District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-24485
NMLB09153 53481

Release Notification and Corrective Action

2RP 314

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company ConocoPhillips Company	Contact Jesse Sosa
Address 3300 North A St. Bldg 6, Midland, TX 79705-5406	Telephone No. 575-391-3126
Facility Name Illinois Camp Well No 1	Facility Type Oil & Gas

Surface Owner State of New Mexico	Mineral Owner State of New Mexico	Lease No. 30-015-24485

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	5	18S	28E	1980	North	990	West	Eddy

Latitude 32 46 684 **Longitude** 104 12 161

NATURE OF RELEASE

Type of Release Crude oil & produced water	Volume of Release 90 bbl (51 oil, 39 water)	Volume Recovered (0 oil, 0 water)
Source of Release 3X4" Swedge on east side of tank	Date and Hour of Occurrence 2/26/09 NA	Date and Hour of Discovery 2/26/09 1024
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoffrey Leking NMOCD	
By Whom? John Gates	Date and Hour 2/26/2009 1430	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
#X4" swedge on east side of north tank failed due to internal/external corrosion. There were no fluids recovered. The tank was isolated, drained and removed from service.

Describe Area Affected and Cleanup Action Taken.*
Liquids were contained within 35 X 55 ft tank diked area. The release was delineated and remediated in accordance with NMOCD guidelines. See attached document.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Jesse Sosa	Approved by District Supervisor: Signed By Mike Bratcher
Title: HSE Lead	Approval Date: SEP 28 2009 Expiration Date: N/A
E-mail Address: jesse.a.sosa@conocophillips.com	Conditions of Approval: N/A Attached ☐
Date: Sept 25, 2009 Phone: 575-391-3126	

* Attach Additional Sheets If Necessary

2RP-314

Bratcher, Mike, EMNRD

From: Sosa, Jesse A [Jesse.A.Sosa@conocophillips.com]
Sent: Wednesday, September 16, 2009 11:03 AM
To: 'Durrett, Charles'; Bratcher, Mike, EMNRD
Subject: RE: ConocoPhillips Illinois Camp Well #1 - 2RP 314

Thank you gentlemen.

Charlie, I will be out of the office until Tuesday of next week. Thanks for helping me on this.Will get to this ASAP.

Thanks,

Jesus A. Sosa
HSER Lead - Hobbs Production
1410 NW County Road
Hobbs, New Mexico 88240

Phone 575-391-3126
Fax 575-391-3102
Cell 575-390-8251

Jesse.A.Sosa@conocophillips.com

You cannot help the poor by destroying the rich.
You cannot strengthen the weak by weakening the strong.
You cannot bring about prosperity by discouraging thrift.
You cannot lift the wage earner up by pulling the wage payer down.
You cannot further the brotherhood of man by inciting class hatred.
You cannot build character and courage by taking away people's initiative and independence.
You cannot help people permanently by doing for them, what they could and should do for themselves.

.....Abraham Lincoln

From: Durrett, Charles [mailto:Charles.Durrett@tetratech.com]
Sent: Wednesday, September 16, 2009 9:27 AM
To: Bratcher, Mike, EMNRD
Cc: Sosa, Jesse A
Subject: RE: ConocoPhillips Illinois Camp Well #1 - 2RP 314

No problem, I'll complete the form and send it to Jesse for his signature and submittal.

Thank you,

Charlie

Charles Durrett | Project Manager II
1910 N. Big Spring Midland, TX 79705
Main 432 686 8081 Fax 432 682 3946
charles.durret@tetratech.com

Tetra Tech | Complex World, CLEAR SOLUTIONS™ www.tetratech.com

---

From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Wednesday, September 16, 2009 10:11 AM
To: Durrett, Charles
Subject: RE: ConocoPhillips Illinois Camp Well #1 - 2RP 314

Charlie,

Thanks for the submittal. Looks like we can close this one out. What I need is a new C-141, unsigned by me, marked Final Report. I know this is a very minor thing, but just keeps the paper work straight. I can ask Jesse for it, but thought I would check with you first.

Thanks,

Mike
Bratcher

From: Durrett, Charles [mailto:Charles.Durrett@tetratech.com]
Sent: Wednesday, September 16, 2009 6:58 AM
To: Bratcher, Mike, EMNRD
Cc: Sosa, Jesse A; Coy, C. John; Miller, Gary
Subject: ConocoPhillips Illinois Camp Well #1 - 2RP 314

Illinois Camp Well #1
Eddy County, New Mexico

Unit D, Sec. 5, T18S, R28E
2RP 314
Request for Closure

On behalf of ConocoPhillips, Tetra Tech is submitting the attached report describing actions taken to remediate soils at ConocoPhillips' Illinois Camp Well #1 Battery (Site). This work is in support of ConocoPhillips' efforts to restore the area that was affected by the release of 90 barrels of mixed crude oil/produced water into an unlined 35 x 55 foot bermed catch basin. The Site is located approximately 11.5 miles east southeast of Artesia, New Mexico in Eddy County, New Mexico (32.778055° N, 104.202728° W). The State is the land administrator.

Based on the work performed at this Site, Tetra Tech recommends no further action. Upon your review and approval of the report, Tetra Tech on behalf of ConocoPhillips, requests closure for this mixed crude oil/produced water release location. If you have any questions or need additional information, please call Mr. Jesse Sosa (ConocoPhillips, 575-391-3126) or me.

Charlie

Charles Durrett | Project Manager II
1910 N. Big Spring Midland, TX 79705
Main 432.686.8081 Fax 432.682.3946
charles.durrett@tetratech.com

Tetra Tech | Complex World, CLEAR SOLUTIONS™ www.tetratech.com

Bratcher, Mike, EMNRD

From: Durrett, Charles [Charles.Durrett@tetratech.com]
Sent: Wednesday, September 16, 2009 6:58 AM
To: Bratcher, Mike, EMNRD
Cc: Sosa, Jesse A; Coy, C. John; Miller, Gary
Subject: ConocoPhillips Illinois Camp Well #1 - 2RP 314
Attachments: C141.pdf; 20090915.Ill Camp_Closure_Request.pdf

Illinois Camp Well #1
Eddy County, New Mexico
Unit D, Sec. 5, T18S, R28E
2RP 314
Request for Closure

On behalf of ConocoPhillips, Tetra Tech is submitting the attached report describing actions taken to remediate soils at ConocoPhillips' Illinois Camp Well #1 Battery (Site). This work is in support of ConocoPhillips' efforts to restore the area that was affected by the release of 90 barrels of mixed crude oil/produced water into an unlined 35 x 55 foot bermed catch basin. The Site is located approximately 11.5 miles east southeast of Artesia, New Mexico in Eddy County, New Mexico (32.778055° N, 104.202728° W). The State is the land administrator.

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Charlie

Charles Durrett | Project Manager II
1910 N. Big Spring Midland, TX 79705
Main: 432 686 8081 Fax: 432.682 3946
charles durrett@tetratech com

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Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-24485

Release Notification and Corrective Action

nMLB0915353481

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **ConocoPhillips Company**	Contact **John W. Gates**
Address **3300 North A St. Bldg 6, Midland, TX 79705-5406**	Telephone No. **505.391.3158**
Facility Name **Illinois Camp Well No 1**	Facility Type **Oil and Gas**

Surface Owner **State Of New Mexico**	Mineral Owner **State Of New Mexico**	Lease No **30015244485**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K E	5	18S	~~38E~~ 28 E	1980	North	990	West	Eddy

Latitude 32 46 684 Longitude 104 12 161

NATURE OF RELEASE

Type of Release **Crude Oil & Produced Water**	Volume of Release **90bbl (51oil, 39water)**	Volume Recovered **(0oil, 0water)**
Source of Release **3X4" Swedge on east side of tank**	Date and Hour of Occurrence **2/26/09 NA**	Date and Hour of Discovery **2/26/09 1024**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Geoffrey Leking NMOCD**	
By Whom? **John Gates**	Date and Hour **2/26/09 1430**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
3X4 inch swedge on east side of north tank failed due to internal/external corrosion. There were no fluids recovered. The tank was isolated, drained and removed from service.

Describe Area Affected and Cleanup Action Taken.*
15' X 36' area inside caliche dike with no cattle present. There were no fluids recovered. Spill site will be delineated and remediated in accordance with NMOCD guidelines Excavation was completed and the area backfilled, see attached document

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

Signature: John W. Gates

Printed Name: **John W. Gates**

Title: **HSER Lead**

E-mail Address: **John.W.Gates@conocophillips.com**

Date: **02/26/2009** Phone: **505.391.3158**

OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed By Mike Bratcher

Approval Date: JUN 09 2009 Expiration Date:

Conditions of Approval: Remediation per NMOCD Rules & Guidelines Attached ☒

- Attach Additional Sheets If Necessary

pMLB0915354269

Tetra Tech, Charles Durrett 09/15/2009

2RP-314

TETRA TECH, INC.

1910 N. Big Spring
Midland, Texas 79705
(432) 686-8081

September 15, 2009

Mike Bratcher
New Mexico Oil Conservation Division
1301 W. Grand Ave
Carlsbad, NM 88220

RE: Illinois Camp Well #1 Findings Report
Eddy County, New Mexico
Unit D, Sec. 5, T18S, R28E
2RP 314
Request for Closure

Dear Mr. Bratcher:

On behalf of ConocoPhillips, Tetra Tech is submitting this report describing actions taken to remediate soils at ConocoPhillips' Illinois Camp Well #1 Battery (Site; Figure 1). This work is in support of ConocoPhillips' efforts to restore the area that was affected by the release of 90 barrels of mixed crude oil/produced water into an unlined 35 x 55 foot bermed catch basin (C141 attached; Figure 2). The Site is located approximately 11.5 miles east southeast of Artesia, New Mexico in Eddy County, New Mexico (32.778055° N, 104.202728° W). The State is the land administrator.

BACKGROUND

The Site is located immediately north of the western portion of the Delaware Basin. The area is underlain by Guadalupian age formations, which contains a thick sequence of sandstones, shales, siltstone, and evaporates.[1] In the immediate vicinity of the Site, topography is nearly level to moderately undulating. The Kimbrough-Stegall Series loamy soil at the Site is mixed alluvium and/or eolian sand.[2]

[1] Hiss. W.L.1980. Movement of Ground Water in Permian Guadalupian Aquifer Systems, Southeastern New Mexico and Western Texas. In New Mexico Geological Society 31st Field Conference publication entitled "Trans-Pecos Region Southeastern New Mexico and West Texas." Pp 289 – 294.

[2] U.S. Department of Agriculture, Natural Resources Conservation Services. Webb Soil Survey Database.

EXPOSURE PATHWAY ANALYSES

Depth to water in the vicinity of the Site is estimated at over 80 feet below ground surface (fbgs). This interpretation is based six recently completed water wells (L 12199-12221 POD1) in an adjacent quarter section of the Site and these wells were identified in the New Mexico Office of State Engineer's database.[3] The nearest surface water body is a playa, located approximately 1,200 feet northeast of the Site.

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the New Mexico Oil Conservation Division (NMOCD), this Site has the following score:

Criteria		Ranking Score
Depth to groundwater	< 99 feet	10
Distance from water source	>1,000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	>1,000 feet	0
Total Ranking Score		10

The remediation action level for a ranking score of 10 - 19 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 ppm for total petroleum hydrocarbons (TPH).

In the event of produced water releases to the environment, the NMOCD uses the New Mexico Water Quality Control Commission's (NMWQCC) maximum contaminate level of 250 ppm for chloride (20.6.2.3103 NMAC, Subsection A) for delineation.

SCOPE OF WORK

The lateral extent of the mixed crude oil/produced water affected area was defined by the bermed catchment basin. Aliquot soil samples were collected in a "W" pattern, composited into one sample for each sidewall and floor in the excavation, and field analyzed using PID determine that remediation levels have been achieved (< 1,000 ppm TPH). Companion composite samples were placed into glass sample jars, sealed with Teflon-lined lids, and placed on ice for transportation to an analytical laboratory where they were analyzed for chloride (USEPA Method 300.0A), diesel and gasoline range TPH (TPH_{DRO} and TPH_{GRO}, Method 8015), and BTEX (Method 8021). These analyses were used to confirm clean boundaries of the excavation have been achieved.

FINDINGS

The soils encountered during excavation activities at the Site consisted of mostly tan sandy, caliche soils at 0 – 16 fbgs.

[3] New Mexico Office of State Engineer. W.A.T.E.R.S. Database.

TPH (TPH_{DRO} and TPH_{GRO}) concentrations were detected in the east and south walls, and the floor of the excavation. TPH ranged from non-detect to 190 milligrams per kilogram (mg/K). BTEX concentrations were only detected in the south wall and the floor and their concentrations were 0.0438 and 0.0596 mg/K, respectively. Benzene concentrations were not detected in any of the samples collected from the excavation. Chloride concentrations ranged from 20 mg/K in the west wall to 273 mg/K in the east wall. A complete analytical report is presented in the Appendix.

Table 1
ConocoPhillips
Illinois-Camp Well #1 Battery
Eddy County, New Mexico
Excavation Confirmation Results
8-Sep-09

Constituents			Units	Sampling Locations					Action Level (ppm)
				West Wall	East Wall	South Wall	North Wall	Floor	
Laboratory Analyses	TPH	GRO	(mg/Kg)	ND	ND	83	ND	38	1,000
		DRO	(mg/Kg)	ND	23	190.0	ND	136	
		Total	(mg/Kg)	ND	23	273.0	ND	174	
	Benzene		(mg/Kg)	ND	ND	ND	ND	ND	10
	Ethylbenzene		(mg/Kg)	ND	ND	0.0057	ND	0.0050	
	Toluene		(mg/Kg)	ND	ND	ND	ND	0.0074	
	Xylenes Total		(mg/Kg)	ND	ND	0.0381	ND	0.0472	
	Total BTEX			ND	ND	0.0438	ND	0.0596	50
	Chloride		(mg/Kg)	20	273.0	33.4	109	83.6	

TPH = Total petroleum hydrocarbons
VOC = Volatile organic compounds
GRO = Gasoline range hydrocarbons
DRO = Diesel range hydrocarbons
ND = Not detected at or above laboratory level of detection
ppm = Parts per million
mg/Kg = Milligrams per kilogram
blank = No data

CONCLUSIONS

Exposure pathway analysis indicated a ranking score of "10." Therefore, the site-specific remediation levels are 1,000 mg/kg for TPH, 50 mg/kg for BTEX and 10 mg/kg for benzene. According to laboratory analyses of soils collected during this excavation, TPH and BTEX, were reported in the walls and floor and were below NMOCD's remedial action levels. Benzene was not detected in any of the confirmation samples.

All affected soil removed from the Illinois Camp Well #1 Battery mixed crude oil/produced water release site was hauled to CRI–Midway for disposal.

RECOMMENDATIONS

Based on the work performed at this Site, Tetra Tech recommends no further action. Upon your review and approval of this report, Tetra Tech on behalf of ConocoPhillips, requests closure for this mixed crude oil/produced water release location. If you have any questions or need additional information, please call Mr. Jesse Sosa (ConocoPhillips, 505-391-3126) or me.

Sincerely,

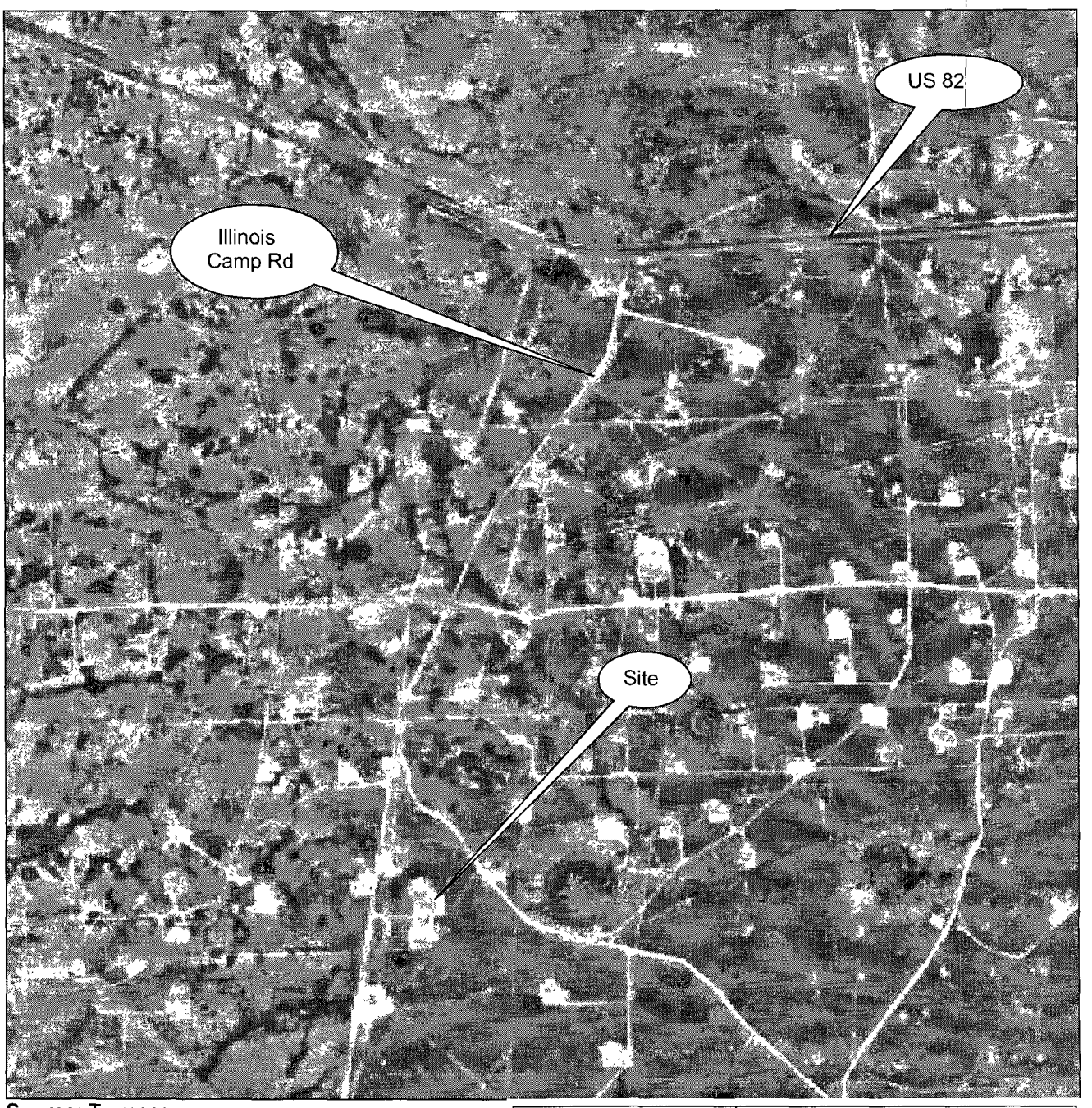
Tetra Tech, Inc.

Charles Durrett

Digitally signed by Charles Durrett
DN cn=Charles Durrett, o=TETRA TECH, ou=Midland, TX, email=Charles Durrett@TetraTech com, c=US
Date 2009 09 16 07 50 10 -05'00'

Charles Durrett
Senior Project Manager

Cc. Mr. Jesse Sosa, ConocoPhillips



Source: Terraserver

FIGURE 1	ILLINOIS CAMP WELL #1 BATTERY
ConocoPhillips	TETRA TECH, INC.
Eddy County, Texas Unit D, Sec 5, T18S, R28E	PROJECT NO. 1146400193 DRAWING BY: CWD DRAWING DATE 5/14/2009 COP PROJECT FILE

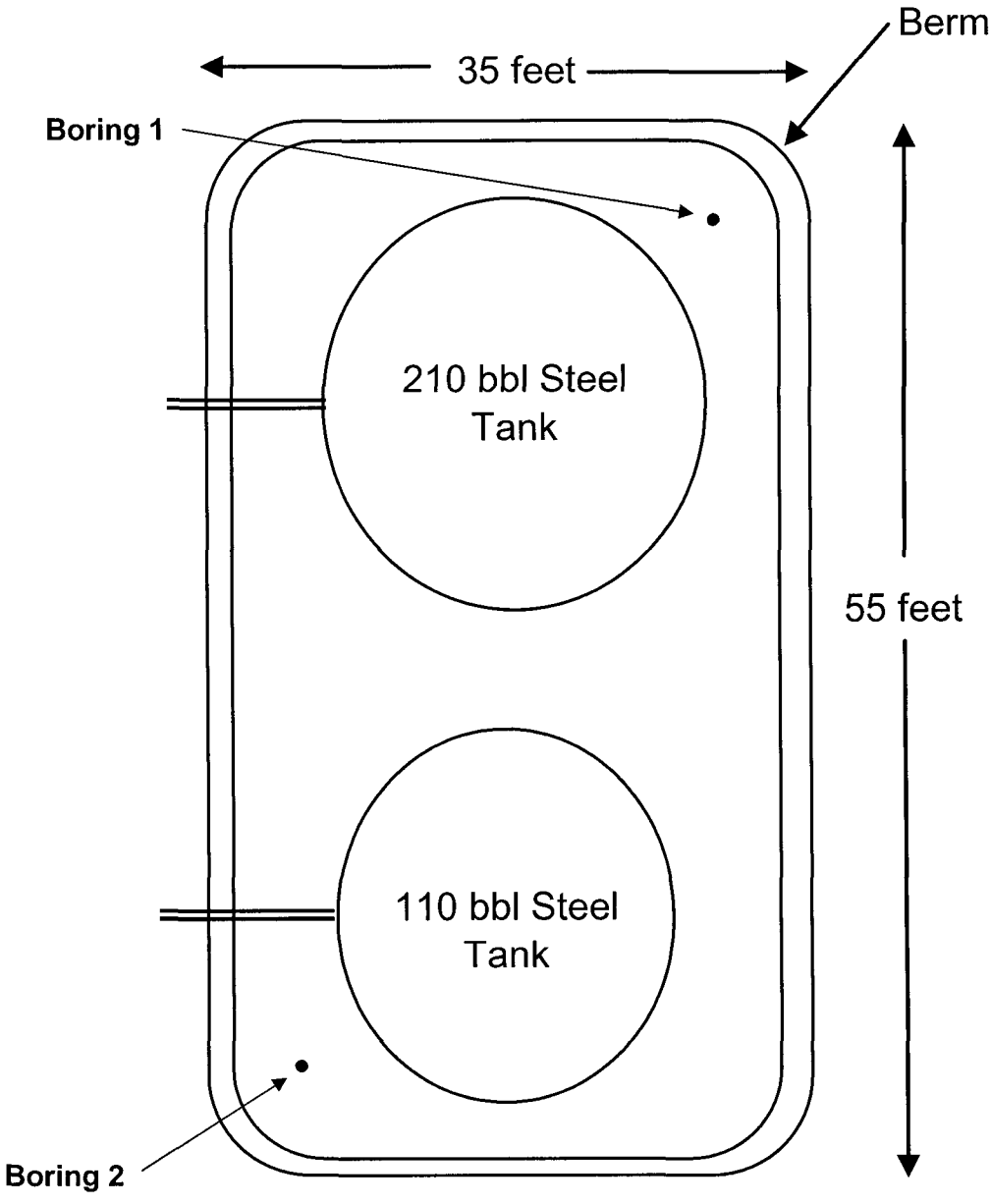


FIGURE 2	FACILITY
ConocoPhillips	TETRA TECH, INC.
Illinois-Camp Well #1 Battery Eddy County, Texas Unit D, Sec 5, T18S, R28E	PROJECT NO 1146400193 DRAWING BY. CWD DRAWING DATE 5/14/2009
	COP PROJECT FILE

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1220 S St. Francis Dr, Santa Fe, NM 87505

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Oil Conservation Division
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Form C-141
Revised October 10, 2003

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30-015-24485

Release Notification and Corrective Action

nMLB0915353481

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **ConocoPhillips Company**	Contact **John W. Gates**
Address **3300 North A St. Bldg 6, Midland, TX 79705-5406**	Telephone No. **505.391.3158**
Facility Name **Illinois Camp Well No 1**	Facility Type **Oil and Gas**

Surface Owner **State Of New Mexico**	Mineral Owner **State Of New Mexico**	Lease No **30015244485**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
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Latitude 32 46 684 Longitude 104 12 161

NATURE OF RELEASE

Type of Release **Crude Oil & Produced Water**	Volume of Release 90bbl (51oil, 39water)	Volume Recovered (0oil, 0water)
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By Whom? **John Gates**	Date and Hour **2/26/09 1430**	
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Describe Cause of Problem and Remedial Action Taken.*
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Describe Area Affected and Cleanup Action Taken.*
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Signature: John W. Gates	OIL CONSERVATION DIVISION
Printed Name: **John W. Gates**	Approved by District Supervisor: Signed By Brad Jones
Title: **HSER Lead**	Approval Date: JUN 09 2009 Expiration Date:
E-mail Address: **John.W.Gates@conocophillips.com**	Conditions of Approval: Remediation per NMOCD Rules & Guidelines Attached ☒
Date: **02/26/2009** Phone: **505.391.3158**	

- Attach Additional Sheets If Necessary

pMLB0915354269

Tetra Tech, Charles Durrett 09/15/2009

2RP-314

APPENDIX

Laboratory Analyses

Analytical Report 343828

for

Tetra Tech- Midland

Project Manager: Charles Durrett

Illinois-Camp

114-6400193CO

09-SEP-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

09-SEP-09

Project Manager: **Charles Durrett**
Tetra Tech- Midland
1910 N. Big Spring
Midland, TX 79705

Reference: XENCO Report No: **343828**
Illinois-Camp
Project Address: Artesia, NM

Charles Durrett:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 343828. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 343828 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 343828

Tetra Tech- Midland, Midland, TX

Illinois-Camp

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
W - Wall	S	Sep-08-09 13:00		343828-001
E - Wall	S	Sep-08-09 13:30		343828-002
S - Wall	S	Sep-08-09 14:00		343828-003
N - Wall	S	Sep-08-09 14:30		343828-004
Floor	S	Sep-08-09 15:00		343828-005

CASE NARRATIVE

XENCO Laboratories

Client Name: Tetra Tech- Midland
Project Name: Illinois-Camp

Project ID: 114-6400193CO
Work Order Number: 343828

Report Date: 09-SEP-09
Date Received: 09/09/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-771483 Percent Moisture
None

Batch: LBA-771487 TPH by SW8015 Mod
None

Batch: LBA-771488 Percent Moisture
None

Batch: LBA-771498 BTEX-MTBE EPA 8021B
SW8021BM

Batch 771498, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 343828-005.
4-Bromofluorobenzene recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 537290-1-BLK,343828-004.
4-Bromofluorobenzene recovered above QC limits Data not confirmed by re-analysis. Samples affected are:343828-001 S

SW8021BM

Batch 771498, Toluene recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 343828-002, -004, -001, -003, -005.
The Laboratory Control Sample for Toluene is within laboratory Control Limits

Batch: LBA-771528 Inorganic Anions by EPA 300
E300

Batch 771528, Chloride recovered above QC limits in the Matrix Spike.
Samples affected are: 343828-002, -004, -001, -003, -005.
The Laboratory Control Sample for Chloride is within laboratory Control Limits

Certificate of Analysis Summary 343828

Tetra Tech- Midland, Midland, TX

Project Name: Illinois-Camp

Project Id: 114-6400193CO
Contact: Charles Durrett
Project Location: Artesia, NM

Date Received in Lab: Wed Sep-09-09 07:40 am
Report Date: 09-SEP-09
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	343828-001		343828-002		343828-003		343828-004		343828-005	
	Field Id:	W - Wall		E - Wall		S - Wall		N - Wall		Floor	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-08-09 13 00		Sep-08-09 13 30		Sep-08-09 14 00		Sep-08-09 14 30		Sep-08-09 15 00	
Anions by EPA 300	*Extracted:*										
	Analyzed:	Sep-09-09 15 17		Sep-09-09 15 52		Sep-09-09 16 05		Sep-09-09 16 18		Sep-09-09 16 30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		20 2	10 9	273	4 46	33 4	4 38	109	4 77	83 6	4 44
BTEX by EPA 8021B	*Extracted:*	Sep-09-09 09 47		Sep-09-09 09 47		Sep-09-09 09 47		Sep-09-09 09 47		Sep-09-09 09 47	
	Analyzed:	Sep-09-09 10 37		Sep-09-09 10 55		Sep-09-09 11 14		Sep-09-09 11 33		Sep-09-09 10 18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0012	ND	0 0011
Toluene		ND	0 0022	ND	0 0022	ND	0 0022	ND	0 0024	0 0074	0 0022
Ethylbenzene		ND	0 0011	ND	0 0011	0 0057	0 0011	ND	0 0012	0 0050	0 0011
m,p-Xylenes		ND	0 0022	ND	0 0022	0 0263	0 0022	ND	0 0024	0 0328	0 0022
o-Xylene		ND	0 0011	ND	0 0011	0 0118	0 0011	ND	0 0012	0 0144	0 0011
Total Xylenes		ND	0 0011	ND	0 0011	0 0381	0 0011	ND	0 0012	0 0472	0 0011
Total BTEX		ND	0 0011	ND	0 0011	0 0438	0 0011	ND	0 0012	0 0596	0 0011
Percent Moisture	*Extracted:*										
	Analyzed:	Sep-09-09 09 00		Sep-09-09 09 00		Sep-09-09 09 01		Sep-09-09 09 01		Sep-09-09 09 01	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8 30	1 00	10 25	1 00	8 70	1 00	16 07	1 00	9 95	1 00
TPH By SW8015 Mod	*Extracted:*	Sep-09-09 08 41		Sep-09-09 08 41		Sep-09-09 08 41		Sep-09-09 08 41		Sep-09-09 08 41	
	Analyzed:	Sep-09-09 10 44		Sep-09-09 11 09		Sep-09-09 12 23		Sep-09-09 11 58		Sep-09-09 11 33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16 4	ND	16 6	83 0	16 4	ND	17 8	38 4	16 6
C12-C28 Diesel Range Hydrocarbons		ND	16 4	23 0	16 6	190	16 4	ND	17 8	136	16 6
C28-C35 Oil Range Hydrocarbons		ND	16 4	ND	16 6	ND	16 4	ND	17 8	ND	16 6
Total TPH		ND	16 4	23 0	16 6	273	16 4	ND	17 8	174	16 6

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Form 2 - Surrogate Recoveries

Project Name: Illinois-Camp

Work Orders : 343828,

Project ID: 114-6400193CO

Lab Batch #: 771498 **Sample:** 537290-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/09/09 09:23

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 771498 **Sample:** 537290-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/09/09 10:00

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0 0163	0.0300	54	80-120	*

Lab Batch #: 771498 **Sample:** 343828-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 10:18

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0235	0.0300	78	80-120	**
4-Bromofluorobenzene	0.0943	0.0300	314	80-120	**

Lab Batch #: 771498 **Sample:** 343828-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 10:37

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0251	0.0300	84	80-120	

Lab Batch #: 771498 **Sample:** 343828-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 10:55

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Illinois-Camp

Work Orders : 343828,

Project ID: 114-6400193CO

Lab Batch #: 771498 **Sample:** 343828-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 11:14

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.1388	0.0300	463	80-120	*

Lab Batch #: 771498 **Sample:** 343828-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 11:33

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0270	0.0300	90	80-120	
4-Bromofluorobenzene	0 0237	0.0300	79	80-120	*

Lab Batch #: 771498 **Sample:** 343828-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 12:48

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0383	0.0300	128	80-120	*

Lab Batch #: 771498 **Sample:** 343828-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 13:07

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0 0300	101	80-120	
4-Bromofluorobenzene	0 0358	0.0300	119	80-120	

Lab Batch #: 771487 **Sample:** 537280-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/09/09 09:29

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	99.7	92	70-135	
o-Terphenyl	36.2	49.9	73	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Illinois-Camp

Work Orders : 343828,

Project ID: 114-6400193CO

Lab Batch #: 771487 **Sample:** 537280-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/09/09 09:54

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	99.7	94	70-135	
o-Terphenyl	37.3	49.9	75	70-135	

Lab Batch #: 771487 **Sample:** 537280-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/09/09 10:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.0	99.7	77	70-135	
o-Terphenyl	39.7	49.9	80	70-135	

Lab Batch #: 771487 **Sample:** 343828-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 10:44

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	50 9	50.1	102	70-135	

Lab Batch #: 771487 **Sample:** 343828-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 11:09

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.4	99.2	78	70-135	
o-Terphenyl	39.8	49.6	80	70-135	

Lab Batch #: 771487 **Sample:** 343828-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 11:33

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.1	99.7	77	70-135	
o-Terphenyl	39.1	49.9	78	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Illinois-Camp

Work Orders : 343828,

Project ID: 114-6400193CO

Lab Batch #: 771487 **Sample:** 343828-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 11:58

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76 6	99.7	77	70-135	
o-Terphenyl	38.8	49.9	78	70-135	

Lab Batch #: 771487 **Sample:** 343828-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 12:23

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.1	99.7	76	70-135	
o-Terphenyl	38 4	49.9	77	70-135	

Lab Batch #: 771487 **Sample:** 343828-005 D / MD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/09/09 12:48

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78 2	99.7	78	70-135	
o-Terphenyl	39.7	49.9	80	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Illinois-Camp

Work Order #: 343828 **Project ID:** 114-6400193CO

Lab Batch #: 771498 **Sample:** 537290-1-BKS **Matrix:** Solid
Date Analyzed: 09/09/2009 **Date Prepared:** 09/09/2009 **Analyst:** ASA
Reporting Units: mg/kg **Batch #:** 1

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
			BLANK /BLANK SPIKE RECOVERY STUDY			
Benzene	ND	0.1000	0.0965	97	70-130	
Toluene	ND	0.1000	0.0932	93	70-130	
Ethylbenzene	ND	0.1000	0.1043	104	71-129	
m,p-Xylenes	ND	0.2000	0.2167	108	70-135	
o-Xylene	ND	0.1000	0.1013	101	71-133	

Lab Batch #: 771528 **Sample:** 343828-001 **Matrix:** Solid
Date Analyzed: 09/09/2009 **Date Prepared:** 09/09/2009 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
			BLANK /BLANK SPIKE RECOVERY STUDY			
Chloride	ND	20.0	19.6	98	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Illinois-Camp

Work Order #: 343828
Analyst: BHW
Lab Batch ID: 771487
Sample: 537280-1-BKS
Units: mg/kg

Date Prepared: 09/09/2009
Batch #: 1

Project ID: 114-6400193CO
Date Analyzed: 09/09/2009
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	997	842	84	997	863	87	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	997	939	94	997	982	98	4	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: Illinois-Camp

Work Order #: 343828
Lab Batch #: 771528
Project ID: 114-6400193CO
Date Analyzed: 09/09/2009
Date Prepared: 09/09/2009
Analyst: LATCOR
QC- Sample ID: 343828-001 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	500	609	122	80-120	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Illinois-Camp

Work Order # : 343828 **Project ID:** 114-6400193CO

Lab Batch ID: 771498 **QC- Sample ID:** 343828-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/09/2009 **Date Prepared:** 09/09/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0 1088	0 0804	74	0 1088	0 0775	71	4	70-130	35	
Toluene	ND	0 1088	0 0783	72	0 1088	0 0749	69	4	70-130	35	X
Ethylbenzene	ND	0 1088	0 0882	81	0 1088	0 0838	77	5	71-129	35	
m,p-Xylenes	ND	0 2177	0 1834	84	0 2177	0 1743	80	5	70-135	35	
o-Xylene	ND	0 1088	0 0868	80	0 1088	0 0822	76	5	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Illinois-Camp

Work Order #: 343828

Lab Batch #: 771528 **Project ID:** 114-6400193CO

Date Analyzed: 09/09/2009 **Date Prepared:** 09/09/2009 **Analyst:** LATCOR

QC- Sample ID: 343828-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by EPA 300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Bromide	ND	ND	NC	20	
Chloride	ND	20.0	NC	20	
Fluoride	ND	ND	NC	20	
Nitrate as N	ND	ND	NC	20	
Nitrite as N	ND	ND	NC	20	
Ortho-Phosphate	ND	ND	NC	20	
Total Phosphate	ND	ND	NC	20	
Sulfate	ND	ND	NC	20	

Lab Batch #: 771483

Date Analyzed: 09/09/2009 **Date Prepared:** 09/09/2009 **Analyst:** ASA

QC- Sample ID: 343811-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	8.70	8.25	5	20	

Lab Batch #: 771488

Date Analyzed: 09/09/2009 **Date Prepared:** 09/09/2009 **Analyst:** ASA

QC- Sample ID: 343828-003 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	8.70	8.01	8	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: Illinois-Camp

Work Order #: 343828

Lab Batch #: 771487 **Project ID:** 114-6400193CO

Date Analyzed: 09/09/2009 **Date Prepared:** 09/09/2009 **Analyst:** BHW

QC- Sample ID: 343828-005 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

TPH By SW8015 Mod Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	38.4	38.4	0	35	
C12-C28 Diesel Range Hydrocarbons	136	137	1	35	
C28-C35 Oil Range Hydrocarbons	ND	ND	NC	35	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

SPL, Inc.
Analysis Request & Chain of Custody Record

343828

SPL Workorder No. ~~6226490~~ PO: SJJEWEL

326256

page 1 of 1

Client Name: ConocoPhillips BU / Tetra Tech
Address: 1910 N Big Spring
City Midland State TX Zip 79705
Phone/Fax: 432-686-8081
Client Contact: Charles Durrett Email: charles.durrett@tetratech.com
Project Name/No.: Illinois-Camp 114-6400193CO
Site Name: Illinois Camp
Site Location: Artesia, NM
Invoice To: COP HC60 Box 66 Lovington, NM 88260 Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	TPH GRO	TPH DRO	BTEX 8021 *	Chloride 300					
W-WALL 001	8 Sep 09	1:00	X		S	G	4	X	4	X	X	X	X					
E-WALL 002	↓	1:30	X		↓	↓	↓	↓	↓	↓	↓	↓	↓					
S-WALL 003	↓	2:00	X		↓	↓	↓	↓	↓	↓	↓	↓	↓					
N-WALL 004	↓	2:30	X		↓	↓	↓	↓	↓	↓	↓	↓	↓					
** FLOOR 005	8 Sep 09	3:00	X		S	G	4	X	4	X	X	X	X					

Client/Consultant Remarks: Rush analyses. Analyze floor sample first. pls call 556-8081 Charles Durrett

Laboratory remarks: custody seal on cooler, w/ labels, + labels as seals 4oz C.G.

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: -5.0°C

Requested TAT
☒ 1 Business Day ☐ Contract
☐ 2 Business Days ☐ Standard
☐ 3 Business Days
☒ Other: same day
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	9 Sep 09	07:30	2. Received by:
3. Relinquished by: [signature]	9/9/09	7:40	4. Received by:
5. Relinquished by:			6. Received by Laboratory: [signature] 7:40 9/9/09

☐ 8880 Interchange Drive Houston, TX 77054 (713) 660-0901
☐ 500 Ambassador Caffery Parkway Scott, LA 70583 (337) 237-4775
☐ 459 Hughes Drive Traverse City, MI 49686 (231) 947-5777

~~custody seal on coo~~ 9/9/09

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Conoco Phillips / Tetra Tech

Date/ Time: 9/9/09 7:40

Lab ID #: 343828

Initials: AR

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	-5 °C	
#2 Shipping container in good condition?	(Yes)	No		
#3 Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4 Custody Seals intact on sample bottles/ container? labels	(Yes)	No	Not Present	
#5 Chain of Custody present?	(Yes)	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont / Lid	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time _____

Regarding _____

Corrective Action Taken:

Check all that Apply

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Friday, August 14, 2009 7:23 AM
To: 'Sosa, Jesse A'
Cc: Coy, C. John; Robinson, Sean T; Durrett, Charles (charles.durrett@tetratech.com)
Subject: RE: Illinois Camp

Mr. Sosa,

Your request for an extension of time to complete this project is approved. If I can be of further assistance in this matter, please contact me.

Thanks,

Mike Bratcher
NMOCD District 2
1301 W. Grand Ave.
Artesia, NM 88210
575-748-1283 Ext.108
mike.bratcher@state.nm.us

From: Sosa, Jesse A [mailto:Jesse.A.Sosa@conocophillips.com]
Sent: Thursday, August 13, 2009 3:03 PM
To: Bratcher, Mike, EMNRD
Cc: Coy, C. John; Robinson, Sean T; Durrett, Charles (charles.durrett@tetratech.com)
Subject: Illinois Camp

Mr. Bratcher , I am writing in regard to the Illinois Camp Remediation Site. I would like to see if we can get an extension on this project of at least another 60 days. We are currently having trouble getting an RFE approval from all partners. We will try and get this resolved early as possible and contact you immediately. Please advise.

Thank you,

Jesus A. Sosa
HSER Lead - Hobbs Production
1410 NW County Road
Hobbs, New Mexico 88240

Phone 575-391-3126
Fax 575-391-3102
Cell 575-390-8251

Jesse.A.Sosa@conocophillips.com