

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 ☒

Tank B

Operator: Burlington Resources Telephone: (505) 326-9840 e-mail address: LHasely@br-inc.com
Address: 3401 East 30th Street, Farmington, New Mexico, 87402
Facility or well name: Hanks # 14 API #: 30045066160000 U/L or Qtr/Qtr M Sec 12 T 27N R 10W
County: San Juan Latitude 36.58497 Longitude -107.8537 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank
Type: Drilling ☐ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume _____ bbl	Volume: <u>40</u> bbl Type of fluid: <u>Produced Water and Incidental Oil</u> Construction material: <u>Fiberglass</u> Double-walled, with leak detection? Yes ☐ If not, explain why not. <u>No. Tank in place prior to Rule 50.</u>
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) 100 feet or more (0 points) 20
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) 1000 feet or more (0 points) 10
	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 Hanks # 501. (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:
Below Grade Tank B.
Maximum practical extent of excavation reached at 14' depth, encountered sandstone.
Bottom treated with potassium permanganate / urea nitrate solution.
BTEX lab analysis attached. <u>landfill results attached.</u>

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: 8/2/05
Printed Name/Title Mr. Ed Hasely, Environmental Advisor Signature Ed Hasely

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: Oil & Gas Inspector, Dist. 2
Printed Name/Title _____ Signature Denny Faint Date: AUG - 4 2005

CLIENT: Burlington Res.

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE (505) 632-0615

LOCATION NO. _____

DATE NO. _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE NO. 1 of 2

LOCATION NAME: Hanks WELL #: 14 PIT: B

DATE STARTED: 3/24/05

DATE FINISHED: _____

QUAD/UNIT: M SEC: 12 TWP: 27N RNG: 10 W PM: NAPM CNTY: SJ ST: NM

QTR/FOOTAGE: _____

CONTRACTOR: _____

ENVIRONMENTAL SPECIALIST: D. Young

EXCAVATION APPROX: 13 FT. x 13 FT. x 8 FT DEEP CUBIC YARDAGE: _____

DISPOSAL FACILITY: _____ REMEDIATION METHOD: _____

LAND USE: _____ LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 85' FT 0° FROM WELLHEAD.

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: _____ NEAREST SURFACE WATER: 280'

NMOC RANKING SCORE: 30 NMOC TPH CLOSURE STD: 100 PPM

CHECK ONE:

☐ PIT ABANDONED

☐ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

BGT(B) encountered sandstone at 8'. OVM + TPH readings on walls + Bottom all extremely high. Site awaiting excavation.

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
11:00	8' Sandstone bottom	1B	5.0	20	10	222	8880 ppm
11:00	Test 11' South (2) of BGT(B)	2B	5.0	20	1	14	56 ppm

SCALE

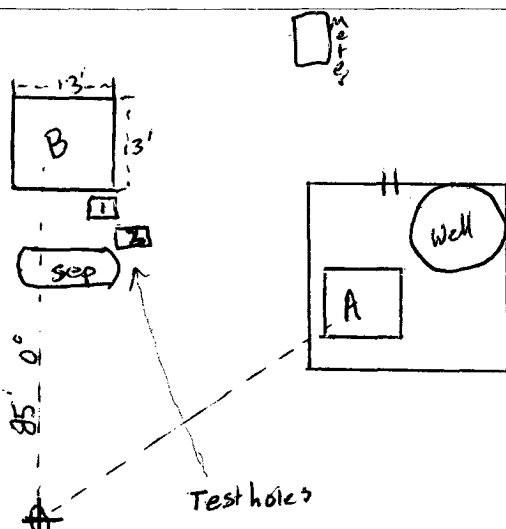


0 30 FT

PIT PERIMETER

OVM RESULTS

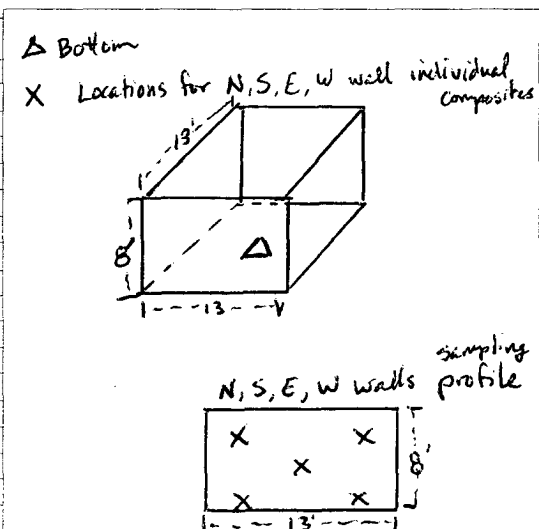
PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 Bottom	720
2 S comp	611
3 N comp	616
4 E comp	684
5 W comp	124
Test 1	354
Test 2	56

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
8' Sandstone	BTEX	11:00



TRAVEL NOTES

CALLOUT: _____

ONSITE: _____

3/29 + 3/30

CLIENT Burlington
Res.

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

LOCATION: MD

CD NO

FIELD REPORT: CLOSURE VERIFICATION

PAGE NO. 2 of 2LOCATION: NAME HanksWELL # 14PIT: B

DATE STARTED

DATE FINISHED

QUAD/UNIT:

SEC

TWP:

RNG:

PM:

CNTY:

ST:

QTR/FOOTAGE:

CONTRACTOR:

ENVIRONMENTAL
SPECIALISTD. YoungEXCAVATION APPROX 40' FT x 50' FT x 10' FT DEEP CUBIC YARDAGE: 2000 yd³DISPOSAL FACILITY: ~~000+1000~~ REMEDIATION METHOD:

LAND USE: LEASE: FORMATION:

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 85' FT 0° FROM WELLHEAD.DEPTH TO GROUNDWATER: < 50' NEAREST WATER SOURCE: NEAREST SURFACE WATER: 280'NMDD RANKING SCORE: 30 NMDD TPH CLOSURE STD: 100 PPM

CHECK ONE:

☐ PIT ABANDONED☐ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

Soil came clean 3/30, being land farmed on Hanks 501. Area treated (floor) on 3/31/05 with potassium permanganate.

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
	S well comp	4					
	N well (E) comp	5	see attached TPH analysis results				
	E well comp	5					
	W well comp						
	NW						

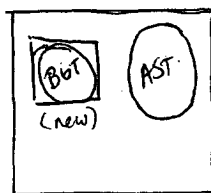
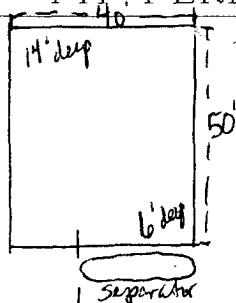
SCALE

0 FT

PIT PERIMETER

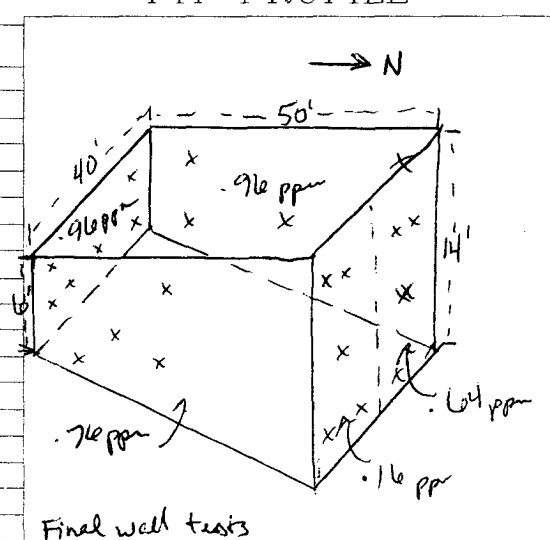
OVM
RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 S well	25 pp
2 E well	11 pp
3 W well	6 pp
4 NE well	2 pp
5 NW well	5 pp

SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES

CALLOUT:

ONSITE:

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-026
Sample No.:	1B	Date Reported:	4/6/2005
Sample ID:	Discrete, 8' Sandstone Bottom	Date Sampled:	3/24/2005
Sample Matrix:	Soil	Date Analyzed:	3/24/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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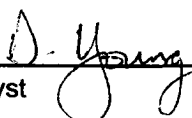
Total Petroleum Hydrocarbons	8,880	50.0
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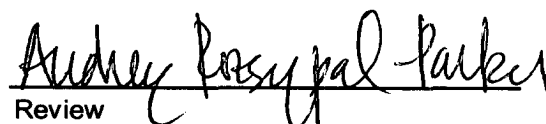
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Soil and Waste, USEPA Storet No. 4551, 1978.

Comments: Hanks No. 14, Below Grade Tank B

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-021-026
Sample ID:	8' Sandstone Bottom	Date Reported:	03-25-05
Laboratory Number:	32443	Date Sampled:	03-24-05
Chain of Custody:	13752	Date Received:	03-24-05
Sample Matrix:	Soil	Date Analyzed:	03-25-05
Preservative:	Cool	Date Extracted:	03-25-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	124	2.1
Toluene	379	1.8
Ethylbenzene	901	1.7
p,m-Xylene	6,090	1.5
o-Xylene	1,510	2.2
Total BTEX	9,000	

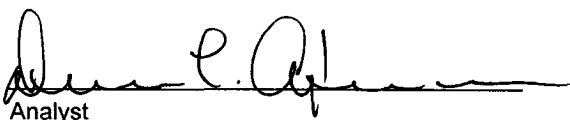
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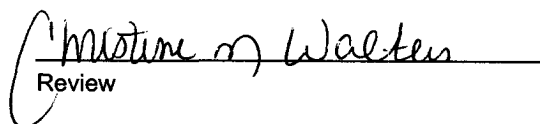
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Hanks 14.


Analyst


Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Burlington Resources	Project #:	92115-021-026
Sample No.:	9B	Date Reported:	4/7/2005
Sample ID:	Composite, North Wall, West Portion @ 2'-14' Depth	Date Sampled:	3/30/2005
		Date Analyzed:	3/30/2005
Sample Matrix:	Soil	Analysis Needed:	TPH-418.1
Preservative:	Cool		
Condition:	Cool and Intact		

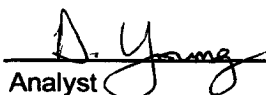
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	16.0	5.0

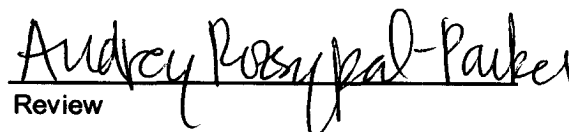
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of
and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hanks No. 14, Below Grade Tank B**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst


Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-026
Sample No.:	8B	Date Reported:	4/7/2005
Sample ID:	Composite, North Wall, West Portion @ 2'-14' Depth	Date Sampled:	3/30/2005
		Date Analyzed:	3/30/2005
Sample Matrix:	Soil	Analysis Needed:	TPH-418.1
Preservative:	Cool		
Condition:	Cool and Intact		

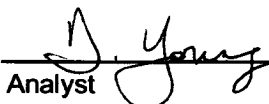
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	64.0	5.0

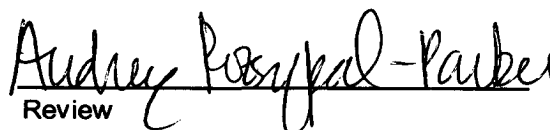
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of
and Waste, USEPA Storet No. 4551, 1978.

Comments: Hanks No. 14, Below Grade Tank B

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst


Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-026
Sample No.:	5B	Date Reported:	4/7/2005
Sample ID:	Composite, East Wall @ 1'-8'	Date Sampled:	3/29/2005
	Depth	Date Analyzed:	3/29/2005
Sample Matrix:	Soil	Analysis Needed:	TPH-418.1
Preservative:	Cool		
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	76.0	5.0
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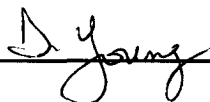
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of
and Waste, USEPA Storet No. 4551, 1978.

Comments: Hanks No. 14, Below Grade Tank B

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst



Review



ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-026
Sample No.:	4B	Date Reported:	4/7/2005
Sample ID:	Composite, South Wall @ 1'-6'	Date Sampled:	3/29/2005
	Depth	Date Analyzed:	3/29/2005
Sample Matrix:	Soil	Analysis Needed:	TPH-418.1
Preservative:	Cool		
Condition:	Cool and Intact		

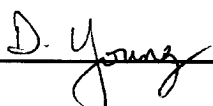
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	96.0	5.0

ND = Parameter not detected at the stated detection limit.

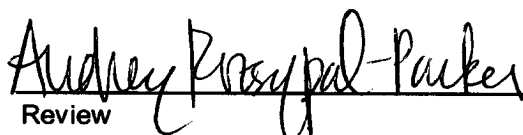
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of
and Waste, USEPA Storet No. 4551, 1978.

Comments: Hanks No. 14, Below Grade Tank B

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst



Review

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-026
Sample No.:	12B	Date Reported:	4/7/2005
Sample ID:	Composite, West Wall @ 2'-14'	Date Sampled:	3/30/2005
	Depth	Date Analyzed:	3/30/2005
Sample Matrix:	Soil	Analysis Needed:	TPH-418.1
Preservative:	Cool		
Condition:	Cool and Intact		

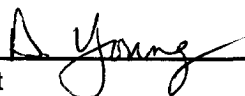
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	96.0	5.0

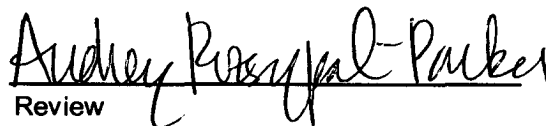
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of
and Waste, USEPA Storet No. 4551, 1978.

Comments: Hanks No. 14, Below Grade Tank B

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Burlington Resources	Project #:	92115-001-14124
Sample ID:	Hanks 501 (S)	Date Reported:	07-23-05
Laboratory Number:	33774	Date Sampled:	07-13-05
Chain of Custody No:	14124	Date Received:	07-19-05
Sample Matrix:	Soil	Date Extracted:	07-21-05
Preservative:	Cool	Date Analyzed:	07-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

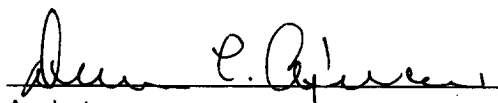
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	5.2	0.1
Total Petroleum Hydrocarbons	5.2	0.2

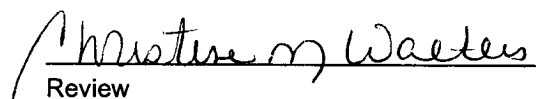
ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm (BG Tank) From Hanks 14 Excavation.**

PID = 0


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Burlington Resources	Project #:	92115-001-14124
Sample ID:	Hanks 501 (N)	Date Reported:	07-23-05
Laboratory Number:	33775	Date Sampled:	07-13-05
Chain of Custody No:	14124	Date Received:	07-19-05
Sample Matrix:	Soil	Date Extracted:	07-21-05
Preservative:	Cool	Date Analyzed:	07-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

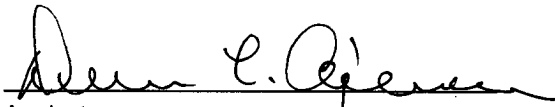
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.1	0.1
Total Petroleum Hydrocarbons	2.1	0.2

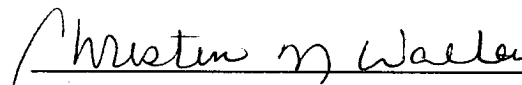
ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm (BG Tank) From Hanks 14 Excavation.**

PID = 0


Analyst


Review