

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Sundry Notices and Reports on Wells

DEC 12 PM 2 13
RECEIVED
070 FARMINGTON NM

1. Type of Well

Oil Well

2. Name of Operator

Vulcan Minerals & Energy, c/o NMOCD Aztec District Office

3. Address & Phone No. of Operator

1000 Rio Brazos Road, Aztec, NM 87410 505-334-6178

4. Location of Well, Footage, Sec., T, R, M

1980' FNL and 1980' FEL, Section 31, T-31-N, R-16-W

5. Lease Number
BIA #14-20-603-734
6. If Indian, All. or
Tribe Name
Navajo
7. Unit Agreement Name
Horseshoe Gallup
8. Well Name & Number
HSGU #58
9. API Well No.
30-045-10198
10. Field and Pool
Horseshoe Gallup
11. County & State
San Juan County, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment

Type of Action

☒ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other -

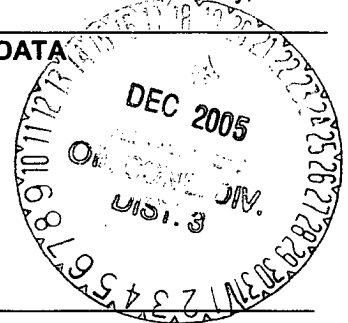
☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection



13. Describe Proposed or Completed Operations

Historical contamination discovered during clean up at the well bore after plugging was excavated, remediated to NMOCD standards and returned to the excavation. See attached diagram and analysis.

This well was plugged and abandoned on June 23, 2005.

The surface remediation was completed on November 17, 2005 per the attached reports.

SIGNATURE

Contractor

December 2, 2005

William F. Clark, President, A-Plus Well Service, as contractor for reclamation fund

(This space for Federal or State Office use)

APPROVED BY

Title

Branch Chief

Date

12/13/05

CONDITION OF APPROVAL, if any

OPERATOR

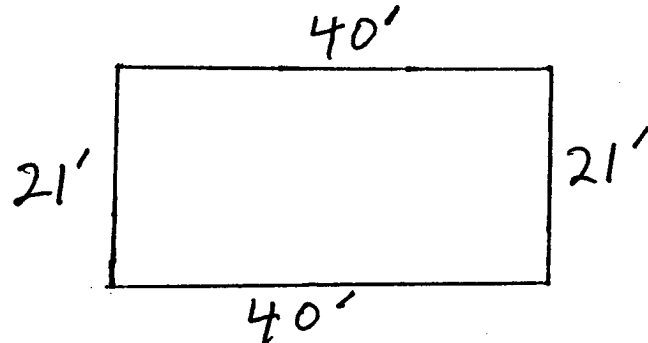
1/15

Surface Remediation

Horseshoe Gallup Unit #58

G-31-31N-16W

7/27/05



7/27/05 Excavated 6' deep to bedrock. Sampled

9/2/05 Turned biopile and took 5pt sample

10/12/05 Added fert. lizer and turned biopile. Tested 5pt sample.

11/4/05 Added fertilizer, turned biopile and ran 5pt sample on biopile

11/17/05 Turned biopile, ran a 5pt sample. Backfilled excavation. Sample tested below required standards

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	1 - South Wall	Date Reported:	08-01-05
Laboratory Number:	33885	Date Sampled:	07-27-05
Chain of Custody:	14338	Date Received:	07-27-05
Sample Matrix:	Soil	Date Analyzed:	08-01-05
Preservative:	Cool	Date Extracted:	07-29-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	8.5	1.8
Ethylbenzene	ND	1.7
p,m-Xylene	29.1	1.5
o-Xylene	4.5	2.2
Total BTEX	42.1	

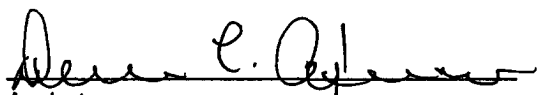
ND - Parameter not detected at the stated detection limit.

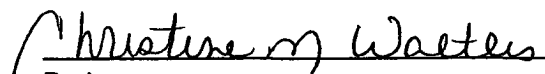
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Pit 58, Gallup Horseshoe.


Analyst


Review

3

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

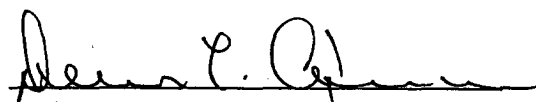
Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	1 - South Wall	Date Reported:	08-01-05
Laboratory Number:	33885	Date Sampled:	07-27-05
Chain of Custody No:	14338	Date Received:	07-27-05
Sample Matrix:	Soil	Date Extracted:	07-29-05
Preservative:	Cool	Date Analyzed:	08-01-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

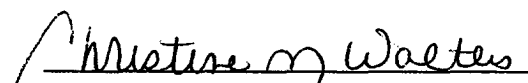
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	7.8	0.1
Total Petroleum Hydrocarbons	7.8	0.2

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: Pit 58, Gallup Horseshoe.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	2 - North Wall	Date Reported:	08-01-05
Laboratory Number:	33886	Date Sampled:	07-27-05
Chain of Custody:	14338	Date Received:	07-27-05
Sample Matrix:	Soil	Date Analyzed:	08-01-05
Preservative:	Cool	Date Extracted:	07-29-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	ND	1.8
Ethylbenzene	ND	1.7
p,m-Xylene	51.7	1.5
o-Xylene	13.4	2.2
Total BTEX	65.1	

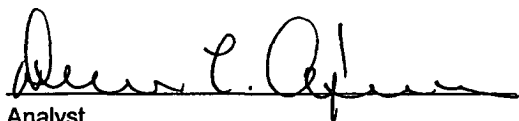
ND - Parameter not detected at the stated detection limit.

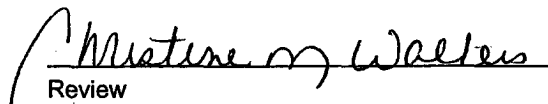
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Pit 58, Gallup Horseshoe.


Analyst


Review

5

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

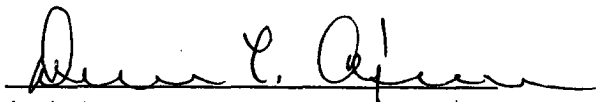
Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	2 - North Wall	Date Reported:	08-01-05
Laboratory Number:	33886	Date Sampled:	07-27-05
Chain of Custody No:	14338	Date Received:	07-27-05
Sample Matrix:	Soil	Date Extracted:	07-29-05
Preservative:	Cool	Date Analyzed:	08-01-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

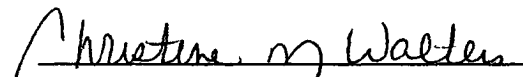
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	6.3	0.1
Total Petroleum Hydrocarbons	6.3	0.2

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: Pit 58, Gallup Horseshoe.


Analyst


Review

6

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	3 - East Wall	Date Reported:	08-01-05
Laboratory Number:	33887	Date Sampled:	07-27-05
Chain of Custody:	14338	Date Received:	07-27-05
Sample Matrix:	Soil	Date Analyzed:	08-01-05
Preservative:	Cool	Date Extracted:	07-29-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	5.0	1.8
Ethylbenzene	5.9	1.7
p,m-Xylene	43.2	1.5
o-Xylene	ND	2.2
Total BTEX	54.1	

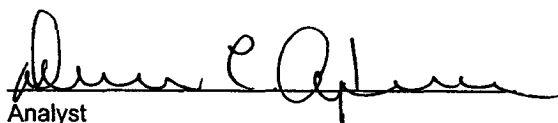
ND - Parameter not detected at the stated detection limit.

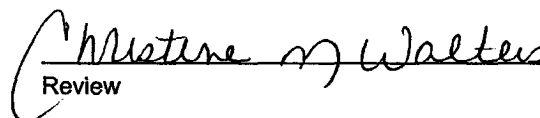
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Pit 58, Gallup Horseshoe.


Analyst


Review

7

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

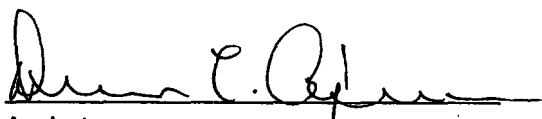
Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	3 - East Wall	Date Reported:	08-01-05
Laboratory Number:	33887	Date Sampled:	07-27-05
Chain of Custody No:	14338	Date Received:	07-27-05
Sample Matrix:	Soil	Date Extracted:	07-29-05
Preservative:	Cool	Date Analyzed:	08-01-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

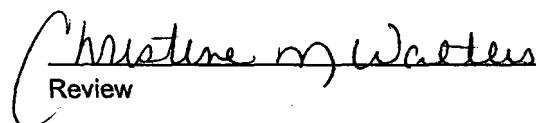
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	166	0.1
Total Petroleum Hydrocarbons	166	0.2

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: Pit 58, Gallup Horseshoe.


Analyst


Review

8

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	4 - West Wall	Date Reported:	08-01-05
Laboratory Number:	33888	Date Sampled:	07-27-05
Chain of Custody:	14338	Date Received:	07-27-05
Sample Matrix:	Soil	Date Analyzed:	08-01-05
Preservative:	Cool	Date Extracted:	07-29-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.2	2.1
Toluene	9.2	1.8
Ethylbenzene	10.3	1.7
p,m-Xylene	84.8	1.5
o-Xylene	16.0	2.2
Total BTEX	122	

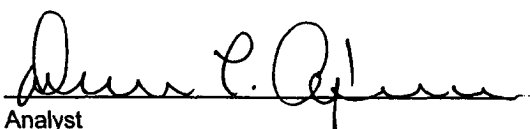
ND - Parameter not detected at the stated detection limit.

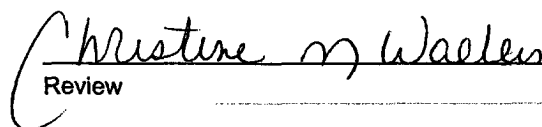
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Pit 58, Gallup Horseshoe.


Analyst


Review

9

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

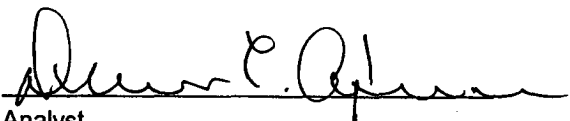
Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	4 - West Wall	Date Reported:	08-01-05
Laboratory Number:	33888	Date Sampled:	07-27-05
Chain of Custody No:	14338	Date Received:	07-27-05
Sample Matrix:	Soil	Date Extracted:	07-29-05
Preservative:	Cool	Date Analyzed:	08-01-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

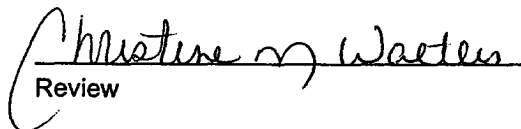
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	806	0.1
Total Petroleum Hydrocarbons	806	0.2

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: Pit 58, Gallup Horseshoe.


Analyst


Review

10

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus - OCD	Project #:	99042-011
Sample ID:	2 - #58	Date Reported:	09-07-05
Laboratory Number:	34262	Date Sampled:	09-02-05
Chain of Custody:	14786	Date Received:	09-02-05
Sample Matrix:	Soil	Date Analyzed:	09-07-05
Preservative:	Cool	Date Extracted:	09-06-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	42.7	1.5
p,m-Xylene	17.8	2.2
o-Xylene	ND	1.0
Total BTEX	60.5	



ND - Parameter not detected at the stated detection limit.

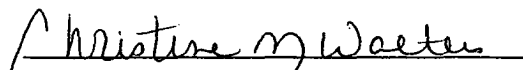
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Horseshoe Gallup. Biopile


Analyst


Review

//

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	A-Plus - OCD	Project #:	99042-011
Sample ID:	2 - #58	Date Reported:	09-07-05
Laboratory Number:	34262	Date Sampled:	09-02-05
Chain of Custody No:	14786	Date Received:	09-02-05
Sample Matrix:	Soil	Date Extracted:	09-06-05
Preservative:	Cool	Date Analyzed:	09-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

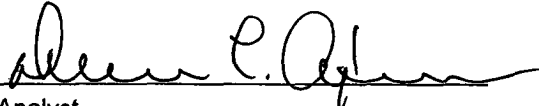
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.6	0.2
Diesel Range (C10 - C28)	270	0.1
Total Petroleum Hydrocarbons	274	0.2

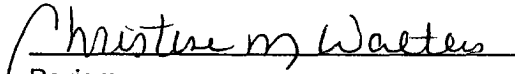
ND - Parameter not detected at the stated detection limit.

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

Comments: **Horseshoe Gallup.**




Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	A Plus Well Service / OCD	Project #:	99042-011
Sample ID:	#58	Date Reported:	10-13-05
Laboratory Number:	34652	Date Sampled:	10-12-05
Chain of Custody No:	14916	Date Received:	10-12-05
Sample Matrix:	Soil	Date Extracted:	10-13-05
Preservative:	Cool	Date Analyzed:	10-13-05
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)	340	0.1
Total Petroleum Hydrocarbons	340	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: **Gallup Horseshoe.**



Christine M. Walters
Analyst

May Bruce
Review

13

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

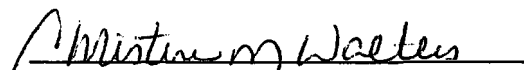
Client:	APlus Well Service / OCD	Project #:	99042-011
Sample ID:	#58	Date Reported:	11-04-05
Laboratory Number:	34880	Date Sampled:	11-02-05
Chain of Custody No:	15010	Date Received:	11-02-05
Sample Matrix:	Soil	Date Extracted:	11-03-05
Preservative:	Cool	Date Analyzed:	11-03-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	135	0.1
Total Petroleum Hydrocarbons	135	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: Horseshoe, Gallup.


Analyst

14

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

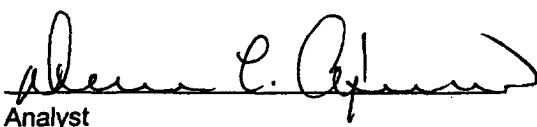
Client:	A-Plus	Project #:	99042-011
Sample ID:	HSGU #58 Biopile	Date Reported:	11-18-05
Laboratory Number:	35039	Date Sampled:	11-17-05
Chain of Custody No:	15107	Date Received:	11-17-05
Sample Matrix:	Soil	Date Extracted:	11-17-05
Preservative:	Cool	Date Analyzed:	11-18-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

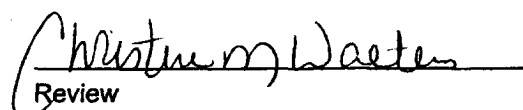
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	97.0	0.1
Total Petroleum Hydrocarbons	97.0	0.2

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: Horseshoe Gallup.


Analyst


Review

15/15