

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

Release Notification and Corrective Action

30-045-25762 OPERATOR

☐ Initial Report ☒ Final Report**

Name of Company	Dugan Production Corp.	Contact	Rodger Mullins
Address	P. O. Box 420, Farmington, NM 87499-0420	Telephone No.	(505)325-1821
Facility Name	Gary C #1	Facility Type	oil tank

Surface Owner	Fee	Mineral Owner	Fee	Lease No.	Fee
---------------	-----	---------------	-----	-----------	-----

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	11	29N	15W	330	North	990	West	San Juan

Latitude 36.74812 Longitude 108.39156

NATURE OF RELEASE

Type of Release	oil	Volume of Release	Volume Recovered
Source of Release		Date and Hour of Occurrence	Date and Hour of Discovery
Tank (broken drain valve)		1/23/08 @ approx 4:00 p.m.	1/23/08 @ approx 4:00 p.m.
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Aztec Office NMOCD - Brandon Powell
By Whom?	Rodger Mullins	Date and Hour	
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RCVD MAR 10 '08

OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.**

Test results of spill area are attached (initial report submitted 1/25/08)

Describe Area Affected and Cleanup Action Taken.*

Test results of spill area are attached (initial report submitted 1/25/08)

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.

OIL CONSERVATION DIVISION

Signature:

Rodger Mullins

Printed Name: Rodger Mullins

Approved by District Supervisor:

Janet D. Kelly

Title: Production Foreman

Approval Date: 2/27/2002 Expiration Date:

E-mail Address: rmullins@duganproduction.com

Conditions of Approval:

Attached ☐

Date: March 7, 2008 Phone: (505)325-1821

* Attach Additional Sheets If Necessary

nJK1205843122

30-045-25762

CLIENT <u>DUGAN</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ COCR NO: <u>3924</u>
---------------------	---	--

FIELD REPORT: SPILL CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
---	--	-------------------------------

LOCATION NAME <u>GARY C</u> WELL #: <u>1</u> TYPE: <u>TANK SPILL</u> QUAD/UNIT: <u>D</u> SEC: <u>11</u> TWP: <u>29N</u> RRG: <u>15W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>330FNL x 990 FWL</u> CONTRACTOR: <u>MJO</u>	DATE STARTED <u>2-28-08</u> DATE FINISHED <u>2-28-08</u> ENVIRONMENTAL SPECIALIST: <u>JCB</u>
---	---

EXCAVATION APPROX. 30 FT. x 28 FT. x 3'-6" FT. DEEP. CUBIC YARDAGE: 100 ±

DISPOSAL FACILITY: COMMERCIAL L.F. REMEDIATION METHOD: EXCAVATE → L.F.

LAND USE: AGRI LEASE: FEE FORMATION: GAL

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>90</u> FT. <u>N75W</u> FROM WELLHEAD
------------------------	---

DEPTH TO GROUNDWATER: <u>< 20</u>	NEAREST WATER SOURCE: <u>< 2000</u>	NEAREST SURFACE WATER: <u>< 1000</u>
NMOC D RANKING SCORE: <u>30+</u>	NMOC D TPH CLOSURE STD: <u>100</u> PPM	

SOIL AND EXCAVATION DESCRIPTION: <u>1'-6" 0'-1"</u> SOIL TYPE <u>SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER</u> SOIL COLOR <u>TAN</u> COHESION (ALL OTHERS) <u>(NON COHESIVE / SLIGHTLY COHESIVE)</u> COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>(LOOSE)</u> FIRM / DENSE / VERY DENSE PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE DRY <u>(SLIGHTLY MOIST)</u> MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>(YES)</u> NO EXPLANATION: <u>MINOR IN REMOVED SOILS</u> HC ODOR DETECTED: <u>(YES)</u> NO EXPLANATION: <u>STRONG IN REMOVED SOILS</u> SAMPLE TYPE GRAB <u>(COMPOSITE)</u> # OF PTS. <u>5 x 2 EACH</u> ADDITIONAL COMMENTS: <u>TANK RELEASE OF Hydrocarbons - Retained by FIREWALL - USE BACKHOE TO EXCAVATE ALL VISUAL/ODOR IMPACTS.</u>	OVM CALIB. READ = <u>62.0</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>1200</u> am/pm DATE <u>2-28-08</u>
--	---

FIELD 418.1 CALCULATIONS							
SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

SCALE

0 30 FT

PIT PERIMETER

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
① 5pt @ 6'	0.2
② 5pt @ 3'	0.6

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
①	TPH/BTEX/EL	1410
②	"	1512

PIT PROFILE

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE
 T.H. = TEST HOLE

TRAVEL NOTES: CALLOUT _____ ONSITE: 2-28-08

CHAIN OF CUSTODY RECORD

3924

Client BLAGG DUGAN			Project Name / Location GARY C #1			ANALYSIS / PARAMETERS														
Client Address:			Sampler Name. JEFF BLAGG			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CL-				Sample Cool	Sample Intact
Client Phone No.:			Client No.: 94034-010																	
Sample No / Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No / Volume of Containers	Preservative H ₂ O ₂ HNO ₃														
S-Point #1 @ 6'	2/29/08	1410	44372	SOIL	1-4 oz				X	X								X		
S-Point #2 @ 3'	"	1512	44373	"	"				X	X								X		
Relinquished by (Signature) <i>Jeff Blagg</i>						Date 2/29/08		Time 1512		Received by (Signature) <i>[Signature]</i>						Date 2/29/08		Time 1512		
Relinquished by (Signature)										Received by (Signature)										
Relinquished by (Signature)										Received by (Signature)										

ENVIROTECH INC.

5796 U.S. Highway 64 • Farmington, New Mexico 87401 • (505) 632-0615

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	5-point #1 @ 6'	Date Reported:	03-04-08
Laboratory Number:	44372	Date Sampled:	02-28-08
Chain of Custody No:	3924	Date Received:	02-29-08
Sample Matrix:	Soil	Date Extracted:	03-03-08
Preservative:	Cool	Date Analyzed:	03-04-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	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: **Gary C #1**

Analyst

Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

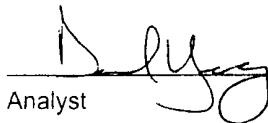
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	5-point #2 @ 3'	Date Reported:	03-04-08
Laboratory Number:	44373	Date Sampled:	02-28-08
Chain of Custody No:	3924	Date Received:	02-29-08
Sample Matrix:	Soil	Date Extracted:	03-03-08
Preservative:	Cool	Date Analyzed:	03-04-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

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

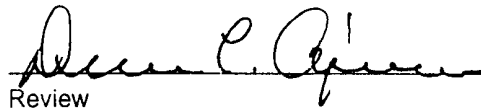
ND - Parameter not detected at the stated detection limit.

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

Comments: **Gary C #1**



Analyst



Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-04-08 QA/QC	Date Reported:	03-004-08
Laboratory Number:	44345	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-04-08
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9780E+002	9.9820E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0025E+003	1.0029E+003	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	0.2

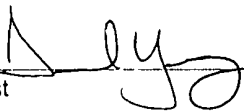
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	21.1	21.0	0.5%	0 - 30%

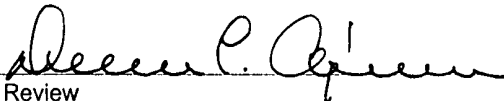
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100%	75 - 125%
Diesel Range C10 - C28	21.1	250	271	99.9%	75 - 125%

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 44345, 44372 - 44374

Analyst 

Review 

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	5-pt #1 @ 6'	Date Reported:	03-04-08
Laboratory Number:	44372	Date Sampled:	02-28-08
Chain of Custody:	3924	Date Received:	02-29-08
Sample Matrix:	Soil	Date Analyzed:	03-04-08
Preservative:	Cool	Date Extracted:	03-03-08
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.7	0.9
Toluene	9.9	1.0
Ethylbenzene	1.9	1.0
p,m-Xylene	ND	1.2
o-Xylene	1.5	0.9
Total BTEX	15.0	

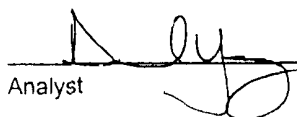
ND - Parameter not detected at the stated detection limit.

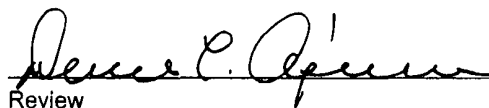
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Gary C #1


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	5-pt #2 @ 3'	Date Reported:	03-04-08
Laboratory Number:	44373	Date Sampled:	02-28-08
Chain of Custody:	3924	Date Received:	02-29-08
Sample Matrix:	Soil	Date Analyzed:	03-04-08
Preservative:	Cool	Date Extracted:	03-03-08
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	10.6	1.0
Ethylbenzene	1.7	1.0
p,m-Xylene	1.3	1.2
o-Xylene	1.9	0.9
Total BTEX	15.5	

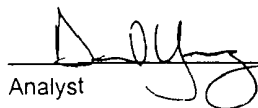
ND - Parameter not detected at the stated detection limit.

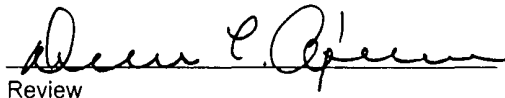
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Gary C #1


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-04-BTEX QA/QC	Date Reported:	03-04-08
Laboratory Number:	44372	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-04-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	4.2338E+007	4.2423E+007	0.2%	ND	0.1
Toluene	3.6130E+007	3.6202E+007	0.2%	ND	0.1
Ethylbenzene	2.7867E+007	2.7923E+007	0.2%	ND	0.1
p,m-Xylene	5.6567E+007	5.6680E+007	0.2%	ND	0.1
o-Xylene	2.5559E+007	2.5610E+007	0.2%	ND	0.1

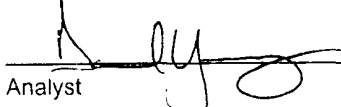
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.7	1.7	0.0%	0 - 30%	0.9
Toluene	9.9	9.9	0.0%	0 - 30%	1.0
Ethylbenzene	1.9	1.8	5.3%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	1.5	1.5	0.0%	0 - 30%	0.9

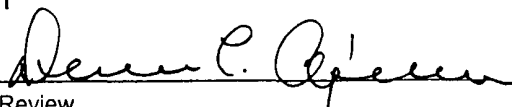
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.7	50.0	51.7	100.0%	39 - 150
Toluene	9.9	50.0	59.8	99.8%	46 - 148
Ethylbenzene	1.9	50.0	51.9	100.0%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	1.5	50.0	51.4	99.8%	46 - 148

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 44372 - 44374, 44381


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	5-Point #1 @ 6'	Date Reported:	03-04-08
Lab ID#:	44372	Date Sampled:	02-28-08
Sample Matrix:	Soil	Date Received:	02-29-08
Preservative:	Cool	Date Analyzed:	03-03-08
Condition:	Intact	Chain of Custody:	3924

Parameter

Concentration (mg/Kg)

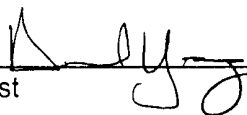
Total Chloride

24.0

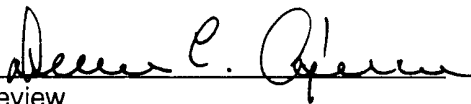
Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Gary C #1

Analyst



Review



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	5-Point #2 @ 3'	Date Reported:	03-04-08
Lab ID#:	44373	Date Sampled:	02-28-08
Sample Matrix:	Soil	Date Received:	02-29-08
Preservative:	Cool	Date Analyzed:	03-03-08
Condition:	Intact	Chain of Custody:	3924

Parameter

Concentration (mg/Kg)

Total Chloride

20.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Gary C #1

Analyst

Review