	5/18/2021 9:03:55 PM	60107
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/18/2021 2:39:22 AM	60058
Surr: BFB	99.9	70-130		%Rec	1	5/18/2021 2:39:22 AM	60058
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/19/2021 11:28:11 AM	60121
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/19/2021 11:28:11 AM	60121
Surr: DNOP	82.4	70-130		%Rec	1	5/19/2021 11:28:11 AM	60121
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/18/2021 2:39:22 AM	60058
Toluene	ND	0.049		mg/Kg	1	5/18/2021 2:39:22 AM	60058
Ethylbenzene	ND	0.049		mg/Kg	1	5/18/2021 2:39:22 AM	60058
Xylenes, Total	ND	0.097		mg/Kg	1	5/18/2021 2:39:22 AM	60058
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%Rec	1	5/18/2021 2:39:22 AM	60058
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	5/18/2021 2:39:22 AM	60058
Surr: Dibromofluoromethane	110	70-130		%Rec	1	5/18/2021 2:39:22 AM	60058
Surr: Toluene-d8	95.1	70-130		%Rec	1	5/18/2021 2:39:22 AM	60058

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 7

Analytical Report

Lab Order 2105637

Date Reported: 5/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5SSW 1'

Project: DaVinci7 (DA)

Collection Date: 5/12/2021 10:10:00 AM

Lab ID: 2105637-003

Matrix: SOIL

Received Date: 5/14/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	290	60		mg/Kg	20	5/18/2021 9:16:20 PM	60107
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/18/2021 3:07:54 AM	60058
Surr: BFB	99.7	70-130		%Rec	1	5/18/2021 3:07:54 AM	60058
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	5/19/2021 11:37:53 AM	60121
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/19/2021 11:37:53 AM	60121
Surr: DNOP	94.4	70-130		%Rec	1	5/19/2021 11:37:53 AM	60121
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	5/18/2021 3:07:54 AM	60058
Toluene	ND	0.048		mg/Kg	1	5/18/2021 3:07:54 AM	60058
Ethylbenzene	ND	0.048		mg/Kg	1	5/18/2021 3:07:54 AM	60058
Xylenes, Total	ND	0.097		mg/Kg	1	5/18/2021 3:07:54 AM	60058
Surr: 1,2-Dichloroethane-d4	90.0	70-130		%Rec	1	5/18/2021 3:07:54 AM	60058
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	5/18/2021 3:07:54 AM	60058
Surr: Dibromofluoromethane	105	70-130		%Rec	1	5/18/2021 3:07:54 AM	60058
Surr: Toluene-d8	96.7	70-130		%Rec	1	5/18/2021 3:07:54 AM	60058

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105637

20-May-21

Client: Talon Artesia
Project: DaVinci7 (DA)

Sample ID: LCS-60107	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 60107			RunNo: 77454						
Prep Date: 5/18/2021	Analysis Date: 5/18/2021			SeqNo: 2750116		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Sample ID: MB-60107	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 60107			RunNo: 77454						
Prep Date: 5/18/2021	Analysis Date: 5/18/2021			SeqNo: 2750117		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 4 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105637

20-May-21

Client: Talon Artesia
Project: DaVinci7 (DA)

Sample ID: LCS-60121	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60121			RunNo: 77500						
Prep Date: 5/18/2021	Analysis Date: 5/19/2021			SeqNo: 2750987		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.1	68.9	141			
Surr: DNOP	4.9		5.000		98.3	70	130			

Sample ID: MB-60121	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60121			RunNo: 77500						
Prep Date: 5/18/2021	Analysis Date: 5/19/2021			SeqNo: 2750988		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 5 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105637

20-May-21

Client: Talon Artesia
Project: DaVinci7 (DA)

Sample ID: lcs-60058	SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batch ID: 60058		RunNo: 77455							
Prep Date: 5/15/2021	Analysis Date: 5/17/2021		SeqNo: 2749583		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	70	130			
Toluene	0.98	0.050	1.000	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		97.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.8	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		105	70	130			
Surr: Toluene-d8	0.48		0.5000		96.1	70	130			

Sample ID: mb-60058	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 60058		RunNo: 77455							
Prep Date: 5/15/2021	Analysis Date: 5/17/2021		SeqNo: 2749584		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.0	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.48		0.5000		95.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 6 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105637

20-May-21

Client: Talon Artesia
Project: DaVinci7 (DA)

Sample ID: lcs-60058	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 60058			RunNo: 77455						
Prep Date: 5/15/2021	Analysis Date: 5/17/2021			SeqNo: 2749599		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	70	130			
Surr: BFB	520		500.0		104	70	130			

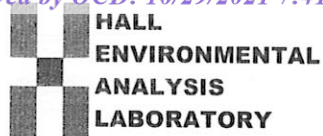
Sample ID: mb-60058	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 60058			RunNo: 77455						
Prep Date: 5/15/2021	Analysis Date: 5/17/2021			SeqNo: 2749600		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		101	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2105637

RcptNo: 1

Received By: Sean Livingston

5/14/2021 8:00:00 AM

Completed By: Sean Livingston

5/14/2021 9:11:56 AM

Reviewed By: SPA 5.14.21

Sean Livingston
Sean Livingston

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted?

Checked by:

IC
5/14/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

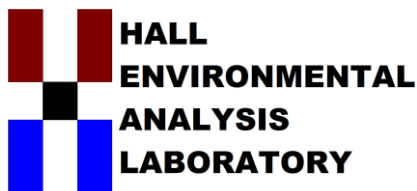
4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record				Turn-Around Time: 4-Day		
Client: Talon LPE				<input type="checkbox"/> Standard <input type="checkbox"/> Rush		
Mailing Address: 408 W. Texas Ave				Project Name: DaVinci7 (DA)		
Artesia, NM 88210				Project #: 701162.103.01		
Phone #: 575.746.8768				Project Manager: B. Sinclair		
email or Fax#:						
QA/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)						
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other				Sampler: J. Carnes		
<input type="checkbox"/> EDD (Type)				On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
				# of Coolers: 1		
				Cooler Temp (including CF): 0-8 DO = 0.8°C		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/12/2021	10:00	Soil	WSW-2 1'		Ice/Cool	001
	10:05		WSW-1 1'			002
	10:10		S-5SSW 1'			003
Date: 5/13/21	Time: 1430	Relinquished by: [Signature]	Received by: [Signature]		Via:	Date: 5/13/21 Time: 1430
Date: 5/13/21	Time: 1900	Relinquished by: [Signature]	Received by: [Signature]		Via:	Date: 5/14/21 Time: 8:00

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 14, 2021

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL: (432) 522-2133
FAX (432) 522-2180

RE: Da Vinci 7 DaVinci

OrderNo.: 2109506

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/10/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2109506

Date Reported: 9/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11A 3'

Project: Da Vinci 7 DaVinci

Collection Date: 9/9/2021 3:50:00 PM

Lab ID: 2109506-001

Matrix: MEOH (SOIL)

Received Date: 9/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	540	60		mg/Kg	20	9/10/2021 9:27:44 AM	62505
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	9.6	9.4		mg/Kg	1	9/10/2021 10:33:42 AM	62506
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/10/2021 10:33:42 AM	62506
Surr: DNOP	109	70-130		%Rec	1	9/10/2021 10:33:42 AM	62506
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.4		mg/Kg	1	9/10/2021 9:13:46 AM	G81194
Surr: BFB	98.0	70-130		%Rec	1	9/10/2021 9:13:46 AM	G81194
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.012		mg/Kg	1	9/10/2021 9:13:46 AM	B81194
Toluene	ND	0.024		mg/Kg	1	9/10/2021 9:13:46 AM	B81194
Ethylbenzene	ND	0.024		mg/Kg	1	9/10/2021 9:13:46 AM	B81194
Xylenes, Total	ND	0.049		mg/Kg	1	9/10/2021 9:13:46 AM	B81194
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	9/10/2021 9:13:46 AM	B81194

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2109506

Date Reported: 9/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-12 3'

Project: Da Vinci 7 DaVinci

Collection Date: 9/9/2021 3:53:00 PM

Lab ID: 2109506-002

Matrix: MEOH (SOIL)

Received Date: 9/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	510	60		mg/Kg	20	9/10/2021 9:40:09 AM	62505
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/10/2021 10:43:16 AM	62506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/10/2021 10:43:16 AM	62506
Surr: DNOP	109	70-130		%Rec	1	9/10/2021 10:43:16 AM	62506
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	9/10/2021 9:37:20 AM	G81194
Surr: BFB	96.8	70-130		%Rec	1	9/10/2021 9:37:20 AM	G81194
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	9/10/2021 9:37:20 AM	B81194
Toluene	ND	0.030		mg/Kg	1	9/10/2021 9:37:20 AM	B81194
Ethylbenzene	ND	0.030		mg/Kg	1	9/10/2021 9:37:20 AM	B81194
Xylenes, Total	ND	0.060		mg/Kg	1	9/10/2021 9:37:20 AM	B81194
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	9/10/2021 9:37:20 AM	B81194

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2109506

Date Reported: 9/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-13 3'

Project: Da Vinci 7 DaVinci

Collection Date: 9/9/2021 3:56:00 PM

Lab ID: 2109506-003

Matrix: MEOH (SOIL)

Received Date: 9/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	470	60		mg/Kg	20	9/10/2021 9:52:33 AM	62505
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/10/2021 10:52:52 AM	62506
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/10/2021 10:52:52 AM	62506
Surr: DNOP	110	70-130		%Rec	1	9/10/2021 10:52:52 AM	62506
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	9/10/2021 10:01:05 AM	G81194
Surr: BFB	98.0	70-130		%Rec	1	9/10/2021 10:01:05 AM	G81194
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	9/10/2021 10:01:05 AM	B81194
Toluene	ND	0.032		mg/Kg	1	9/10/2021 10:01:05 AM	B81194
Ethylbenzene	ND	0.032		mg/Kg	1	9/10/2021 10:01:05 AM	B81194
Xylenes, Total	ND	0.065		mg/Kg	1	9/10/2021 10:01:05 AM	B81194
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	9/10/2021 10:01:05 AM	B81194

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2109506

Date Reported: 9/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-14 3'

Project: Da Vinci 7 DaVinci

Collection Date: 9/9/2021 3:59:00 PM

Lab ID: 2109506-004

Matrix: MEOH (SOIL)

Received Date: 9/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	250	60		mg/Kg	20	9/10/2021 10:04:58 AM	62505
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/10/2021 11:02:30 AM	62506
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/10/2021 11:02:30 AM	62506
Surr: DNOP	111	70-130		%Rec	1	9/10/2021 11:02:30 AM	62506
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/10/2021 10:24:41 AM	G81194
Surr: BFB	100	70-130		%Rec	1	9/10/2021 10:24:41 AM	G81194
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	9/10/2021 10:24:41 AM	B81194
Toluene	ND	0.041		mg/Kg	1	9/10/2021 10:24:41 AM	B81194
Ethylbenzene	ND	0.041		mg/Kg	1	9/10/2021 10:24:41 AM	B81194
Xylenes, Total	ND	0.082		mg/Kg	1	9/10/2021 10:24:41 AM	B81194
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	9/10/2021 10:24:41 AM	B81194

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2109506

Date Reported: 9/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-15 3'

Project: Da Vinci 7 DaVinci

Collection Date: 9/9/2021 4:02:00 PM

Lab ID: 2109506-005

Matrix: MEOH (SOIL)

Received Date: 9/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	880	60		mg/Kg	20	9/10/2021 10:17:22 AM	62505
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/10/2021 11:12:08 AM	62506
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/10/2021 11:12:08 AM	62506
Surr: DNOP	103	70-130		%Rec	1	9/10/2021 11:12:08 AM	62506
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/10/2021 10:48:13 AM	G81194
Surr: BFB	97.5	70-130		%Rec	1	9/10/2021 10:48:13 AM	G81194
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	9/10/2021 10:48:13 AM	B81194
Toluene	ND	0.037		mg/Kg	1	9/10/2021 10:48:13 AM	B81194
Ethylbenzene	ND	0.037		mg/Kg	1	9/10/2021 10:48:13 AM	B81194
Xylenes, Total	ND	0.074		mg/Kg	1	9/10/2021 10:48:13 AM	B81194
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	9/10/2021 10:48:13 AM	B81194

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2109506

Date Reported: 9/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: N-SW4 3'

Project: Da Vinci 7 DaVinci

Collection Date: 9/9/2021 2:40:00 PM

Lab ID: 2109506-006

Matrix: MEOH (SOIL)

Received Date: 9/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/10/2021 10:54:35 AM	62505
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/10/2021 11:21:46 AM	62506
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/10/2021 11:21:46 AM	62506
Surr: DNOP	104	70-130		%Rec	1	9/10/2021 11:21:46 AM	62506
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/10/2021 11:11:47 AM	G81194
Surr: BFB	98.1	70-130		%Rec	1	9/10/2021 11:11:47 AM	G81194
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	9/10/2021 11:11:47 AM	B81194
Toluene	ND	0.036		mg/Kg	1	9/10/2021 11:11:47 AM	B81194
Ethylbenzene	ND	0.036		mg/Kg	1	9/10/2021 11:11:47 AM	B81194
Xylenes, Total	ND	0.072		mg/Kg	1	9/10/2021 11:11:47 AM	B81194
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	9/10/2021 11:11:47 AM	B81194

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2109506

Date Reported: 9/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: W-SW4 3'

Project: Da Vinci 7 DaVinci

Collection Date: 9/9/2021 2:45:00 PM

Lab ID: 2109506-007

Matrix: MEOH (SOIL)

Received Date: 9/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	300	60		mg/Kg	20	9/10/2021 11:07:00 AM	62505
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/10/2021 11:31:24 AM	62506
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/10/2021 11:31:24 AM	62506
Surr: DNOP	107	70-130		%Rec	1	9/10/2021 11:31:24 AM	62506
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	9/10/2021 11:35:22 AM	G81194
Surr: BFB	98.4	70-130		%Rec	1	9/10/2021 11:35:22 AM	G81194
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.014		mg/Kg	1	9/10/2021 11:35:22 AM	B81194
Toluene	ND	0.029		mg/Kg	1	9/10/2021 11:35:22 AM	B81194
Ethylbenzene	ND	0.029		mg/Kg	1	9/10/2021 11:35:22 AM	B81194
Xylenes, Total	ND	0.057		mg/Kg	1	9/10/2021 11:35:22 AM	B81194
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	9/10/2021 11:35:22 AM	B81194

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2109506

Date Reported: 9/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: E-SW 3'

Project: Da Vinci 7 DaVinci

Collection Date: 9/9/2021 3:00:00 PM

Lab ID: 2109506-008

Matrix: MEOH (SOIL)

Received Date: 9/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	290	60		mg/Kg	20	9/10/2021 11:19:24 AM	62505
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/10/2021 11:41:04 AM	62506
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/10/2021 11:41:04 AM	62506
Surr: DNOP	106	70-130		%Rec	1	9/10/2021 11:41:04 AM	62506
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/10/2021 11:59:11 AM	G81194
Surr: BFB	98.2	70-130		%Rec	1	9/10/2021 11:59:11 AM	G81194
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	9/10/2021 11:59:11 AM	B81194
Toluene	ND	0.037		mg/Kg	1	9/10/2021 11:59:11 AM	B81194
Ethylbenzene	ND	0.037		mg/Kg	1	9/10/2021 11:59:11 AM	B81194
Xylenes, Total	ND	0.075		mg/Kg	1	9/10/2021 11:59:11 AM	B81194
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	9/10/2021 11:59:11 AM	B81194

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109506

14-Sep-21

Client: Talon Artesia
Project: Da Vinci 7 DaVinci

Sample ID: MB-62505		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 62505		RunNo: 81175						
Prep Date: 9/10/2021		Analysis Date: 9/10/2021		SeqNo: 2866584		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62505		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 62505		RunNo: 81175						
Prep Date: 9/10/2021		Analysis Date: 9/10/2021		SeqNo: 2866585		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 9 of 14

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109506

14-Sep-21

Client: Talon Artesia
Project: Da Vinci 7 DaVinci

Sample ID: LCS-62506	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62506	RunNo: 81181								
Prep Date: 9/10/2021	Analysis Date: 9/10/2021	SeqNo: 2865975	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.8	68.9	135			
Surr: DNOP	4.7		5.000		94.9	70	130			

Sample ID: MB-62506	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62506	RunNo: 81181								
Prep Date: 9/10/2021	Analysis Date: 9/10/2021	SeqNo: 2865976	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	70	130			

Sample ID: 2109506-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-11A 3'	Batch ID: 62506	RunNo: 81181								
Prep Date: 9/10/2021	Analysis Date: 9/10/2021	SeqNo: 2867169	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.2	45.96	9.615	83.3	39.3	155			
Surr: DNOP	4.5		4.596		96.9	70	130			

Sample ID: 2109506-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-11A 3'	Batch ID: 62506	RunNo: 81181								
Prep Date: 9/10/2021	Analysis Date: 9/10/2021	SeqNo: 2867170	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.2	46.04	9.615	88.6	39.3	155	5.10	23.4	
Surr: DNOP	5.3		4.604		114	70	130	0	0	

Sample ID: LCS-62471	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62471	RunNo: 81181								
Prep Date: 9/9/2021	Analysis Date: 9/10/2021	SeqNo: 2867171	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.8	70	130			

Sample ID: LCS-62495	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62495	RunNo: 81181								
Prep Date: 9/9/2021	Analysis Date: 9/10/2021	SeqNo: 2867173	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 10 of 14

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109506

14-Sep-21

Client: Talon Artesia
Project: Da Vinci 7 DaVinci

Sample ID: LCS-62495	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 62495		RunNo: 81181							
Prep Date: 9/9/2021	Analysis Date: 9/10/2021		SeqNo: 2867173		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		109	70	130			

Sample ID: MB-62471	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 62471		RunNo: 81181							
Prep Date: 9/9/2021	Analysis Date: 9/10/2021		SeqNo: 2867174		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	70	130			

Sample ID: MB-62495	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 62495		RunNo: 81181							
Prep Date: 9/9/2021	Analysis Date: 9/10/2021		SeqNo: 2867176		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		123	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109506

14-Sep-21

Client: Talon Artesia
Project: Da Vinci 7 DaVinci

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G81194	RunNo: 81194								
Prep Date:	Analysis Date: 9/10/2021	SeqNo: 2866639 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G81194	RunNo: 81194								
Prep Date:	Analysis Date: 9/10/2021	SeqNo: 2866640 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: 2109506-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-11A 3'	Batch ID: G81194	RunNo: 81194								
Prep Date:	Analysis Date: 9/10/2021	SeqNo: 2866641 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	13	2.4	12.21	0	103	61.3	114			
Surr: BFB	550		488.3		113	70	130			

Sample ID: 2109506-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-11A 3'	Batch ID: G81194	RunNo: 81194								
Prep Date:	Analysis Date: 9/10/2021	SeqNo: 2866642 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	13	2.4	12.21	0	105	61.3	114	2.38	20	
Surr: BFB	560		488.3		114	70	130	0	0	

Sample ID: mb-62483	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62483	RunNo: 81194								
Prep Date: 9/9/2021	Analysis Date: 9/11/2021	SeqNo: 2866667 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		96.0	70	130			

Sample ID: lcs-62483	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62483	RunNo: 81194								
Prep Date: 9/9/2021	Analysis Date: 9/11/2021	SeqNo: 2866668 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109506

14-Sep-21

Client: Talon Artesia
Project: Da Vinci 7 DaVinci

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B81194	RunNo: 81194								
Prep Date:	Analysis Date: 9/10/2021	SeqNo: 2866700 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B81194	RunNo: 81194								
Prep Date:	Analysis Date: 9/10/2021	SeqNo: 2866701 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.93	0.050	1.000	0	93.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.4	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	70	130			

Sample ID: 2109506-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-12 3'	Batch ID: B81194	RunNo: 81194								
Prep Date:	Analysis Date: 9/10/2021	SeqNo: 2866702 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.54	0.015	0.6006	0	90.5	80	120			
Toluene	0.56	0.030	0.6006	0	92.9	80	120			
Ethylbenzene	0.56	0.030	0.6006	0	93.6	80	120			
Xylenes, Total	1.7	0.060	1.802	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	0.57		0.6006		94.2	70	130			

Sample ID: 2109506-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-12 3'	Batch ID: B81194	RunNo: 81194								
Prep Date:	Analysis Date: 9/10/2021	SeqNo: 2866703 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.54	0.015	0.6006	0	89.4	80	120	1.21	20	
Toluene	0.55	0.030	0.6006	0	91.7	80	120	1.29	20	
Ethylbenzene	0.55	0.030	0.6006	0	91.9	80	120	1.86	20	
Xylenes, Total	1.7	0.060	1.802	0	92.6	80	120	0.592	20	
Surr: 4-Bromofluorobenzene	0.57		0.6006		95.5	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109506

14-Sep-21

Client: Talon Artesia
Project: Da Vinci 7 DaVinci

Sample ID: mb-62483	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62483	RunNo: 81194								
Prep Date: 9/9/2021	Analysis Date: 9/11/2021	SeqNo: 2866753			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	70	130			

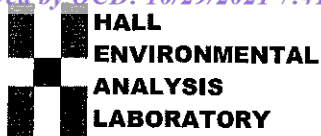
Sample ID: LCS-62483	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62483	RunNo: 81194								
Prep Date: 9/9/2021	Analysis Date: 9/11/2021	SeqNo: 2866754			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Talon/LPE

Work Order Number: 2109506

RcptNo: 1

Received By: Cheyenne Cason

9/10/2021 7:20:00 AM

Completed By: Isaiah Ortiz

9/10/2021 7:38:11 AM

Reviewed By: DAD 9/10/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: JR 9/10/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Not Present			

Chain-of-Custody Record

Client: <u>Talon LDE</u>		Turn-Around Time: <u>Same day</u>	
Mailing Address: <u>Q. file</u>		<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>24hrs</u>	
Phone #: <u>701.62.103.01</u>		Project Name: <u>Davies 7 (Davies)</u>	
Email or Fax#: <u>701.62.103.01</u>		Project #: <u>55</u>	
QA/QC Package: <u>Level 4 (Full Validation)</u>		Project Manager: <u>R. Pons</u>	
Accreditation: <input type="checkbox"/> Az Compliance		Sampler: <u>J. Carner</u>	
<input type="checkbox"/> NELAC <input type="checkbox"/> Other		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type)		# of Coolers: <u>1</u>	
Date: <u>9-9-21</u> Time: <u>3:50</u> Matrix: <u>Soil</u> Sample Name: <u>S-11A</u> 3'		Cooler Temp (including ice): <u>4.8 to 10.1549 (°C)</u>	
3:58 <u>S-12</u> 3'		Container Type and # <u>Glass Jar</u> Preservative Type <u>Ice Cool</u> HEAL No. <u>2109506</u>	
3:56 <u>S-13</u> 3'		001	
3:59 <u>S-14</u> 3'		002	
4:02 <u>S-15</u> 3'		003	
2:40 <u>N-SW 4</u> 3'		004	
2:45 <u>W-SW 4</u> 3'		005	
3:00 <u>E-SW 3'</u>		006	
		007	
		008	
Relinquished by: <u>James Lee</u>		Received by: <u>Shawn</u> Date: <u>9/9/21</u> Time: <u>1730</u>	
Relinquished by: <u>James Lee</u>		Received by: <u>Shawn</u> Date: <u>9/9/21</u> Time: <u>1730</u>	
Via: <u>Car</u>		Via: <u>Car</u>	
Date: <u>9/9/21</u> Time: <u>1900</u>		Date: <u>9/9/21</u> Time: <u>0720</u>	



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

<input checked="" type="checkbox"/> BTEX	MTBE / TMB's (8021)
<input checked="" type="checkbox"/> TPH	B015D(GRO / DRO / MRO)
	8081 Pesticides/8082 PCB's
	EDB (Method 504.1)
	PAHs by 8310 or 8270SIMS
	RCRA 8 Metals
<input checked="" type="checkbox"/> Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
	8260 (VOA)
	8270 (Semi-VOA)
	Total Coliform (Present/Absent)

Remarks:



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 15, 2021

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX

RE: Davinci 7

OrderNo.: 2109581

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/11/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2109581

Date Reported: 9/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-15 4'

Project: Davinci 7

Collection Date: 9/10/2021 12:30:00 PM

Lab ID: 2109581-001

Matrix: MEOH (SOIL)

Received Date: 9/11/2021 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	170	60		mg/Kg	20	9/13/2021 5:54:05 AM	62526
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/11/2021 3:09:14 PM	62523
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/11/2021 3:09:14 PM	62523
Surr: DNOP	100	70-130		%Rec	1	9/11/2021 3:09:14 PM	62523
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/13/2021 9:55:00 AM	G81229
Surr: BFB	99.9	70-130		%Rec	1	9/13/2021 9:55:00 AM	G81229
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	9/13/2021 9:55:00 AM	B81229
Toluene	ND	0.038		mg/Kg	1	9/13/2021 9:55:00 AM	B81229
Ethylbenzene	ND	0.038		mg/Kg	1	9/13/2021 9:55:00 AM	B81229
Xylenes, Total	ND	0.075		mg/Kg	1	9/13/2021 9:55:00 AM	B81229
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	9/13/2021 9:55:00 AM	B81229

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109581

15-Sep-21

Client: Talon Artesia**Project:** Davinci 7

Sample ID: MB-62526	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62526	RunNo: 81207								
Prep Date: 9/13/2021	Analysis Date: 9/13/2021	SeqNo: 2868182	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62526	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62526	RunNo: 81207								
Prep Date: 9/13/2021	Analysis Date: 9/13/2021	SeqNo: 2868183	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109581

15-Sep-21

Client: Talon Artesia**Project:** Davinci 7

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B81229			RunNo: 81229						
Prep Date:	Analysis Date: 9/13/2021			SeqNo: 2868148		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B81229			RunNo: 81229						
Prep Date:	Analysis Date: 9/13/2021			SeqNo: 2868153		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109581

15-Sep-21

Client: Talon Artesia**Project:** Davinci 7

Sample ID: mb	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: G81229				RunNo: 81229					
Prep Date:	Analysis Date: 9/13/2021				SeqNo: 2868112		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: G81229				RunNo: 81229					
Prep Date:	Analysis Date: 9/13/2021				SeqNo: 2868113		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	78.6	131			
Surr: BFB	1200		1000		118	70	130			

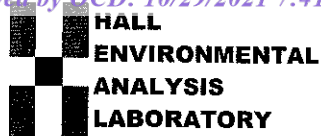
Sample ID: 2109581-001ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: S-15 4'	Batch ID: G81229				RunNo: 81229					
Prep Date:	Analysis Date: 9/13/2021				SeqNo: 2868114		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.8	18.84	0	111	61.3	114			
Surr: BFB	910		753.6		121	70	130			

Sample ID: 2109581-001amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: S-15 4'	Batch ID: G81229				RunNo: 81229					
Prep Date:	Analysis Date: 9/13/2021				SeqNo: 2868115		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.8	18.84	0	108	61.3	114	2.88	20	
Surr: BFB	900		753.6		120	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Talon Artesia

Work Order Number: 2109581

RcptNo: 1

Received By: Desiree Dominguez 9/11/2021 8:50:00 AM

Completed By: Desiree Dominguez 9/11/2021 9:09:22 AM

Reviewed By: *AM* 09/11/2021

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____

(<2 or >12 unless noted)

Adjusted?

Checked by: DAD 9/11/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

Regarding:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good				

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 58548

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 58548
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/15/2021