

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

Form C-144
June 1, 2004

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 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: Resource Development Technology LLC Telephone: (303) 716-3200 e-mail address: ras.rdt@mindspring.com

Address: P.O. Box 1020, Morrison, CO 80465

Facility or well name: Fikes Fed. Com. #1 API #: 30-039-22904 U/L or Qtr/Qtr : 990' FSL & 980' FWL, Unit M' of Sec 27 T25N R6W

County: Rio Arriba Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐

Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

Pit

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☐

Liner type: Synthetic ☐ Thickness _____ mil Clay ☐

Pit Volume _____

Below-grade tank

Volume: 55 bbl Type of fluid: Separator fluids

Construction material: Fiberglass

Double-walled, with leak detection? Yes ☐ If not, explain why not.

One (1) fiberglass tank was removed from old production pit; soil was remediated.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet

(20 points)

50 feet or more, but less than 100 feet

(10 points)

20

100 feet or more

(0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes

(20 points)

No

(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

(20 points)

200 feet or more, but less than 1000 feet

(10 points)

10

1000 feet or more

(0 points)

Ranking Score (Total Points)

30

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 you 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 15.25 ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: One unlined production pit was remediated by excavating contaminated soil and landfarming the soil on-site. The pit was the original production pit south of the separator with an estimated volume of 300 barrels. The pit had an improperly installed 55-bbl fiberglass tank in it, which was removed. Approximately 169 cubic yards of soil were excavated from this pit. Initial pit samples were taken on 6/28/04, with the pit bottom sample exceeding the 100 ppm standard. On 7/7/04, after additional excavation, a composite wall sample and a composite bottom sample were taken from the pit and sent to the laboratory for TPH and BTEX analysis. Water was observed in potholes in the pit bottom at this time. A water chemistry sample was taken on 8/25/04. The water sample met all appropriate standards. The land farm was sampled in November 2004 and re-sampled on 5/25/05. The site diagram and sample results are attached. All FINAL sample results are less than the 100 ppm TPH standard for the site.

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: 9/5/2006

Printed Name/Title Robert A. Schwering, Operations Manager

Signature R. A. Schwering

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: DEPUTY OIL & GAS INSPECTOR, DIST. #

Printed Name/Title _____

Signature Brandon Powell

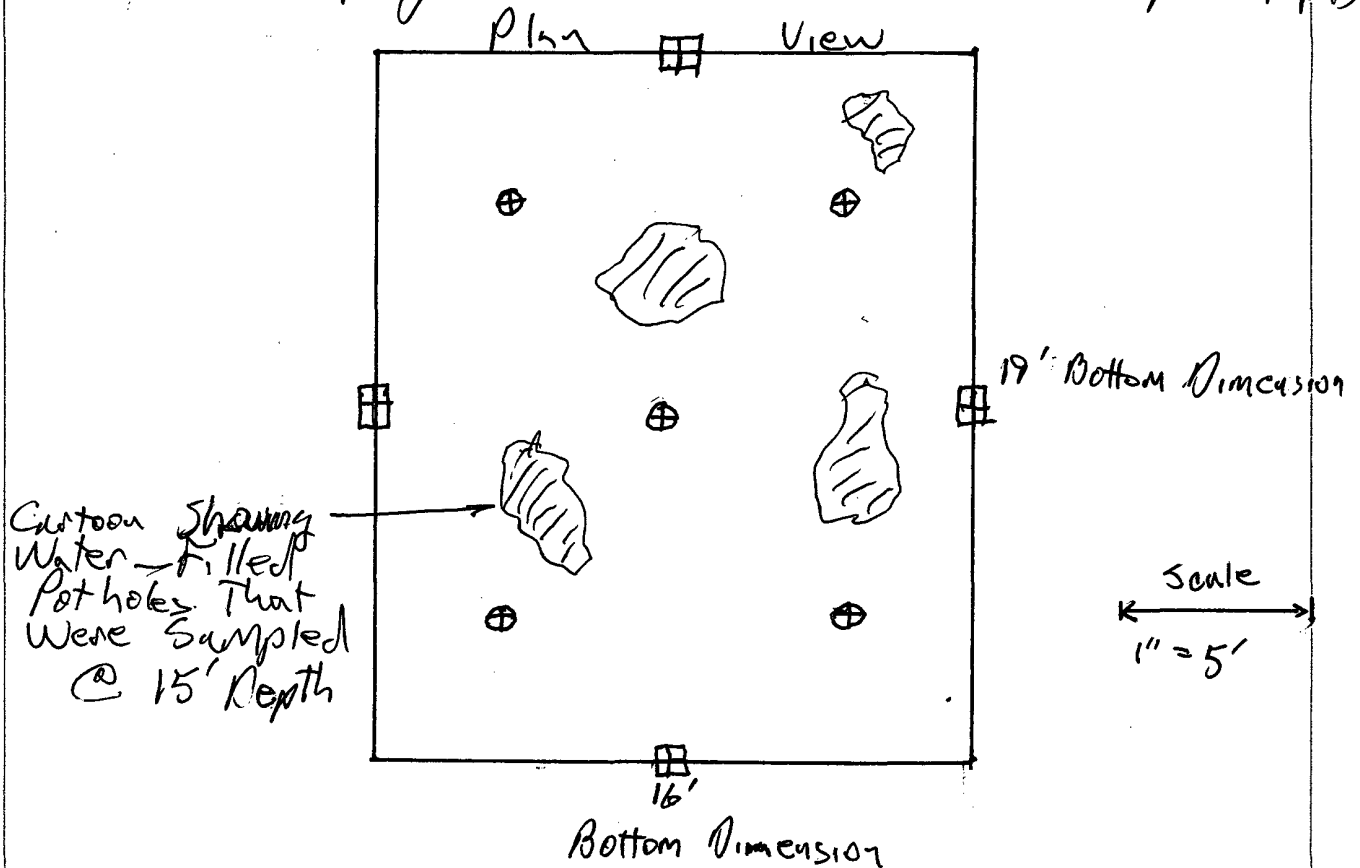
Date: SEP 05 2006

Fikes Fed Com #1 Well

Figure 1

Earthen Pit Schematics

- ⊕ : Approx. Sampling Points for Bottom Composite Samples (5 Spot)
 ⊞ : Approx. Sampling Points for Side Composite Samples (4 Spot)



Section View:

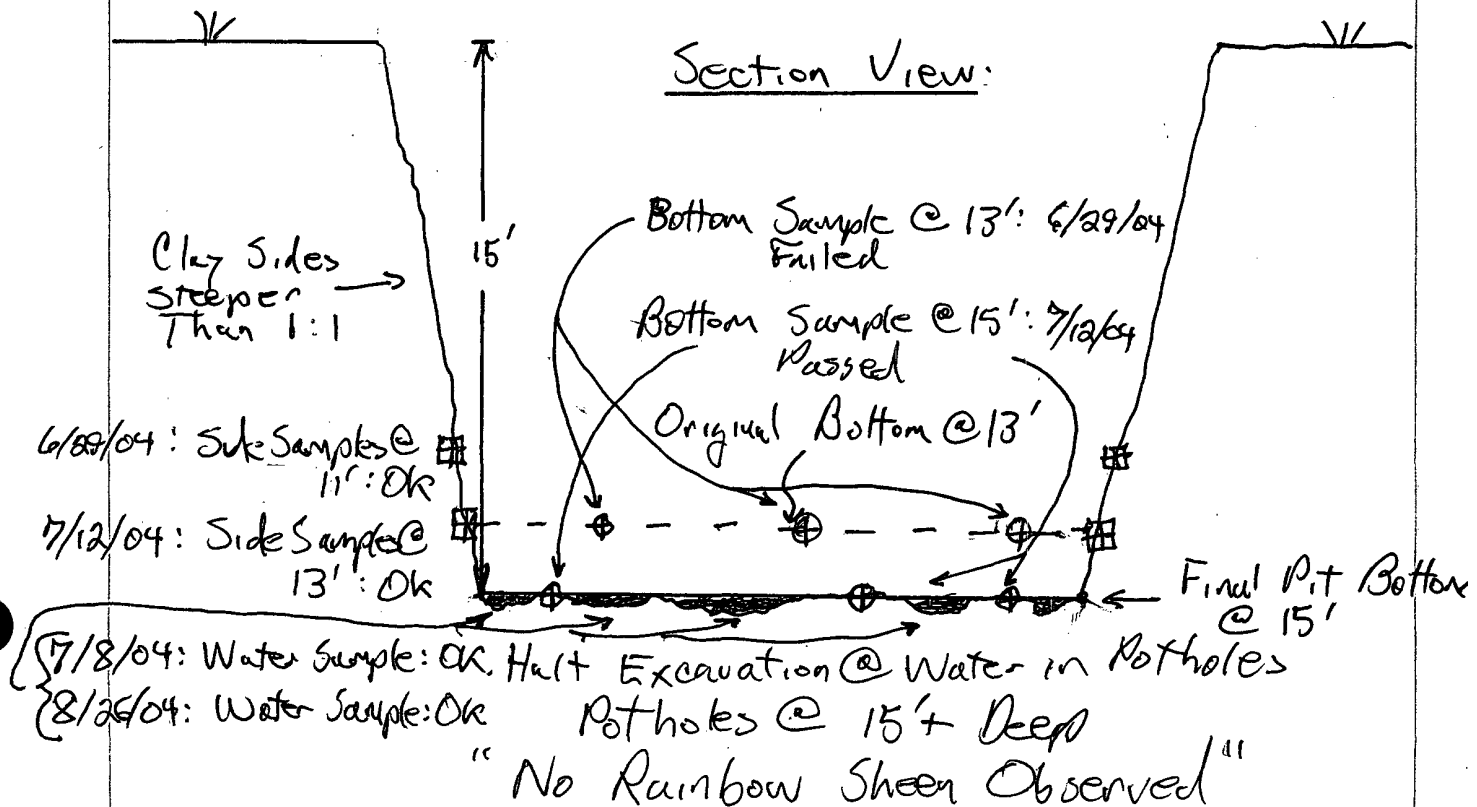


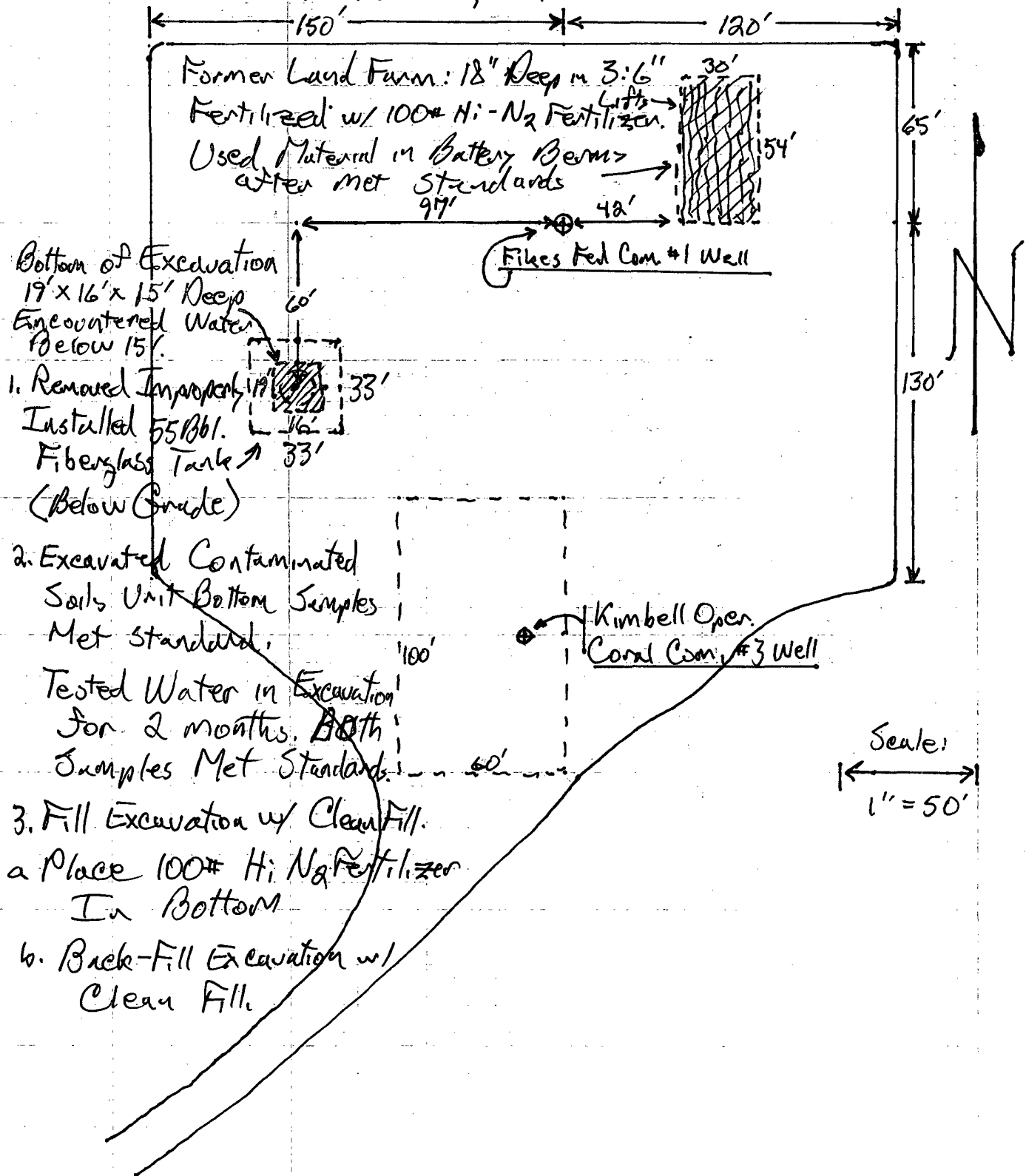
FIGURE 2 : Location Schematic

Fikes Fed. Com. #1 Well: API #: 30-039-22904

1650' FSL & 1650' FEL

Unit 'J': Section 21, T. 25N., R. 6W.

Rio Arriba Co., NM



Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 406-141-15

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 1 Pit Sides

OK. Sides @ 11'-12'

Sample Date: 06/28/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/07/04	LM
TPHDRO	8015	10	<10	1	mg/kg	07/11/04	LM
Total TPH	8015/8021		<10	1	mg/kg	07/11/04	LM


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 406-141-14

Date Received: 06/29/04

Date Reported: 07/02/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 1Pit Bottom

Did Not Pass @ 13'

Sample Date: 06/28/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	0.005	<0.005	1	mg/kg	07/01/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/01/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/01/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/01/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/01/04	LM
TPHDRO	8015	10	242	1	mg/kg	07/01/04	LM
Total TPH	8015/8021		242	1	mg/kg	07/01/04	LM


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 407-029-25

Date Received: 07/08/04

Date Reported: 07/13/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 1 Pit 1 Bott 15

Bottom OK @ 15'

Sample Date: 07/07/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	5.0	<5.0	1	µg/kg	07/13/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	07/13/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	07/13/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	07/13/04	LM
TPHGRO	8015	100	<100	1	µg/kg	07/13/04	LM
TPHDRO	8015	10	11.6	1	mg/kg	07/11/04	LM
TPHORO	8015	10	<10	1	mg/kg	07/11/04	LM

TPH (Total GRO+DRO) = 11.6


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 406-141-15

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 1 Pit Sides

Ok. Sides @ 13'-14'

Sample Date: 06/28/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
Benzene	8021	5.0	<5.0	1	µg/kg	07/07/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	07/07/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	07/07/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	07/07/04	LM
TPHGRO	8015	100	<100	1	µg/kg	07/07/04	LM
TPHDRO	8015	10	<10	1	mg/kg	07/11/04	LM
TPHORO	8015	10	<10	1	mg/kg	07/11/04	LM


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 407-029-27

Date Received: 07/08/04

Date Reported: 07/09/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 1 Water

Sample Date: 07/07/04

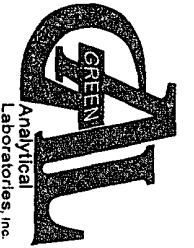
Sample Matrix: Water

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	1.0	<1.0	1	µg/L	07/09/04	LM
Ethylbenzene	8021	1.0	<1.0	1	µg/L	07/09/04	LM
Toluene	8021	1.0	<1.0	1	µg/L	07/09/04	LM
Xylene, total	8021	1.0	<1.0	1	µg/L	07/09/04	LM

For: D. Zufelt
John Green, Laboratory Manager



Copy results to John Sankovskiy
EME Solutions

Page 3 of 3

CHAIN OF CUSTODY RECORD

Client: Resource Development Tech

Contact: Bob Schuering

Address: _____

Phone Number: _____

FAX Number: _____

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

PO# _____

Project Name: KDT PITS

Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Rinsate, 5 = Oil
6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY

GAL JOB #

407-029

Samplers Signature: [Signature]

Analyses Required

Lab Name: Green Analytical Laboratories, Inc.

(970) 247-4220

FAX (970) 247-4227

Address: 75 Suttle Street, Durango, CO 81303

Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Preservative(s)					Comments		
							Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOH		Other (Specify)	
211 OR 2 PIT 2 SIDES	7-7-04	1405	JS	3	1		X							
HIGH P 2 OR 2 PILE 1		1430												
23 OR 2 PILE 2		1425												
HIGH P 2 OR 2 PILE 3		1435												
25 EIK 1 PIT BOT 15		1510												
26 EIK 1 PIT SIDES 15		1505												
27 EIK 1 WATER		1530												
28 SAL 21-1 PIT BOT 12		1530												
29 SAL 21-1 PIT SIDES 12		1600												
10.														
Relinquished by: <u>[Signature]</u>	Date: <u>7-8-04</u>	Time: <u>40</u>	Received by: <u>[Signature]</u>	Date: <u>7-8-04</u>	Time: <u>0940</u>									
Relinquished by: <u>[Signature]</u>	Date: _____	Time: _____	Received by: <u>[Signature]</u>	Date: _____	Time: _____									

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 408-127-27

Date Received: 08/26/04

Date Reported: 09/10/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: Fikes 1 Water

Sample Date: 08/25/04

Sample Matrix: Water

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	1.0	<1.0	1	µg/L	09/10/04	LM
Ethylbenzene	8021	1.0	<1.0	1	µg/L	09/10/04	LM
Toluene	8021	1.0	<1.0	1	µg/L	09/10/04	LM
Xylene, total	8021	1.0	<1.0	1	µg/L	09/10/04	LM

D3
for John Green, Laboratory Manager



+ Bob Schwenberg

CHAIN OF CUSTODY RECORD

Client: Resource Development Technology

Contact: _____

Address: _____

Phone Number: _____

FAX Number: _____

Project Name: RDT PITS

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Rinseate, 5 = Oil
6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY

GAL JOB #

408-127

Samplers Signature: [Signature]

Analyses Required

Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	Preservative(s)				Other (Specify)	Analyses Required	Comments	
								HNO3	HCL	H2SO4	NAOH				
1. YAR 1 LAND	8-25-04	13:05	515	3	1										
2. NCRA 4 PIT 2 BOTTOM		13:45													
3. NCRA 4 PIT 2 SIDES		13:50													
4. NCRA 4 PIT 1 BOTTOM		14:00													
5. NCRA 4 PIT 1 SIDES		14:05													
6. NCRA 4 LAND		14:15													
7. FIKES 1 WATER		14:45													
8. OR 3 PILE 1		15:20													
9. OR 3 PILE 2		15:25													
10. SAL 34-3 PILE		16:00													
Relinquished by: <u>[Signature]</u> Date: <u>8-21-04</u> Time: <u>9:30</u> Received by: <u>[Signature]</u> Date: <u>8-26-04</u> Time: <u>09:30</u>															
Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____															

* Sample Reject: [] Return [] Dispose [] Store (30 Days)

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 408-127-27

Date Received: 08/26/04

Date Reported: 09/10/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: Fikes 1 Water

Sample Date: 08/25/04

Sample Matrix: Water

Wet Chemistry

RESULTS

PARAMETER	METHOD	REPORT		UNITS
		LIMIT	RESULT	
Alkalinity as CaCO ₃	2320B	10	290	mg/L
Chloride	4500CL	10	430	mg/L
Conductivity	2510B	0.0	23200	uS/cm
Fluoride	4500F C	0.2	3.3	mg/L
Nitrate/Nitrite as N	353.3	0.02	0.04	
pH	150.1	NA	8.16	SU
Sulfate	4500SO ₄	10	14500	mg/L
TDS	2540C	10	18300	mg/L

D3
for John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 408-127-27

Date Received: 08/26/04

Date Reported: 09/10/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: Fikes 1 Water

Sample Date: 08/25/04

Sample Matrix: Water

Units: mg/L

Metals

RESULTS

PARAMETER	METHOD	REPORT		
		LIMIT	RESULT	DILUTION
Calcium	200.7	0.5	291	1
Iron	200.7	0.05	2.02	1
Magnesium	200.7	0.5	53.7	1
Manganese	200.7	0.005	0.888	1
Potassium	200.7	0.5	17.0	1
Sodium	200.7	0.5	6810	1
Hardness as CaCO ₃	Calc	10	948	1
Arsenic	200.7	0.10	<0.10	1
Barium	200.7	0.01	0.09	1
Cadmium	200.7	0.01	<0.01	1
Chromium	200.7	0.01	<0.01	1
Lead	200.7	0.05	<0.05	1
Mercury	245.1	0.0002	<0.0002	1
Selenium	200.7	0.20	<0.20	1
Silver	200.7	0.01	<0.01	1

D3
for John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 406-141-16

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 1 Pile

*Fails.
Excavated Material
To Land Farm*

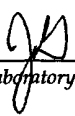
Sample Date: 06/28/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/07/04	LM
TPHDRO	8015	10	241	1	mg/kg	07/11/04	LM
Total TPH	8015/8021		241	1	mg/kg	07/11/04	LM


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 411-061-09

Date Received: 11/11/04

Date Reported: 11/22/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER: RAS 0013

SAMPLE I.D.: Fikes #1 Land Farm

Sample Date: 11/10/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	0.005	<0.005	1	mg/kg	11/15/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	11/15/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	11/15/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	11/15/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	11/17/04	LM
TPHDRO	8015	10	179	1	mg/kg	11/22/04	LM
Total TPH			179	1	mg/kg		

John Green, Laboratory Manager

Green Analytical
75 Suttle Street
Durango CO, 81303

Project: RDT Pits
Project Number: S05-099
Project Manager: Bob Schwening

Reported:
07/01/05 15:45

Fikes #1 Land Farm

RAS2-006
T500649-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015m									
C6-C12 (GRO)	ND	500	ug/kg	1	5052709	05/27/05	05/30/05	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		111 %	65-135		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	5052707	05/27/05	06/03/05	EPA 8015m	
Volatile Organic Compounds by EPA Method 8021B									
Benzene	ND	5.0	ug/kg	1	5052709	05/27/05	05/30/05	EPA 8021B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	65-135		"	"	"	"	

SunStar Laboratories, Inc.



John Shepler For Dennis Dorning, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

NHCO₃

[illegible]

