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

Responsible Party: Centennial Resource Production, Inc

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

Released to Imaging: 11/17/2021 11:30:21 AM

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

# **Release Notification**

# Responsible Party

OGRID: 372165

Contact ama	Contact Name: Jamon Hohensee			Contact Telephone:	432-241-4283	
Contact email: jamon.hohensee@cdevinc.com				Incident # nAPP2102628107		
Contact mai Texas 79705	lling address 5	s: 500 W. Illinois .	Ave, Suite 500, N	Midland		
			Locatio	n of R	elease Source	
atitude 32.4	45868		(NAD 83 in	decimal de	Longitude -103.5111s grees to 5 decimal places)	8
Site Name: Ji	uice Bud Sta	ate Com 502H			Site Type: Production	n Facility
Date Release	Discovered	l: 1/22/21	******		API# (if applicable)	
Unit Letter	Section	Township	Range		County	
N	19	21S	34E	Lea	Oddiny	
Crude Oil	<u>Materia</u>	Volume Release	all that apply and atta	ch calculati	ons or specific justification	for the volumes provided below)
	i	Volume Releas	ed (bbls) 3	ch calculati	Volume	Recovered (bbls)
	i	Volume Releas  Volume Releas	ed (bbls) 3 ed (bbls) 3		Volume Volume	Recovered (bbls) Recovered (bbls)
☑ Produced	Water	Volume Releas  Volume Releas  Is the concentra	ed (bbls) 3 ed (bbls) 3 ition of dissolved		Volume Volume	Recovered (bbls) Recovered (bbls)
	Water	Volume Releas  Volume Releas	ed (bbls) 3  ed (bbls) 3  ution of dissolved >10,000 mg/l?		Volume Volume in the Yes	Recovered (bbls) Recovered (bbls)
Produced	Water	Volume Releas  Volume Releas  Is the concentra produced water	ed (bbls) 3  ed (bbls) 3  ution of dissolved  >10,000 mg/l?  ed (bbls)		Volume Volume in the Yes Volume	Recovered (bbls)  Recovered (bbls)  No
	Water  ate	Volume Releas  Volume Releas  Is the concentra produced water  Volume Releas  Volume Releas	ed (bbls) 3  ed (bbls) 3  ution of dissolved  >10,000 mg/l?  ed (bbls)	l chloride	Volume Volume in the Yes Volume Volume	Recovered (bbls)  Recovered (bbls)  No  Recovered (bbls)

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

Released to Imaging: 11/17/2021 11:30:21 AM

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☒ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	coverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
Per 10 15 20 8 B (4) NM	AC the responsible ports may compare the line in the line of the responsible ports may compare the line in the line of the lin
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the infor	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environm	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
tailed to adequately investiga	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	resident of the positionary for compliance with any other reductal, state, or local laws
Printed Name: Jamon Hoh	Title: Sr. Environmental Analyst
Signature:	Date: 2/11/21
email: jamon.hohensee@c	
OCD Only	
Received by:	Date:
}	

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

No usable Jato This information must be provided to the appropriate district office no later than 90 days after the release discovery date. What is the shallowest depth to groundwater beneath the area affected by the release? (ft bgs) Did this release impact groundwater or surface water? Yes 🔼 No Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant ☐ Yes ☑ No watercourse? Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ☐ Yes ☑ No ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, Yes 🔂 No or church? Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used ☐ Yes ⊠ No by less than five households for domestic or stock watering purposes? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? ☐ Yes ⋈ No Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh ☐ Yes 🖾 No water well field? Are the lateral extents of the release within 300 feet of a wetland? ☐ Yes 🗖 No Are the lateral extents of the release overlying a subsurface mine? ☐ Yes ☒ No Are the lateral extents of the release overlying an unstable area such as karst geology? ☐ Yes 🖾 No Are the lateral extents of the release within a 100-year floodplain? ☐ Yes ☒ No Did the release impact areas not on an exploration, development, production, or storage site? 🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

# Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Received by OCD: 8/11/2021 12:00:16 AM

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release M
- Boring or excavation logs
- X Photographs including date and GIS information
- X Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the	host of my language and a language a
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 not	ifications and perform corrective actions for releases which may endanger
public health of the environment. The acceptance of a C-141 report by the (	(1) does not relieve the operator of lightlift, should their operations become
rance to adequately nivestigate and remediate contamination that nose a three	eat to groundwater curface water human health as the ancies and I
addition, OCD acceptance of a C-141 report does not relieve the operator of	responsibility for a sea the season of the chynomical in
addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	responsionly for compliance with any other federal, state, or local laws
and or regulations.	
Printed Name: Samon Hohensee	Title: St + Division to land
12 10 110 110 110	Title: St. Environmental Analyst
$\epsilon = 1/2$	
Signature: Son H. M.	Date: 8-10-21
email: jamon hohensee @ cdeving com	
email: MMan ha hence la adam'as	Telephone: 432-241-4783
Than Jarren I Provide Com	Telephone: 452-141-4/85
OCD Only	
Received by:	Date:

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

Released to Imaging: 11/17/2021 11:30:21 AM

# **Remediation Plan**

Remediation Plan Checklists Freek of the Giller			
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)			
Defensed Brown to O. L. The Control of the Control			
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: Somers Histories Title: 55. Eviconwessal Analyst.			
Printed Name: Somers Hohensee Title: St. Evironmental Analyst.  Signature: Soll Date: 8-10-21			
email: Jamon hohenser@ caevinc.com Telephone: 432-241-4283			
OCD Only			
Received by: Date:			
Approved Approved with Attached Conditions of Approval Denied Deferral Approved			
Signature: Date:			

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

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

# 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.

A scaled site and sampling diagram as described in 19.15.29.11 NM	AC	
Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection)	liner integrity if applicable (Note: appropriate OCD District office	
Laboratory analyses of final sampling (Note: appropriate ODC Distr	rict 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 and regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-14 should their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a C-14 compliance with any other federal, state, or local laws and/or regulations. restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD with Printed Name:    Amon   Achieve Co Cheving Con Telepole   Date:   D	se notifications and perform corrective actions for releases which it report by the OCD does not relieve the operator of liability e contamination that pose a threat to groundwater, surface water, it report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially is that existed prior to the release or their final land use in the reclamation and re-vegetation are complete.	
OCD Only		
Received by:	Date:	
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:	
Printed Name:	Title:	



# CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT

Centennial Resource Development, Inc.
Juice Bud State COM 502H (Wellhead)
Lea County, New Mexico
Unit Letter "N", Section 19, Township 21 South, Range 34 East
Latitude 32.45868° North, Longitude 103.51118° West
NMOCD Reference # nAPP2102628107

Prepared For:

Centennial Resource Development, Inc.

500 W. Illinois Avenue Suite 500 Midland, TX 79701

Prepared By:

**Etech Environmental & Safety Solutions, Inc.** 

P.O. Box 62228 Midland, Texas 79711

August 2021

Wesley A. Desilets Project Manager

Senior Project Manager

Matthew Green, P.G.

#### TABLE OF CONTENTS

INTRODUCTION	.1
NMOCD SITE CLASSIFICATION	.1
SUMMARY OF SOIL REMEDIATION ACTIVITIES	2
SOIL DISPOSAL AND BACKFILL ACTIVITIES	3
SITE CLOSURE REQUEST	3
LIMITATIONS	.3
DISTRIBUTION	۷.

#### **FIGURES**

Figure 1 – Site Location Map

Figure 2 – Site Details and Sample Location Map

#### **TABLES**

Table 1 – Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

#### **APPENDICES**

Appendix A – Photographic Documentation

 $Appendix \ B-Analytical \ Reports$ 

Appendix C – Release Notification and Corrective Action (Form C-141)

#### **INTRODUCTION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Juice Bud State COM 502H (Wellhead). The legal description of the Release Site is Unit Letter "N", Section 19, Township 21 South, Range 34 East, in Lea County, New Mexico. The subject property is owned by The New Mexico State Land Office (NMSLO). The Release Site GPS coordinates are 32.45868° North and 103.51118° West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site Details and Sample Location Map.

On January 22, 2021, Centennial discovered that a release had occurred at the Juice Bud State COM 502H (Wellhead) Release Site. A two (2) inch nipple on the wellhead failed, resulting in the release of approximately three (3) barrels of crude oil and three (3) barrels of produced water with zero (0) barrels of crude oil and zero (0) barrels of produced water recovered, resulting in a net loss of approximately three (3) barrels of crude oil and three (3) barrels of produced water. On February 11, 2021, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and NMSLO documenting the release. The Form C-141 is provided as Appendix C. Photographic documentation for the site are provided as Appendix A.

#### NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Juice Bud State COM 502H (Wellhead) Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 322641103311201 located approximately one (1) mile southwest of the Release Site. The average depth to groundwater for USGS Well #: 322641103311201 should be encountered at approximately fifty-five (55) feet below ground surface (bgs). No water wells were observed within one thousand (1,000) feet of the Release Site. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, the Juice Bud State COM 502H (Wellhead) Release Site soil remediation levels are as follows:

- Benzene 10 mg/Kg (ppm)
- BTEX -50 mg/Kg (ppm)
- TPH 100 mg/Kg (ppm)
- Chloride 600 mg/Kg (ppm)

#### SUMMARY OF SOIL REMEDIATION ACTIVITIES

From February 24 through March 2, 2021, Etech commenced excavation activities at the Release Site utilizing a backhoe and manual means. Excavated soil was stockpiled on site awaiting disposal. Excavation activities were conducted in a manner that protected the integrity of the production equipment. Etech hand spotted around all surface equipment and excavated by hand all impacted material within two (2) feet of any production equipment. Etech, on behalf of Centennial, collected three (3) composite confirmation soil samples (BH1 @ 18", BH2 @ 18", and BH3 @ 18") from the base of the excavated area, and four (4) composite horizontal confirmation soil samples (NWW, NEW, SWW, and SEW) from the sidewalls of the excavated area. The soil samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, Texas and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated additional excavation activities were necessary due to elevated TPH concentrations for the composite confirmation soil samples (BH1 @ 18", BH2 @ 18", and BH3 @ 18") and for the composite horizontal confirmation soil sample (NWW). Please reference Figure 2 for site details and soil sample locations.

On March 30, 2021, following further excavation activities, three (3) composite confirmation soil samples (BH-1A @ 24", BH-2A @ 18", and BH-3A @ 24") were collected from the base of the further excavated area, and one (1) composite horizontal confirmation soil sample (NWW-A @ 12") was collected from the sidewall of the further excavated area. The samples were submitted to PBELAB for TPH analysis. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits. Please reference Figure 2 for site details and soil sampling locations.

On May 10, 2021, three (3) additional composite confirmation soil samples were collected from the base of the excavation (Comp-1, Comp-2, and Comp-3), and two (2) composite horizontal confirmation soil samples (WW-1 @ 1' and WW-2 @ 1') were collected from sidewalls of the excavation as part of a landowner confirmation sampling event. The samples were submitted to PBELAB for BTEX, TPH, and chloride analysis. A review of laboratory analytical results indicated that additional excavation activities were necessary due to elevated TPH concentrations for the composite confirmation soil sample (Comp-2) and for the composite horizontal confirmation soil sample (WW-2 @ 1'). The landowner's analytical results indicated that additional excavation activities were also necessary due to elevated TPH concentrations for the composite horizontal confirmation soil sample (WW-1 @ 1'). Please reference Figure 2 for site details and soil sampling locations.

On May 21, 2021, following further excavation activities, one (1) composite confirmation soil sample (Comp-2) was collected from the base of the further excavated area, and two (2) composite horizontal confirmation soil sample (WW-1 and WW-2) were collected from the sidewall of the further excavated area. The samples were submitted to PBELAB for TPH analysis. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits. Please reference Figure 2 for site details and soil sampling locations.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

#### SOIL DISPOSAL AND BACKFILL ACTIVIES

From June 23 through June 25, 2021, Etech transported the impacted stockpiled soil to the Sundance disposal facility in Lea County, NM. The excavated area was backfilled with non-impacted like soil from a landowner approved source and the site was contoured to fit the surrounding area.

#### SITE CLOSURE REQUEST

Based on the analytical results, Centennial requests NMOCD grant Site Closure Status to the Juice Bud State COM 502H (Wellhead) Release Site, incident number nAPP2102628107.

#### LIMITATIONS

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. This report has been prepared for the benefit of Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

#### **DISTRIBUTION**

Copy 1: New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1624 N. French Drive Hobbs, New Mexico 88210

Copy 2: Ryan Mann

New Mexico State Land Office Field Operations Division

2827 N. Dal Paso Street, Suite 117

Hobbs, New Mexico 88240

Copy 2: Jamon Hohensee

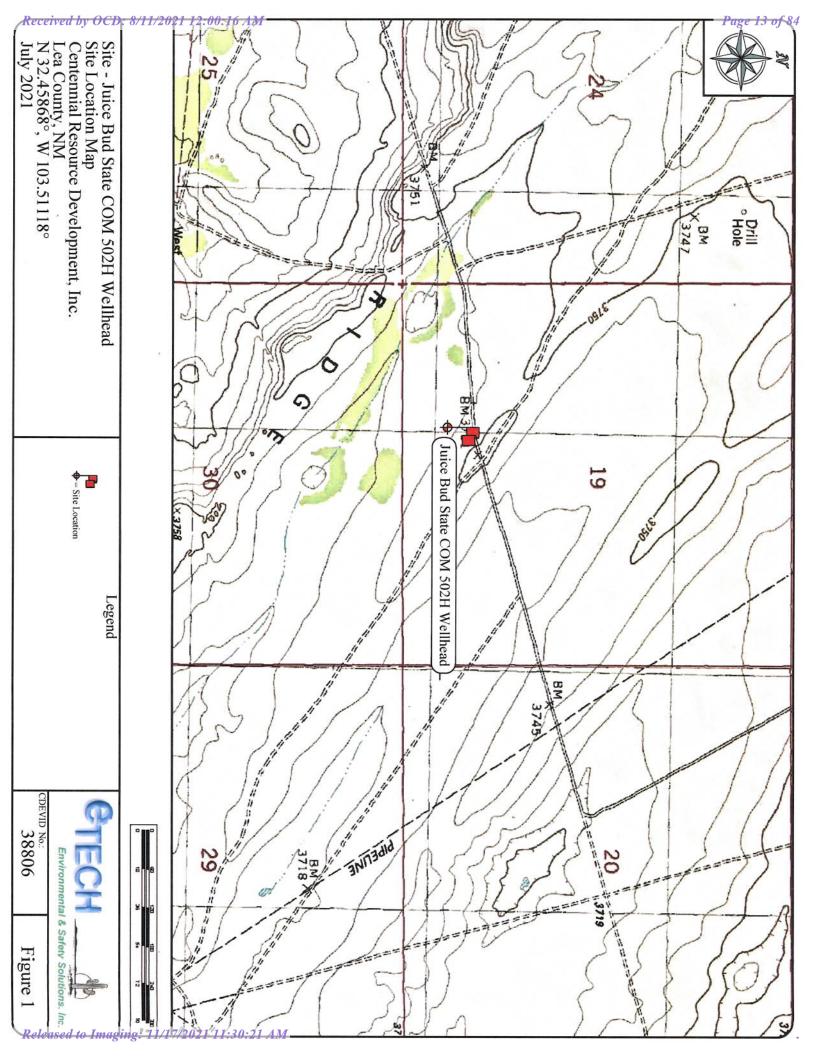
Centennial Resource Development, Inc. 500 W. Illinois Avenue, Suite 500

Midland, Texas 79701

Copy 3: Etech Environmental & Safety Solutions, Inc.

P.O. Box 62228

Midland, Texas 79711



Received by OCD: 8/11/2021 12:00:16 AM Site - Juice Bud State COM 502H Wellhead Site Details and Sample Location Map Centennial Resource Development, Inc. Lea County, NM N 32.45868°, W 103.51118° July 2021 WW-1 @ 1' WW-2 WW-2 @ 1' COMP-2 Wellhead SWW COMP-3 BH-1A @ 24" BH-1 @ 18" = Bottom Hole Sample Points ■ = Side Wall Sample Points NWW NWW-A @ 12" BH-3 @ 18" BH-3A @ 24" SEW Legend Notes: ► All samples are 5 point composites ► All samples points are approximate Excavation Perimeter NEW BH-2A @ 24" BH-2 @ 18" COMP-1 CDEVID No.: 38806 Environmental & Safety Solutions, Inc. Figure 2 ased to Imaging: 11/17/2021 11:30:21 AM

TABLE 1

#### CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

#### CENTENNIAL RESOURCE DEVELOPMENT, INC.

#### JUICE BUD STATE COM 502H WELLHEAD RELEASE

LEA COUNTY, NEW MEXICO

				METHODS:	SW 846-80211		e reported in mg/Kg		N	METHOD: SW 80	15M		E 300.0
SAMPLE LOCATION	SAMPLE DATE	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C <sub>6</sub> -C <sub>12</sub>	TPH DRO C <sub>12</sub> -C <sub>28</sub>	TPH ORO C <sub>28</sub> -C <sub>35</sub>	TOTAL TPH C <sub>6</sub> -C <sub>35</sub>	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
					В	ottom Hole S	ample Results						
BH1 @ 18"	3/2/2021	0.00428	0.0155	0.00670	0.0369	0.0122	0.0491	0.07558	150	2,260	380	2,790	96.9
BH-1A @ 24"	3/30/2021	-	-	-	-	-	-	-	ND	50.9	26.4	77.3	-
BH2 @ 18"	3/2/2021	0.00143	0.00910	0.00164	0.00495	0.00107	0.00602	0.01819	30.5	959	185	1,174.5	127
BH-2A @ 24"	3/30/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-
ВНЗ @ 18"	3/2/2021	0.00183	0.0117	0.00238	0.00779	0.00306	0.01085	0.02676	33.9	1,150	185	1,368.9	67.1
BH-3A @ 24"	3/30/2021	-	-	•	-	-	-	-	ND	ND	ND	ND	-
						Sidewall San	nple Results						
NWW	3/2/2021	ND	0.00138	ND	ND	ND	ND	0.00138	ND	88.0	26.4	114.4	164
NWW-A @ 12"	3/30/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-
NEW	3/2/2021	ND	0.00128	ND	ND	ND	ND	0.00128	ND	72.6	ND	72.6	39.1
sww	3/2/2021	ND	0.00179	ND	ND	ND	ND	0.00179	ND	ND	ND	ND	56.7
SEW	3/2/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	107
Comp-1	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	32.7	ND	32.7	85.9
Comp-2	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	291	38.9	329.9	113
Comp-2	5/21/2021	-	-	-	-	-	-	-	ND	42.2	ND	42.2	-
Comp-3	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	35.0	ND	35.0	55.6
WW-1 @ 1'	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	51.8	ND	51.8	151
WW-1	5/21/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-
WW-2 @ 1'	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	147	ND	147	437
WW-2	5/21/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-

Bold and Yellow Highlighted indicates analyte above NMOCD regulatory limit

ND indicates analyte below laboratory method detection limit

## Photographic Documentation

Project Name: Juice Bud State COM 502H Wellhead

Project No: 13717

Photo No:

**Direction Taken:** 

Northwest

Description:

View of the release area.



Photo No: 2.

**Direction Taken:** 

Southeast

Description:

View of the release area.



## Photographic Documentation

Project Name: Juice Bud State COM 502H Wellhead

Project No: 13717

Photo No:

**Direction Taken:** 

Northwest

Description:

View of the excavated area.



Photo No:

**Direction Taken:** 

Southeast

Description:

View of the excavated area.



Photographic Documentation

Project Name: Juice Bud State COM 502H Wellhead

Project No: 13717

Photo No: 5.

**Direction Taken:** 

Northwest

Description:

View of the remediated area.



Photo No:

**Direction Taken:** 

Southeast

Description:

View of the remediated area.



# PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



# Analytical Report

## **Prepared for:**

Matt Green
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Juice Bud State Com 502 A Wellhead
Project Number: 13717

Location: NM

Lab Order Number: 1C04015



NELAP/TCEQ # T104704516-17-8

Report Date: 03/14/21

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH1 @ 18"	1C04015-01	Soil	03/02/21 08:05	03-04-2021 15:03
BH2 @ 18"	1C04015-02	Soil	03/02/21 08:10	03-04-2021 15:03
ВНЗ @ 18"	1C04015-03	Soil	03/02/21 08:15	03-04-2021 15:03
NWW	1C04015-04	Soil	03/02/21 09:35	03-04-2021 15:03
NEW	1C04015-05	Soil	03/02/21 09:40	03-04-2021 15:03
SWW	1C04015-06	Soil	03/02/21 09:45	03-04-2021 15:03
SEW	1C04015-07	Soil	03/02/21 09:50	03-04-2021 15:03

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Fax: (432) 563-2213

Project Number: 13717 Project Manager: Matt Green

> BH1 @ 18" 1C04015-01 (Soil)

Analyta	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Result	Limit	Units	Dilution	Daten	rrepared	Analyzed	ivieulod	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, l	L <b>.P.</b>				
BTEX by 8021B									
Benzene	0.00428	0.00103	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Toluene	0.0155	0.00103	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	0.00670	0.00103	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	0.0369	0.00206	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	0.0122	0.00103	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
General Chemistry Parameters by E	DA / Standard Mathod	le							
Chloride	96.9	1.03	mg/kg dry	1	P1C1003	03/10/21	03/11/21	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	150	25.8	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C12-C28	2260	25.8	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C28-C35	380	25.8	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: 1-Chlorooctane		122 %	70-1	30	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: o-Terphenyl		139 %	70-1	30	P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	2790	25.8	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Fax: (432) 563-2213

Project Number: 13717 Project Manager: Matt Green

### BH2 @ 18" 1C04015-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	tal Lab, l	L <b>.P.</b>				
BTEX by 8021B									
Benzene	0.00143	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Toluene	0.00910	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	0.00164	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	0.00495	0.00213	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	0.00107	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-12	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-12	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	127	1.06	mg/kg dry	1	P1C1003	03/10/21	03/11/21	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	15M							
C6-C12	30.5	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C12-C28	959	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C28-C35	185	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-13	30	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: o-Terphenyl		141 %	70-13	30	P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1170	26.6	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

> BH3 @ 18" 1C04015-03 (Soil)

		ъ:							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	iian Basin E	Invironmen	ıtal Lab, l	L <b>.P.</b>				
BTEX by 8021B									
Benzene	0.00183	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Toluene	0.0117	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	0.00238	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	0.00779	0.00213	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	0.00306	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
General Chemistry Parameters by EPA	A / Standard Mothod	6							
Chloride	67.1	1.06	mg/kg dry	1	P1C1003	03/10/21	03/11/21	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	33.9	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C12-C28	1150	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C28-C35	185	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-1	30	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-1	30	P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1370	26.6	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

13000 West County Road 100Project Number:13717Odessa TX, 79765Project Manager:Matt Green

Fax: (432) 563-2213

NWW

1C04015-04 (Soil)

Project: Juice Bud State Com 502 A Wellhead

. ,										
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note	
	Peri	nian Basin I	Environme	ntal Lab, l	L <b>.P.</b>					
BTEX by 8021B										
Benzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B		
Toluene	0.00138	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B		
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B		
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B		
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B		
Surrogate: 1,4-Difluorobenzene		102 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B		
Surrogate: 4-Bromofluorobenzene		113 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B		
General Chemistry Parameters by E	PA / Standard Method	ls								
Chloride	164	1.05	mg/kg dry	1	P1C1003	03/10/21	03/11/21	EPA 300.0		
% Moisture	5.0	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216		
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	)15M								
C6-C12	ND	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M		
>C12-C28	88.0	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M		
>C28-C35	26.4	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M		
Surrogate: 1-Chlorooctane		120 %	70-1	30	P1C0508	03/05/21	03/05/21	TPH 8015M		
Surrogate: o-Terphenyl		136 %	70-1	30	P1C0508	03/05/21	03/05/21	TPH 8015M	S-GO	
Total Petroleum Hydrocarbon	114	26.3	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc		

C6-C35

Project: Juice Bud State Com 502 A Wellhead roject Number: 13717

Fax: (432) 563-2213

13000 West County Road 100 Odessa TX, 79765 Project Number: 13717 Project Manager: Matt Green

## NEW 1C04015-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	nvironmer	ıtal Lab, l	L <b>.P.</b>				
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Toluene	0.00128	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	39.1	1.05	mg/kg dry	1	P1C1101	03/11/21	03/11/21	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C12-C28	72.6	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-1	30	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-1	30	P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	72.6	26.3	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

13000 West County Road 100 Project Number: 13717
Odessa TX, 79765 Project Manager: Matt Green

Fax: (432) 563-2213

### SWW 1C04015-06 (Soil)

Project: Juice Bud State Com 502 A Wellhead

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	ıtal Lab, l	L <b>.P.</b>				
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Toluene	0.00179	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-1.	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-1.	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>General Chemistry Parameters by EPA/S</b>	Standard Method	ls							
Chloride	56.7	1.05	mg/kg dry	1	P1C1101	03/11/21	03/11/21	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-1.	30	P1C0511	03/05/21	03/07/21	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-1.	30	P1C0511	03/05/21	03/07/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/05/21	03/07/21	calc	

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc. [1]

Project: Juice Bud State Com 502 A Wellhead Project Number: 13717

13000 West County Road 100 Odessa TX, 79765

Project Number: 13717
Project Manager: Matt Green

SEW 1C04015-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ntal Lab,	L <b>.P.</b>				
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	80-1	20	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>General Chemistry Parameters by EPA</b>	Standard Method	ls							
Chloride	107	1.05	mg/kg dry	1	P1C1101	03/11/21	03/11/21	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 b	oy EPA Method 80	15M							
C6-C12	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-1	30	P1C0511	03/05/21	03/07/21	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-1	30	P1C0511	03/05/21	03/07/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/05/21	03/07/21	calc	

Notes

E Tech Environmental & Safety Solutions, Inc. [1]

Analyte

13000 West County Road 100 Prodessa TX, 79765 Pro

Project: Juice Bud State Com 502 A Wellhead

Spike

Level

0.120

0.100

0.100

0.100

0.200

0.100

0.120

0.120

Prepared & Analyzed: 03/05/21

Source

Result

%REC

Fax: (432) 563-2213

RPD

Limit

%REC

Limits

RPD

Project Number: 13717 Project Manager: Matt Green

Reporting

Limit

Result

0.123

0.0927

0.100

0.117

0.240

0.107

0.127

0.129

0.00100

0.00100

0.00100

0.00200

0.00100

mg/kg wet

# BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Units

1 mary to	resure	Ziiiii	Omto	Ee · ei	resum	, or en	Zimino	10 5	Ziiiii	110105
Batch P1C0506 - *** DEFAULT PR	EP ***									
Blank (P1C0506-BLK1)				Prepared &	Analyzed:	03/05/21				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			
LCS (P1C0506-BS1)				Prepared &	Analyzed:	03/05/21				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.111	0.00100	"	0.100		111	70-130			
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130			
Xylene (p/m)	0.238	0.00200	"	0.200		119	70-130			
Xylene (o)	0.120	0.00100	"	0.100		120	70-130			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
LCS Dup (P1C0506-BSD1)				Prepared &	Analyzed:	03/05/21				
Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	70-130	2.71	20	
Toluene	0.110	0.00100	"	0.100		110	70-130	1.07	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130	4.14	20	
Xylene (p/m)	0.237	0.00200	"	0.200		118	70-130	0.652	20	
Xylene (o)	0.111	0.00100	"	0.100		111	70-130	7.47	20	
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.6	80-120			

Permian Basin Environmental Lab, L.P.

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene Surrogate: 4-Bromofluorobenzene

Benzene

Toluene

Ethylbenzene

Xylene (p/m)

Xylene (o)

Calibration Check (P1C0506-CCV1)

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

103

92.7

100

117

120

107

105

108

80-120

80-120

80-120

80-120

80-120

80-120

75-125

75-125

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Fax: (432) 563-2213

Project Number: 13717 Project Manager: Matt Green

# BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1C0506 - *** DEFAULT PREP ***										
Calibration Check (P1C0506-CCV2)				Prepared &	z Analyzed:	03/05/21				
Benzene	0.0967	0.00100	mg/kg wet	0.100		96.7	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		113	75-125			
Calibration Check (P1C0506-CCV3)				Prepared &	Analyzed:	03/05/21				
Benzene	0.0954	0.00100	mg/kg wet	0.100		95.4	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	75-125			
Matrix Spike (P1C0506-MS1)	Sou	ırce: 1C04015	5-01	Prepared &	Analyzed:	03/05/21				
Benzene	0.0692	0.00103	mg/kg dry	0.103	0.00428	63.0	80-120			QM-07
Toluene	0.0619	0.00103	"	0.103	0.0155	45.1	80-120			QM-07
Ethylbenzene	0.0400	0.00103	"	0.103	0.00670	32.3	80-120			QM-07
Xylene (p/m)	0.0914	0.00206	"	0.206	0.0369	26.4	80-120			QM-07
Xylene (o)	0.0539	0.00103	"	0.103	0.0122	40.5	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.118		"	0.124		95.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.124		103	80-120			
Matrix Spike Dup (P1C0506-MSD1)	Sou	ırce: 1C04015	5-01	Prepared &	Analyzed:	03/05/21				
Benzene	0.0847	0.00103	mg/kg dry	0.103	0.00428	78.0	80-120	21.3	20	QM-07
Toluene	0.0791	0.00103	"	0.103	0.0155	61.7	80-120	31.2	20	QM-07
Ethylbenzene	0.0564	0.00103	"	0.103	0.00670	48.2	80-120	39.5	20	QM-07
Xylene (p/m)	0.119	0.00206	"	0.206	0.0369	39.6	80-120	39.9	20	QM-07
Xylene (o)	0.0686	0.00103	"	0.103	0.0122	54.7	80-120	29.9	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.133		"	0.124		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.124		103	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

13000 West County Road 100 Project Number: 13717 Odessa TX, 79765

Fax: (432) 563-2213

Project Manager: Matt Green

Project: Juice Bud State Com 502 A Wellhead

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC	222	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1C0603 - *** DEFAULT PREP ***										
Blank (P1C0603-BLK1)				Prepared &	Analyzed:	03/08/21				
% Moisture	ND	0.1	%							
Batch P1C1003 - *** DEFAULT PREP ***										
Blank (P1C1003-BLK1)				Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	ND	1.00	mg/kg wet							
LCS (P1C1003-BS1)				Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	388	1.00	mg/kg wet	400		97.1	90-110			
LCS Dup (P1C1003-BSD1)				Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	383	1.00	mg/kg wet	400		95.9	90-110	1.29	20	
Calibration Check (P1C1003-CCV1)				Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	18.9		mg/kg	20.0		94.6	90-110			
Calibration Check (P1C1003-CCV2)				Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	18.3		mg/kg	20.0		91.6	90-110			
Calibration Check (P1C1003-CCV3)				Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	18.4		mg/kg	20.0		92.1	90-110			
Matrix Spike (P1C1003-MS1)	Sou	rce: 1C09008	3-17	Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	15400	52.6	mg/kg dry	5260	10500	93.5	80-120			
Matrix Spike (P1C1003-MS2)	Sou	rce: 1C04013	3-09	Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	699	1.01	mg/kg dry	505	373	64.6	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

13000 West County Road 100 Project Number: 13717 Odessa TX, 79765

Fax: (432) 563-2213

Project Manager: Matt Green

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Project: Juice Bud State Com 502 A Wellhead

		D (		C T	C		0/DEC		DDD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1C1003 - *** DEFAULT PREP ***										
	G	rce: 1C09008	0.17	D 1. /	02/10/21 A	1	/11/21			
Matrix Spike Dup (P1C1003-MSD1) Chloride	15700		mg/kg dry	5260	10500	nalyzed: 03 98.8	80-120	1.79	20	
Chioride	13700	32.0	mg/kg dry	3200	10300	90.0	80-120	1.79	20	
Matrix Spike Dup (P1C1003-MSD2)	Sou	rce: 1C04013	3-09	Prepared: (	03/10/21 A	nalyzed: 03	/11/21			
Chloride	744	1.01	mg/kg dry	505	373	73.6	80-120	6.25	20	
Batch P1C1101 - *** DEFAULT PREP ***										
Blank (P1C1101-BLK1)				Prepared &	k Analyzed:	03/11/21				
Chloride	ND	1.00	mg/kg wet							
LCS (P1C1101-BS1)				Prepared &	k Analyzed:	03/11/21				
Chloride	385	1.00	mg/kg wet	400		96.4	90-110			
LCS Dup (P1C1101-BSD1)				Prepared &	દ Analyzed:	03/11/21				
Chloride	388	1.00	mg/kg wet	400		97.1	90-110	0.773	20	
Calibration Check (P1C1101-CCV1)				Prepared &	દ Analyzed:	03/11/21				
Chloride	18.5		mg/kg	20.0		92.3	90-110			
Calibration Check (P1C1101-CCV2)				Prepared &	k Analyzed:	03/11/21				
Chloride	18.2		mg/kg	20.0	5 . mary 20d.	91.1	90-110			
Calibration Chash (D1C1101 CCV2)				Dramara 1 6	t Analyzed:	02/11/21				
Calibration Check (P1C1101-CCV3)	10.6				z Anaryzea:		00.110			
Chloride	18.6		mg/kg	20.0		92.9	90-110			
Matrix Spike (P1C1101-MS1)	Sou	rce: 1C04015	5-05	Prepared & Analyzed: 03/11/21						
Chloride	542	1.05	mg/kg dry	526	39.1	95.6	80-120			

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green Fax: (432) 563-2213

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1C1101 - *** DEFAULT PREP ***									
Matrix Spike (P1C1101-MS2)	Source	ce: 1C04016-08	Prepared &	k Analyzed:	03/11/21				
Chloride	1340	1.03 mg/kg dry	515	954	75.4	80-120			
Matrix Spike Dup (P1C1101-MSD1)	Source	ce: 1C04015-05	Prepared &	ն Analyzed:	03/11/21				
Chloride	504	1.05 mg/kg dry	526	39.1	88.4	80-120	7.24	20	
Matrix Spike Dup (P1C1101-MSD2)	Sour	ce: 1C04016-08	Prepared &	k Analyzed:	03/11/21				
Chloride	1400	1.03 mg/kg dry	515	954	86.6	80-120	4.23	20	

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc. [1]

Project: Juice Bud State Com 502 A Wellhead Project Number: 13717

Project Number: 13717 Project Manager: Matt Green

13000 West County Road 100 Odessa TX, 79765

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1C0508 - TX 1005										
Blank (P1C0508-BLK1)				Prepared &	Analyzed:	03/05/21				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			
LCS (P1C0508-BS1)				Prepared &	: Analyzed:	03/05/21				
C6-C12	977	25.0	mg/kg wet	1000		97.7	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	60.8		"	50.0		122	70-130			
LCS Dup (P1C0508-BSD1)				Prepared &	: Analyzed:	03/05/21				
C6-C12	974	25.0	mg/kg wet	1000		97.4	75-125	0.339	20	
>C12-C28	1060	25.0	"	1000		106	75-125	2.00	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	58.7		"	50.0		117	70-130			
Calibration Check (P1C0508-CCV1)				Prepared &	: Analyzed:	03/05/21				
C6-C12	486	25.0	mg/kg wet	500		97.2	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			
Calibration Check (P1C0508-CCV2)				Prepared &	: Analyzed:	03/05/21				
C6-C12	488	25.0	mg/kg wet	500		97.5	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc. [1]

Project Number: 13717

13000 West County Road 100 Odessa TX, 79765

Project Manager: Matt Green

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Project: Juice Bud State Com 502 A Wellhead

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1C0508 - TX 1005										
Matrix Spike (P1C0508-MS1)	Sourc	e: 1C04005	5-02	Prepared &	Analyzed:	03/05/21				
C6-C12	856	27.2	mg/kg dry	1090	19.8	76.9	75-125			
>C12-C28	1110	27.2	"	1090	900	19.5	75-125			QM-0:
Surrogate: 1-Chlorooctane	102		"	109		94.0	70-130			
Surrogate: o-Terphenyl	56.5		"	54.3		104	70-130			
Matrix Spike Dup (P1C0508-MSD1)	Sourc	e: 1C04005	5-02	Prepared &	Analyzed:	03/05/21				
C6-C12	865	27.2	mg/kg dry	1090	19.8	77.8	75-125	1.13	20	
>C12-C28	1140	27.2	"	1090	900	21.6	75-125	10.2	20	QM-0:
Surrogate: 1-Chlorooctane	103		"	109		94.5	70-130			
Surrogate: o-Terphenyl	56.8		"	54.3		105	70-130			
Batch P1C0511 - TX 1005										
Blank (P1C0511-BLK1)				Prepared: (	03/05/21 A	nalyzed: 03	/07/21			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	55.3		"	50.0		111	70-130			
LCS (P1C0511-BS1)				Prepared: (	03/05/21 A	nalyzed: 03	/07/21			
C6-C12	926	25.0	mg/kg wet	1000		92.6	75-125			
>C12-C28	1010	25.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	98.5		"	100		98.5	70-130			
Surrogate: o-Terphenyl	53.0		"	50.0		106	70-130			
LCS Dup (P1C0511-BSD1)				Prepared: (	03/05/21 A	nalyzed: 03	/07/21			
C6-C12	943	25.0	mg/kg wet	1000		94.3	75-125	1.85	20	
>C12-C28	1030	25.0	"	1000		103	75-125	1.21	20	
Surrogate: 1-Chlorooctane	99.1		"	100		99.1	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Project Number: 13717

Project: Juice Bud State Com 502 A Wellhead

Fax: (432) 563-2213

13000 West County Road 100 Odessa TX, 79765 Project Manager: Matt Green

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

	D. I.	Reporting	TT '	Spike	Source	0/DEC	%REC	DDD	RPD	NI.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1C0511 - TX 1005										
Calibration Check (P1C0511-CCV1)				Prepared: (	03/05/21 A	nalyzed: 03	5/07/21			
C6-C12	467	25.0	mg/kg wet	500		93.5	85-115			
>C12-C28	477	25.0	"	500		95.3	85-115			
Surrogate: 1-Chlorooctane	89.7		"	100		89.7	70-130			
Surrogate: o-Terphenyl	49.1		"	50.0		98.1	70-130			
Calibration Check (P1C0511-CCV2)				Prepared: (	03/05/21 A	nalyzed: 03	5/07/21			
C6-C12	449	25.0	mg/kg wet	500		89.7	85-115			
>C12-C28	479	25.0	"	500		95.8	85-115			
Surrogate: 1-Chlorooctane	88.0		"	100		88.0	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.5	70-130			
Matrix Spike (P1C0511-MS1)	Sou	rce: 1C04016	5-16	Prepared: (	03/05/21 A	nalyzed: 03	5/07/21			
C6-C12	942	26.3	mg/kg dry	1050	ND	89.5	75-125			
>C12-C28	1010	26.3	"	1050	ND	96.0	75-125			
Surrogate: 1-Chlorooctane	109		"	105		103	70-130			
Surrogate: o-Terphenyl	67.8		"	52.6		129	70-130			
Matrix Spike Dup (P1C0511-MSD1)	Sou	rce: 1C04016	5-16	Prepared: (	03/05/21 A	nalyzed: 03	5/07/21			
C6-C12	915	26.3	mg/kg dry	1050	ND	87.0	75-125	2.84	20	
>C12-C28	993	26.3	"	1050	ND	94.3	75-125	1.76	20	
Surrogate: 1-Chlorooctane	110		"	105		105	70-130			
Surrogate: o-Terphenyl	62.7		"	52.6		119	70-130			

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc. [1]

Project: Juice Bud State Com 502 A Wellhead

13000 West County Road 100 Odessa TX, 79765

Project Number: 13717 Project Manager: Matt Green

#### **Notes and Definitions**

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were QM-05

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

LCS Laboratory Control Spike

Matrix Spike MS Dup Duplicate

en Barron Report Approved By:

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1] Project: Juice Bud State Com 502 A Wellhead Fax: (432) 563-2213

13000 West County Road 100Project Number:13717Odessa TX, 79765Project Manager:Matt Green

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

	ľ	í			
	ŀ				
	ŀ	ľ			
-			_	_	
			,	r	
				1	
			į	Ξ	
. *			. 1	~	
				`	
٠.				Ë	
			1	ċ	
			į	Ū	
			1	=	
				7	
. '				_	
			,	_	
٠.			i	ñ	
			1	r	
			(	C	
			ì	2	
			1		
			ì	1	
			1	Ξ	
			1		
				1	
				٤	
			i	٤	
			3		
			1	۷	
i				CHAIN OF COSTODY RECORD AIND AINALTON	
				٠,	

										- 1 - 1,12° F		· , r		· ·	T		5 3a			_	$\overline{}$					٠, ١		-	سنوان
Relinquished by:	Relinquished by:	Relinquished by	Special Instructions								4	6	5	ψ	රා	2		LAB.# (lab.use only)			(lab use only)			City/State/zip: Sampler Signature:	Company Address:	Company Name:	Project Manager:	l 100 Rankin Hwy	
		WH RE	tions:								M755	MMIS	MISN	MNN	为	64 Z	- FG			C04015				ture: MM		1 .		IIwy	
		رم																FIELD CODE						Me 13/00	) .	Etech Environmental & Safety Solutions, Inc.	reen	Midland T	
Date Time		340 15:09																						email:	<b>X</b>	& Safety Sol		Midland Texas 79701	
		35 "												,				Start Depth								utio			
No.	Received by:	Received by:													<u>ج</u>	7	18	End Depth	Pre					natt@		ns, In			
in Block pe	ed by:	ed by:									) (		7		(		3/2	Date Sampled	Preservation & # of Containers					matt <b>@etechenv.com</b>		li			
BE										•	3%6	37.6	04:0	9:25	7:15	8:60	80.8	Time Sampled	f Containers					.com				Phone: 132-686-7235	
				L	_	L	L	L			_	_	_					No. of Containers	]									32-	
					口						7	Z,	Q	Z	B	Z	囚	lce	-										
																		HNO₃	-									772	
				믬	吕	<u> </u>	R		R			<u></u>						HCI H <sub>2</sub> SO <sub>4</sub>	┨									Ë	
													H		冒	뭄		NaOH	1										
				后		Ī				G	Ī							Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1										
12/			1			占												None	1				_		17	. IT	.   —	·	
7	Late	Za le															ū	Other ( Specify)	7				(epor	묾	Area:	ō	<u></u> [8	•	
											_		<u></u>				Λ	DW=Drinking Water SL=Sludge GW = Groundwater S=Soll/Solid NP=Non-PotableSpecify Other	Matrix				Report Format: STANDARD:□	Bill Etech		Project #:	Project Name:	!	
5363	me	The lime															E	TPH: 418.1 8015M 1005 1	006	-	$ $		AN	2		P	<b>9</b> 10		
	လ္လ လ္လ	ရှိပြင် 	) < & ເ 															Cations (Ca, Mg, Na, K)				.:	DARD			1	ノレ		:.
Temperature Upon Receipt:	Sar by Sampler/Client Rep. Sar by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered	Sample Containers Intact? VOCs Free of Headspace?															Anions (Cl, SO4, CO3, HCO3	)	TOTAL	히	-	ő			-	72		
atur	San	ly se ly se	Free															SAR / ESP / CEC			ICTЬ:	1	⊒			_			
e Up	ner?	als c	of High														口	Metals: As Ag Ba Cd Cr Pb Hg	Se			1	TRRP.			Project Loc	) YY	-	
on F	<u> </u>	elve on o	ers l															Volatiles				١			70#:		2	<u>ب</u>	
ece.	Σž	red onta	Intac															Semi volatiles			回.	Analyze For:			#		·  c	3	
ğ	υ <del>β</del> .>	.(s)	્રહ્યું જ છ										П				又	BTEX 80218/5030 or BTEX 82	60			76 F	ZP.			ျင	B	- •	
F.	<b>₽</b>	S																RCI				유	NPDES:		P	,	- 5	<u>~</u>	
in	•																	N.O.R.M.								-5			
6	F -	+												П			2	Chlorides		<u> </u>	$\sqcup$				4	<b>,</b>			
'	W <	<b>'</b>		坦																	$\dashv$						-		
47	<b>\</b> S			닏								빝						DUGU TAT/Dre Celestries 24		į. ·	1				1.1	1	K	)	

STANDARD TAT

力

## PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



## Analytical Report

### **Prepared for:**

Matt Green
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Location: Lea County, NM

Lab Order Number: 1D05013



NELAP/TCEQ # T104704516-17-8

Report Date: 04/09/21

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1A @ 24"	1D05013-01	Soil	03/30/21 13:00	04-05-2021 16:34
BH-2A @ 24"	1D05013-02	Soil	03/30/21 13:05	04-05-2021 16:34
BH-3A @ 24"	1D05013-03	Soil	03/30/21 13:10	04-05-2021 16:34
NWW-4A @ 12"	1D05013-04	Soil	03/30/21 13:15	04-05-2021 16:34

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Fax: (432) 563-2213

Project Number: 13717
Project Manager: Matt Green

BH-1A @ 24" 1D05013-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environment	al Lab, l	L.P.				
General Chemistry Parameters by EPA/	Standard Methods	1							
% Moisture	2.0	0.1	%	1	P1D0604	04/06/21	04/06/21	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 h	y EPA Method 801	5M							
C6-C12	ND	25.5	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C12-C28	50.9	25.5	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C28-C35	26.4	25.5	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		98.8 %	70-13	0	P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: o-Terphenyl		98.9 %	70-13	0	P1D0701	04/07/21	04/07/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	77.3	25.5	mg/kg dry	1	[CALC]	04/07/21	04/07/21	calc	

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Fax: (432) 563-2213

Project Number: 13717
Project Manager: Matt Green

BH-2A @ 24" 1D05013-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

General Chemistry Parameters by EPA / S	Standard Methods	1						
% Moisture	5.0	0.1	%	1	P1D0604	04/06/21	04/06/21	ASTM D2216
Total Petroleum Hydrocarbons C6-C35 by	y EPA Method 801	5M						
C6-C12	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
Surrogate: 1-Chlorooctane		101 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M
Surrogate: o-Terphenyl		103 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/07/21	04/07/21	calc

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Fax: (432) 563-2213

Project Number: 13717
Project Manager: Matt Green

### BH-3A @ 24" 1D05013-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

<b>General Chemistry Parameters by EPA/</b>	Standard Method:	S						
% Moisture	5.0	0.1	%	1	P1D0604	04/06/21	04/06/21	ASTM D2216
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 801	15M						
C6-C12	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
Surrogate: 1-Chlorooctane		102 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M
Surrogate: o-Terphenyl		103 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/07/21	04/07/21	calc

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Fax: (432) 563-2213

Project Number: 13717
Project Manager: Matt Green

NWW-4A @ 12" 1D05013-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

<b>General Chemistry Parameters by EPA / S</b>	Standard Methods	S						
% Moisture	5.0	0.1	%	1	P1D0604	04/06/21	04/06/21	ASTM D2216
<b>Total Petroleum Hydrocarbons C6-C35 by</b>	EPA Method 801	15M						
C6-C12	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M
Surrogate: 1-Chlorooctane		95.3 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M
Surrogate: o-Terphenyl		96.6 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/07/21	04/07/21	calc

13000 West County Road 100 Project Number: 13717 Odessa TX, 79765 Project Manager: Matt Green Fax: (432) 563-2213

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Project: Juice Bud State Com 502 A Wellhead

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1D0604 - *** DEFAULT PREP ***										
Blank (P1D0604-BLK1)				Prepared &	Analyzed:	04/06/21				
% Moisture	ND	0.1	%							
Blank (P1D0604-BLK2)				Prepared &	Analyzed:	04/06/21				
% Moisture	ND	0.1	%							
Duplicate (P1D0604-DUP1)	Sour	ce: 1D05004-	.09	Prepared &	Analyzed:	04/06/21				
% Moisture	3.0	0.1	%		4.0			28.6	20	
Duplicate (P1D0604-DUP2)	Sour	ce: 1D05006-	01	Prepared &	Analyzed:	04/06/21				
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P1D0604-DUP3)	Sour	ce: 1D05011-	02	Prepared &	Analyzed:	04/06/21				
% Moisture	1.0	0.1	%		2.0			66.7	20	

Project Number: 13717

13000 West County Road 100 Odessa TX, 79765 Project Manager: Matt Green Fax: (432) 563-2213

## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Project: Juice Bud State Com 502 A Wellhead

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1D0701 - TX 1005										
Blank (P1D0701-BLK1)				Prepared &	Analyzed:	04/07/21				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.2		"	100		98.2	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		98.9	70-130			
LCS (P1D0701-BS1)				Prepared &	Analyzed:	04/07/21				
C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	99.6		"	100		99.6	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			
LCS Dup (P1D0701-BSD1)				Prepared &	Analyzed:	04/07/21				
C6-C12	1010	25.0	mg/kg wet	1000		101	75-125	0.932	20	
>C12-C28	1030	25.0	"	1000		103	75-125	1.47	20	
Surrogate: 1-Chlorooctane	99.7		"	100		99.7	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			
Calibration Check (P1D0701-CCV1)				Prepared &	Analyzed:	04/07/21				
C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	519	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.7	70-130			
Calibration Check (P1D0701-CCV2)				Prepared &	Analyzed:	04/07/21				
C6-C12	465	25.0	mg/kg wet	500	<del>-</del>	92.9	85-115			
>C12-C28	433	25.0	"	500		86.6	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.3	70-130			

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Project Number: 13717
Odessa TX, 79765 Project Manager: Matt Green

Project: Juice Bud State Com 502 A Wellhead Fax: (432) 563-2213

Number: 13717

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Limit Units Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch P1D0701 - TX 1005										
Matrix Spike (P1D0701-MS1)	Sourc	e: 1D06001	-14	Prepared &	Analyzed:	04/07/21				
C6-C12	1030	27.5	mg/kg dry	1100	12.3	92.8	75-125			
>C12-C28	1220	27.5	"	1100	149	97.3	75-125			
Surrogate: 1-Chlorooctane	132		"	110		120	70-130			
Surrogate: o-Terphenyl	54.4		"	54.9		98.9	70-130			
Matrix Spike Dup (P1D0701-MSD1)	Sourc	e: 1D06001	-14	Prepared &	Analyzed:	04/07/21				
C6-C12	1030	27.5	mg/kg dry	1100	12.3	92.8	75-125	0.00863	20	
>C12-C28	1150	27.5	"	1100	149	91.3	75-125	6.32	20	
Surrogate: 1-Chlorooctane	131		"	110		119	70-130			
Surrogate: o-Terphenyl	52.8		"	54.9		96.0	70-130			

13000 West County Road 100 Odessa TX, 79765 Project Number: 13717 Project Manager: Matt Green Fax: (432) 563-2213

Tojeet Manager. Mant Green

Project: Juice Bud State Com 502 A Wellhead

#### **Notes and Definitions**

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Darlor			
Report Approved By:			Date:	4/9/2021	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

		_		
	!			
	(	2		
	(		5	
	1	、スてここ		
		200		
	2000			
	1000	77	)	
	į	ナノ		

ORDER #: Special Instructions: (lab use only) Company Address: elinquished by elinquished by: Sampler Signature: City/State/Zip: Company Name: Project Manager: elinquished by 100 Rankin Hwy LAB # (lab use only) D05010 Etech Environmental & Safety Solutions, Inc. P.O. Box 62228 Matt Green BH-2A KH-3A 024 H-IA Texas 79711 FIELD CODE JUNAH BILL Midland Texas 79701 Permian Basin Environmental Lab, LP @24 B24 Date 16:34 email: mattopotchenv.com lime me Start Depth tim O etechen. com Received by: **End Depth** Preservation & # of Containers 7-30-21 3-70-21 3-30-21 2-30-21 Date Sampled Phone: 432-686-7235 1310 SICI Time Sampled No. of Containers □ HND<sub>3</sub> HCI H<sub>2</sub>SD<sub>4</sub> NaOH Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> None Area: Project #: 13 717 Report Format: STANDARD: \_Bill Etech Other (Specify) DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid NP=Non-PotableSpecify Other

TPH: 418.1 8015M 1005 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO4, CO3, HCO3)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semi volatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides

STANDARD TAT

RUSH TAT(Pre-Schedule) 24, 48, 72 hrs

TOTAL

TCLP:

TRRP:

NPDES:□

Analyze For:

Project Name: Contemial Juice But State CON SOLHWE

Project Loc: Lea Co. N M

PO#: 38806

Page 11 of 11

 $\Box$ 

勹 

 $\Box$ 

 $\Box$ 

ြုံကို Temperature Upon Receipt:

Time

Sample Hand Delivered
Sar by Sampler/Client Rep.
Sar by Courier? UPS

Sample Containers Intact?
VOCs Free of Headspace?
Qustody seals on container(s)
Custody seals on cooler(s)

ZZZZZ

\_aboratory Comments

## PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



## Analytical Report

### **Prepared for:**

Matt Green
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Location: Lea County, NM

Lab Order Number: 1E11005



**Current Certification** 

Report Date: 05/20/21

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Comp-1	1E11005-01	Soil	05/10/21 12:30	05-11-2021 16:33
Comp-2	1E11005-02	Soil	05/10/21 12:35	05-11-2021 16:33
Comp-3	1E11005-03	Soil	05/10/21 12:40	05-11-2021 16:33
WW-1 @ 1'	1E11005-04	Soil	05/10/21 12:45	05-11-2021 16:33
WW-2 @ 1'	1E11005-05	Soil	05/10/21 12:50	05-11-2021 16:33

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

### Comp-1 1E11005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
						****			
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	80-120		P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
General Chemistry Parameters by 1	EPA / Stand	ard Met	hods						
Chloride	85.9	1.03	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 07:11	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	ND	25.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
>C12-C28	32.7	25.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
Surrogate: 1-Chlorooctane		95.4 %	70-130		P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %	70-130		P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	32.7	25.8	mg/kg dry	1	[CALC]	05/12/21 15:54	05/14/21 02:53	cale	

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

#### Comp-2 1E11005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Lillit	Cints	Dilution	Datell	ricpared	. mary zea	carou	
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	113	1.12	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 07:57	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	A Method	8015M						
C6-C12	ND	28.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
>C12-C28	291	28.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
>C28-C35	38.9	28.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %	70-130	·	P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	330	28.1	mg/kg dry	1	[CALC]	05/12/21 15:54	05/14/21 03:16	calc	

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

#### Comp-3 1E11005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
						•			
		P	ermian B	asin Envii	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00120	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Metl	hods						
Chloride	55.6	1.20	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 13:31	EPA 300.0	
% Moisture	17.0	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	ND	30.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
>C12-C28	35.0	30.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
Surrogate: 1-Chlorooctane		96.8 %	70-130		P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
Surrogate: o-Terphenyl		99.8 %	70-130		P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	35.0	30.1	mg/kg dry	1	[CALC]	05/12/21 15:54	05/14/21 03:40	calc	

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Project Number: 13717 Odessa TX, 79765

Project Manager: Matt Green

### WW-1 @ 1' 1E11005-04 (Soil)

Project: Juice Bud State Com 502 A Wellhead

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
<del></del>	Kesull	LIIIII	OHIIS	Dilution	Dateii	ricpaicu	7 Hidiy 200	Method	11010
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
	S. 10:								
General Chemistry Parameters by EF					PATAGOGO	0.5/4.0/04.4.0.05	0.5/4.0/54.4.0.4.5		
Chloride	151	1.11	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 13:46	EPA 300.0	
% Moisture	10.0	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	
Total Petroleum Hydrocarbons C6-C3	35 by EPA	Method	8015M						
C6-C12	ND	27.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
>C12-C28	51.8	27.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
>C28-C33			<b>50.130</b>		P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-130		1 121210	03/12/21 13.34	03/11/21 01.03	11 11 0010111	
		96.4 % 98.7 %	70-130 70-130		P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

### WW-2 @ 1' 1E11005-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.5 %	80-120		P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	80-120		P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Metl	hods						
Chloride	437	1.06	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 14:01	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	ND	26.6	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
>C12-C28	147	26.6	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
Surrogate: 1-Chlorooctane		94.9 %	70-130		P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
Surrogate: o-Terphenyl		97.5 %	70-130		P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	147	26.6	mg/kg dry	1	[CALC]	05/12/21 15:54	05/14/21 04:27	calc	

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

## BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	LIIIII	Units	Level	Resuit	70KEC	Lillits	KrD	Lillit	Notes
Batch P1E1213 - *** DEFAULT PREP *	**									
Blank (P1E1213-BLK1)				Prepared &	t Analyzed:	05/12/21				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	80-120			
LCS (P1E1213-BS1)				Prepared &	k Analyzed:	05/12/21				
Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130			
Гoluene	0.0986	0.00100	"	0.100		98.6	70-130			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	70-130			
Xylene (p/m)	0.205	0.00200	"	0.200		103	70-130			
Xylene (o)	0.0944	0.00100	"	0.100		94.4	70-130			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	80-120			
LCS Dup (P1E1213-BSD1)				Prepared &	t Analyzed:	05/12/21				
Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	3.27	20	
Toluene	0.102	0.00100	"	0.100		102	70-130	3.31	20	
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	70-130	2.34	20	
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130	2.53	20	
Xylene (o)	0.0968	0.00100	"	0.100		96.8	70-130	2.54	20	
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			
Calibration Blank (P1E1213-CCB2)				Prepared: (	05/12/21 Aı	nalyzed: 05	5/13/21			
Benzene	0.00		mg/kg wet	-						
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			

Permian Basin Environmental Lab, L.P.

Surrogate: 1,4-Difluorobenzene

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

104

80-120

0.120

0.125

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

## BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source	0/5	%REC	p	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1E1213 - *** DEFAULT PREP ***										
Calibration Check (P1E1213-CCV2)				Prepared: (	)5/12/21 A	nalyzed: 05	/13/21			
Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0820	0.00100	"	0.100		82.0	80-120			
Ethylbenzene	0.0810	0.00100	"	0.100		81.0	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.6	80-120			
Xylene (o)	0.0805	0.00100	"	0.100		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			
Calibration Check (P1E1213-CCV3)				Prepared: (	05/12/21 A	nalyzed: 05	/13/21			
Benzene	0.0958	0.00100	mg/kg wet	0.100		95.8	80-120			
Toluene	0.0911	0.00100	"	0.100		91.1	80-120			
Ethylbenzene	0.0872	0.00100	"	0.100		87.2	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120			
Xylene (o)	0.0902	0.00100	"	0.100		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		106	75-125			
Matrix Spike (P1E1213-MS1)	Sou	rce: 1E06004	-01	Prepared: (	05/12/21 A	nalyzed: 05	/13/21			
Benzene	0.0805	0.00108	mg/kg dry	0.108	ND	74.8	80-120			QM-07
Toluene	0.0722	0.00108	"	0.108	ND	67.2	80-120			QM-07
Ethylbenzene	0.0631	0.00108	"	0.108	ND	58.7	80-120			QM-07
Xylene (p/m)	0.134	0.00215	"	0.215	ND	62.3	80-120			QM-07
Xylene (o)	0.0667	0.00108	"	0.108	ND	62.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.139		"	0.129		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.129		109	80-120			
Matrix Spike Dup (P1E1213-MSD1)	Sou	rce: 1E06004	-01	Prepared: (	05/12/21 A	nalyzed: 05	/13/21			
Benzene	0.0782	0.00108	mg/kg dry	0.108	ND	72.7	80-120	2.87	20	
Toluene	0.0706	0.00108	"	0.108	ND	65.7	80-120	2.24	20	
Ethylbenzene	0.0618	0.00108	"	0.108	ND	57.5	80-120	2.10	20	
Xylene (p/m)	0.132	0.00215	"	0.215	ND	61.4	80-120	1.48	20	
Xylene (o)	0.0655	0.00108	"	0.108	ND	60.9	80-120	1.85	20	
Surrogate: 4-Bromofluorobenzene	0.143		"	0.129		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.141		"	0.129		110	80-120			

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717
Project Manager: Matt Green

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
	Result	Liiiit	Cilita	Level	resuit	, sittle	Limits	на Б	Limit	110103
Batch P1E1302 - *** DEFAULT PREP ***										
Blank (P1E1302-BLK1)				Prepared & Analyzed: 05/13/21						
% Moisture	ND	0.1	%							
Blank (P1E1302-BLK2)			Prepared &	Analyzed:	05/13/21					
% Moisture	ND	0.1	%							
Duplicate (P1E1302-DUP1)	Sou	rce: 1E11002-	Prepared &	: Analyzed:	05/13/21					
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P1E1302-DUP2)	Sou	rce: 1E11002-	30	Prepared &	: Analyzed:	05/13/21				
% Moisture	9.0	0.1	%	9.0				0.00	20	
Duplicate (P1E1302-DUP3)	Sou	rce: 1E11002-	45	Prepared &	: Analyzed:	05/13/21				
% Moisture	9.0	0.1	%	-	9.0			0.00	20	
Duplicate (P1E1302-DUP4)	Sou	rce: 1E11002-	55	Prepared &	: Analyzed:	05/13/21				
% Moisture	7.0	0.1	%	-	7.0			0.00	20	
Duplicate (P1E1302-DUP5)	Sou	rce: 1E12001-	03	Prepared &	: Analyzed:	05/13/21				
% Moisture	ND	0.1	%	*	ND				20	
Duplicate (P1E1302-DUP6)	Sou	rce: 1E12001-	13	Prepared &	: Analyzed:	05/13/21				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P1E1302-DUP7)	Source: 1E12002-03		Prepared &	: Analyzed:	05/13/21					
% Moisture	4.0	0.1	%	Prepared & Analyzed: 05/13/21 4.0			0.00	20		
Duplicate (P1E1302-DUP8)	Source: 1E12003-06 Pr			Prepared & Analyzed: 05/13/21						
% Moisture	9.0	0.1	%	1 ,				10.5	20	
/U IVIOISIUIC	9.0	0.1	/0		10.0			10.5	20	

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717
Project Manager: Matt Green

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1E1302 - *** DEFAULT PREP ***										
Duplicate (P1E1302-DUP9)	Sou	rce: 1E12007	<b>'-02</b>	Prepared &	Analyzed:	05/13/21				
% Moisture	16.0	0.1	%		17.0			6.06	20	
Duplicate (P1E1302-DUPA)	Sou	rce: 1E12007	<b>'-12</b>	Prepared &	z Analyzed:	05/13/21				
% Moisture	16.0	0.1	%		15.0			6.45	20	
Batch P1E1809 - *** DEFAULT PREP ***										
Blank (P1E1809-BLK1)				Prepared &	z Analyzed:	05/18/21				
Chloride	ND	1.00	mg/kg wet							
LCS (P1E1809-BS1)				Prepared: (	05/18/21 A	nalyzed: 05	5/19/21			
Chloride	418	1.00	mg/kg wet	400		104	90-110			
LCS Dup (P1E1809-BSD1)				Prepared &	Analyzed:	05/18/21				
Chloride	403	1.00	mg/kg wet	400		101	90-110	3.48	20	
Calibration Check (P1E1809-CCV1)				Prepared: (	)5/18/21 A	nalyzed: 05	5/19/21			
Chloride	21.3		mg/kg	20.0		107	90-110			
Calibration Check (P1E1809-CCV2)				Prepared: (	)5/18/21 A	nalyzed: 05	5/19/21			
Chloride	21.3		mg/kg	20.0		107	90-110			
Calibration Check (P1E1809-CCV3)				Prepared: (	05/18/21 A	nalyzed: 05	5/19/21			
Chloride	20.5		mg/kg	20.0		102	90-110			
Matrix Spike (P1E1809-MS1)	Sou	rce: 1E18020	-21	Prepared &	z Analyzed:	05/18/21				
Chloride	26200	54.3	mg/kg dry	5430	20000	114	80-120			

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717
Project Manager: Matt Green

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1E1809 - *** DEFAULT PREP ***									
Matrix Spike (P1E1809-MS2)	Source	e: 1E11005-01	Prepared: (	)5/18/21 Aı	nalyzed: 05	/19/21			
Chloride	556	1.03 mg/kg dry	515	85.9	91.1	80-120			
Matrix Spike Dup (P1E1809-MSD1)	Source	e: 1E18020-21	Prepared: (	05/18/21 Aı	nalyzed: 05	/19/21			
Chloride	26600	54.3 mg/kg dry	5430	20000	123	80-120	1.82	20	QM-05
Matrix Spike Dup (P1E1809-MSD2)	Source	e: 1E11005-01	Prepared: (	)5/18/21 Aı	nalyzed: 05	/19/21			
Chloride	534	1.03 mg/kg dry	515	85.9	86.9	80-120	4.05	20	

Project: Juice Bud State Com 502 A Wellhead Project Number: 13717

13000 West County Road 100 Odessa TX, 79765

Project Number: 13/1/
Project Manager: Matt Green

# Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

	p 1	Reporting	TT :-	Spike	Source	0/PEC	%REC	DDD	RPD	NI ·
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1E1210 - TX 1005										
Blank (P1E1210-BLK1)				Prepared: (	05/12/21 A	nalyzed: 05	5/13/21			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	95.5		"	100		95.5	70-130			
Surrogate: o-Terphenyl	48.3		"	50.0		96.5	70-130			
LCS (P1E1210-BS1)				Prepared: (	05/12/21 A	nalyzed: 05	5/13/21			
C6-C12	977	25.0	mg/kg wet	1000		97.7	75-125			
>C12-C28	839	25.0	"	1000		83.9	75-125			
Surrogate: 1-Chlorooctane	97.7		"	100		97.7	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			
LCS Dup (P1E1210-BSD1)				Prepared: (	05/12/21 Aı	nalyzed: 05	5/13/21			
C6-C12	982	25.0	mg/kg wet	1000		98.2	75-125	0.509	20	
>C12-C28	853	25.0	"	1000		85.3	75-125	1.69	20	
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.2	70-130			
Calibration Check (P1E1210-CCV1)				Prepared: (	05/12/21 Aı	nalyzed: 05	5/13/21			
C6-C12	493	25.0	mg/kg wet	500		98.5	85-115			
>C12-C28	461	25.0	"	500		92.2	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.5	70-130			
Calibration Check (P1E1210-CCV2)				Prepared: (	05/12/21 A	nalyzed: 05	5/14/21			
C6-C12	465	25.0	mg/kg wet	500		92.9	85-115			
>C12-C28	449	25.0	"	500		89.8	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.5	70-130			

Permian Basin Environmental Lab, L.P.

Project Number: 13717

13000 West County Road 100 Odessa TX, 79765

Project Manager: Matt Green

## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Project: Juice Bud State Com 502 A Wellhead

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1E1210 - TX 1005										
Calibration Check (P1E1210-CCV3)				Prepared:	05/12/21 A	nalyzed: 05	5/14/21			
C6-C12	453	25.0	mg/kg wet	500		90.5	85-115			
>C12-C28	435	25.0	"	500		86.9	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		92.9	70-130			
Matrix Spike (P1E1210-MS1)	Sou	rce: 1E12001	-01	Prepared:	05/12/21 A	nalyzed: 05	5/14/21			
C6-C12	874	25.0	mg/kg dry	1000	11.2	86.3	75-125			
>C12-C28	1640	25.0	"	1000	1050	58.6	75-125			QM-05
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	44.4		"	50.0		88.7	70-130			
Matrix Spike Dup (P1E1210-MSD1)	Sou	rce: 1E12001	-01	Prepared:	05/12/21 A	nalyzed: 05	5/14/21			
C6-C12	806	25.0	mg/kg dry	1000	11.2	79.5	75-125	8.18	20	
>C12-C28	1490	25.0	"	1000	1050	43.3	75-125	29.9	20	QM-05
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

13000 West County Road 100

Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

#### **Notes and Definitions**

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Brew	Darron			
Report Approved By:			Date:	5/20/2021	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Matt Green

Permian Basin Environmental Lab, L.P.

R	eceive						11.	2:00	:16	AM	1	56000.4		75075554	Care (200)	Povetoval		40-200								Page 66 of 84
	Relinquished by:	Relinquished by	l della	Polinguished by:		Special Instructions:						S	c.	(V	2	1	LAB # (lab use only)	ORDER #:	(lab use only)							
	dsink	ysınk	usi			iailr												見	se o	-2			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	ed b	ed b	ed		₽ = +	ıstrı												<b>*</b>	ηy	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	
	~	*	7	֚֚֚֚֚֚֚֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝ ֪׆֖֖	5	댪	-											点		nple	, pr	/Ste	npa	npa	ect	BIBIL
			0	. <u>                                    </u>	ntor	ns:						•					# 1	Elibos		S.	one	ite/	ny /	ny l	Mai	
			1	<u> </u>	2	.												Ø		gna	N <sub>O</sub>	Zip:	dd	lam	nag	
			an		D			- 1				8	8			_	<b>1</b>	ζ,		ture			ess	ត	er:	
			175		<u> </u>	٠						WW-2 @	WW-1 @ 1'	COMP-3	COMP-2	COMP-1	FIELD CODE			1	<u>a</u>	lo		lm	Iz	4
			1	6	Ď							@	<b>®</b>	Ð	Ð	₹	<u>  6</u>				(432)230-3763	Odessa, Texas 79765	13000 W CR 100	(ech	Matt Green	
			1			·						<u></u>	<del>-</del> -	ω.		_	M			1	130	sa, I	\$	Ę,	3ree	
							-														376	exa	R	iron	] ]	
			5-11-21																	1	<b>.</b>  ~	s 79	8	mer	١.	$\mathcal{H}$
	Date	Dale		밁																14		765		<u>a</u>	ľ	NΑ
	(D		12								-									2				la E		S <sub>H</sub>
				-													Beginning Depth	7		3	٠.			Safe		S
	Time		633		· · · ·						Lİ.					_	beginning Depth	4						Etech Environmental and Safety Solutions, Inc.		CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Permian Basi 10014 S. Cov
	0	a	22	۱۳			1.										Ending Depth	. •						utio		γας
	Re	ď		둜								ي ت	Ş	رن و	Ωī	ري ت		1			1			ns, lı		RE
	ceive	Neceived by		Received by:					İ	٠.		5/10/2021	5/10/2021	5/10/2021	5/10/2021	5/10/2021	Date Sampled							]ñ		S C
	id by	, c		ğ								202	202	202	202	1202	Bate Gampied								'	8
4	Received by PBE									ļ											1	1.	1	1		AN
				-																						O A
	$\mathcal{A}$	2		-					·			1250	1245	1240	1235	1230	Time Sampled	1		ф	Ξ			1	1	Ž
. 1	?	:							٠.			ŏ	ठ	5	5	ŏ		-		e-mail:	Fax No:					TX8
								_		├		-		_	-		mald Pite and	-			P. I					P 1 P S S S
							<u> </u>			<del> </del>				1	·	_	Field Filtered  Total #. of Containers	-		Matt@ete tim@etechenv.c						REQUEST Permian Basin Environmental Lab, LP 10014 S. County Road 1213 Midland, Texas 79706
										-		×	×	×	×	×	Ice	+		ωe. Neï				<u> </u> -		QUE ian 4 S.
			' '			1.1		_		<u> </u>	1	Ĥ	<del>  ^ -</del>	<del> </del>	Ĥ	Ĥ	HNO <sub>3</sub>	Pre		/lat					1	EST Basi Cou
: -				1		:::	<u> </u>							<del> </del>	┢	╁	HCI	Preservation								in E unty
				4		. '	<u> </u>	$\vdash$		├		-			$\vdash$	$\vdash$	H <sub>2</sub> SO <sub>4</sub>			ete		ļ.,				nvironn / Road 79706
				÷			<del> </del>	-		<u> </u>		<u> </u>					NaOH	<b>−</b> & # o		com		٠,				onm ad '
				٤.						-	H				$\vdash$		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	- Con			.					lent:
٠.	<u> </u>		<del>                                     </del>	┪						l		T-			<b>†</b>		None	& # of Containers		chenv.com		1:				2 E
	⇌▫									Ι.							Other ( Specify)	ا ت		ΙŠ						E
	$\mathbb{Z}$	ä	3	Date													DW=Drinking Water SL=Sludge	2			·'	•			•	י
				╛								S	S	S	တ	S	GW = Groundwater S=Soil/Solid	Matrix			Rep					
	<u>_</u>						<u> </u>		<u>.</u>	ऻ—				L	1_	1	NP=Non-Potable Specify Other		1	_	2		P		roje	
	。 に に に に に に に に に に に に に に に に に に に	ā	3	īme		. :	_	ļ		<del> </del>	1	×	×	×	×	×		015B			Report Format:		Project Loc:	Project #:	Project Name:	
	> ⊼ ⊣	 	<u> </u> ଜୁନ୍ଦ୍ର	Ive ·	< :o		_	-		-	$\vdash$	-	-	-	+	┼	TPH: TX 1005 Ext TX 1	000			ă:	PO #:	Ę	ect	łami	
1	Temperature Upon Receipt: Received: *C Adjusted: *C F	by Sampler/Client Rep by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s)	abel	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:	<del> </del>		$\vdash$		1	-		-	┼	+	Cations (Ca, Mg, Na, K)  Anions (Cl, SO4, Alkalinity)	$\dashv$			, ICT	.# 	1 8	. <del>!!</del>	] !!	
$\supset$	veral	/Sal		S On	Fre	a to	H	H	$\vdash$	-	╁	-	-	$\vdash$	+-	+	SAR / ESP / CEC	-	TCLP:		S S				<u>€</u>	
<del></del>	ure :	by Sampler/Client Rep. ? by Courier? UPS	seals eals	6	e of	マの	-	<del>                                     </del>	-	├	+	$\vdash$	-	$\vdash$	$\vdash$	$\vdash$	Metals: As Ag Ba Cd Cr Pb Hg		<u> i.</u>		⊠ Standard				Ten.	<del>-</del>
Ö	Upo	2011 1701 1701 1701 1701 1701 1701 1701	2 9 9 1	tain	He and	<b>.</b>	<del> </del>	-	-	-	+	-	$\vdash$	-		+	Volatiles	3 30	$\dashv \dashv$	Analyze	ard		1		Jiai J	one
	5 7			er(s	dspr u sa	men	-	$\vdash$		+	+	-	<del>                                     </del>	$\vdash$	+-	+-	Semivolatiles		+			Ce Ce	1_		uice	Phone: 432-661-4184
5,7	၊ °င္မ ဂိုဂိုင	LPS LPS	tain:	7	ace lact	য়	-	$\vdash$	$\vdash$	$\vdash$		×	×	×	×	×	BTEX 8021B/503p or BTEX 8	260	$\dashv$	FQ:		Centennial Resource	Lea County, NM	1	Buc	32-6
<i>&gt;</i>	ept: °C °C <u>Factor</u>	ু ও দু	) (S)		Frank.			1	T	+	+	1	H	Ħ	+	+	RCI				☐ TRRP	nial	ရို	13717	Sta	61.
	₫.	星						<del>                                     </del>	<del>                                     </del>	T		$\vdash$	$\vdash$	<u> </u>		T	N.O.R.M.				Ŕ	Res	₹	7	le C	11. 11.
>		TI Q		1			_	T			+	$ _{\times}$	×	×	×	×	Chlorides E 300				. 14.	ourc	Z	-	N	
1		FedEx	Œ	8	₹}									T	1							g			5021	
7		5						Π		T		T	Π			1		1			동				¥ We	
		Lone Star	zzz	Z	zż						-				T		RUSH TAT (Pre-Schedule) 24	4, 48,	72 hrs		NPDES				Centennial Juice Bud State COM 502H Wellhead	
		헏										×	×	×	×	×	Standard TAT				0,			<u> </u>		
R	elease	d to I	magin	12:	: 11/	/17	/202	21 1	1:3	0:21	A	1						_					-		aye	e 17 of 17

## PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



## Analytical Report

### **Prepared for:**

Tim McMinn
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Location: Lea County, NM

Lab Order Number: 1E28016



**Current Certification** 

Report Date: 06/07/21

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Tim McMinn

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Comp-2	1E28016-01	Soil	05/21/21 14:30	05-28-2021 11:02
WW-1	1E28016-02	Soil	05/21/21 13:15	05-28-2021 11:02
WW-2	1E28016-03	Soil	05/21/21 13:20	05-28-2021 11:02

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Tim McMinn

### Comp-2 1E28016-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	ab, L.P.			
General Chemistry Parameters by	EPA / Stand	lard Metl	hods						
% Moisture	20.0	0.1	%	1	P1F0203	06/02/21 08:28	06/02/21 09:05	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	A Method	8015M						
C6-C12	ND	31.2	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
>C12-C28	42.2	31.2	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P1F0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P1F0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
Total Petroleum Hydrocarbon	42.2	31.2	mg/kg dry	1	[CALC]	06/02/21 10:30	06/04/21 23:19	calc	
C6-C35									

13000 West County Road 100 Odessa TX, 79765

Project Number: 13717 Project Manager: Tim McMinn

Project: Juice Bud State Com 502 A Wellhead

### **WW-1** 1E28016-02 (Soil)

		Reporting							
Analyte	Result	Limit U	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

General Chemistry Parameters by EPA / Standard Methods  % Moisture 11.0 0.1 % 1 P1F0203 06/02/21.08:28 06/02/21.09:05 ASTM D2216												
% Moisture	11.0	0.1	70	1	P1F0203	06/02/21 08:28	06/02/21 09:05	AS1M D2216				
Total Petroleum Hydrocarbons C6-	C35 by EPA	A Method	8015M									
C6-C12	ND	28.1	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:41	TPH 8015M				
>C12-C28	ND	28.1	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:41	TPH 8015M				
>C28-C35	ND	28.1	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:41	TPH 8015M				
Surrogate: 1-Chlorooctane		109 %	70-130		P1F0206	06/02/21 10:30	06/04/21 23:41	TPH 8015M				
Surrogate: o-Terphenyl		121 %	70-130		P1F0206	06/02/21 10:30	06/04/21 23:41	TPH 8015M				
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	06/02/21 10:30	06/04/21 23:41	calc				

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Tim McMinn

### WW-2 1E28016-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

General Chemistry Parameters by EPA / Standard Methods											
% Moisture	13.0	0.1	%	1	P1F0203	06/02/21 08:28	06/02/21 09:05	ASTM D2216			
Total Petroleum Hydrocarbons C6-C	35 by EPA	A Method	8015M								
C6-C12	ND	28.7	mg/kg dry	1	P1F0206	06/02/21 10:30	06/05/21 00:03	TPH 8015M			
>C12-C28	ND	28.7	mg/kg dry	1	P1F0206	06/02/21 10:30	06/05/21 00:03	TPH 8015M			
>C28-C35	ND	28.7	mg/kg dry	1	P1F0206	06/02/21 10:30	06/05/21 00:03	TPH 8015M			
Surrogate: 1-Chlorooctane		104 %	70-130		P1F0206	06/02/21 10:30	06/05/21 00:03	TPH 8015M			
Surrogate: o-Terphenyl		115 %	70-130		P1F0206	06/02/21 10:30	06/05/21 00:03	TPH 8015M			
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	06/02/21 10:30	06/05/21 00:03	calc			

13000 West County Road 100 Odessa TX, 79765 Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Tim McMinn

# General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1F0203 - *** DEFAULT PREP ***										
Blank (P1F0203-BLK1)				Prepared & Analyzed: 06/02/21						
% Moisture	ND	0.1	%							
Duplicate (P1F0203-DUP1)	Source: 1E28002-10			Prepared & Analyzed: 06/02/21						
% Moisture	7.0	0.1	%	7.0				0.00	20	
Duplicate (P1F0203-DUP2)	Sour	ce: 1E28005-	03	Prepared & Analyzed: 06/02/21						
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P1F0203-DUP3)	Source: 1E28008-01			Prepared & Analyzed: 06/02/21						
% Moisture	9.0	0.1	%		11.0			20.0	20	
Duplicate (P1F0203-DUP4)	Source: 1E28010-01			Prepared & Analyzed: 06/02/21						
% Moisture	9.0	0.1	%	9.0				0.00	20	
Duplicate (P1F0203-DUP5)	Source: 1E28014-02			Prepared & Analyzed: 06/02/21						
% Moisture	14.0	0.1	%	14.0				0.00	20	
Duplicate (P1F0203-DUP6)	Source: 1E28015-03			Prepared & Analyzed: 06/02/21						
% Moisture	13.0	0.1	%	12.0				8.00	20	
Duplicate (P1F0203-DUP7)	Source: 1E28020-03			Prepared & Analyzed: 06/02/21						
% Moisture	12.0	0.1	%	12.0				0.00	20	
Duplicate (P1F0203-DUP8)	Sour	ce: 1F01008-	01	Prepared &	: Analyzed:	06/02/21				
% Moisture	8.0	0.1	%	7.0				13.3	20	

E Tech Environmental & Safety Solutions, Inc. [1]

Project: Juice Bud State Com 502 A Wellhead Project Number: 13717

13000 West County Road 100 Odessa TX, 79765

Project Manager: Tim McMinn

### Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1F0206 - TX 1005										
Blank (P1F0206-BLK1)				Prepared: 0	06/02/21 Aı	nalyzed: 06	5/04/21			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	54.9		"	50.0		110	70-130			
LCS (P1F0206-BS1)				Prepared: 0	06/02/21 Aı	nalyzed: 06	5/04/21			
C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	923	25.0	"	1000		92.3	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			
LCS Dup (P1F0206-BSD1)				Prepared: (	06/02/21 Aı	nalyzed: 06	5/04/21			
C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	2.26	20	
>C12-C28	951	25.0	"	1000		95.1	75-125	3.00	20	
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130			
Calibration Blank (P1F0206-CCB1)				Prepared: (	06/02/21 Aı	nalyzed: 06	5/04/21			
C6-C12	9.53		mg/kg wet							
>C12-C28	17.9		"							
Surrogate: 1-Chlorooctane	94.9		"	100		94.9	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			
Calibration Check (P1F0206-CCV1)				Prepared: 0	06/02/21 Aı	nalyzed: 06	5/04/21			
C6-C12	534	25.0	mg/kg wet	500		107	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	59.6		"	50.0		119	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100 Project N
Odessa TX, 79765 Project Ma

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Tim McMinn

## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P1F0206 - TX 1005										
Matrix Spike (P1F0206-MS1)	Source	e: 1E28019	-01	Prepared: (	06/02/21 A	nalyzed: 06	/05/21			
C6-C12	1050	26.0	mg/kg dry	1040	15.9	99.6	75-125			
>C12-C28	1350	26.0	"	1040	970	37.0	75-125			QM-05
Surrogate: 1-Chlorooctane	105		"	104		101	70-130			
Surrogate: o-Terphenyl	65.3		"	52.1		125	70-130			
Matrix Spike Dup (P1F0206-MSD1)	Source	e: 1E28019	-01	Prepared: (	06/02/21 A	nalyzed: 06	/05/21			
C6-C12	1030	26.0	mg/kg dry	1040	15.9	97.2	75-125	2.46	20	
>C12-C28	1350	26.0	"	1040	970	36.6	75-125	1.07	20	QM-05
Surrogate: 1-Chlorooctane	102		"	104		97.9	70-130			
Surrogate: o-Terphenyl	61.3		"	52.1		118	70-130			

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717 Project Manager: Tim McMinn

#### **Notes and Definitions**

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Devou C			
Report Approved By:			Date:	6/7/2021	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

	Relinquished by:	Relinquished 🖔	Relinquished by	Bill to centennia resource	Special Instructions:								دن	2		LAB # (lab use only)	ORDER#:  ヒ(	(lab use only)		Sampler s	Telephone No:	City/State/Zip:	Company	Company Name	Project Manager:
			Me	esource	esource								WW-2	1-MM	Comp- :	FIELD CODE	1678016	\$		Sampler Signature:			SS:		
			5		_										<i>N</i>	ÖDE					(432)230-3763	Odessa, Texas 79765	13000 W CR 100	Etech Environmental and Safety Solutions, Inc.	Tim McMinn
	Date		528 21		_												1			y) L		)765		ntal and Sa	
	Time	: Tir	20:1		_											Beginning Depth				W.				fety S	
	ne	ne	2		<u>.</u>											Ending Depth				X				olution	
(	Received by PBI	Received by:	Neceived by.	Doning to the	an Ush Na								4		5/21/21	Date Sampled				Yr.				ıs, Inc.	
	WinsaBldse												1320	1315	1430	Time Sampled				e-mail:	Fax No:				
	200							_								Field Filtered			tim	Matt@etechenv.com					
							<u> </u>	<del> </del>	+-	1			4	_		Total #. of Containers	h	ľ	<i>©</i> e			1			
						H	-	+	+	-	_		4		×	Ice HNO <sub>3</sub>	Pre	:	lec	Mat					
						-	-		+	<u> </u>	-				$\vdash$	HCI	Preservation & # o	1	le le	8					
							-		$\vdash$		<del>                                     </del>			$\vdash$	┝	H₂SO₄	tion		ΙŽ	let e					
								$\vdash$		+		<u> </u>				NaOH	# o		ÌŠ	욽					
							1	$\vdash$	<del>                                     </del>						<b></b>	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Con		1–	Įÿ			1.		
	9			-												None	Containers	-		0			1		
	<b>%</b> □	Date	Ç Q	<u>,</u>				1								Other ( Specify)	s			IB					
		fe	ā	<b>.</b>									4		S	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix				Report Format:				
	7	=		<u> </u>				╁	+-			-	4		X		15B		П	٠.	ᅲ		Proj	₩.	ojec
		ime	Ī	<b>5</b>		H	-	+	+	H	$\vdash$	$t^-$			<b> ``</b>	TPH: TX 1005 Ext TX 10		:			rma	U	Project Loc:	Project #:	Project Name:
	2520 3733 350	Sa	විට්	<u> </u>	88 P		<del>                                     </del>	T	T	Ħ	Т					Cations (Ca, Mg, Na, K)				٠.	<del></del>	Р #	00:	# #	me:
	Temperature Received: 2	Sample Hand Delivered by Sampler/Client Re- by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments: Samble Containers Infact?	Т		1	<b>†</b>	1						Anions (CI, SO4, Alkalinity)		ᅵ -			$\boxtimes$	1	1		L
	ed:	nple Hand Delivered by Sampler/Client Rep. by Courier? UPS	y sc	Fee	ator		<b>†</b>		1	Ħ	t	T	7.			SAR / ESP / CEC		TOTAL:	2				6		nice
	$\mathbb{Z}_{\mathbb{Q}}$	neg and	als als	ġ.	g Š		1			$\sqcap$		-			Ė	Metals: As Ag Ba Cd Cr Pb Hg			٦. ا	1.	Standard	S	en		2.1
	والمراجع		83	Hea			1				1	1	<u> </u>			Volatiles			Analyze	:	ā	9088	0	w	Brd
	-1 Re	int Rep UPS	io on	dsp	<b>E</b> E		1			T	1	1				Semivolatiles		$\sqcap$	<b>T</b> eF	l		0	18	17	
	pon Receipt:	ഡ8് ജ	aine Y(S)	ace	ag is			1	<del>                                     </del>					Т		BTEX 8021B/5030 or BTEX 82	60	+	For			2	County	1	State
	င်္ဂနည်း CFact	。 呈	(S)				†		+		1	1				RCI		<u> </u>	1		TRRP	1	14,	h	12
	₽ <i>\</i> ∱	<b>F</b> .4				<b>-</b>	T	1		1						N.O.R.M.			1		7	1			_
	カ	P			<b>S</b> 1		1	1		$\dagger$	1				$\vdash$	Chlorides E 300			1				12		2
Ä.,	6	<b>∳</b> <<	⊀≺:	ز≻≽	*		T	1	1	11	1	T					-	-	1				3		COM SOZH
		δ,	7				1		1	Ħ		1		<u> </u>					1		NPDES				H
		N N Lone Star	22	ZZ	Z		t	1							<del>                                     </del>	RUSH TAT (Pre-Schedule) 24,	48,	72 hrs	-	ľ ·	ÄΩ̈́		ľ		12
		醛						1	1	T			4		$\overline{\mathbf{x}}$	Standard TAT				1 - '	တ			Pa	ge

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

Released to Imaging: 11/17/2021 11:30:21 AM

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

## **Release Notification**

#### Responsible Party

			1105	ponsi	DIC 1 al	ıy				
Responsible	Party: Cent	ennial Resource Pr	oduction, Inc		OGRID:	372165				
Contact Nan	ne: Jamon H	lohensee		Contact T	ntact Telephone: 432-241-4283					
Contact ema	il: jamon.ho	hensee@cdevinc.o	om	***	Incident #	# nAPP21026281	07			
Contact mail Texas 79705	ling address:	: 500 W. Illinois A	ve, Suite 500, Mi	dland						
			Location	of R	Release S	ource				
Latitude 32.4	5868	The Arthurson	(NAD 83 in de	cimal de	Longitude grees to 5 deci	-103.51118 mal places)				
Site Name: Ju	uice Bud Sta	te Com 502H			Site Type:	Production Facil	lity			
Date Release Discovered: 1/22/21						API# (if applicable)				
Unit Letter	Section	Township	Range	Cour	ntv					
N	19	21S	wnship Range County  34E Lea							
Surface Owner		☐ Federal ☐ Tr	Nature and	d Vol	ume of	Release				
Crude Oil	Materia	l(s) Released (Select al Volume Release	that apply and attach	calculat	ions or specific		volumes provided below)			
□ Produced					Volume Recovered (bbls)					
Produced	water	Volume Release			Volume Recovered (bbls)					
		Is the concentrate produced water	ion of dissolved c	hloride	de in the Yes No					
Condensa	te	Volume Release			Volume Recovered (bbls)					
☐ Natural Gas Volume Released (Mcf)					Volume Recovered (Mcf)					
Other (des	Other (describe) Volume/Weight Released (provide units					Volume/Weigh	nt Recovered (provide units)			
Cause of Rele	ease									
2" nipple beh	ind the unio	n on the well head	washed out causi	ng flui	ds to be rele	ased to the pad a	rea adjacent to the well head.			



Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

Released to Imaging: 11/17/2021 11:30:21 AM

Was this a major release as defined by 19.15.29.7(A) NMAC?  If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ☑ No
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Initial Response
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
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: Jamon Hohensee, Title: Sr. Environmental Analyst
Signature: Date: 2/11/21
email: jamon.hohensee@cdevinc.com  Telephone: 432-241-4283
OCD Only
Received by: Date:



Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

what is the shahowest depth to groundwater beneath the area affected by the release?	(ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No					
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.						

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Data table of soil contaminant concentration data

Photographs including date and GIS information

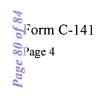
Laboratory data including chain of custody

Depth to water determination

Boring or excavation logs

Topographic/Aerial maps

Released to Imaging: 11/17/2021 11:30:21 AM



Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	offications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have cat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:



Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must	La trada de la la companya de la com
Detailed description of proposed remediation technique  Scaled sitemap with GPS coordinates showing delineation po  Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.20  Proposed schedule for remediation (note if remediation plan to	ints 9.12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be c	onfirmed as part of any request for deferral of remediation.
	production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human hea	Ith, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions o	f Approval Denied Deferral Approved
Signature:	Date:



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

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

### 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.

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: a must be notified 2 days prior to liner inspection)	ppropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days price)	or 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 underst and regulations all operators are required to report and/or file certain release notifications and perform correction may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve should their operations have failed to adequately investigate and remediate contamination that pose a threat to a human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or to accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are Printed Name:  Title:  Title:	ve actions for releases which e the operator of liability groundwater, surface water, of responsibility for s they must substantially their final land use in e complete.
Signature: Date:	
email: Telephone:	
OCD Only	
Received by: Date:	
osure approval by the OCD does not relieve the responsible party of liability should their operations have failed mediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor party of compliance with any other federal, state, or local laws and/or regulations.	ed to adequately investigate and does not relieve the responsible
generate contamination that poses a threat to groundwater, surface water, human health, or the environment nor	ed to adequately investigate and does not relieve the responsible

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

Released to Imaging: 11/17/2021 11:30:21 AM

## 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.

chain of custody documents of final sampling, and a narrative of the following activities. Refer to 17.13.27.12 final co.		
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:		
OCD Only		
Received by:Robert Hamlet Date:11/17/2021_		
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: Robert Hamlet Date: 11/17/2021		
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced		

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

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 41032

#### **CONDITIONS**

Operator:	OGRID:
CENTENNIAL RESOURCE PRODUCTION, LLC	372165
1001 17th Street, Suite 1800	Action Number:
Denver, CO 80202	41032
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2102628107 JUICE BUD STATE COM 502H, thank you. This closure is approved.	11/17/2021