District 1 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 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure
Is nit or below-grade tank covered by a "general plan"? Yes \(\subseteq \text{No \(\subseteq \)} \)

	or below-grade tank Closure of a pit or below-g	rade tank 🗵
Operator Dugan Production Corp Telep	hone:(505)325-1821e-mail address:	
Address: P.O. Box 420, Farmington, New Mexico 87401		· · · · · · · · · · · · · · · · · · ·
Facility or well name: <u>LH No. 174</u> API #: 30-045-28533	U/L or Qtr/Qtr <u>A</u> Sec <u>32</u> T <u>23N</u>	R8W
County: San Juan Latitude 36,18901 Longitude 10		
<u>Pit</u>	Below-grade tank	
Type: Drilling Production Disposal	Volume:bbl Type of fluid:	
Workover Emergency	Construction material:	
Lined Unlined Unlined	Double-walled, with leak detection? Yes If n	not, explain why not.
Liner type: Synthetic Thicknessmil Clay [
Pit Volume <u>77±</u> bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points) 0
L	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No	(0 points) 0
water source, or less than 1000 feet from all other water sources.)		(20 - :)
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points) 10
	1000 feet or more	(0 points)
	Ranking Score (Total Points)	10
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) India	cate disposal location: (check the onsite box if
your are burying in place) onsite 🛛 offsite 🗌 If offsite, name of facility_		description of remedial action taken including
remediation start date and end date. (4) Groundwater encountered: No [2] Y		_
Attach soil sample results and a diagram of sample locations and excavation	•	1234567
Additional Comments:		10,
	and 105 Feet New At 160 Feet a Countly and	RECEIVED 3
12' x 12' x 3'± deep unlined production pit, center located at approxim		RECEIVED 2
Use backhoe to collect 5-point composite sample at 8 foot depth for lab to	esting.	(2 (20)
Excavate to 15' x 15' x 8' and landfarm on-site.		OIL CONS. DIV. DIST. 3
		OIL CONS. DIV. DIST. 3
	····	120
I hereby certify that the information above is true and complete to the bes	t of my knowledge and belief. I further certify the	
has been/will be constructed or closed according to NMOCD guideling	es 🗵, a general permit 🔲, or an (attached) alter	rnative OCD-approved plan 🔲.
Date: January 14, 2008		Black
Printed Name/Title Jeffrey C Blagg, agent	Signature Jeffy (· · · · · · · · · · · · · · · · · · ·
Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve regulations.	the operator of liability should the conte	th any other federal, state, or local laws and/or
Approval: Deputy Oil & Gas Inspector		
Printed Name/Title District #3	Signature Bal Dall	Date: FEB 1 2 2008

Form C-144 June 1, 2004



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	LH #174 - Tank	Date Reported:	10-10-07
Laboratory Number:	43306	Date Sampled:	10-08-07
Chain of Custody No:	3042	Date Received:	10-09-07
Sample Matrix:	Soil	Date Extracted:	10-09-07
Preservative:	Cool	Date Analyzed:	10-10-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.8	0.2
Diesel Range (C10 - C28)	48.3	0.1
Total Petroleum Hydrocarbons	53.1	0.2

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:

Unlined Pit Closures

Analyst P. Green

Mistrem Watles
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	LH #174 - Tank	Date Reported:	10-10-07
Laboratory Number:	43306	Date Sampled:	10-08-07
Chain of Custody:	3042	Date Received:	10-09-07
Sample Matrix:	Soil	Date Analyzed:	10-10-07
Preservative:	Cool	Date Extracted:	10-09-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	ND	0.9	
Toluene	11.5	1.0	
Ethylbenzene	9.7	1.0	
p,m-Xylene	31.0	1.2	
o-Xylene	15.4	0.9	
Total BTEX	67.6		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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:

Unlined Pit Closures

Analyst C. Cylins

Christian Walter



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	10-10-07 QA/Q	C	Date Reported:		10-10-07
Laboratory Number:	43289		Date Sampled:		N/A
Sample Matrix:	Methylene Chlori	de	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		10-10-07
Condition:	N/A	t.	Analysis Request	ed:	TPH
5 % SESS	en arrondoro de des sus sus sus sus sus sus sus sus sus s	- Mill Markethal and the last of the last			mananah elikakin periodi sebagai an amerika bas 🗥
	, I-Cal Date ;	I-Cal-RF:	C-Cal RFI	% Difference	Accept: Range
Gasoline Range C5 - C10	05-07-07	1.0053E+003	1.0057E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0270E+003	1.0274E+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/Kg).		Concentration		Detection Lin	
Gasoline Range C5 - C10	The far it was the far a same of place of the	ND	######################################	0.2	giren.
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND	•	0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate "	- % Difference	Accept Rang	
Gasoline Range C5 - C10	0.8	0.8	0.0%	0 - 30%	新·福子·本
Diesel Range C10 - C28	80.1	79.6	0.6%	0 - 30%	

Spike Conc. (mg/Kg)	Sample 🧢 🎉 Sp	ike Added 👍 Sp	ike Result. 🗯 🤈	Recovery	Accept Range
Gasoline Range C5 - C10	0.8	250	250	99.8%	75 - 125%
Diesel Range C10 - C28	80.1	250	330	99.8%	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 43289 - 43291, 43302 - 43308

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number:	N/A 10-10-BTEX QA/QC 43289	Project #: Date Reported: Date Sampled:	N/A 10-10-07 N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-10-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RFi	C-Cal RF; Accept, Rang	%Diff. je 0 - 15%	Blank Conc	Detect Limit
Benzene	1.1750E+008	1.1774E+008	0.2%	ND	0.1
Toluene	1.0089E+008	1.0109E+008	0.2%	ND	0.1
Ethylbenzene	8.0712E+007	8.0874E+007	0.2%	ND	0.1
p,m-Xylene	1.6040E+008	1.6072E+008	0.2%	ND	0.1
o-Xylene	7.7993E+007	7.8150E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample Di	iplicate 🗀	%Diff:	Accept Range	Detect. Limit
Benzene	1.6	1.6	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	3.1	3.1	0.0%	0 - 30%	1.0
p,m-Xylene	68.4	68.3	0.1%	0 - 30%	1.2
o-Xylene	17.8	17.7	0.6%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	unt Spiked Spik	ed Sample	% Recovery	Accept Range
Benzene	1.6	50.0	51.5	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	3.1	50.0	53.0	99.8%	32 - 160
p,m-Xylene	68.4	100	168	99.8%	46 - 148
o-Xylene	17.8	50.0	67.7	99.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

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 43289 - 43291, 43302 - 43306

Analyst

Parious Waster