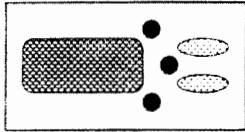


**NM1 - 5**

**SUMP  
REPLACEMENT**

**2010**



# BASIN DISPOSAL, INC.

"SPECIALIZING IN DISPOSAL OF PRODUCED WATER AND DRILLING MUD"  
P.O. BOX 100 - AZTEC, NEW MEXICO 87410 PHONE: (505) 334-3013

17 December 2010

2010 DEC 21 P 1: 56  
RECEIVED OCD

Brad Jones  
EMNRD/OCD  
Environmental Bureau  
1220 South St. Francis Dr.,  
Santa Fe, New Mexico 87505

RE: Loading Area Sump Retrofit Summary Report 5A

Mr. Jones;

Please find below Basin Disposal's summary report as required in the OCD letter dated November 2, 2010, for the retrofit of the previous single walled sump at the loading area with a double walled sump with leak detection.

The retrofit was completed on November ,2010. The analytical results of the soil are in Attachment A and the values are summarized below:

Analyte:	Value (mg/kg)	Action Level (mg/kg)
Benzene:	ND	0.2
Total BTEX:	ND	50
TPH:	61.8	100
Chlorides:	10	250

Photo Documentation of the soils beneath the existing below-grade tank and photo documentation of the installation of the new below grade tank are included in Attachments A & B.

If any further information is needed, please feel free to contact me at via phone at 505-320-2840 or email at [jvolkerding@aztecwell.com](mailto:jvolkerding@aztecwell.com).

Merry Christmas;

John Volkerding  
General Manager

Encl: Attachment A, soil analytical results  
Attachment B, photo documentation of soils  
Attachment C, photo documentation of new tank installation

Cc: Brandon Powell, OCD/Aztec



**envirotech**  
Analytical Laboratory

Attachment A  
Soil Analytical  
Results

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

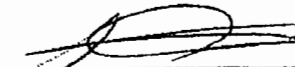
Client:	Basin Disposal	Project #:	03058-0003
Sample ID:	Sump	Date Reported:	10-15-10
Laboratory Number:	56181	Date Sampled:	10-14-10
Chain of Custody No:	10529	Date Received:	10-14-10
Sample Matrix:	Soil	Date Extracted:	10-14-10
Preservative:		Date Analyzed:	10-15-10
Condition:	Intact	Analysis Requested:	8015 TPH

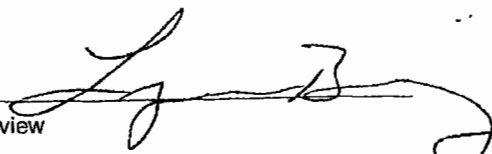
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

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: **Basin Yard**

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review



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

**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	10-15-10 QA/QC	Date Reported:	10-15-10
Laboratory Number:	56181	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-15-10
Condition:	N/A	Analysis Requested:	TPH

	LO-Date	LO-LRF	CO-LRF	% Difference	Accept Range
Gasoline Range C5 - C10	10-15-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	10-15-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L, µg/kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1

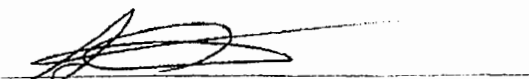
Duplicate Conc. (mg/kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

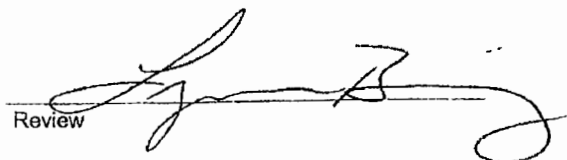
Spike Conc. (mg/kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	254	102%	75 - 125%
Diesel Range C10 - C28	ND	250	256	103%	75 - 125%

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 56181, 56187-56191, 56194, 56196-56197

  
 Analyst

  
 Review



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Basin Disposal	Project #:	03058-0003
Sample ID:	Sump	Date Reported:	10-15-10
Laboratory Number:	56181	Date Sampled:	10-14-10
Chain of Custody:	10529	Date Received:	10-14-10
Sample Matrix:	Soil	Date Analyzed:	10-15-10
Preservative:		Date Extracted:	10-14-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

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

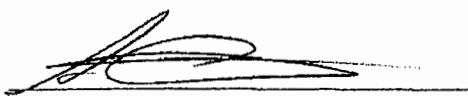
ND - Parameter not detected at the stated detection limit.

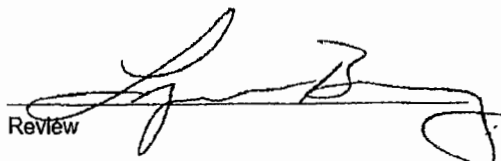
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	102 %
	1,4-difluorobenzene	105 %
	Bromochlorobenzene	106 %

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: Basin Yard

  
Analyst

  
Review



**envirotech**  
Analytical Laboratory

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Basin Disposal	Project #:	03058-0003
Sample ID:	Sump	Date Reported:	10-15-10
Laboratory Number:	56181	Date Sampled:	10-14-10
Chain of Custody No:	10529	Date Received:	10-14-10
Sample Matrix:	Soil	Date Extracted:	10-15-10
Preservative:		Date Analyzed:	10-15-10
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
<b>Total Petroleum Hydrocarbons</b>	<b>61.8</b>	<b>55.2</b>

ND = Parameter not detected at the stated detection limit.

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

Comments: **Basin Yard**

Analyst

Review

**Chloride**

Client:	Basin Disposal	Project #:	03058-0003
Sample ID:	Sump	Date Reported:	10-15-10
Lab ID#:	56181	Date Sampled:	10-14-10
Sample Matrix:	Soil	Date Received:	10-14-10
Preservative:		Date Analyzed:	10-15-10
Condition:	Intact	Chain of Custody:	10529

Parameter	Concentration (mg/Kg)
-----------	-----------------------

**Total Chloride****10**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Basin Yard**

  
Analyst  
Review

# CHAIN OF CUSTODY RECORD

10529

Client: <b>Basin Disposal</b>			Project Name / Location: <b>Basin Yard</b>			ANALYSIS / PARAMETERS												
Client Address: <b>200 Montrose</b>			Sampler Name: <b>Paul Gurele</b>			* TPH (Method 8015)	* BTEX (Method 8021)	* VOC (Method 8260)	* RCRA 8 Metals	* Cation / Anion	* RCI	* TCLP with H/P	* PAH	* TPH (418.1)	* CHLORIDE	* Sample Cool	* Sample Intact	
Client Phone No.: <b>505-632-8936</b>			Client No.: <b>030584003</b> <b>SOS-320-7499</b>															
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl <sub>2</sub> HCl												
<b>Swamp</b>	<b>10/14</b>		<b>52181</b>	<b>Soil Solid</b> Sludge Aqueous	<b>1</b>												<b>N</b>	<b>Y</b>
				Soil Solid Sludge Aqueous														
				Soil Solid Sludge Aqueous														
				Soil Solid Sludge Aqueous														
				Soil Solid Sludge Aqueous														
				Soil Solid Sludge Aqueous														
				Soil Solid Sludge Aqueous														
				Soil Solid Sludge Aqueous														
				Soil Solid Sludge Aqueous														
				Soil Solid Sludge Aqueous														
Relinquished by: (Signature) <b>Paul Gurele</b>					Date	Time	Received by: (Signature) <b>Randi Vagueira</b>					Date	Time					
					<b>10/14/10</b>	<b>11:00</b>						<b>10/14</b>	<b>11:00</b>					
Relinquished by: (Signature)							Received by: (Signature)											
Relinquished by: (Signature)							Received by: (Signature)											

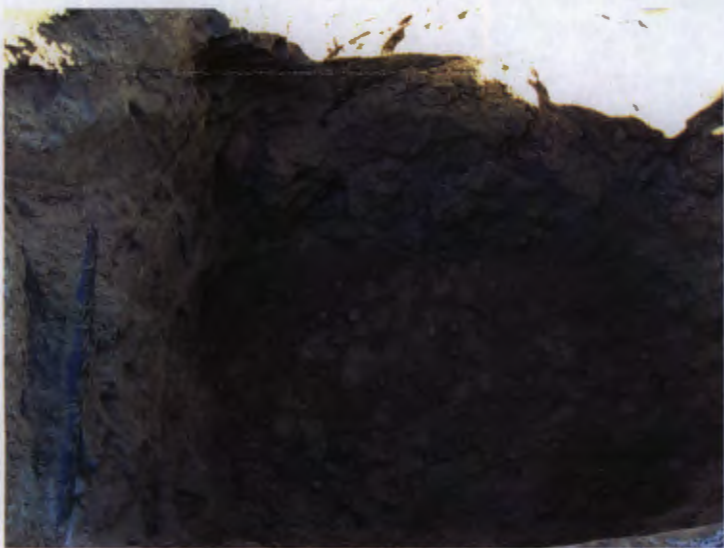


5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com

5056321065 Line 1 LAB 04:39:56 p.m. 10-20-2010 9/9



Attachment B, Photos of dirt surrounding the existing single walled tank



Attachment C, Photos of new tank installation

New Double Walled Tank



New Double Walled Tank wrapped in a liner



New Double Walled Tank installed. Pictures shows the pipe to check the level of the tank, the pipe to check the secondary containment for leaks, and the liner surrounding the tank

