

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company	EnerVest Operating, LLC	Contact	Janet M. Bienski
Address	1001 Fannin Street, Ste. 800, Houston, Tx 77002	Telephone No.	713-495-1571
Facility Name	Jicarilla Contract 148 No. 040	Facility Type	Below Grade Tank Closure
Surface Owner	Jicarilla Apache Nation	Mineral Owner	
		API No.	30-039-23697

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	13	25N	05W	930	North	730	East	Rio Arriba

Latitude 36.40502 **Longitude** 107.30504

NATURE OF RELEASE

Type of Release	None	Volume of Release	Volume Recovered
Source of Release		Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given?	☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?		Date and Hour	
Was a Watercourse Reached?	☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RCVD AUG 22 '12

OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*

No release detected – Closure of below-grade tank

Describe Area Affected and Cleanup Action Taken.*

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: <i>Janet M Bienski</i>	OIL CONSERVATION DIVISION	
Printed Name: Janet M. Bienski	Approved by Environmental Specialist: <i>Jonathan D. Kelly</i>	
Title: Associate Regulatory Analyst	Approval Date: 9/06/2012	Expiration Date:
E-mail Address: jbienski@enervest.net	Conditions of Approval:	Attached ☐
Date: 08/21/2012	Phone: 713-495-1571	

* Attach Additional Sheets If Necessary

n57K 1225055697



Report Summary

Client: Enervest

Chain of Custody Number: 13895

Samples Received: 08-06-12

Job Number: 05123-0002

Sample Number(s): 62832-62834

Project Name/Location: 148-40

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to be 'P. I. n'.

Date:

8/15/12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Enervest	Project #:	05123-0002
Sample ID:	Landfarm	Date Reported:	08-09-12
Laboratory Number:	62832	Date Sampled:	08-06-12
Chain of Custody No:	13895	Date Received:	08-06-12
Sample Matrix:	Soil	Date Extracted:	08-09-12
Preservative:	Cool	Date Analyzed:	08-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.0	0.2
Diesel Range (C10 - C28)	181	0.1
Total Petroleum Hydrocarbons	183	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **148-40**



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Enervest	Project #:	05123-0002
Sample ID:	Large Pit	Date Reported:	08-09-12
Laboratory Number:	62833	Date Sampled:	08-06-12
Chain of Custody No:	13895	Date Received:	08-06-12
Sample Matrix:	Soil	Date Extracted:	08-09-12
Preservative:	Cool	Date Analyzed:	08-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	33.5	0.2
Diesel Range (C10 - C28)	203	0.1
Total Petroleum Hydrocarbons	236	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **148-40**

Client:	Enervest	Project #:	05123-0002
Sample ID:	Small Pit	Date Reported:	08-09-12
Laboratory Number:	62834	Date Sampled:	08-06-12
Chain of Custody No:	13895	Date Received:	08-06-12
Sample Matrix:	Soil	Date Extracted:	08-09-12
Preservative:	Cool	Date Analyzed:	08-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	30.5	0.1
Total Petroleum Hydrocarbons	30.5	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **148-40**



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0809TCAL QA/QC	Date Reported:	08-09-12
Laboratory Number:	62888	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-09-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	08-09-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	08-09-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	1,500	1,560	4.0%	0 - 30%
Diesel Range C10 - C28	116	125	7.3%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	1,500	250	1,470	84.0%	75 - 125%
Diesel Range C10 - C28	116	250	322	88.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 62826-62827, 62830-62834, 62888-62890, 62902 and 62904-62908



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Enervest	Project #:	05123-0002
Sample ID:	Landfarm	Date Reported:	08-13-12
Laboratory Number:	62832	Date Sampled:	08-06-12
Chain of Custody:	13895	Date Received:	08-06-12
Sample Matrix:	Soil	Date Analyzed:	08-10-12
Preservative:	Cool	Date Extracted:	08-09-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	11.6	10.0
o-Xylene	ND	10.0
Total BTEX	11.6	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	80.3 %
	1,4-difluorobenzene	80.1 %
	Bromochlorobenzene	82.6 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: 148-40



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Enervest	Project #:	05123-0002
Sample ID:	Large Pit	Date Reported:	08-13-12
Laboratory Number:	62833	Date Sampled:	08-06-12
Chain of Custody:	13895	Date Received:	08-06-12
Sample Matrix:	Soil	Date Analyzed:	08-10-12
Preservative:	Cool	Date Extracted:	08-09-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	31.0	10.0
p,m-Xylene	342	10.0
o-Xylene	154	10.0
Total BTEX	526	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	83.4 %
	1,4-difluorobenzene	86.9 %
	Bromochlorobenzene	114 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: 148-40



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Enervest	Project #:	05123-0002
Sample ID:	Small Pit	Date Reported:	08-13-12
Laboratory Number:	62834	Date Sampled:	08-06-12
Chain of Custody:	13895	Date Received:	08-06-12
Sample Matrix:	Soil	Date Analyzed:	08-10-12
Preservative:	Cool	Date Extracted:	08-09-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	81.7 %
	1,4-difluorobenzene	82.1 %
	Bromochlorobenzene	89.5 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: 148-40

Client:	N/A	Project #:	N/A
Sample ID:	0810BCAL QA/QC	Date Reported:	08-13-12
Laboratory Number:	62915	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-10-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal. RF	C-Cal. RF	%Diff	Blank Conc	Detect Limit
	Accept. Range 0-15%				
Benzene	7.8215E-06	7.8215E-06	0.000	ND	0.2
Toluene	7.1498E-06	7.1498E-06	0.000	ND	0.2
Ethylbenzene	7.8950E-06	7.8950E-06	0.000	ND	0.2
p,m-Xylene	5.7546E-06	5.7546E-06	0.000	ND	0.2
o-Xylene	8.2374E-06	8.2374E-06	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	ND	ND	0.00	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	ND	ND	0.00	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2360	94.4	39 - 150
Toluene	ND	2500	2340	93.6	46 - 148
Ethylbenzene	ND	2500	2330	93.2	32 - 160
p,m-Xylene	ND	5000	4610	92.2	46 - 148
o-Xylene	ND	2500	2300	92.0	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 62827, 62830-62834 and 62915-62917

Client:	Enervest	Project #:	05123-0002
Sample ID:	Landfarm	Date Reported:	08-14-12
Lab ID#:	62832	Date Sampled:	08-06-12
Sample Matrix:	Soil	Date Received:	08-06-12
Preservative:	Cool	Date Analyzed:	08-13-12
Condition:	Intact	Chain of Custody:	13895

Parameter	Concentration (mg/Kg)
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Total Chloride**110**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **148-40**

Client:	Enervest	Project #:	05123-0002
Sample ID:	Large Pit	Date Reported:	08-14-12
Lab ID#:	62833	Date Sampled:	08-06-12
Sample Matrix:	Soil	Date Received:	08-06-12
Preservative:	Cool	Date Analyzed:	08-13-12
Condition:	Intact	Chain of Custody:	13895

Parameter	Concentration (mg/Kg)
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Total Chloride**49.4**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **148-40**

Client:	Enervest	Project #:	05123-0002
Sample ID:	Small Pit	Date Reported:	08-14-12
Lab ID#:	62834	Date Sampled:	08-06-12
Sample Matrix:	Soil	Date Received:	08-06-12
Preservative:	Cool	Date Analyzed:	08-13-12
Condition:	Intact	Chain of Custody:	13895

Parameter	Concentration (mg/Kg)
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Total Chloride**132**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **148-40**

CHAIN OF CUSTODY RECORD

13895

Client: ENERVEST			Project Name / Location: 148-40			ANALYSIS / PARAMETERS													
Email results to: WGARNER@ENERVEST.NET			Sampler Name: LEE GARNER			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-320-7724			Client No.: 05123-0002																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl ₂	HCl													
LANDFILL	8-6-12	11:57	62832	1				X	X							X		X	X
LARGE PIT	8-6-12	12:10	62833	1				X	X							X		X	X
SMALL PIT	8-6-12	12:20	62834	1				X	X							X		X	X
Relinquished by: (Signature) <i>[Signature]</i>				Date: 8/6/12	Time: 15:45	Received by: (Signature) <i>[Signature]</i>				Date: 8/6/12				Time: 3:47pm					
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			



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