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-144
June 1, 2004

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 pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Dugan Production Corp Telephone: (505)325-1821 e-mail address:
Address: P.O. Box 420, Farmington, New Mexico 87401
Facility or well name: Carpenter No. 1E API #: 30-045-23613 U/L or Qtr/Qtr F Sec 25 T 30N R 14W
County: San Juan Latitude 36.78738 Longitude 108.26443 NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

RCVD MAY2'07
OIL CONS. DIV.
DIST. 3

Pit	Below-grade tank
Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness ____mil Clay ☐ Pit Volume 288 ± bbl	Volume: ____bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)	0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	20
	Ranking Score (Total Points)		20

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☒ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface_____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

30' x 18' x 3'± deep unlined production pit, center located at approximately 30 Feet North 28° East of wellhead

Use backhoe to dig into pit and remove impacted soils to hard sandstone surface at 3'-4' below ground surface. Submit 4-point composite sidewall sample and pit center sample for laboratory testing. Conduct follow-up investigation to confirm lateral extent of impacts by digging test holes around (down-gradient) of pit and submit composite sample from test holes for laboratory testing. No visual/odor evidence of impacts in test holes.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**
Date: May 1, 2007.
Printed Name/Title Jeffrey C Blagg, agent Signature Jeffrey C. Blagg.
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Signature Brandon Powell Date: MAY 02 2007

30-045-23613 36.78738 x 108.26443

CLIENT: DUGAN

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: _____
COCR NO: 2425

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: CARPENTER WELL #: 1E TYPE: SEP
QUAD/UNIT: F SEC: 25 TWP: 30N RNG: 14W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1850 FNL x 1480 FWL CONTRACTOR: MJO

DATE STARTED: 4-5-07
DATE FINISHED: 4-20-07
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. 30 FT. x 18 FT. x 3'-4' FT. DEEP. CUBIC YARDAGE: 20±
DISPOSAL FACILITY: ONSITE REMEDIATION METHOD: L.F.
LAND USE: RANGE- BLM LEASE: NM 0206994 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 30 FT. N28E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >100 NEAREST SURFACE WATER: <200
NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

OVM CALIB. READ. = 53.1 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 1210 am/pm DATE: 4-5-07

SOIL AND EXCAVATION DESCRIPTION:

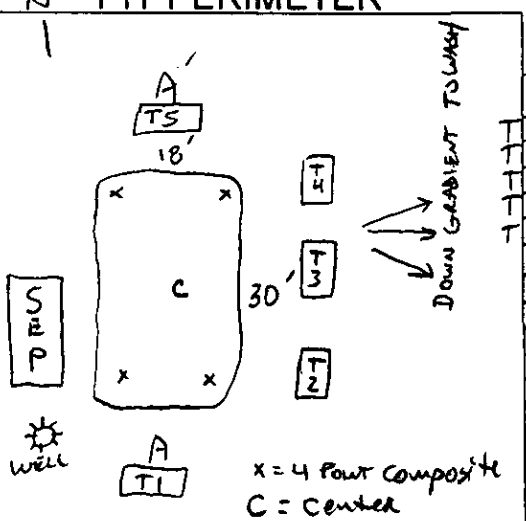
0'-3'
SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK SANDSTONE @ 3'
SOIL COLOR: GRAY/TAN
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - Pit Surface to Sandstone Top
HC ODOR DETECTED: YES / NO EXPLANATION - MINOR
SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. _____
ADDITIONAL COMMENTS: 30' x 18' x 3'± Unlined Pit. Use Backhoe to remove impacted soils to sandstone surface @ 3'-4' (1' Below Pit Bottom)

FIELD 418.1 CALCULATIONS

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

SCALE 0 FT

PIT PERIMETER



P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

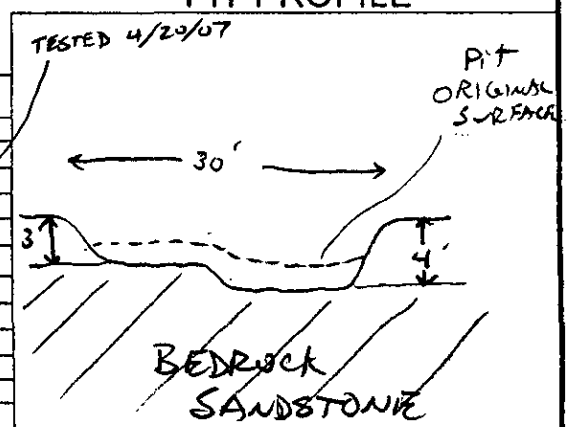
OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
T 1 @ 3'	0.0
T 2 @ 4'	0.0
T 3 @ 4'	0.0
T 4 @ 5'	0.0
T 5 @ 5'	0.0
4-POINT	62
CENTER	18

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
4-POINT	TPH/BTEX/Cl	1140
CENTER	"	1150
T1-T5 Composite	"	0855 - 4/20/07

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: 4/5/07 0900
4/20/07 0830

revised: 09/04/02

bei1005C.skf

CHAIN OF CUSTODY RECORD

2425

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/DUGAN	CARPENTER 1E	

Sampler:	Client No.
JEFF BLAGG	94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	Cl-				Remarks
4-POINT COMPOSITE	4/5/07	1140	40756	SOIL	1	X	X	X				SEPARATOR PIT
CENTER	"	1150	40757	"	1	X	X	X				"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	4/5/07	1255	Glenn P. Appel	4/5/07	1255
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

Sample Receipt	Y	N	N/A
Received Intact	X		
Cool - Ice/Blue Ice	X		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	4-Point Composite	Date Reported:	04-06-07
Laboratory Number:	40756	Date Sampled:	04-05-07
Chain of Custody No:	2425	Date Received:	04-05-07
Sample Matrix:	Soil	Date Extracted:	04-06-07
Preservative:	Cool	Date Analyzed:	04-06-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**409**	**0.2**
Diesel Range (C10 - C28)	**862**	**0.1**
Total Petroleum Hydrocarbons	**1,270**	**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: **Carpenter 1E Separator Pit**

Analyst

Review

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Center	Date Reported:	04-06-07
Laboratory Number:	40757	Date Sampled:	04-05-07
Chain of Custody No:	2425	Date Received:	04-05-07
Sample Matrix:	Soil	Date Extracted:	04-06-07
Preservative:	Cool	Date Analyzed:	04-06-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**60.2**	**0.2**
Diesel Range (C10 - C28)	**192**	**0.1**
Total Petroleum Hydrocarbons	**252**	**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: **Carpenter 1E Separator Pit**

Analyst

Review

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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:	04-06-07 QA/QC	Date Reported:	04-06-07
Laboratory Number:	40732	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-06-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	9.9324E+002	9.9423E+002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	07-11-05	9.9301E+002	9.9500E+002	**0.20%**	**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	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**249**	**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 40732 - 40734, 40755 - 40757**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	4-Point Composite	Date Reported:	04-06-07
Laboratory Number:	40756	Date Sampled:	04-05-07
Chain of Custody:	2425	Date Received:	04-05-07
Sample Matrix:	Soil	Date Analyzed:	04-06-07
Preservative:	Cool	Date Extracted:	04-06-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**383**	**1.8**
Toluene	**2,540**	**1.7**
Ethylbenzene	**1,260**	**1.5**
p,m-Xylene	**5,430**	**2.2**
o-Xylene	**2,190**	**1.0**
Total BTEX	**11,800**	

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: **Carpenter 1E Separator Pit**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Center	Date Reported:	04-06-07
Laboratory Number:	40757	Date Sampled:	04-05-07
Chain of Custody:	2425	Date Received:	04-05-07
Sample Matrix:	Soil	Date Analyzed:	04-06-07
Preservative:	Cool	Date Extracted:	04-06-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**103**	**1.8**
Toluene	**4,590**	**1.7**
Ethylbenzene	**3,670**	**1.5**
p,m-Xylene	**16,290**	**2.2**
o-Xylene	**6,640**	**1.0**
Total BTEX	**31,290**	

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: **Carpenter 1E Separator Pit**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-06-BTEX QA/QC	Date Reported:	04-06-07
Laboratory Number:	40732	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-06-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	1.1586E+007	1.1609E+007	0.2%	ND	0.2
Toluene	1.6866E+007	1.6899E+007	0.2%	ND	0.2
Ethylbenzene	7.4723E+006	7.4872E+006	0.2%	ND	0.2
p,m-Xylene	3.9594E+007	3.9674E+007	0.2%	ND	0.2
o-Xylene	1.7024E+007	1.7059E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	3.7	3.7	0.0%	0 - 30%	1.7
Ethylbenzene	14.2	14.2	0.0%	0 - 30%	1.5
p,m-Xylene	42.9	43.0	0.2%	0 - 30%	2.2
o-Xylene	34.0	33.9	0.3%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	3.7	50.0	53.7	100.0%	46 - 148
Ethylbenzene	14.2	50.0	64.1	99.8%	32 - 160
p,m-Xylene	42.9	100	142	99.7%	46 - 148
o-Xylene	34.0	50.0	83.8	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 40732 - 40734, 40752 - 40757**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	4-Point Composite	Date Reported:	04-06-07
Lab ID#:	40756	Date Sampled:	04-05-07
Sample Matrix:	Soil	Date Received:	04-05-07
Preservative:	Cool	Date Analyzed:	04-06-07
Condition:	Cool and Intact	Chain of Custody:	2425

Parameter	Concentration (mg/Kg)
Total Chloride	**394**

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

Comments: **Carpenter 1E Separator Pit**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Center	Date Reported:	04-06-07
Lab ID#:	40757	Date Sampled:	04-05-07
Sample Matrix:	Soil	Date Received:	04-05-07
Preservative:	Cool	Date Analyzed:	04-06-07
Condition:	Cool and Intact	Chain of Custody:	2425

Parameter	Concentration (mg/Kg)
Total Chloride	**412**

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

Comments: **Carpenter 1E Separator Pit**

Analyst

Review

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CHAIN OF CUSTODY RECORD

2523

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / DUGAN	CARPENTER #1E	
Sampler: JEFF BLAGG	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	Cl-				Remarks
T1-T5 5 POINT	4/24/07	0855	41200	SOIL	1	X	X	X				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	4/24/07	0636	Denise Ogburn	4/24/07	0636
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

Sample Receipt	Y	N	N/A
Received Intact	X		
Cool - Ice/Blue Ice	X		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	T1-T5 5 Point	Date Reported:	04-26-07
Laboratory Number:	41200	Date Sampled:	04-24-07
Chain of Custody No:	2523	Date Received:	04-24-07
Sample Matrix:	Soil	Date Extracted:	04-24-07
Preservative:	Cool	Date Analyzed:	04-25-07
Condition:	Cool and 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: **Carpenter #1E**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	T1-T5 5 Point	Date Reported:	04-26-07
Laboratory Number:	41200	Date Sampled:	04-24-07
Chain of Custody:	2523	Date Received:	04-24-07
Sample Matrix:	Soil	Date Analyzed:	04-25-07
Preservative:	Cool	Date Extracted:	04-24-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**11.1**	**1.7**
Ethylbenzene	**3.2**	**1.5**
p,m-Xylene	**12.0**	**2.2**
o-Xylene	**5.2**	**1.0**
Total BTEX	**31.5**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

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: **Carpenter #1E**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	T1-T5 5 Point	Date Reported:	04-25-07
Lab ID#:	41200	Date Sampled:	04-24-07
Sample Matrix:	Soil	Date Received:	04-24-07
Preservative:	Cool	Date Analyzed:	04-24-07
Condition:	Cool and Intact	Chain of Custody:	2523

Parameter	Concentration (mg/Kg)
Total Chloride	**382**

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

Comments: **Carpenter #1E**

Christine M Walden
Analyst

Review

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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:	04-25-07 QA/QC	Date Reported:	04-26-07
Laboratory Number:	41184	Date Sampled:	N/A
Sample Matrix:	*Methylene Chloride*	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-25-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	07-11-05	9.9865E+002	9.9965E+002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	07-11-05	9.9815E+002	1.0001E+003	**0.20%**	**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	**11.7**	**11.6**	**0.9%**	**0 - 30%**
Diesel Range C10 - C28	**15.2**	**15.1**	**0.7%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	**11.7**	**250**	**261**	**99.6%**	**75 - 125%**
Diesel Range C10 - C28	**15.2**	**250**	**264**	**99.6%**	**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 41184 - 41190, 41199 - 41200**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-25-BTEX QA/QC	Date Reported:	04-26-07
Laboratory Number:	41184	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-25-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	3.9109E+007	3.9168E+007	0.2%	ND	0.2
Toluene	5.4782E+007	5.4892E+007	0.2%	ND	0.2
Ethylbenzene	2.6211E+007	2.6264E+007	0.2%	ND	0.2
p,m-Xylene	1.0418E+008	1.0439E+008	0.2%	ND	0.2
o-Xylene	5.0250E+007	5.0351E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	10.3	10.3	0.0%	0 - 30%	1.8
Toluene	84.7	84.6	0.1%	0 - 30%	1.7
Ethylbenzene	26.8	26.7	0.4%	0 - 30%	1.5
p,m-Xylene	813	812	0.1%	0 - 30%	2.2
o-Xylene	249	248	0.4%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	10.3	50.0	60.2	99.8%	39 - 150
Toluene	84.7	50.0	134	99.8%	46 - 148
Ethylbenzene	26.8	50.0	76.6	99.7%	32 - 160
p,m-Xylene	813	100	911	99.8%	46 - 148
o-Xylene	249	50.0	298	99.7%	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 41184, 41199 - 41200**

Analyst

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