NM1 - 5

PERMIT MODIFICATION

Temporary

April 2008

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division

February 12, 2014

Mr. John Volkerding
Basin Disposal, Inc.
P.O. Box 100
Aztec, New Mexico 87410

Re: $15,000 Cash Bond for Commercial Surface Waste Management Facility
Permit: NM1 - 005
Principle: Basin Disposal, Inc.
Financial Institution: Citizens Bank
Facility Location: SE/4 NW/4 of Section 3, Township 29 North, Range 11 West NMPM, San Juan County, New Mexico

Dear Mr. Volkerding:

The Oil Conservation Division (OCD) has reviewed Basin Disposal, Inc.'s (Basin Disposal) request to release financial assurance, dated February 6, 2014 by demonstrating closure of the emergency temporary modification to the surface waste management facility permit, NM1-005, approved by OCD on April 1, 2008. OCD hereby approves the cancellation of the above-referenced financial assurance and releases Citizens Bank of any liability.

Please be advised that should operations result in pollution of surface water, ground water or the environment, approval of this request does not relieve Basin Disposal of liability. In addition, approval of this request requires Basin Disposal to comply with all applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact Mr. Brad A. Jones of the OCD staff at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Gabriel Wade
Assistant General Counsel

GW/baj

Enclosure: Copy of Cash Bond (total amount $15,000.00)

cc: OCD District 3 Office, Aztec

BASIN DISPOSAL, INC.

"SPECIALIZING IN DISPOSAL OF PRODUCED WATER AND DRILLING MUD"

P.O. BOX 100 - AZTEC, NEW MEXICO 87410 - PHONE: (505) 334-3013

February 6, 2014

Oil Conservation Division
Attn: Brad Jones
1220 South St. Francis Dr.
Santa Fe, NM 87505
FAX (505) 476-3462

RE: $15,000 Cash Bond Release Request, Temporary Tanks in 2008

Dear Mr Jones,

In March of 2008, Basin Disposal requested to set additional tanks on a temporary basis. The OCD approved that request on April 1, 2008. The following are the relevant excerpts from the permit modification

I. Basin Disposal, Inc. shall submit an additional $15,000 of financial assurance for OCD' s review and approval prior to initiating any work or activities associated with this approval

12. Basin Disposal, Inc. shall complete the closure of the area impacted from the activities associated with the temporary modification pursuant the Subsection E of 19.15.36 NMAC and the closure plan of the March 28, 2008 submittal and the additional revisions provided March 31, 2008. Such closure activities as the testing and removal of soils above the liner, the removal and disposal of the liner, and the testing of the soils beneath the liner shall be completed within nine months of the effective date of this approval.

13. Basin Disposal, Inc. shall demonstrate that the area impacted from the activities associated with the temporary modification is restored, that no contamination is present, and that the closure is complete to OCD's satisfaction. Upon review, confirmation, and approval of closure, OCD will release the financial assurance associated with the temporary modification.

Last week received a notice that the bank was placing the Cash Bond account in dormant status and plans to start charging Basin Disposal a monthly fee. Since all the of the closure requirements have been satisfied, this letter requests that Basin Disposal have the Cash Bond released.

If you need anything else from me, please feel free to contact me on my cell phone at 505-320-2840 or email at jvolkerding@basindisposalinc.com .

Sincerely,

John Volkerding, PhD
Gen Mgr/VP

Encl:

1. **3/28/2008 Financial Assurance Letter**
2. **4/1/2008 Permit**
3. **4/2/2008 Acceptance of $15,000 Cash Bond**
4. **6/13/2008 Soil Analysis after Temp Tanks Removed**
5. **6/16/2008 Authorization to Dispose of Soils**
6. **9/2/2008 Soil Analysis**
7. **1/31/2014 Letter from Citizens Banks**

Cc: File
Brandon Powell, OCD/Aztec, 1000 Rio Brazos, Aztec, NM 87410

THE CITIZENS BANK
500 W BROADWAY
FARMINGTON NM 87401

DORMANT ACCOUNT NOTICE

NOTICE DATE	JAN 31, 2014
ACCOUNT NUMBER	000112967820
CURRENT BALANCE	$15,311.18
LAST TRANSACTION DATE	MAR 31, 2008

BASIN DISPOSAL INC
JOHN M VOLKERDING
JASON SANDEL
PO BOX 100
AZTEC NM 87410-0100

YOUR ACCOUNT HAS HAD NO ACTIVITY IN THE PAST 36 MONTHS AND IS CONSIDERED TO BE A DORMANT ACCOUNT. A $5.00 MONTHLY DORMANT FEE WILL BE ASSESSED. PLEASE INITIATE A TRANSACTION TO THIS ACCOUNT OR CONTACT US IMMEDIATELY TO RETURN THE ACCOUNT TO ACTIVE STATUS.
CITIZENS BANK CALL CENTER (505) 599-0100 OR 800-325-9961

Please return the account to active status.

Thank you

John M Volkerding

2 September 2008

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

RE: Analytical Results:
Soil Beneath Liner in the Temporary Tank Storage Area Approved in March 2008

Dear Mr. Jones;

Attached please find the results for the lab analysis of the soil beneath the liner from the temporary tank storage area approved in March 2008.

If you have any questions, please feel free to phone me at 334-3013 or 320-2840 or via email at bdinc@digii.net.

Sincerely;

John Volkerding
General Manager2

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

August 20, 2007

Project No. 03058-0006

Mr. Jimmy Barnes
Basin Disposal Inc.
P.O. Box 100
Aztec, New Mexico 87410

Phone (505) 486-3078

RE: TCLP SAMPLE UNDER LINER

Dear Mr. Barnes:

Attached please find the *results of the lab analysis* from the secondary containment area at Basin Disposal 200 Montana Road, San Juan County, New Mexico.

We appreciate the opportunity to be of service. If you should have any questions, please do not hesitate to contact our office at (505) 632-0615.

Sincerely,

ENVIROTECH, INC.

Kendra Schroeder
Environmental Administrator
kschroeder@envirotech-inc.com

Enclosure

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-29-08
Laboratory Number:	46392	Date Sampled:	07-15-08
Chain of Custody No:	4793	Date Received:	07-15-08
Sample Matrix:	Soil	Date Extracted:	07-25-08
Preservative:	Cool	Date Analyzed:	07-28-08
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)	**9.3**	**0.1**
Total Petroleum Hydrocarbons	**9.3**	**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: **Basin Yard**

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:	07-28-08 QA/QC	Date Reported:	07-29-08
Laboratory Number:	46472	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-28-08
Condition:	N/A	Analysis Requested:	TPH

Gasoline Range C5 - C10	05-07-07	1.0069E+003	1.0073E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-07-07	1.0110E+003	1.0114E+003	**0.04%**	**0 - 15%**

Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**9.4**	**9.3**	**1.1%**	**0 - 30%**

Gasoline Range C5 - C10	**ND**	**250**	**246**	**98.4%**	**75 - 125%**
Diesel Range C10 - C28	**9.4**	**250**	**257**	**99.2%**	**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 46472 - 46473, 46492 - 46495, and 46392.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-23-08
Chain of Custody:	4793	Date Sampled:	07-15-08
Laboratory Number:	46392	Date Received:	07-15-08
Sample Matrix:	Soil	Date Analyzed:	07-23-08
Preservative:	Cool	Date Extracted:	07-23-08
Condition:	Cool and Intact	Analysis Requested:	8260 VOC

Parameter	Concentration	Units	Det. Limit	Dilution Factor
Benzene	ND	(ug/Kg)	1.0	1
Toluene	ND	(ug/Kg)	1.0	1
Ethylbenzene	ND	(ug/Kg)	1.0	1
Xylenes, Total	ND	(ug/Kg)	1.0	1
Methyl tert-butyl ether (MTBE)	ND	(ug/Kg)	1.0	1
1,2,4-Trimethylbenzene	ND	(ug/Kg)	1.0	1
1,3,5-Trimethylbenzene	ND	(ug/Kg)	1.0	1
1,2-Dichloroethane (EDC)	ND	(ug/Kg)	1.0	1
1,2-Dibromoethane (EDB)	ND	(ug/Kg)	1.0	1
Naphthalene	ND	(ug/Kg)	1.0	1
1-Methylnaphthalene	ND	(ug/Kg)	2.0	1
2-Methylnaphthalene	ND	(ug/Kg)	2.0	1
Bromobenzene	ND	(ug/Kg)	1.0	1
Bromochloromethane	ND	(ug/Kg)	1.0	1
Bromodichloromethane	ND	(ug/Kg)	1.0	1
Bromoform	ND	(ug/Kg)	1.0	1
Bromomethane	ND	(ug/Kg)	1.0	1
Carbon Tetrachloride	ND	(ug/Kg)	1.0	1
Chlorobenzene	ND	(ug/Kg)	1.0	1
Chloroethane	ND	(ug/Kg)	2.0	1
Chloroform	ND	(ug/Kg)	1.0	1
Chloromethane	ND	(ug/Kg)	1.0	1
2-Chlorotoluene	ND	(ug/Kg)	1.0	1
4-Chlorotoluene	ND	(ug/Kg)	1.0	1
cis-1,2-Dichloroethene	ND	(ug/Kg)	1.0	1
cis-1,3-Dichloropropene	ND	(ug/Kg)	1.0	1
1,2-Dibromo-3-chloropropane	ND	(ug/Kg)	2.0	1
Dibromochloromethane	ND	(ug/Kg)	1.0	1
Dibromoethane	ND	(ug/Kg)	2.0	1
1,2-Dichlorobenzene	ND	(ug/Kg)	1.0	1
1,3-Dichlorobenzene	ND	(ug/Kg)	1.0	1
1,4-Dichlorobenzene	ND	(ug/Kg)	1.0	1
Dichlorodifluoromethane	ND	(ug/Kg)	1.0	1
1,1-Dichloroethane	ND	(ug/Kg)	1.0	1
1,1-Dichloroethene	ND	(ug/Kg)	1.0	1
1,2-Dichloropropane	ND	(ug/Kg)	1.0	1
1,3-Dichloropropane	ND	(ug/Kg)	1.0	1
2,2-Dichloropropane	ND	(ug/Kg)	1.0	1

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS

Client: Basin Disposal
Sample ID: Composite Under Liner
Laboratory Number: 46392

Parameter	Concentration (ug/Kg)	Units	Det. Limit	Dilution Factor
1,1-Dichloropropene	ND	(ug/Kg)	1.0	1
Hexachlorobutadiene	ND	(ug/Kg)	1.0	1
Isopropylbenzene	ND	(ug/Kg)	1.0	1
4-Isopropyltoluene	ND	(ug/Kg)	1.0	1
Methylene Chloride	ND	(ug/Kg)	3.0	1
n-Butylbenzene	ND	(ug/Kg)	1.0	1
n-Propylbenzene	ND	(ug/Kg)	1.0	1
sec-Butylbenzene	ND	(ug/Kg)	1.0	1
Styrene	ND	(ug/Kg)	1.0	1
tert-Butylbenzene	ND	(ug/Kg)	1.0	1
Tetrachloroethene (PCE)	ND	(ug/Kg)	1.0	1
1,1,1,2-Tetrachloroethane	ND	(ug/Kg)	1.0	1
1,1,2,2-Tetrachloroethane	ND	(ug/Kg)	1.0	1
trans-1,2-Dichloroethene	ND	(ug/Kg)	1.0	1
trans-1,3-Dichloropropene	ND	(ug/Kg)	1.0	1
Trichloroethene (TCE)	ND	(ug/Kg)	1.0	1
Trichlorofluoromethane	ND	(ug/Kg)	1.0	1
1,2,3-Trichlorobenzene	ND	(ug/Kg)	1.0	1
1,2,4-Trichlorobenzene	ND	(ug/Kg)	1.0	1
1,1,1-Trichloroethane	ND	(ug/Kg)	1.0	1
1,1,2-Trichloroethane	ND	(ug/Kg)	1.0	1
1,2,3-Trichloropropane	ND	(ug/Kg)	2.0	1
Vinyl Chloride	ND	(ug/Kg)	2.0	1
Surrogates:			**Rec. Limits**	
Dibromofluoromethane	97.0	% Recovery	78.6-115	1
1,2-Dichloroethane-d4	105	% Recovery	74.6-123	1
Toluene-d8	105	% Recovery	84.2-115	1
4-Bromofluorobenzene	103	% Recovery	78.6-115	1

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8260,Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry,Test Methods for Evaluating Solid Waste,SW-846, USEPA, July 1992

Comments: **Basin Yard.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-25-08
Laboratory Number:	07-23 VOA	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-08
Condition:	N/A	Analysis Requested:	8260 VOC

Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
Benzene	ND	(ug/L)	1.0	1
Toluene	ND	(ug/L)	1.0	1
Ethylbenzene	ND	(ug/L)	1.0	1
Xylenes, Total	ND	(ug/L)	1.0	1
Methyl tert-butyl ether (MTBE)	ND	(ug/L)	1.0	1
1,2,4-Trimethylbenzene	ND	(ug/L)	1.0	1
1,3,5-Trimethylbenzene	ND	(ug/L)	1.0	1
1,2-Dichloroethane (EDC)	ND	(ug/L)	1.0	1
1,2-Dibromoethane (EDB)	ND	(ug/L)	1.0	1
Naphthalene	ND	(ug/L)	1.0	1
1-Methylnaphthalene	ND	(ug/L)	2.0	1
2-Methylnaphthalene	ND	(ug/L)	2.0	1
Bromobenzene	ND	(ug/L)	1.0	1
Bromochloromethane	ND	(ug/L)	1.0	1
Bromodichloromethane	ND	(ug/L)	1.0	1
Bromoform	ND	(ug/L)	1.0	1
Bromomethane	ND	(ug/L)	1.0	1
Carbon Tetrachloride	ND	(ug/L)	1.0	1
Chlorobenzene	ND	(ug/L)	1.0	1
Chloroethane	ND	(ug/L)	2.0	1
Chloroform	ND	(ug/L)	1.0	1
Chloromethane	ND	(ug/L)	1.0	1
2-Chlorotoluene	ND	(ug/L)	1.0	1
4-Chlorotoluene	ND	(ug/L)	1.0	1
cis-1,2-Dichloroethene	ND	(ug/L)	1.0	1
cis-1,3-Dichloropropene	ND	(ug/L)	1.0	1
1,2-Dibromo-3-chloropropane	ND	(ug/L)	2.0	1
Dibromochloromethane	ND	(ug/L)	1.0	1
Dibromoethane	ND	(ug/L)	2.0	1
1,2-Dichlorobenzene	ND	(ug/L)	1.0	1
1,3-Dichlorobenzene	ND	(ug/L)	1.0	1
1,4-Dichlorobenzene	ND	(ug/L)	1.0	1
Dichlorodifluoromethane	ND	(ug/L)	1.0	1
1,1-Dichloroethane	ND	(ug/L)	1.0	1
1,1-Dichloroethene	ND	(ug/L)	1.0	1
1,2-Dichloropropane	ND	(ug/L)	1.0	1
1,3-Dichloropropane	ND	(ug/L)	1.0	1
2,2-Dichloropropane	ND	(ug/L)	1.0	1

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Quality Assurance Report

Client: QA/QC
Sample ID: Laboratory Blank
Laboratory Number: 07-23 VOA

Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
1,1-Dichloropropene	ND	(ug/L)	1.0	1
Hexachlorobutadiene	ND	(ug/L)	1.0	1
Isopropylbenzene	ND	(ug/L)	1.0	1
4-Isopropyltoluene	ND	(ug/L)	1.0	1
Methylene Chloride	ND	(ug/L)	1.0	1
n-Butylbenzene	ND	(ug/L)	1.0	1
n-Propylbenzene	ND	(ug/L)	1.0	1
sec-Butylbenzene	ND	(ug/L)	1.0	1
Styrene	ND	(ug/L)	1.0	1
tert-Butylbenzene	ND	(ug/L)	1.0	1
Tetrachloroethene (PCE)	ND	(ug/L)	1.0	1
1,1,1,2-Tetrachloroethane	ND	(ug/L)	1.0	1
1,1,2,2-Tetrachloroethane	ND	(ug/L)	1.0	1
trans-1,2-Dichloroethene	ND	(ug/L)	1.0	1
trans-1,3-Dichloropropene	ND	(ug/L)	1.0	1
Trichloroethene (TCE)	ND	(ug/L)	1.0	1
Trichlorofluoromethane	ND	(ug/L)	1.0	1
1,2,3-Trichlorobenzene	ND	(ug/L)	1.0	1
1,2,4-Trichlorobenzene	ND	(ug/L)	1.0	1
1,1,1-Trichloroethane	ND	(ug/L)	1.0	1
1,1,2-Trichloroethane	ND	(ug/L)	1.0	1
1,2,3-Trichloropropane	ND	(ug/L)	2.0	1
Vinyl Chloride	ND	(ug/L)	2.0	1
Surrogates:			**Rec. Limits**	
Dibromofluoromethane	104	% Recovery	78.6-115	1
1,2-Dichloroethane-d4	110	% Recovery	74.6-123	1
Toluene-d8	110	% Recovery	84.2-115	1
4-Bromofluorobenzene	102	% Recovery	78.6-115	1

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8260,Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry,Test Methods for Evaluating Solid Waste,SW-846, USEPA, July 1992

Comments: **QA/QC for Sample 46392.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Daily Calibration Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Daily Calibration	Date Reported:	07-25-08
Laboratory Number:	07-23 QA/QC	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-08
Condition:	N/A	Analysis Requested:	8260 VOC

Parameter	Concentration (ug/L)	Result	% Recovered	% Recovery Limits
Benzene	100	100	100	80 - 120
Toluene	100	109	109	80 - 120
Ethylbenzene	100	104	104	80 - 120
Xylenes, Total	100	83.8	83.8	80 - 120
Methyl tert-butyl ether (MTBE)	100	101	101	80 - 120
1,2,4-Trimethylbenzene	100	106	106	80 - 120
1,3,5-Trimethylbenzene	100	100	100	80 - 120
1,2-Dichloroethane (EDC)	100	95.8	95.8	80 - 120
1,2-Dibromoethane (EDB)	100	109	109	80 - 120
Naphthalene	100	113	113	80 - 120
1-Methylnaphthalene	100	94.9	94.9	80 - 120
2-Methylnaphthalene	100	96.0	96.0	80 - 120
Bromobenzene	100	107	107	80 - 120
Bromochloromethane	100	97.6	97.6	80 - 120
Bromodichloromethane	100	96.0	96.0	80 - 120
Bromoform	100	105	105	80 - 120
Bromomethane	100	98.9	98.9	80 - 120
Carbon Tetrachloride	100	94.0	94.0	80 - 120
Chlorobenzene	100	108	108	80 - 120
Chloroethane	100	105	105	80 - 120
Chloroform	100	91.2	91.2	80 - 120
Chloromethane	100	112	112	80 - 120
2-Chlorotoluene	100	107	107	80 - 120
4-Chlorotoluene	100	113	113	80 - 120
cis-1,2-Dichloroethene	100	110	110	80 - 120
cis-1,3-Dichloropropene	100	101	101	80 - 120
1,2-Dibromo-3-chloropropane	100	115	115	80 - 120
Dibromochloromethane	100	103	103	80 - 120
Dibromoethane	100	105	105	80 - 120
1,2-Dichlorobenzene	100	113	113	80 - 120
1,3-Dichlorobenzene	100	109	109	80 - 120
1,4-Dichlorobenzene	100	107	107	80 - 120
Dichlorodifluoromethane	100	99.9	99.9	80 - 120
1,1-Dichloroethane	100	97.5	97.5	80 - 120
1,1-Dichloroethene	100	98.3	98.3	80 - 120
1,2-Dichloropropane	100	103	103	80 - 120
1,3-Dichloropropane	100	107	107	80 - 120
2,2-Dichloropropane	100	98.2	98.2	80 - 120

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Quality Assurance Report

Client: QA/QC
Sample ID: Daily Calibration
Laboratory Number: 07-23 QA/QC

Parameter	Concentration (ug/L)	Result	% Recovered	% Recovery Limits
1,1-Dichloropropene	100	98.2	98.2	80 - 120
Hexachlorobutadiene	100	91.0	91.0	80 - 120
Isopropylbenzene	100	105	105	80 - 120
4-Isopropyltoluene	100	107	107	80 - 120
Methylene Chloride	100	97.5	97.5	80 - 120
n-Butylbenzene	100	108	108	80 - 120
n-Propylbenzene	100	103	103	80 - 120
sec-Butylbenzene	100	107	107	80 - 120
Styrene	100	105	105	80 - 120
tert-Butylbenzene	100	109	109	80 - 120
Tetrachloroethene (PCE)	100	104	104	80 - 120
1,1,1,2-Tetrachloroethane	100	105	105	80 - 120
1,1,2,2-Tetrachloroethane	100	114	114	80 - 120
trans-1,2-Dichloroethene	100	94.2	94.2	80 - 120
trans-1,3-Dichloropropene	100	102	102	80 - 120
Trichloroethene (TCE)	100	104	104	80 - 120
Trichlorofluoromethane	100	96.7	96.7	80 - 120
1,2,3-Trichlorobenzene	100	111	111	80 - 120
1,2,4-Trichlorobenzene	100	114	114	80 - 120
1,1,1-Trichloroethane	100	97.0	97.0	80 - 120
1,1,2-Trichloroethane	100	100	100	80 - 120
1,2,3-Trichloropropane	100	112	112	80 - 120
Vinyl Chloride	100	105	105	80 - 120

Surrogates:			Rec. Limits
Dibromofluoromethane	100	% Recovery	78.6-115
1,2-Dichloroethane-d4	110	% Recovery	74.6-123
Toluene-d8	91.3	% Recovery	84.2-115
4-Bromofluorobenzene	92.1	% Recovery	78.6-115

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8260,Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry,Test Methods for Evaluating Solid Waste,SW-846, USEPA, July 1992

Comments: **QA/QC for Sample 46392.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spikes	Date Reported:	07-25-08
Laboratory Number:	07-23-VOA - 46392	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-08
Condition:	N/A	Analysis Requested:	8260 VOC

Spike	Units: ug/Kg				Recovery	Det.
Analyte	Sample	Added	Result	%Recovery	Limits	Limit
Benzene	ND	100.0	101	101%	85.3 - 120	1.0
Toluene	ND	100.0	101	101%	73 - 123	1.0
Chlorobenzene	ND	100.0	102	102%	84.7 - 119	1.0
1,1-Dichloroethene	ND	100.0	115	115%	83.4 - 122	1.0
Trichloroethene (TCE)	ND	100.0	97.9	97.9%	76.1 - 126	1.0

Spike Duplicate	Units: ug/Kg				Recovery	Det.
Analyte	Sample	Added	Result	%Recovery	Limits	Limit
Benzene	ND	100.0	106	106%	85.3 - 120	1.0
Toluene	ND	100.0	100	99.9%	73 - 123	1.0
Chlorobenzene	ND	100.0	95.1	95.1%	84.7 - 119	1.0
1,1-Dichloroethene	ND	100.0	115	115%	83.4 - 122	1.0
Trichloroethene (TCE)	ND	100.0	102	102%	76.1 - 126	1.0

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8260,Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry,Test Methods for Evaluating Solid Waste,SW-846, USEPA, July 1992

Comments: **QA/QC for Sample 46392.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-25-08
Laboratory Number:	46392	Date Sampled:	07-15-08
Chain of Custody:	4793	Date Received:	07-15-08
Sample Matrix:	Soil	Date Analyzed:	07-23-08
Preservative:	Cool	Date Digested:	07-18-08
Condition:	Cool & Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	**0.003**	**0.001**
Barium	**10.5**	**0.001**
Cadmium	**0.002**	**0.001**
Chromium	**0.033**	**0.001**
Copper	**0.316**	**0.001**
Iron	**55.8**	**0.001**
Lead	**0.062**	**0.001**
Mercury	**ND**	**0.001**
Manganese	**4.05**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**
Zinc	**0.170**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. *SW-846, USEPA, December 1996.*

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Basin Yard.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-23-TM QA/QC	Date Reported:	07-25-08
Laboratory Number:	46392	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	07-23-08
Condition:	N/A	Date Digested:	07-18-08

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Barium	ND	ND	0.001	10.5	10.4	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.033	0.038	14.6%	0% - 30%
Copper	ND	ND	0.001	0.316	0.315	0.5%	0% - 30%
Iron	ND	ND	0.001	55.8	58.0	3.9%	0% - 30%
Lead	ND	ND	0.001	0.062	0.064	2.6%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Manganese	ND	ND	0.001	4.05	4.50	11.2%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Zinc	ND	ND	0.001	0.170	0.179	5.5%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	0.003	0.254	100.4%	80% - 120%
Barium	0.500	10.5	11.2	102%	80% - 120%
Cadmium	0.250	0.002	0.255	101%	80% - 120%
Chromium	0.500	0.033	0.504	95%	80% - 120%
Copper	0.500	0.316	0.854	105%	80% - 120%
Iron	0.500	55.8	56.7	101%	80% - 120%
Lead	0.500	0.062	0.577	103%	80% - 120%
Mercury	0.100	ND	0.099	99.0%	80% - 120%
Manganese	0.500	4.05	4.65	102%	80% - 120%
Selenium	0.100	ND	0.097	97.0%	80% - 120%
Silver	0.100	ND	0.101	101%	80% - 120%
Zinc	0.500	0.170	0.700	105%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for Sample 46392.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-21-08
Laboratory Number:	46392	Date Sampled:	07-15-08
Sample Matrix:	Soil Extract	Date Received:	07-15-08
Preservative:	Cool	Date Analyzed:	07-17-08
Condition:	Cool & Intact	Chain of Custody:	4793

Parameter	Analytical Result	Units
pH	**7.34**	su
Total Dissolved Solids @ 180C	**864**	mg/L
Nitrate Nitrogen	**2.04**	mg/L
Cyanide	**<0.1**	mg/L
Fluoride	**0.485**	mg/L
Chloride	**55.2**	mg/L
Sulfate	**616**	mg/L

Reference: U.S.E.P.A., 600/4-79-020, "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

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CHAIN OF CUSTODY RECORD

Client:	Project Name / Location:
Basin Disposal	Basin Yard
Client Address: 200 Montana Rd Bloomfield	Sampler Name: G. Crabtree
Client Phone No.: (505) 486-3078	Client No.: 03058-0006

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl2	Preservative HNO3	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion 4 pos 4 neg	RCI	TCLP with H/P	PAH	TPH (418.1)	Cyanide	Uranium	Radium 226 + 228	PCB	8100 PAH	8041 Phenols	Sample Cool	Sample Intact
Composite under liner 12	7/15/08	1235	46392	soil	2-40z 1-16oz 1-bag			✓		✓	✓	✓					✓✓	✓✓	✓✓	✓	✓	✓	✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7/15/08	1335		7/15/08	1335
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8270
PHENOLS

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-25-08
Laboratory Number:	46392	Date Sampled:	07-15-08
Chain of Custody:	4793	Date Received:	07-15-08
Sample Matrix:	Soil	Date Extracted:	07-22-08
Preservative:	Cool	Date Analyzed:	07-24-08
Condition:	Intact	Analysis Requested:	Phenols

Parameter	Concentration (mg/Kg)	Detection Limit (mg/Kg)	Regulatory Limit (mg/Kg)
o-Cresol	**ND**	**0.005**	**200**
p,m-Cresol	**ND**	**0.005**	**200**
2,4,6-Trichlorophenol	**ND**	**0.005**	**2.0**
2,4,5-Trichlorophenol	**ND**	**0.005**	**400**
Pentachlorophenol	**ND**	**0.005**	**100**

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	**98.0%**
	2,4,6-Tribromophenol	**97.0%**

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8270, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Basin Yard.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8270
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-24-TCA QA/QC	Date Reported:	07-25-08
Laboratory Number:	46392	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-24-08
Condition:	N/A	Analysis Requested:	Phenols

Blanks & Duplicate Conc (mg/Kg)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	Percent Diff.
o-Cresol	ND	ND	0.005	ND	ND	0.0%
p,m-Cresol	ND	ND	0.005	ND	ND	0.0%
2,4,6-Trichlorophenol	ND	ND	0.005	ND	ND	0.0%
2,4,5-Trichlorophenol	ND	ND	0.005	ND	ND	0.0%
Pentachlorophenol	ND	ND	0.005	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8041, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Comments: **QA/QC for Sample 46392.**

Analyst

Review

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Hall Environmental Analysis Laboratory, Inc.

Date: *13-Aug-08*

CLIENT:	Envirotech	**Client Sample ID:**	46392-5 pt Composite Under Liner
Lab Order:	0807220	**Collection Date:**	7/15/2008 12:35:00 PM
Project:	Basin Disposal	**Date Received:**	7/17/2008
Lab ID:	0807220-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: JMP
Aroclor 1016	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1221	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1232	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1242	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1248	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1254	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1260	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Surr: Decachlorobiphenyl	47.6	15.8-133		%REC	1	7/26/2008 7:17:59 AM
EPA METHOD 8310: PAHS						Analyst: DMF
Naphthalene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
1-Methylnaphthalene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
2-Methylnaphthalene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
Acenaphthylene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
Acenaphthene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
Fluorene	ND	0.030		mg/Kg	1	7/30/2008 3:18:04 AM
Phenanthrene	ND	0.015		mg/Kg	1	7/30/2008 3:18:04 AM
Anthracene	ND	0.015		mg/Kg	1	7/30/2008 3:18:04 AM
Fluoranthene	ND	0.020		mg/Kg	1	7/30/2008 3:18:04 AM
Pyrene	ND	0.025		mg/Kg	1	7/30/2008 3:18:04 AM
Benz(a)anthracene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Chrysene	ND	0.011		mg/Kg	1	7/30/2008 3:18:04 AM
Benzo(b)fluoranthene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Benzo(k)fluoranthene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Benzo(a)pyrene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Dibenz(a,h)anthracene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Benzo(g,h,i)perylene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Indeno(1,2,3-cd)pyrene	ND	0.10		mg/Kg	1	7/30/2008 3:18:04 AM
Surr: Benzo(e)pyrene	53.9	40.7-93.1		%REC	1	7/30/2008 3:18:04 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

LAB ID: PA39-401

Benchmark Analytics, Inc.

4777 Saucon Creek Road
Center Valley, PA 18034

Phone: (610) 974-8100
Fax: (610) 974-8104

Work Order: 08072639

SEND DATA TO:

NAME: Ann Thorne
COMPANY: Hall Environmental Analysis Lab, Inc.
ADDRESS: 4901 Hawkins NE, Suite D
Albuquerque, NM 87109-4372

WO#: 08072639
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

PHONE: (505) 345-3975
FAX: (505) 345-4107

0807220

RECEIVED FOR LAB BY: SMM   DATE: 07/18/2008 8:50   Page 1 of 1

SAMPLE: **0807220-01B, 48392-5 pt Composite Under Liner**   Lab ID: 08072639-001A   Grab

SAMPLED BY: Client   Sample Time: 07/16/2008 12:35

Test	Result	Method	RL	Analysis Start	Analysis End	Analyst *
Uranium	0.312 mg/Kg-dry	EPA 6020		07/23/08 16:10	07/29/08	JRA-CV
Percent Moisture	1.0 %	PERCENT MOISTURE		07/18/08 12:45	07/21/08	LMH-CV

REMARKS:
The above test procedures meet all the requirements of NELAC and relate only to these samples.
* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER [signature]   DATE: 8/13/2008

LAB ID: PA39-401

BENCHMARK ANALYTICS, INC.
4777 Saucon Creek Road
Center Valley, PA 18034-9004

PHONE (610) 974-8100
FAX (610) 974-8104

Work Order: 08072639

SEND DATA TO:

NAME: Ann Thorne
COMPANY: Hall Environmental Analysis Lab, Inc.
ADDRESS: 4901 Hawkins NE, Suite D
Albuquerque, NM 87109-4372

PHONE: (505) 345-3975
FAX: (505) 345-4107

WO#: 08072639
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

0807220

RECEIVED FOR LAB BY: SMM DATE: 07/16/2008 8:50

SAMPLE: 0807220-01B, 46392-5 pt Composite Under Liner Lab ID: 08072639-001A Grab
SAMPLED BY: Client Sample Time 07/15/2008 12:35

Test	Result	Uncert.	MDA	Units	Method	MCL	Analysis Start	Analysis End	Analyst *
Radium-226	76.39	± 5.74	16	pCi/Kg	EPA 903.0		07/29/08 12:25	08/09/08	BH-CV
Radium-228	50.47	± 10.30	12.72	pCi/Kg	EPA 904.0		08/01/08 7:30	08/05/08	CCA-CV

REMARKS:
The above test procedures meet all the requirements of NELAC and relate only to these samples.
* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER Clin Mek DATE: 8/13/2008

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0807220

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8082: PCB's									
Sample ID: MB-16637		*MBLK*			**Batch ID:**	**16637**	**Analysis Date:**		**7/25/2008 9:15:23 AM**
Aroclor 1016	ND	mg/Kg	0.020						
Aroclor 1221	ND	mg/Kg	0.020						
Aroclor 1232	ND	mg/Kg	0.020						
Aroclor 1242	ND	mg/Kg	0.020						
Aroclor 1248	ND	mg/Kg	0.020						
Aroclor 1254	ND	mg/Kg	0.020						
Aroclor 1260	ND	mg/Kg	0.020						
Sample ID: LCS-16637		*LCS*			**Batch ID:**	**16637**	**Analysis Date:**		**7/25/2008 10:05:06 AM**
Aroclor 1260	0.03885	mg/Kg	0.020	31.1	23.7	105			
Sample ID: LCSD-16637		*LCSD*			**Batch ID:**	**16637**	**Analysis Date:**		**7/25/2008 10:54:01 AM**
Aroclor 1260	0.06295	mg/Kg	0.020	60.4	23.7	105	47.3	20	R

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Benchmark Analytics, Inc.

Date: *13-Aug-08*

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: ME_ICPMS_S

Sample ID: MBLK ES 072308 A	SampType: MBLK	TestCode: ME_ICPMS_	Units: mg/Kg	Prep Date:	RunNo: 25659
Client ID: PBS	Batch ID: ES 072308 A	TestNo: SW6020		Analysis Date: 7/23/2008	SeqNo: 485703

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	< 0.220	0.220									

Sample ID: LFB ES 072308 A	SampType: LFB	TestCode: ME_ICPMS_	Units: mg/Kg	Prep Date:	RunNo: 25659
Client ID: ZZZZZZ	Batch ID: ES 072308 A	TestNo: SW6020		Analysis Date: 7/23/2008	SeqNo: 485704

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	18.3	0.243	19.44	0	94.0	85	115				

Sample ID: MBLK ES 072308 A	SampType: MBLK	TestCode: ME_ICPMS_	Units: mg/Kg	Prep Date:	RunNo: 25733
Client ID: PBS	Batch ID: ES 072308 A	TestNo: SW6020		Analysis Date: 7/23/2008	SeqNo: 487433

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	< 0.220	0.220									

Sample ID: LFB ES 072308 A	SampType: LFB	TestCode: ME_ICPMS_	Units: mg/Kg	Prep Date:	RunNo: 25733
Client ID: ZZZZZZ	Batch ID: ES 072308 A	TestNo: SW6020		Analysis Date: 7/23/2008	SeqNo: 487434

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	17.5	0.243	19.44	0	90.0	85	115				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Limit of detection increased due to matrix interference an	E	Value above quantitation range
J	Analyte reported below quantitation limits	L	Value above calibration range but within annually verific	LBP	Lead based paint is defined as a paint with greater than
PHQC	Sample pH was >2. Due to matrix effects, not all quality	Q	Due to matrix effects, not all quality control parameters	R	RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: PMOIST

Sample ID: MB-R25211	SampType: MBLK	TestCode: PMOIST	Units: %	Prep Date:	RunNo: 25211
Client ID: PBS	Batch ID: R25211	TestNo: D2216		Analysis Date: 7/18/2008	SeqNo: 476383

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	<50	0									

Sample ID: 08072639-001ADUP	SampType: DUP	TestCode: PMOIST	Units: %	Prep Date:	RunNo: 25211
Client ID: 0807220-01B, 46392-5 pt	Batch ID: R25211	TestNo: D2216		Analysis Date: 7/18/2008	SeqNo: 476385

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	1.0	0						1.000	0	25	

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater than
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: RA226_903.0

Sample ID: BLANK	SampType: MBLK	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: PBW	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 496658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.05										

Sample ID: EXTR. BLANK	SampType: MBLK	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: PBW	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 496659

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.03										

Sample ID: LCS	SampType: LCS	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: LCSW	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 496660

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	11.46		10.66	0	108	74	126				

Sample ID: LCS DUP1	SampType: LCSD	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: LCSS02	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 496661

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	13.28		10.66	0	125	74	126				

Sample ID: LCS DUP2 RC	SampType: LCSD	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: LCSS02	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 497922

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	12.05		10.66	0	113	74	126		5.00	0	

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater thar
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: RA228_904.0

Sample ID: BLANK	SampType: MBLK	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: PBW	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492231

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	-0.78										

Sample ID: LCS	SampType: LCS	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: LCSW	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492233

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	12.33		11.42	0	108	57	143				

Sample ID: LFB-1	SampType: LFB	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: ZZZZZZ	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492234

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	16.15		22.84	0	71.0	57	143				

Sample ID: LFB-2	SampType: LFB	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: ZZZZZZ	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492235

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	10.67		22.84	0	47.0	57	143				S

Sample ID: LFBD-1	SampType: LFBD	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: ZZZZZZ	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492236

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	19.77		22.84	0	87.0	57	143		60.0	0	

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater than
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: RA228_904.0

Sample ID: LFBD-2	SampType: LFBD	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: ZZZZZZ	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492237

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	18.12		22.84	0	79.0	57	143		11.0	0	

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
I Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater than
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0807220

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: MB-16502		*MBLK*			**Batch ID: 16502**		**Analysis Date:**		**7/29/2008 7:09:44 AM**
Naphthalene	ND	mg/Kg	0.25						
1-Methylnaphthalene	ND	mg/Kg	0.25						
2-Methylnaphthalene	ND	mg/Kg	0.25						
Acenaphthylene	ND	mg/Kg	0.25						
Acenaphthene	ND	mg/Kg	0.25						
Fluorene	ND	mg/Kg	0.030						
Phenanthrene	ND	mg/Kg	0.015						
Anthracene	ND	mg/Kg	0.015						
Fluoranthene	ND	mg/Kg	0.020						
Pyrene	ND	mg/Kg	0.025						
Benz(a)anthracene	ND	mg/Kg	0.010						
Chrysene	ND	mg/Kg	0.011						
Benzo(b)fluoranthene	ND	mg/Kg	0.010						
Benzo(k)fluoranthene	ND	mg/Kg	0.010						
Benzo(a)pyrene	ND	mg/Kg	0.0013						
Dibenz(a,h)anthracene	ND	mg/Kg	0.010						
Benzo(g,h,i)perylene	ND	mg/Kg	0.010						
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10						
Sample ID: 'LCS-16502		*LCS*			**Batch ID: 16502**		**Analysis Date:**		**7/29/2008 7:57:42 AM**
Naphthalene	1.257	mg/Kg	0.25	62.8	30.1	90.4			
1-Methylnaphthalene	1.279	mg/Kg	0.25	63.9	31.1	88.5			
2-Methylnaphthalene	1.265	mg/Kg	0.25	63.3	32.2	89			
Acenaphthylene	1.234	mg/Kg	0.25	61.7	29.5	94.2			
Acenaphthene	1.271	mg/Kg	0.25	63.5	35.6	89.7			
Fluorene	0.1242	mg/Kg	0.030	62.1	36.9	90.7			
Phenanthrene	0.06825	mg/Kg	0.015	62.9	37.2	95.3			
Anthracene	0.06575	mg/Kg	0.015	63.6	37.4	95.4			
Fluoranthene	0.1240	mg/Kg	0.020	61.8	30.4	97.8			
Pyrene	0.1288	mg/Kg	0.025	64.4	33.3	100			
Benz(a)anthracene	0.01325	mg/Kg	0.010	66.2	38.9	102			
Chrysene	0.06450	mg/Kg	0.011	64.1	24.2	100			
Benzo(b)fluoranthene	0.01700	mg/Kg	0.010	68.0	35.5	102			
Benzo(k)fluoranthene	ND	mg/Kg	0.010	68.0	30.4	101			
Benzo(a)pyrene	0.01008	mg/Kg	0.0013	80.2	29.8	112			
Dibenz(a,h)anthracene	0.01675	mg/Kg	0.010	35.0	28.3	108			
Benzo(g,h,i)perylene	0.02300	mg/Kg	0.010	92.0	21.3	116			
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10	54.7	18.5	112			

Qualifiers:

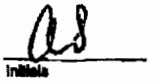
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ENVIROTECH | Date Received: 7/17/2008

Work Order Number 0807220 | Received by: ARS

Checklist completed by:  7/17/08 (Signature / Date) | Sample ID labels checked by:  (Initials)

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	4°	<6° C *Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: ENVIROTECH

Address: 5796 US HWY 64
FARMINGTON, NM 87401

Phone #: 505.632.0615

email or Fax#: cwalters@envirotech-inc.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Basin Disposal

Project #: 03058-0006

Project Manager: CHRISTINE WALTERS

Sampler: Greg Crabtree

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0807220	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)		Uranium	Radium 226 and 228		Air Bubbles (Y or N)
7/15/08	1235	46392-5 pt composite under liner	2-4oz jar	cool	1							X		X				X	X		

Date:	Time:	Relinquished by:	Received by:	Remarks:
7/16/08	9:15		9:10 7/17/08	REF PO# 10079
Date:	Time:	Relinquished by:	Received by:	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

2 September 2008

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

RE: Analytical Results:
Soil Beneath Liner in the Temporary Tank Storage Area Approved in March 2008

Dear Mr. Jones;

Attached please find the results for the lab analysis of the soil beneath the liner from the temporary tank storage area approved in March 2008.

If you have any questions, please feel free to phone me at 334-3013 or 320-2840 or via email at bdinc@digii.net.

Sincerely;

John Volkerding
General Manager2

John Volkerding

From: Jones, Brad A., EMNRD <brad.a.jones@state.nm.us>
Sent: Monday, June 16, 2008 10:29 AM
To: John Volkerding
Subject: RE: Soil Sampling Analyses

John,

Based upon the laboratory analytical results provided, OCD hereby approves of your request to place the soils (from above the liner of the temporary tank area) within the facility boundary in a manner that does not promote or facilitate erosional run-off from the facility.

Pursuant to Subsection C of 19.15.9.712 NMAC, "waste listed in Subsection D, Paragraph (1) of Section 19.15.9.712 NMAC. Waste listed in Subsection D, Paragraph (1) of Section 19.15.9.712 NMAC may be disposed of at a solid waste facility without prior written authorization of the division." Plastic pit liners are an identified waste in Subsection D, Paragraph (1) of Section 19.15.9.712 NMAC. The only condition for acceptance is "so long as cleaned well."

If you have any questions regarding this matter, please do not hesitate to contact me.

Brad

Brad A. Jones
Environmental Engineer
Environmental Bureau
NM Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505
E-mail: brad.a.jones@state.nm.us
Office: (505) 476-3487
Fax: (505) 476-3462

From: John Volkerding [mailto:bdinc@digii.net]
Sent: Friday, June 13, 2008 3:10 PM
To: Jones, Brad A., EMNRD
Subject: Soil Sampling Analyses

Brad;

Happy Friday the 13th! Scary.

Attached are the analytical results for the soil above the liner in the temporary tank storage area. Given the low concentrations, Basin Disposal proposes to place that soil back on our property and dispose of the liner at Waste Management's landfill. We will then conduct a 5 point composite sample of the soil under the liner and analyze for the same constituents.

Thanks, John

John Volkerding, PhD, CPEA
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410

Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936

A good conscience is continual Christmas. Benjamin Franklin

This inbound email has been scanned by the MessageLabs Email Security System.

John Volkerding

From: John Volkerding <bdinc@digii.net>
Sent: Friday, June 13, 2008 3:10 PM
To: 'Jones, Brad A., EMNRD'
Subject: Soil Sampling Analyses
Attachments: Soil Samples Above Temp Liner 6-13-08.pdf

Brad;

Happy Friday the 13th! Scary.

Attached are the analytical results for the soil above the liner in the temporary tank storage area. Given the low concentrations, Basin Disposal proposes to place that soil back on our property and dispose of the liner at Waste Management's landfill. We will then conduct a 5 point composite sample of the soil under the liner and analyze for the same constituents.

Thanks, John

John Volkerding, PhD, CPEA
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936

A good conscience is continual Christmas. Benjamin Franklin

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-14-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Chain of Custody No:	4361	Date Received:	05-09-08
Sample Matrix:	Soil	Date Extracted:	05-13-08
Preservative:	Cool	Date Analyzed:	05-14-08
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)	**3.8**	**0.1**
Total Petroleum Hydrocarbons	**3.8**	**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: **Basin Yard Tank Storage.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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:	05-14-08 QA/QC	Date Reported:	05-14-08
Laboratory Number:	45407	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-14-08
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.9973E+002	1.0001E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9603E+002	9.9643E+002	0.04%	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%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	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 45407 - 45410, 45396, and 45434**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-15-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Chain of Custody:	4361	Date Received:	05-09-08
Sample Matrix:	Soil	Date Analyzed:	05-13-08
Preservative:	Cool	Date Digested:	05-13-08
Condition:	Cool & Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	**0.036**	**0.001**
Barium	**18.2**	**0.001**
Cadmium	**0.002**	**0.001**
Chromium	**0.126**	**0.001**
Copper	**0.325**	**0.001**
Iron	**252**	**0.001**
Lead	**0.286**	**0.001**
Mercury	**ND**	**0.001**
Manganese	**15.8**	**0.001**
Selenium	**0.004**	**0.001**
Silver	**ND**	**0.001**
Zinc	**0.923**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Basin Yard Tank Storage.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-13-TM QA/QC	Date Reported:	05-15-08
Laboratory Number:	45396	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	05-13-08
Condition:	N/A	Date Digested:	05-13-08

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.036	0.039	6.4%	0% - 30%
Barium	ND	ND	0.001	18.2	18.2	0.0%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.003	13.6%	0% - 30%
Chromium	ND	ND	0.001	0.126	0.130	3.2%	0% - 30%
Copper	ND	ND	0.001	0.325	0.329	1.3%	0% - 30%
Iron	ND	ND	0.001	252	259	2.8%	0% - 30%
Lead	ND	ND	0.001	0.286	0.294	2.7%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Manganese	ND	ND	0.001	15.8	15.5	2.1%	0% - 30%
Selenium	ND	ND	0.001	0.004	0.003	11.1%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Zinc	ND	ND	0.001	0.923	0.958	3.8%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	0.036	0.279	97.6%	80% - 120%
Barium	0.500	18.2	18.8	100.4%	80% - 120%
Cadmium	0.250	0.002	0.254	101%	80% - 120%
Chromium	0.500	0.126	0.663	106%	80% - 120%
Copper	0.500	0.325	0.853	103%	80% - 120%
Iron	0.500	252	255	101%	80% - 120%
Lead	0.500	0.286	0.780	99.2%	80% - 120%
Mercury	0.100	ND	0.096	95.9%	80% - 120%
Manganese	0.500	15.8	16.4	101%	80% - 120%
Selenium	0.100	0.004	0.098	94.5%	80% - 120%
Silver	0.100	ND	0.100	100%	80% - 120%
Zinc	0.500	0.923	1.48	104%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 45396.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-14-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Sample Matrix:	Soil Extract	Date Received:	05-09-08
Preservative:	Cool	Date Analyzed:	05-13-08
Condition:	Cool & Intact	Chain of Custody:	4316

Parameter	Analytical Result	Units
pH	**7.82**	su
Total Dissolved Solids @ 180C	**1,970**	mg/L
Nitrate Nitrogen	**0.5**	mg/L
Cyanide	**0.02**	mg/L
Fluoride	**0.93**	mg/L
Chloride	**145**	mg/L
Sulfate	**1,320**	mg/L

Reference: U.S.E.P.A., 600/4-79-020, "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 Tank Storage.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8270
Polynuclear Aromatic Hydrocarbons

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Chain of custody:	4361	Date Received:	05-09-08
Sample Matrix:	Soil	Date Analyzed:	05-21-08
Preservative:	Cool	Date Concentrated:	05-20-08
Condition:	Cool & Intact	Analysis Requested:	8100

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Naphthalene	ND	0.2
Acenaphthylene	ND	0.2
Acenaphthene	ND	0.2
Fluorene	ND	0.2
Phenanthrene	ND	0.2
Anthracene	ND	0.2
Fluoranthene	ND	0.2
Pyrene	ND	0.2
Benzo[a]anthracene	ND	0.2
Chrysene	ND	0.2
Benzo(b)fluoranthene	ND	0.2
Benzo[k]fluoranthene	ND	0.2
Benzo(a)pyrene	ND	0.2
Indeno[1,2,3]pyrene	ND	0.2
Dibenzo[a,h]anthracene	ND	0.2
Benzo(g,h,i)perylene	ND	0.2

ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronapthalene	99.7%

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
SW-846, USEPA, September 1986.

Comments: **Basin Yard Tank Storage.**

Analyst

Review

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ENVIROTECH LABS

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

EPA Method 8270
Polynuclear Aromatic Hydrocarbons
Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	Laboratory Blank	Date Reported:	05-27-08
Laboratory Number:	QA/QC	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-21-08
Condition:	N/A	Analysis Requested:	8100

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Naphthalene	ND	0.2
Acenaphthylene	ND	0.2
Acenaphthene	ND	0.2
Fluorene	ND	0.2
Phenanthrene	ND	0.2
Anthracene	ND	0.2
Fluoranthene	ND	0.2
Pyrene	ND	0.2
Benzo[a]anthracene	ND	0.2
Chrysene	ND	0.2
Benzo(b)fluoranthene	ND	0.2
Benzo[k]fluoranthene	ND	0.2
Benzo(a)pyrene	ND	0.2
Indeno[1,2,3]pyrene	ND	0.2
Dibenzo[a,h]anthracene	ND	0.2
Benzo(g,h,i)perylene	ND	0.2

ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY:	Parameter	Percent Recovery
	1-fluoronapthalene	99.4%

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
SW-846, USEPA, September 1986.

Comments: **QA/QC for Sample 45396.**

Analyst

Review

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ENVIROTECH LABS

EPA Method 8270
Polynuclear Aromatic Hydrocarbons
Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	Matrix Duplicate	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	8100	Date Analyzed:	05-21-08
Condition:	N/A		

Parameter	Sample Result (ug/Kg)	Duplicate Sample Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Difference
Naphthalene	ND	ND	0.2	0.0%
Acenaphthylene	ND	ND	0.2	0.0%
Acenaphthene	ND	ND	0.2	0.0%
Fluorene	ND	ND	0.2	0.0%
Phenanthrene	ND	ND	0.2	0.0%
Anthracene	ND	ND	0.2	0.0%
Fluoranthene	ND	ND	0.2	0.0%
Pyrene	ND	ND	0.2	0.0%
Benzo[a]anthracene	ND	ND	0.2	0.0%
Chrysene	ND	ND	0.2	0.0%
Benzo(b)fluoranthene	ND	ND	0.2	0.0%
Benzo[k]fluoranthene	ND	ND	0.2	0.0%
Benzo(a)pyrene	ND	ND	0.2	0.0%
Indeno[1,2,3]pyrene	ND	ND	0.2	0.0%
Dibenzo[a,h]anthracene	ND	ND	0.2	0.0%
Benzo(g,h,i)perylene	ND	ND	0.2	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS SW-846, USEPA, September 1986.

Comments: **QA/QC for Sample 45396.**

Analyst

Review

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ENVIROTECH LABS

EPA Method 8270
Polynuclear Aromatic Hydrocarbons
Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	Matrix Spike	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	8100	Date Analyzed:	05-21-08
Condition:	N/A		

Parameter	Sample Result (ug/Kg)	Spike Added (ug/Kg)	Spiked Sample Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Recovery	SW-846 % Rec. Accept. Range
Naphthalene	ND	50.0	49.9	0.2	99.8%	10-122
Acenaphthylene	ND	50.0	49.8	0.2	99.6%	10-139
Acenaphthene	ND	50.0	49.9	0.2	99.8%	10-124
Fluorene	ND	50.0	49.9	0.2	99.8%	10-142
Phenanthrene	ND	50.0	49.9	0.2	99.7%	10-155
Anthracene	ND	50.0	49.9	0.2	99.8%	10-126
Fluoranthene	ND	50.0	49.9	0.2	99.7%	14-123
Pyrene	ND	50.0	49.8	0.2	99.6%	10-140
Benzo[a]anthracene	ND	50.0	49.9	0.2	99.8%	10-116
Chrysene	ND	50.0	49.8	0.2	99.6%	12-135
Benzo(b)fluoranthene	ND	50.0	49.8	0.2	99.6%	10-199
Benzo[k]fluoranthene	ND	50.0	49.9	0.2	99.8%	10-150
Benzo(a)pyrene	ND	50.0	49.8	0.2	99.6%	10-159
Indeno[1,2,3]pyrene	ND	50.0	49.8	0.2	99.6%	10-128
Dibenzo[a,h]anthracene	ND	50.0	49.8	0.2	99.6%	10-110
Benzo(g,h,i)perylene	ND	50.0	49.9	0.2	99.8%	10-116

ND - Parameter not detected at the stated detection limit.

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
SW-846, USEPA, September 1986.

Comments: **QA/QC for Sample 45396.**

Analyst

Review

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Hall Environmental Analysis Laboratory, Inc.

Date: *22-May-08*

CLIENT:	Envirotech	**Client Sample ID:**	45396 - Composite
Lab Order:	0805250	**Collection Date:**	5/9/2008 8:30:00 AM
Project:	Basin Disposal	**Date Received:**	5/16/2008
Lab ID:	0805250-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8310: PAHS						Analyst: DMF
Naphthalene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
1-Methylnaphthalene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
2-Methylnaphthalene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
Acenaphthylene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
Acenaphthene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
Fluorene	ND	0.15		mg/Kg	5	5/21/2008 4:27:11 PM
Phenanthrene	ND	0.075		mg/Kg	5	5/21/2008 4:27:11 PM
Anthracene	ND	0.075		mg/Kg	5	5/21/2008 4:27:11 PM
Fluoranthene	ND	0.10		mg/Kg	5	5/21/2008 4:27:11 PM
Pyrene	ND	0.12		mg/Kg	5	5/21/2008 4:27:11 PM
Benz(a)anthracene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Chrysene	ND	0.055		mg/Kg	5	5/21/2008 4:27:11 PM
Benzo(b)fluoranthene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Benzo(a)pyrene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Benzo(g,h,i)perylene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Surr: Benzo(e)pyrene	90.0	40.7-93.1		%REC	5	5/21/2008 4:27:11 PM
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Toluene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Naphthalene	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	5/20/2008 7:40:20 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	5/20/2008 7:40:20 PM
Acetone	ND	0.75		mg/Kg	1	5/20/2008 7:40:20 PM
Bromobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Bromoform	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Bromomethane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
2-Butanone	ND	0.50		mg/Kg	1	5/20/2008 7:40:20 PM
Carbon disulfide	ND	0.50		mg/Kg	1	5/20/2008 7:40:20 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
Chlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Chloroethane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *22-May-08*

CLIENT:	Envirotech	**Client Sample ID:**	45396 - Composite
Lab Order:	0805250	**Collection Date:**	5/9/2008 8:30:00 AM
Project:	Basin Disposal	**Date Received:**	5/16/2008
Lab ID:	0805250-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						**Analyst: BDH**
Chloroform	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Chloromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Dibromomethane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
2-Hexanone	ND	0.50		mg/Kg	1	5/20/2008 7:40:20 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	5/20/2008 7:40:20 PM
Methylene chloride	0.22	0.15		mg/Kg	1	5/20/2008 7:40:20 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Styrene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-May-08*

CLIENT:	Envirotech	**Client Sample ID:**	45396 - Composite
Lab Order:	0805250	**Collection Date:**	5/9/2008 8:30:00 AM
Project:	Basin Disposal	**Date Received:**	5/16/2008
Lab ID:	0805250-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Vinyl chloride	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
Surr: 1,2-Dichloroethane-d4	95.8	80.2-109		%REC	1	5/20/2008 7:40:20 PM
Surr: 4-Bromofluorobenzene	94.3	86.8-117		%REC	1	5/20/2008 7:40:20 PM
Surr: Dibromofluoromethane	141	67.4-173		%REC	1	5/20/2008 7:40:20 PM
Surr: Toluene-d8	87.6	87.9-106	S	%REC	1	5/20/2008 7:40:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805250

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: MB-15990		*MBLK*			Batch ID:	15990	Analysis Date:	5/21/2008 12:27:18 PM	
Naphthalene	ND	mg/Kg	0.25						
1-Methylnaphthalene	ND	mg/Kg	0.25						
2-Methylnaphthalene	ND	mg/Kg	0.25						
Acenaphthylene	ND	mg/Kg	0.25						
Acenaphthene	ND	mg/Kg	0.25						
Fluorene	ND	mg/Kg	0.030						
Phenanthrene	ND	mg/Kg	0.015						
Anthracene	ND	mg/Kg	0.015						
Fluoranthene	ND	mg/Kg	0.020						
Pyrene	ND	mg/Kg	0.025						
Benz(a)anthracene	ND	mg/Kg	0.0040						
Chrysene	ND	mg/Kg	0.011						
Benzo(b)fluoranthene	ND	mg/Kg	0.0040						
Benzo(k)fluoranthene	ND	mg/Kg	0.0040						
Benzo(a)pyrene	ND	mg/Kg	0.0040						
Dibenz(a,h)anthracene	ND	mg/Kg	0.0040						
Benzo(g,h,i)perylene	ND	mg/Kg	0.0040						
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0040						
Sample ID: LCS-15990		*LCS*			Batch ID:	15990	Analysis Date:	5/21/2008 1:15:18 PM	
Naphthalene	0.8165	mg/Kg	0.25	81.6	30.1	90.4			
1-Methylnaphthalene	0.8232	mg/Kg	0.25	82.3	31.1	88.5			
2-Methylnaphthalene	0.8155	mg/Kg	0.25	81.6	32.2	89			
Acenaphthylene	0.7297	mg/Kg	0.25	73.0	29.5	94.2			
Acenaphthene	0.8172	mg/Kg	0.25	81.7	35.6	89.7			
Fluorene	0.07650	mg/Kg	0.030	76.5	36.9	90.7			
Phenanthrene	0.04375	mg/Kg	0.015	87.0	37.2	95.3			
Anthracene	0.03800	mg/Kg	0.015	75.5	37.4	95.4			
Fluoranthene	0.07825	mg/Kg	0.020	78.0	30.4	97.8			
Pyrene	0.08800	mg/Kg	0.025	88.0	33.3	100			
Benz(a)anthracene	0.008250	mg/Kg	0.0040	82.5	38.9	102			
Chrysene	0.04100	mg/Kg	0.011	81.5	24.2	100			
Benzo(b)fluoranthene	0.01000	mg/Kg	0.0040	80.0	35.5	102			
Benzo(k)fluoranthene	0.004750	mg/Kg	0.0040	76.0	30.4	101			
Benzo(a)pyrene	0.005000	mg/Kg	0.0040	79.6	29.6	112			
Dibenz(a,h)anthracene	0.01025	mg/Kg	0.0040	82.0	29.3	108			
Benzo(g,h,i)perylene	0.01050	mg/Kg	0.0040	84.0	21.3	116			
Indeno(1,2,3-cd)pyrene	0.02028	mg/Kg	0.0040	80.8	18.5	112			
Sample ID: LCSD-15990		*LCSD*			Batch ID:	15990	Analysis Date:	5/21/2008 2:03:16 PM	
Naphthalene	0.6345	mg/Kg	0.25	63.4	30.1	90.4	25.1	25.2	
1-Methylnaphthalene	0.6575	mg/Kg	0.25	65.8	31.1	88.5	22.4	23.5	
2-Methylnaphthalene	0.6460	mg/Kg	0.25	64.6	32.2	89	23.2	22.7	R
Acenaphthylene	0.5864	mg/Kg	0.25	58.6	29.5	94.2	21.8	18.8	R
Acenaphthene	0.6572	mg/Kg	0.25	65.7	35.6	89.7	21.7	19	R
Fluorene	0.06175	mg/Kg	0.030	61.8	36.9	90.7	21.3	21.4	

Qualifiers:

B	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805250

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: LCSD-15990		*LCSD*			**Batch ID:**	**15990**	**Analysis Date:**	**5/21/2008 2:03:16 PM**	
Phenanthrene	0.03650	mg/Kg	0.015	70.6	37.2	95.3	20.8	31.7	
Anthracene	0.03100	mg/Kg	0.015	61.6	37.4	95.4	20.3	18.3	R
Fluoranthene	0.06525	mg/Kg	0.020	65.1	30.4	97.8	18.1	23.8	
Pyrene	0.07100	mg/Kg	0.025	71.0	33.3	100	21.4	18.9	R
Benz(a)anthracene	0.006750	mg/Kg	0.0040	67.5	38.9	102	20.0	40	
Chrysene	0.03360	mg/Kg	0.011	66.6	24.2	100	20.1	33	
Benzo(b)fluoranthene	0.008250	mg/Kg	0.0040	66.0	35.5	102	19.2	38.2	
Benzo(k)fluoranthene	0.004000	mg/Kg	0.0040	64.0	30.4	101	17.1	28.2	
Benzo(a)pyrene	0.004000	mg/Kg	0.0040	63.7	29.6	112	22.2	35.5	
Dibenz(a,h)anthracene	0.008500	mg/Kg	0.0040	68.0	29.3	108	18.7	25.1	
Benzo(g,h,i)perylene	0.008500	mg/Kg	0.0040	68.0	21.3	116	21.1	20.5	R
Indeno(1,2,3-cd)pyrene	0.01620	mg/Kg	0.0040	64.5	18.5	112	22.3	23.1	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805250

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 0805250-01a msd		*MSD*			Batch ID:	**15983**	Analysis Date:		5/20/2008 8:49:58 PM
Benzene	1.193	mg/Kg	0.050	119	87.8	132	1.18	20	
Toluene	0.9845	mg/Kg	0.050	99.4	64.9	140	1.86	20	
Chlorobenzene	1.194	mg/Kg	0.050	119	77.6	128	1.74	20	
1,1-Dichloroethene	1.145	mg/Kg	0.050	114	64.6	163	8.74	20	
Trichloroethene (TCE)	0.6765	mg/Kg	0.050	67.7	47	115	5.36	20	
Sample ID: mb-15983		*MBLK*			Batch ID:	**15983**	Analysis Date:		5/21/2008 1:12:37 PM
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050						
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050						
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050						
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050						
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050						
Naphthalene	ND	mg/Kg	0.10						
1-Methylnaphthalene	ND	mg/Kg	0.20						
2-Methylnaphthalene	ND	mg/Kg	0.20						
Acetone	ND	mg/Kg	0.75						
Bromobenzene	ND	mg/Kg	0.050						
Bromodichloromethane	ND	mg/Kg	0.050						
Bromoform	ND	mg/Kg	0.050						
Bromomethane	ND	mg/Kg	0.10						
2-Butanone	ND	mg/Kg	0.50						
Carbon disulfide	ND	mg/Kg	0.50						
Carbon tetrachloride	ND	mg/Kg	0.10						
Chlorobenzene	ND	mg/Kg	0.050						
Chloroethane	ND	mg/Kg	0.10						
Chloroform	ND	mg/Kg	0.050						
Chloromethane	ND	mg/Kg	0.050						
2-Chlorotoluene	ND	mg/Kg	0.050						
4-Chlorotoluene	ND	mg/Kg	0.050						
cis-1,2-DCE	ND	mg/Kg	0.050						
cis-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10						
Dibromochloromethane	ND	mg/Kg	0.050						
Dibromomethane	ND	mg/Kg	0.10						
1,2-Dichlorobenzene	ND	mg/Kg	0.050						
1,3-Dichlorobenzene	ND	mg/Kg	0.050						
1,4-Dichlorobenzene	ND	mg/Kg	0.050						
Dichlorodifluoromethane	ND	mg/Kg	0.050						
1,1-Dichloroethane	ND	mg/Kg	0.10						
1,1-Dichloroethene	ND	mg/Kg	0.050						
1,2-Dichloropropane	ND	mg/Kg	0.050						
1,3-Dichloropropane	ND	mg/Kg	0.050						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Page 1

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805250

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: mb-16983		*MBLK*			**Batch ID:**	**16983**	**Analysis Date:**	**5/21/2008 1:12:37 PM**	
2,2-Dichloropropane	ND	mg/Kg	0.10						
1,1-Dichloropropene	ND	mg/Kg	0.10						
Hexachlorobutadiene	ND	mg/Kg	0.10						
2-Hexanone	ND	mg/Kg	0.50						
Isopropylbenzene	ND	mg/Kg	0.050						
4-Isopropyltoluene	ND	mg/Kg	0.050						
4-Methyl-2-pentanone	ND	mg/Kg	0.50						
Methylene chloride	ND	mg/Kg	0.15						
n-Butylbenzene	ND	mg/Kg	0.050						
n-Propylbenzene	ND	mg/Kg	0.050						
sec-Butylbenzene	ND	mg/Kg	0.050						
Styrene	ND	mg/Kg	0.050						
tert-Butylbenzene	ND	mg/Kg	0.050						
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050						
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050						
Tetrachloroethene (PCE)	ND	mg/Kg	0.050						
trans-1,2-DCE	ND	mg/Kg	0.050						
trans-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10						
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050						
1,1,1-Trichloroethane	ND	mg/Kg	0.050						
1,1,2-Trichloroethane	ND	mg/Kg	0.050						
Trichloroethene (TCE)	ND	mg/Kg	0.050						
Trichlorofluoromethane	ND	mg/Kg	0.050						
1,2,3-Trichloropropane	ND	mg/Kg	0.10						
Vinyl chloride	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: lcs-16983		*LCS*			**Batch ID:**	**16983**	**Analysis Date:**	**5/20/2008 7:05:36 PM**	
Benzene	1.193	mg/Kg	0.050	119	87.8	132			
Toluene	0.9658	mg/Kg	0.050	96.6	64.9	140			
Chlorobenzene	1.145	mg/Kg	0.050	114	77.6	128			
1,1-Dichloroethene	1.236	mg/Kg	0.050	124	64.6	163			
Trichloroethene (TCE)	0.6749	mg/Kg	0.050	67.5	47	115			
Sample ID: 0805250-01a ms		*MS*			**Batch ID:**	**16983**	**Analysis Date:**	**5/20/2008 8:15:21 PM**	
Benzene	1.207	mg/Kg	0.050	121	87.8	132			
Toluene	1.014	mg/Kg	0.050	101	64.9	140			
Chlorobenzene	1.173	mg/Kg	0.050	117	77.6	128			
1,1-Dichloroethene	1.249	mg/Kg	0.050	125	64.6	163			
Trichloroethene (TCE)	0.7138	mg/Kg	0.050	71.4	47	115			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ENVIROTECH | Date Received: 5/16/2008

Work Order Number 0805250 | Received by: AT

Checklist completed by: _____ 5/16/08 | Sample ID labels checked by: _____

Signature | Date | Initials

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted	☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	4°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: ENVIROTECH

Address: 5796 US HWY 64

FARMINGTON, NM 87401

Phone #: 505 632 0615

email or ~~Fax#~~: cwalters@envirotech-inc.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush _____

Project Name: BASIN DISPOSAL

Project #: 03058-0004

Project Manager: CHRISTINE WALTERS

Sampler: G. CRABTREE

On Ice: ☒ Yes ☐ No

Sample Temperature: 4°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
5/9/08	0830	453946-COMPOSITE	1-4oz	—	0805250-1	SEE ATTACHED LIST											

Date:	Time:	Relinquished by:	Received by:	Remarks:
5/15/08	10:45	Kendall Augustino	11:45 5/14/08	REF PO# 96008
Date:	Time:	Relinquished by:	Received by:	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

ENVIROTECH LABS

ANALYTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8270
TCLP PHENOLS

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Chain of Custody:	4361	Date Received:	05-09-08
Sample Matrix:	Soil	Date Extracted:	05-14-08
Preservative:	Cool	Date Analyzed:	05-20-08
Condition:	Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	**ND**	**0.020**	**200**
p,m-Cresol	**ND**	**0.020**	**200**
2,4,6-Trichlorophenol	**ND**	**0.020**	**2.0**
2,4,5-Trichlorophenol	**ND**	**0.020**	**400**
Pentachlorophenol	**ND**	**0.020**	**100**

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	**99.0%**
	2,4,6-Tribromophenol	**99.0%**

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Basin Yard Tank Storage.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER ENVIRONMENT

EPA METHOD 8270
TCLP PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-20-TCA QA/QC	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-20-08
Condition:	N/A	Analysis Requested:	TCLP

Blanks & Duplicate Conc (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	Percent Diff.
o-Cresol	ND	ND	0.020	ND	ND	0.0%
p,m-Cresol	ND	ND	0.020	ND	ND	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	ND	ND	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	ND	ND	0.0%
Pentachlorophenol	ND	ND	0.020	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8041, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Comments: **QA/QC for Sample 45396.**

Analyst

Review

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Hall Environmental Analysis Laboratory, Inc.

Date: *09-Jun-08*

CLIENT:	Envirotech	**Client Sample ID:**	45396-Composite
Lab Order:	0805177	**Collection Date:**	5/9/2008 9:00:00 AM
Project:	Basin Disposal	**Date Received:**	5/13/2008
Lab ID:	0805177-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **JMP**
Aroclor 1016	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1221	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1232	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1242	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1248	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1254	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1260	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Surr: Decachlorobiphenyl	42.4	15.8-133		%REC	1	5/21/2008 4:30:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0805177
Lab ID: C08050691-001
Client Sample ID: 45396-Composite

Report Date: 06/06/08
Collection Date: 05/09/08 09:00
DateReceived: 05/15/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Uranium	1.6	mg/kg-dry		0.5		SW6020	05/31/08 04:26 / ts
RADIONUCLIDES - TOTAL							
Radium 226	1.6	pCi/g-dry				E903.0	06/04/08 11:09 / trs
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	06/04/08 11:09 / trs
Radium 226 MDC	0.1	pCi/g-dry				E903.0	06/04/08 11:09 / trs
Radium 228	0.4	pCi/g-dry	U			RA-05	05/30/08 09:57 / plj
Radium 228 precision (±)	0.4	pCi/g-dry				RA-05	05/30/08 09:57 / plj
Radium 228 MDC	0.6	pCi/g-dry				RA-05	05/30/08 09:57 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: Hall Environmental
Project: 0805177

Report Date: 06/06/08
Work Order: C08050691

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									**Batch:** 18648
Sample ID: LCS-18648	Laboratory Control Sample				Run: BERTHOLD 770_080527B				06/04/08 11:09
Radium 226	0.014	pCi/L		97	70	130			
Sample ID: MB-18648	Method Blank				Run: BERTHOLD 770_080527B				06/04/08 11:09
Radium 226	-0.0010	pCi/L							U
Sample ID: C08050691-001BMS	Sample Matrix Spike				Run: BERTHOLD 770_080527B				06/04/08 11:09
Radium 226	4.1	pCi/g-dry		67	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08050691-001BMSD	Sample Matrix Spike Duplicate				Run: BERTHOLD 770_080527B				06/04/08 11:09
Radium 226	3.4	pCi/L		48	70	130	18	24.3	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Method: RA-05									**Batch:** 18648
Sample ID: LCS-18648	Laboratory Control Sample				Run: TENNELEC-3_080527A				05/30/08 09:57
Radium 228	0.019	pCi/g-dry		113	70	130			
Sample ID: MB-18648	Method Blank				Run: TENNELEC-3_080527A				05/31/08 09:57
Radium 228	0.0002	pCi/g-dry							U
Sample ID: C08050691-001BMS	Sample Matrix Spike				Run: TENNELEC-3_080527A				05/30/08 09:57
Radium 228	5.3	pCi/g-dry		102	70	130			
Sample ID: C08050691-001BMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_080527A				05/30/08 09:57
Radium 228	4.6	pCi/g-dry		88	70	130	14	31.1	
Method: SW6020									**Batch:** 18660
Sample ID: MB-18660	Method Blank				Run: ICPMS2-C_080530A				05/31/08 04:18
Uranium	0.0002	mg/kg-dry	1E-06						
Sample ID: LCS3-18660	Laboratory Control Sample				Run: ICPMS2-C_080530A				05/31/08 04:22
Uranium	1.92	mg/kg-dry	0.50	119	80	120			
Sample ID: C08050805-014AMS3	Sample Matrix Spike				Run: ICPMS2-C_080530A				05/31/08 05:12
Uranium	702	mg/kg-dry	0.50		75	125			A
Sample ID: C08050805-014AMSD3	Sample Matrix Spike Duplicate				Run: ICPMS2-C_080530A				05/31/08 05:18
Uranium	600	mg/kg-dry	0.50		75	125	16	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805177

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8082: PCB's									
Sample ID: MB-15982		*MBLK*			Batch ID:	**15982**	Analysis Date:		5/21/2008 11:34:50 AM
Aroclor 1016	ND	mg/Kg	0.020						
Aroclor 1221	ND	mg/Kg	0.020						
Aroclor 1232	ND	mg/Kg	0.020						
Aroclor 1242	ND	mg/Kg	0.020						
Aroclor 1248	ND	mg/Kg	0.020						
Aroclor 1254	ND	mg/Kg	0.020						
Aroclor 1260	ND	mg/Kg	0.020						
Sample ID: LCS-15982		*LCS*			Batch ID:	**15982**	Analysis Date:		5/21/2008 12:25:38 PM
Aroclor 1260	0.05340	mg/Kg	0.020	42.7	23.7	105			
Sample ID: LCSD-15982		*LCSD*			Batch ID:	**15982**	Analysis Date:		5/21/2008 1:14:12 PM
Aroclor 1260	0.05590	mg/Kg	0.020	44.7	23.7	105	4.57	20	

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ENVIROTECH | Date Received: 5/13/2008

Work Order Number 0805177 | Received by: ARS

Checklist completed by: _____ 5/13/08 | Sample ID labels checked by: AR

Signature | Date | Initials

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted	☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	6°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Correct time for sample is 9:00 am as per CW. 5/13

Corrective Action _____

Chain-of-Custody Record

Client: ENVIROTECH

Address: 5796 US HWY 64
FARMINGTON, NM 87401

Phone #: 505 632 0615

email or ~~Fax#~~: cwalters@envirotech-inc.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: BASIN DISPOSAL

Project #: 03058-0004

Project Manager: CHRISTINE WALTERS

Sampler: Greg Crabtree

On Ice: ☒ Yes ☐ No

Sample Temperature: 6°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0805177	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	URANIUM	RADIUM	PCB		Air Bubbles (Y or N)
5/9/08	0900	45396 - COMPOSITE	2-4oz jars	cool	1												X	X	X		

Date:	Time:	Relinquished by:	Received by:	Remarks:
5/12/08	10:30		8:30 5/13/08	REF PO# 9578
Date:	Time:	Relinquished by:	Received by:	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

CHAIN OF CUSTODY RECORD

Client:	Project Name / Location:
Basin Disposal	Basin Yard Tank Storage
Client Address:	Sampler Name: G. Crabtree
Client Phone No.:	Client No.: 03058-0004

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HNO_3	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion pH, NO_3, Cl, SO_4, TDS	RCI	TCLP with H/P	PAH	TPH (418.1)	Cyanide	Uranium Radium 226 + 228 PCB	8100 PAH	8041 Phenols	Sample Cool	Sample Intact
Composite	5/9/08	0900	45396	Soil	5-1608			✓		✓	✓						✓✓	✓✓	✓	✓	✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Greg Crabtree	5/9/08	1615	Christine M Walters	5/9/08	1615
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

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division

April 2, 2008

Mr. John Volkerding
General Manager
Basin Disposal, Inc.
P.O. Box 100
Aztec, NM 87410

RE: $15,000 Cash Bond for Commercial Surface Waste Management Facility
Permit NM-1-005
Basin Disposal, Inc., Principal
Citizens Bank, Financial Institution
Facility Location: SE/4 NW/4 of Section 3, Township 29 North, Range 11 West NMPM, San Juan County, New Mexico
C.D. No. 0112967820

Dear Mr. Volkerding:

The New Mexico Oil Conservation Division (OCD) hereby approves the above-referenced Commercial Waste Management Facility Cash Bond.

Should you have any questions, please feel free to call the undersigned at (505) 476-3450.

Very truly yours,

David K. Brooks

David K. Brooks
Assistant General Counsel

DKB/baj

cc: Ms. Michelle Lindsay
Citizens Bank
500 W. Broadway
Farmington, New Mexico 87401

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division

April 1, 2008

Mr. John Volkerding
General Manager
Basin Disposal, Inc.
P.O. Box 100
Aztec, NM 87410

RE: Basin Disposal, Inc. – Permit Modification Request
Commercial Surface Waste Management Facility Permit NM-1-005
Facility Location: SE/4 NW/4 of Section 3, Township 29 North, Range 11 West
NMPM, San Juan County, New Mexico

Dear Mr. Volkerding:

The New Mexico Oil Conservation Division (OCD) has received and reviewed Basin Disposal Inc.'s request, dated March 28, 2008 and the revisions provided March 31, 2008, to temporary place twenty-five (25) 400 barrel tanks within a lined and bermed area for the temporary storage of produced water. The request has been submitted under the emergency exception provision of Subsection B of Section 19 of 19.15.36 NMAC. The emergency exception is the temporary increase of storage capacity in order to handle the backlog of produced removal due to poor weather conditions and the compliance of operators with the Bureau of Land Management's regulations regarding use of roads during inclement weather. This modification request is hereby approved under the following conditions and understandings:

1. Basin Disposal, Inc. shall submit an additional $15,000 of financial assurance for OCD's review and approval prior to initiating any work or activities associated with this approval.

2. Basin Disposal, Inc. shall place no more than twenty-five (25) 400 bbls closed top tanks within the lined bermed area, as identified in the March 28, 2008 request.

3. Basin Disposal, Inc. shall construct a temporary storage area with a footprint no greater than 150' by 150', which shall be lined with a 20-mil LLDPE/HDPE or equivalent liner and have a design capacity of 12,000 barrels pursuant to the March 28, 2008 submittal and March 31, 2008 revisions.

4. Prior to the installation of the 25 tanks, Basin Disposal, Inc. shall inspect the integrity of the existing liner and replace or repair any comprised lined areas.

5. Basin Disposal, Inc. shall construct the temporary storage area in manner to control stormwater run-on and control stormwater run-off.

6. Basin Disposal, Inc. shall install the tanks in a manner to protect migratory birds, for tanks exceeding eight feet in diameter.

7. Basin Disposal, Inc. shall construct and install a 20-mil LLDPE/HDPE or equivalent lined and bermed area to connect and install a 4" hose to transfer produced water from the evaporation pond to the temporary tanks and from the tanks back into the evaporation pond pursuant to the March 28, 2008 submittal and March 31, 2008 revisions.

8. Basin Disposal, Inc. shall inspect the tanks, temporary storage area, and transfer hose daily for integrity, spills, and releases pursuant to the March 28, 2008 submittal and March 31, 2008 revisions.

9. Basin Disposal, Inc. shall operate the temporary storage area and manage all waste associated with the temporary modification pursuant to the March 28, 2008 submittal, the revisions provided March 31, 2008, and 19.15.36 NMAC.

10. Basin Disposal, Inc. shall comply with the revisions and additions provided in the March 28, 2008 submittal and March 31, 2008 revisions to the Oil Field Waste Management SOP, H2S Prevention SOP, Closure Plan, Contingency Plan, and the Spill Prevention Control and Countermeasures Policy.

11. Basin Disposal, Inc. shall *discontinue the use of the temporary storage area, remove the temporary tanks, and initiate the closure plan* ***within six months*** *of the effective date of this approval.*

12. Basin Disposal, Inc. shall complete the closure of the area impacted from the activities associated with the temporary modification pursuant the Subsection E of 19.15.36 NMAC and the closure plan of the March 28, 2008 submittal and the additional revisions provided March 31, 2008. *Such closure activities as the testing and removal of soils above the liner, the removal and disposal of the liner, and the testing of the soils beneath the liner shall be completed* ***within nine months*** *of the effective date of this approval.*

13. Basin Disposal, Inc. shall demonstrate that the area impacted from the activities associated with the temporary modification is restored, that no contamination is present, and that the closure is complete to OCD's satisfaction. Upon review, confirmation, and approval of closure, OCD will release the financial assurance associated with the temporary modification.

Please be advised that OCD approval does not relieve the Basin Disposal, Inc. of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the Basin Disposal, Inc. of responsibility for compliance with any other federal, state, or local laws and/or regulations

If you have any questions regarding this matter, please contact Brad A Jones of my staff at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Wayne Price
Environmental Bureau Chief

LWP/baj
cc: OCD District III Office, Aztec

John Volkerding

From: John Volkerding [bdinc@digii.net]

Sent: Friday, March 28, 2008 11:10 AM

To: OCD Santa Fe- Wayne Price (wayne.price@state.nm.us); OCD Santa Fe- Brad Jones (brad.a.jones@state.nm.us)

Subject: Cash Bond for Waste Management Facilities: $15,000

Attachments: Temp Tanks 3-28-08 - Financial Ass Ltr.pdf; Tank 15K Financial Assurance.pdf

Wayne and Brad;

Attached please find a pdf format of Cash Bond for Waste Management Facilities in the amount of $15,000. The original will be placed in the US Mail today.

Have a good weekend, John

John Volkerding
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936

BASIN DISPOSAL, INC.

28 March 2008 7004 2510 0005 9631 0836

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

RE: $15,000 Financial Assurance for
Exception under 19.15.36.19 B NMAC
For 25 Water Storage Tanks

Dear Mr. Jones;

Attached please find a pdf format of Cash Bond for Waste Management Facilities in the amount of $15,000. The original will be placed in the US Mail today.

If you have any questions, please feel free to phone me at 334-3013 or 320-2840 or via email at bdinc@digii.net.

Sincerely;

John Volkerding
General Manager

Encl: Cash Bond for Waste Management Facilities

Cc: Brandon Powell, Aztec OCD Office, 1000 Rio Brazos, Aztec, NM 87410

Energy, Minerals and Natural Resources Department
Oil Conservation Division

Cash Bond For Waste Management Facilities

(File with Oil Conservation Division, 1220 South Saint Francis, Santa Fe, New Mexico 87505)

KNOW ALL MEN BY THESE PRESENTS:

That Basin Disposal Inc. (an individual, partnership, or a corporation organized in the State of New Mexico, with its principal office in the City of Aztec, State of New Mexico and authorized to do business in the State of New Mexico), as PRINCIPAL is firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Division of the Energy, Minerals and Natural Resources Department (DIVISION) in the sum of Fifteen Thousand Dollars ($ 15,000 .00) Dollars.

The conditions of this obligation are such that:

The PRINCIPAL has heretofore or may hereafter enter into the collection, disposal, evaporation, remediation, reclamation, treatment or storage of produced water, drilling fluids, drill cuttings, completion fluids, contaminated soils, BS&W, tank bottoms, waste oil or other oil field related waste in Section 3, Township 29N, Range 11W, NMPM, San Juan County, New Mexico.

NOW, THEREFORE, this $ 15,000 bond is conditioned upon substantial compliance with all applicable statutes of the State of New Mexico and all rules and orders of the DIVISION and the Oil Conservation Commission, and upon clean-up of the facility site to standards of the DIVISION; otherwise the bond is to be forfeited to the Division.

The PRINCIPAL has deposited funds on behalf of the DIVISION in the amount of $15,000 .00 (Fifteen Thousand dollars) in the manner indicated on page 2 of this instrument, Assignment of Cash Collateral Deposit, to secure this bond. The PRINCIPAL pledges the funds as a guarantee that it, its executors, assigns, heirs and administrators will abide by the Statutes of the State of New Mexico and the rules and orders of the DIVISION in operating the waste management facility described herein, and that it will properly reclaim the facility site upon cessation of operations. If the PRINCIPAL does not properly reclaim and restore the facility site, and otherwise abide by the rules and orders of the DIVISION, this bond shall be forfeited in full and such funds as necessary applied to the cost of reclaiming the facility site. If the amount of the bond is less than the actual cost incurred by the DIVISION in reclaiming the facility site, the DIVISION may institute legal action against the PRINCIPAL to recover any amounts expended over and above the amount of the bond.

NOW THEREFORE, if the above PRINCIPAL or its successors, assigns, heirs, administrators or any of them shall properly reclaim and restore the above-described facility site upon cessation of operations and otherwise abide by the rules and orders of the Division, then therefore, this obligation shall be null and void and the principal sum hereof shall be paid to the PRINCIPAL, or its successors, heirs, or administrator; otherwise it shall remain in full force and effect.

Assignment of Cash Collateral Deposit For Bond for Waste Management Facility

Pursuant to Rule 711 of the Rules of the Oil Conservation Division, or successor provisions, _____, (hereinafter "Principal"), of _____ (address) has deposited with the Citizens Bank (name of the financial institution, which must be a federally insured bank or savings institution within the state of New Mexico) of (address) (hereinafter "Financial Institution"), the sum of Fifteen Thousand ($ 15000 .00) dollars in Certificate of Deposit or savings account No. 0112967820. The Principal hereby assigns and conveys all right, title and interest in the deposited funds to the Financial Institution in trust for the Oil Conservation Division of the Energy, Minerals and Natural Resources Department (hereinafter "Division") or successor agency of the State of New Mexico. The Principal and the Financial Institution agree that as to the deposited funds:

a. The funds deposited pursuant to the terms of this Assignment are to serve as a cash bond covering a waste management facility operated by the Principal.

b. The Division acquires by this Assignment the entire beneficial interest in the funds with the right to order the Financial Institution, in writing, to distribute the fund to persons determined by the Division to be entitled thereto, including the Division itself, in amounts determined by the Division, or to the Principal upon sale of the facility covered by this Assignment provided all applicable Division orders and rules have been complied with regarding the waste management facility.

c. The Principal retains no legal or beneficial interest in the fund and has only the right to interest, if any, thereon, and to return of the fund upon written order of the Division in the event the Principal properly reclaims the facility site and otherwise abides by the rules and order of the Division and the Oil Conservation Commission.

d. The Financial Institution agrees that the funds may not be assigned, transferred pledged or distributed except upon written order of the Division or a court of competent jurisdiction made in a proceeding in which the Division is a party. The Financial Institution waives all statutory or common law liens or rights of set-off against the funds.

The Principal agrees that the Financial Institution may deduct from interest due the Principal any attorney fees incurred by the Financial Institution if claim or demand via writ, summons or other process arising from Principal's business is made upon the Financial Institution.

Signed this 28th day of March, 2008.

David C. Jr

Signature of PRINCIPAL, personally or by authorized officer

Secretary

Title

(Note: If PRINCIPAL is corporation, affix corporate seal here.)

P.O. Box 100 Aztec, NM 87410

Mailing Address

Signature of authorized officer of Financial Institution

Michelle Lindsay

Title AVP

500 W. Broadway Farmington NM 87401

Mailing Address

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF _____)
)SS.
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____, 2____, by

_____.

My commission expires:

_____ _____
Date Notary Public

ACKNOWLEDGMENT FORM FOR CORPORATION, INCORPORATED ASSOCIATION OR PARTNERSHIP

STATE OF New Mexico)
)SS.
COUNTY OF San Juan)

The foregoing instrument was acknowledged before me this 28th day of March, 2008, by David C. Turner as (title) Secretary Treas. of Basin Disposal Inc., a corporation, incorporated association, or partnership.

My commission expires:

2/28/2011
Date

Notary Public Sara C. DeBaca

3/28/2007

ACKNOWLEDGMENT FORM FOR FINANCIAL INSTITUTION

STATE OF New Mexico)
)SS.
COUNTY OF San Juan)

The foregoing instrument was acknowledged before me this 28th day of March, 2008, by Michelle Lindsay as (title) A.V.P on behalf of Citizens Bank, financial institution.

My commission expires:

2/28/2011
Date

Notary Public Sara C. DeBaca

3/28/2008

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

RECEIVED
2008 SEP 5 PM 2 24

2 September 2008

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

RE: Analytical Results:
Soil Beneath Liner in the Temporary Tank Storage Area Approved in March 2008

Dear Mr. Jones;

Attached please find the results for the lab analysis of the soil beneath the liner from the temporary tank storage area approved in March 2008.

If you have any questions, please feel free to phone me at 334-3013 or 320-2840 or via email at bdinc@digii.net.

Sincerely;

John Volkerding
General Manager2

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-29-08
Laboratory Number:	46392	Date Sampled:	07-15-08
Chain of Custody No:	4793	Date Received:	07-15-08
Sample Matrix:	Soil	Date Extracted:	07-25-08
Preservative:	Cool	Date Analyzed:	07-28-08
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)	**9.3**	**0.1**
Total Petroleum Hydrocarbons	**9.3**	**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: **Basin Yard**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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:	07-28-08 QA/QC	Date Reported:	07-29-08
Laboratory Number:	46472	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-28-08
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.0069E+003	1.0073E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-07-07	1.0110E+003	1.0114E+003	**0.04%**	**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	**9.4**	**9.3**	**1.1%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**246**	**98.4%**	**75 - 125%**
Diesel Range C10 - C28	**9.4**	**250**	**257**	**99.2%**	**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 46472 - 46473, 46492 - 46495, and 46392.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-23-08
Chain of Custody:	4793	Date Sampled:	07-15-08
Laboratory Number:	46392	Date Received:	07-15-08
Sample Matrix:	Soil	Date Analyzed:	07-23-08
Preservative:	Cool	Date Extracted:	07-23-08
Condition:	Cool and Intact	Analysis Requested:	8260 VOC

Parameter	Concentration	Units	Det. Limit	Dilution Factor
Benzene	ND	(ug/Kg)	1.0	1
Toluene	ND	(ug/Kg)	1.0	1
Ethylbenzene	ND	(ug/Kg)	1.0	1
Xylenes, Total	ND	(ug/Kg)	1.0	1
Methyl tert-butyl ether (MTBE)	ND	(ug/Kg)	1.0	1
1,2,4-Trimethylbenzene	ND	(ug/Kg)	1.0	1
1,3,5-Trimethylbenzene	ND	(ug/Kg)	1.0	1
1,2-Dichloroethane (EDC)	ND	(ug/Kg)	1.0	1
1,2-Dibromoethane (EDB)	ND	(ug/Kg)	1.0	1
Naphthalene	ND	(ug/Kg)	1.0	1
1-Methylnaphthalene	ND	(ug/Kg)	2.0	1
2-Methylnaphthalene	ND	(ug/Kg)	2.0	1
Bromobenzene	ND	(ug/Kg)	1.0	1
Bromochloromethane	ND	(ug/Kg)	1.0	1
Bromodichloromethane	ND	(ug/Kg)	1.0	1
Bromoform	ND	(ug/Kg)	1.0	1
Bromomethane	ND	(ug/Kg)	1.0	1
Carbon Tetrachloride	ND	(ug/Kg)	1.0	1
Chlorobenzene	ND	(ug/Kg)	1.0	1
Chloroethane	ND	(ug/Kg)	2.0	1
Chloroform	ND	(ug/Kg)	1.0	1
Chloromethane	ND	(ug/Kg)	1.0	1
2-Chlorotoluene	ND	(ug/Kg)	1.0	1
4-Chlorotoluene	ND	(ug/Kg)	1.0	1
cis-1,2-Dichloroethene	ND	(ug/Kg)	1.0	1
cis-1,3-Dichloropropene	ND	(ug/Kg)	1.0	1
1,2-Dibromo-3-chloropropane	ND	(ug/Kg)	2.0	1
Dibromochloromethane	ND	(ug/Kg)	1.0	1
Dibromoethane	ND	(ug/Kg)	2.0	1
1,2-Dichlorobenzene	ND	(ug/Kg)	1.0	1
1,3-Dichlorobenzene	ND	(ug/Kg)	1.0	1
1,4-Dichlorobenzene	ND	(ug/Kg)	1.0	1
Dichlorodifluoromethane	ND	(ug/Kg)	1.0	1
1,1-Dichloroethane	ND	(ug/Kg)	1.0	1
1,1-Dichloroethene	ND	(ug/Kg)	1.0	1
1,2-Dichloropropane	ND	(ug/Kg)	1.0	1
1,3-Dichloropropane	ND	(ug/Kg)	1.0	1
2,2-Dichloropropane	ND	(ug/Kg)	1.0	1

ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS

Client: Basin Disposal
Sample ID: Composite Under Liner

Laboratory Number: 46392

Parameter	Concentration (ug/Kg)	Units	Det. Limit	Dilution Factor
1,1-Dichloropropene	ND	(ug/Kg)	1.0	1
Hexachlorobutadiene	ND	(ug/Kg)	1.0	1
Isopropylbenzene	ND	(ug/Kg)	1.0	1
4-Isopropyltoluene	ND	(ug/Kg)	1.0	1
Methylene Chloride	ND	(ug/Kg)	3.0	1
n-Butylbenzene	ND	(ug/Kg)	1.0	1
n-Propylbenzene	ND	(ug/Kg)	1.0	1
sec-Butylbenzene	ND	(ug/Kg)	1.0	1
Styrene	ND	(ug/Kg)	1.0	1
tert-Butylbenzene	ND	(ug/Kg)	1.0	1
Tetrachloroethene (PCE)	ND	(ug/Kg)	1.0	1
1,1,1,2-Tetrachloroethane	ND	(ug/Kg)	1.0	1
1,1,2,2-Tetrachloroethane	ND	(ug/Kg)	1.0	1
trans-1,2-Dichloroethene	ND	(ug/Kg)	1.0	1
trans-1,3-Dichloropropene	ND	(ug/Kg)	1.0	1
Trichloroethene (TCE)	ND	(ug/Kg)	1.0	1
Trichlorofluoromethane	ND	(ug/Kg)	1.0	1
1,2,3-Trichlorobenzene	ND	(ug/Kg)	1.0	1
1,2,4-Trichlorobenzene	ND	(ug/Kg)	1.0	1
1,1,1-Trichloroethane	ND	(ug/Kg)	1.0	1
1,1,2-Trichloroethane	ND	(ug/Kg)	1.0	1
1,2,3-Trichloropropane	ND	(ug/Kg)	2.0	1
Vinyl Chloride	ND	(ug/Kg)	2.0	1

Surrogates:			Rec. Limits	
Dibromofluoromethane	97.0	% Recovery	78.6-115	1
1,2-Dichloroethane-d4	105	% Recovery	74.6-123	1
Toluene-d8	105	% Recovery	84.2-115	1
4-Bromofluorobenzene	103	% Recovery	78.6-115	1

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8260,Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry,Test Methods for Evaluating Solid Waste,SW-846, USEPA, July 1992

Comments: **Basin Yard.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-25-08
Laboratory Number:	07-23 VOA	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-08
Condition:	N/A	Analysis Requested:	8260 VOC

Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
Benzene	ND	(ug/L)	1.0	1
Toluene	ND	(ug/L)	1.0	1
Ethylbenzene	ND	(ug/L)	1.0	1
Xylenes, Total	ND	(ug/L)	1.0	1
Methyl tert-butyl ether (MTBE)	ND	(ug/L)	1.0	1
1,2,4-Trimethylbenzene	ND	(ug/L)	1.0	1
1,3,5-Trimethylbenzene	ND	(ug/L)	1.0	1
1,2-Dichloroethane (EDC)	ND	(ug/L)	1.0	1
1,2-Dibromoethane (EDB)	ND	(ug/L)	1.0	1
Naphthalene	ND	(ug/L)	1.0	1
1-Methylnaphthalene	ND	(ug/L)	2.0	1
2-Methylnaphthalene	ND	(ug/L)	2.0	1
Bromobenzene	ND	(ug/L)	1.0	1
Bromochloromethane	ND	(ug/L)	1.0	1
Bromodichloromethane	ND	(ug/L)	1.0	1
Bromoform	ND	(ug/L)	1.0	1
Bromomethane	ND	(ug/L)	1.0	1
Carbon Tetrachloride	ND	(ug/L)	1.0	1
Chlorobenzene	ND	(ug/L)	1.0	1
Chloroethane	ND	(ug/L)	2.0	1
Chloroform	ND	(ug/L)	1.0	1
Chloromethane	ND	(ug/L)	1.0	1
2-Chlorotoluene	ND	(ug/L)	1.0	1
4-Chlorotoluene	ND	(ug/L)	1.0	1
cis-1,2-Dichloroethene	ND	(ug/L)	1.0	1
cis-1,3-Dichloropropene	ND	(ug/L)	1.0	1
1,2-Dibromo-3-chloropropane	ND	(ug/L)	2.0	1
Dibromochloromethane	ND	(ug/L)	1.0	1
Dibromoethane	ND	(ug/L)	2.0	1
1,2-Dichlorobenzene	ND	(ug/L)	1.0	1
1,3-Dichlorobenzene	ND	(ug/L)	1.0	1
1,4-Dichlorobenzene	ND	(ug/L)	1.0	1
Dichlorodifluoromethane	ND	(ug/L)	1.0	1
1,1-Dichloroethane	ND	(ug/L)	1.0	1
1,1-Dichloroethene	ND	(ug/L)	1.0	1
1,2-Dichloropropane	ND	(ug/L)	1.0	1
1,3-Dichloropropane	ND	(ug/L)	1.0	1
2,2-Dichloropropane	ND	(ug/L)	1.0	1

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Quality Assurance Report

Client: QA/QC
Sample ID: Laboratory Blank

Laboratory Number: 07-23 VOA

Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
1,1-Dichloropropene	ND	(ug/L)	1.0	1
Hexachlorobutadiene	ND	(ug/L)	1.0	1
Isopropylbenzene	ND	(ug/L)	1.0	1
4-Isopropyltoluene	ND	(ug/L)	1.0	1
Methylene Chloride	ND	(ug/L)	1.0	1
n-Butylbenzene	ND	(ug/L)	1.0	1
n-Propylbenzene	ND	(ug/L)	1.0	1
sec-Butylbenzene	ND	(ug/L)	1.0	1
Styrene	ND	(ug/L)	1.0	1
tert-Butylbenzene	ND	(ug/L)	1.0	1
Tetrachloroethene (PCE)	ND	(ug/L)	1.0	1
1,1,1,2-Tetrachloroethane	ND	(ug/L)	1.0	1
1,1,2,2-Tetrachloroethane	ND	(ug/L)	1.0	1
trans-1,2-Dichloroethene	ND	(ug/L)	1.0	1
trans-1,3-Dichloropropene	ND	(ug/L)	1.0	1
Trichloroethene (TCE)	ND	(ug/L)	1.0	1
Trichlorofluoromethane	ND	(ug/L)	1.0	1
1,2,3-Trichlorobenzene	ND	(ug/L)	1.0	1
1,2,4-Trichlorobenzene	ND	(ug/L)	1.0	1
1,1,1-Trichloroethane	ND	(ug/L)	1.0	1
1,1,2-Trichloroethane	ND	(ug/L)	1.0	1
1,2,3-Trichloropropane	ND	(ug/L)	2.0	1
Vinyl Chloride	ND	(ug/L)	2.0	1

Surrogates:			Rec. Limits	
Dibromofluoromethane	104	% Recovery	78.6-115	1
1,2-Dichloroethane-d4	110	% Recovery	74.6-123	1
Toluene-d8	110	% Recovery	84.2-115	1
4-Bromofluorobenzene	102	% Recovery	78.6-115	1

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8260,Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry,Test Methods for Evaluating Solid Waste,SW-846, USEPA, July 1992

Comments: **QA/QC for Sample 46392.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Daily Calibration Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Daily Calibration	Date Reported:	07-25-08
Laboratory Number:	07-23 QA/QC	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-08
Condition:	N/A	Analysis Requested:	8260 VOC

Parameter	Concentration (ug/L)	Result	% Recovered	% Recovery Limits
Benzene	100	100	100	80 - 120
Toluene	100	109	109	80 - 120
Ethylbenzene	100	104	104	80 - 120
Xylenes, Total	100	83.8	83.8	80 - 120
Methyl tert-butyl ether (MTBE)	100	101	101	80 - 120
1,2,4-Trimethylbenzene	100	106	106	80 - 120
1,3,5-Trimethylbenzene	100	100	100	80 - 120
1,2-Dichloroethane (EDC)	100	95.8	95.8	80 - 120
1,2-Dibromoethane (EDB)	100	109	109	80 - 120
Naphthalene	100	113	113	80 - 120
1-Methylnaphthalene	100	94.9	94.9	80 - 120
2-Methylnaphthalene	100	96.0	96.0	80 - 120
Bromobenzene	100	107	107	80 - 120
Bromochloromethane	100	97.6	97.6	80 - 120
Bromodichloromethane	100	96.0	96.0	80 - 120
Bromoform	100	105	105	80 - 120
Bromomethane	100	98.9	98.9	80 - 120
Carbon Tetrachloride	100	94.0	94.0	80 - 120
Chlorobenzene	100	108	108	80 - 120
Chloroethane	100	105	105	80 - 120
Chloroform	100	91.2	91.2	80 - 120
Chloromethane	100	112	112	80 - 120
2-Chlorotoluene	100	107	107	80 - 120
4-Chlorotoluene	100	113	113	80 - 120
cis-1,2-Dichloroethene	100	110	110	80 - 120
cis-1,3-Dichloropropene	100	101	101	80 - 120
1,2-Dibromo-3-chloropropane	100	115	115	80 - 120
Dibromochloromethane	100	103	103	80 - 120
Dibromoethane	100	105	105	80 - 120
1,2-Dichlorobenzene	100	113	113	80 - 120
1,3-Dichlorobenzene	100	109	109	80 - 120
1,4-Dichlorobenzene	100	107	107	80 - 120
Dichlorodifluoromethane	100	99.9	99.9	80 - 120
1,1-Dichloroethane	100	97.5	97.5	80 - 120
1,1-Dichloroethene	100	98.3	98.3	80 - 120
1,2-Dichloropropane	100	103	103	80 - 120
1,3-Dichloropropane	100	107	107	80 - 120
2,2-Dichloropropane	100	98.2	98.2	80 - 120

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Quality Assurance Report

Client: QA/QC
Sample ID: Daily Calibration
Laboratory Number: 07-23 QA/QC

Parameter	Concentration (ug/L)	Result	% Recovered	% Recovery Limits
1,1-Dichloropropene	100	98.2	98.2	80 - 120
Hexachlorobutadiene	100	91.0	91.0	80 - 120
Isopropylbenzene	100	105	105	80 - 120
4-Isopropyltoluene	100	107	107	80 - 120
Methylene Chloride	100	97.5	97.5	80 - 120
n-Butylbenzene	100	108	108	80 - 120
n-Propylbenzene	100	103	103	80 - 120
sec-Butylbenzene	100	107	107	80 - 120
Styrene	100	105	105	80 - 120
tert-Butylbenzene	100	109	109	80 - 120
Tetrachloroethene (PCE)	100	104	104	80 - 120
1,1,1,2-Tetrachloroethane	100	105	105	80 - 120
1,1,2,2-Tetrachloroethane	100	114	114	80 - 120
trans-1,2-Dichloroethene	100	94.2	94.2	80 - 120
trans-1,3-Dichloropropene	100	102	102	80 - 120
Trichloroethene (TCE)	100	104	104	80 - 120
Trichlorofluoromethane	100	96.7	96.7	80 - 120
1,2,3-Trichlorobenzene	100	111	111	80 - 120
1,2,4-Trichlorobenzene	100	114	114	80 - 120
1,1,1-Trichloroethane	100	97.0	97.0	80 - 120
1,1,2-Trichloroethane	100	100	100	80 - 120
1,2,3-Trichloropropane	100	112	112	80 - 120
Vinyl Chloride	100	105	105	80 - 120

Surrogates:			Rec. Limits
Dibromofluoromethane	100	% Recovery	78.6-115
1,2-Dichloroethane-d4	110	% Recovery	74.6-123
Toluene-d8	91.3	% Recovery	84.2-115
4-Bromofluorobenzene	92.1	% Recovery	78.6-115

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8260,Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry,Test Methods for Evaluating Solid Waste,SW-846, USEPA, July 1992

Comments: **QA/QC for Sample 46392.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8260B
Volatile Organic Compounds by GC/MS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spikes	Date Reported:	07-25-08
Laboratory Number:	07-23-VOA - 46392	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-08
Condition:	N/A	Analysis Requested:	8260 VOC

Spike	Units: ug/Kg				Recovery	Det.
Analyte	Sample	Added	Result	%Recovery	Limits	Limit
Benzene	ND	100.0	101	101%	85.3 - 120	1.0
Toluene	ND	100.0	101	101%	73 - 123	1.0
Chlorobenzene	ND	100.0	102	102%	84.7 - 119	1.0
1,1-Dichloroethene	ND	100.0	115	115%	83.4 - 122	1.0
Trichloroethene (TCE)	ND	100.0	97.9	97.9%	76.1 - 126	1.0

Spike Duplicate	Units: ug/Kg				Recovery	Det.
Analyte	Sample	Added	Result	%Recovery	Limits	Limit
Benzene	ND	100.0	106	106%	85.3 - 120	1.0
Toluene	ND	100.0	100	99.9%	73 - 123	1.0
Chlorobenzene	ND	100.0	95.1	95.1%	84.7 - 119	1.0
1,1-Dichloroethene	ND	100.0	115	115%	83.4 - 122	1.0
Trichloroethene (TCE)	ND	100.0	102	102%	76.1 - 126	1.0

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8260,Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry,Test Methods for Evaluating Solid Waste,SW-846, USEPA, July 1992

Comments: **QA/QC for Sample 46392.**

Analyst _____ Review _____

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-25-08
Laboratory Number:	46392	Date Sampled:	07-15-08
Chain of Custody:	4793	Date Received:	07-15-08
Sample Matrix:	Soil	Date Analyzed:	07-23-08
Preservative:	Cool	Date Digested:	07-18-08
Condition:	Cool & Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	**0.003**	**0.001**
Barium	**10.5**	**0.001**
Cadmium	**0.002**	**0.001**
Chromium	**0.033**	**0.001**
Copper	**0.316**	**0.001**
Iron	**55.8**	**0.001**
Lead	**0.062**	**0.001**
Mercury	**ND**	**0.001**
Manganese	**4.05**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**
Zinc	**0.170**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Basin Yard.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-23-TM QA/QC	Date Reported:	07-25-08
Laboratory Number:	46392	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	07-23-08
Condition:	N/A	Date Digested:	07-18-08

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Barium	ND	ND	0.001	10.5	10.4	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.033	0.038	14.6%	0% - 30%
Copper	ND	ND	0.001	0.316	0.315	0.5%	0% - 30%
Iron	ND	ND	0.001	55.8	58.0	3.9%	0% - 30%
Lead	ND	ND	0.001	0.062	0.064	2.6%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Manganese	ND	ND	0.001	4.05	4.50	11.2%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Zinc	ND	ND	0.001	0.170	0.179	5.5%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	0.003	0.254	100.4%	80% - 120%
Barium	0.500	10.5	11.2	102%	80% - 120%
Cadmium	0.250	0.002	0.255	101%	80% - 120%
Chromium	0.500	0.033	0.504	95%	80% - 120%
Copper	0.500	0.316	0.854	105%	80% - 120%
Iron	0.500	55.8	56.7	101%	80% - 120%
Lead	0.500	0.062	0.577	103%	80% - 120%
Mercury	0.100	ND	0.099	99.0%	80% - 120%
Manganese	0.500	4.05	4.65	102%	80% - 120%
Selenium	0.100	ND	0.097	97.0%	80% - 120%
Silver	0.100	ND	0.101	101%	80% - 120%
Zinc	0.500	0.170	0.700	105%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for Sample 46392.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-21-08
Laboratory Number:	46392	Date Sampled:	07-15-08
Sample Matrix:	Soil Extract	Date Received:	07-15-08
Preservative:	Cool	Date Analyzed:	07-17-08
Condition:	Cool & Intact	Chain of Custody:	4793

Parameter	Analytical Result	Units
pH	7.34	su
Total Dissolved Solids @ 180C	864	mg/L
Nitrate Nitrogen	2.04	mg/L
Cyanide	<0.1	mg/L
Fluoride	0.485	mg/L
Chloride	55.2	mg/L
Sulfate	616	mg/L

Reference: U.S.E.P.A., 600/4-79-020, "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

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CHAIN OF CUSTODY RECORD

4793

Client:	Project Name / Location:
Basin Disposal	Basin Yard
Client Address: 200 Montana Rd Bloomfield	**Sampler Name:** G. Crabtree
Client Phone No.: (505) 486-3078	**Client No.:** 03058-0006

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HNO_3		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA ~~8~~ 12 Metals	Cation / Anion + NO3 pH SO4 CL TDS	RCI	TCLP with H/P	PAH	TPH (418.1)	Cyanide / Uranium	Radium 226+228 / PCBs	8100 PAH	8041 Phenols	Sample Cool	Sample Intact
Composite under liner	7/15/08	1235	46392	soil	2-4oz 1-16oz 1-bag				✓		✓	✓	✓					✓✓	✓✓	✓	✓	✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Greg Crabtree	7/15/08	1335	[signature]	7/15/08	1335
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8270
PHENOLS

Client:	Basin Disposal	Project #:	03058-0006
Sample ID:	Composite Under Liner	Date Reported:	07-25-08
Laboratory Number:	46392	Date Sampled:	07-15-08
Chain of Custody:	4793	Date Received:	07-15-08
Sample Matrix:	Soil	Date Extracted:	07-22-08
Preservative:	Cool	Date Analyzed:	07-24-08
Condition:	Intact	Analysis Requested:	Phenols

Parameter	Concentration (mg/Kg)	Detection Limit (mg/Kg)	Regulatory Limit (mg/Kg)
o-Cresol	**ND**	**0.005**	**200**
p,m-Cresol	**ND**	**0.005**	**200**
2,4,6-Trichlorophenol	**ND**	**0.005**	**2.0**
2,4,5-Trichlorophenol	**ND**	**0.005**	**400**
Pentachlorophenol	**ND**	**0.005**	**100**

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	**98.0%**
	2,4,6-Tribromophenol	**97.0%**

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8270, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Basin Yard.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8270
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-24-TCA QA/QC	Date Reported:	07-25-08
Laboratory Number:	46392	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-24-08
Condition:	N/A	Analysis Requested:	Phenols

Blanks & Duplicate Conc (mg/Kg)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	Percent Diff.
o-Cresol	**ND**	**ND**	**0.005**	**ND**	**ND**	**0.0%**
p,m-Cresol	**ND**	**ND**	**0.005**	**ND**	**ND**	**0.0%**
2,4,6-Trichlorophenol	**ND**	**ND**	**0.005**	**ND**	**ND**	**0.0%**
2,4,5-Trichlorophenol	**ND**	**ND**	**0.005**	**ND**	**ND**	**0.0%**
Pentachlorophenol	**ND**	**ND**	**0.005**	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8041, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Comments: **QA/QC for Sample 46392.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Aug-08*

CLIENT:	Envirotech	**Client Sample ID:**	46392-5 pt Composite Under Liner
Lab Order:	0807220	**Collection Date:**	7/15/2008 12:35:00 PM
Project:	Basin Disposal	**Date Received:**	7/17/2008
Lab ID:	0807220-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: JMP
Aroclor 1016	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1221	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1232	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1242	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1248	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1254	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Aroclor 1260	ND	0.020		mg/Kg	1	7/26/2008 7:17:59 AM
Surr: Decachlorobiphenyl	47.6	15.8-133		%REC	1	7/26/2008 7:17:59 AM
EPA METHOD 8310: PAHS						Analyst: DMF
Naphthalene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
1-Methylnaphthalene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
2-Methylnaphthalene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
Acenaphthylene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
Acenaphthene	ND	0.25		mg/Kg	1	7/30/2008 3:18:04 AM
Fluorene	ND	0.030		mg/Kg	1	7/30/2008 3:18:04 AM
Phenanthrene	ND	0.015		mg/Kg	1	7/30/2008 3:18:04 AM
Anthracene	ND	0.015		mg/Kg	1	7/30/2008 3:18:04 AM
Fluoranthene	ND	0.020		mg/Kg	1	7/30/2008 3:18:04 AM
Pyrene	ND	0.025		mg/Kg	1	7/30/2008 3:18:04 AM
Benz(a)anthracene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Chrysene	ND	0.011		mg/Kg	1	7/30/2008 3:18:04 AM
Benzo(b)fluoranthene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Benzo(k)fluoranthene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Benzo(a)pyrene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Dibenz(a,h)anthracene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Benzo(g,h,i)perylene	ND	0.010		mg/Kg	1	7/30/2008 3:18:04 AM
Indeno(1,2,3-cd)pyrene	ND	0.10		mg/Kg	1	7/30/2008 3:18:04 AM
Surr: Benzo(e)pyrene	53.9	40.7-93.1		%REC	1	7/30/2008 3:18:04 AM

Qualifiers:

- ***** Value exceeds Maximum Contaminant Level
- **B** Analyte detected in the associated Method Blank
- **E** Value above quantitation range
- **H** Holding times for preparation or analysis exceeded
- **J** Analyte detected below quantitation limits
- **MCL** Maximum Contaminant Level
- **ND** Not Detected at the Reporting Limit
- **RL** Reporting Limit
- **S** Spike recovery outside accepted recovery limits

LAB ID: PA39-401

Benchmark Analytics, Inc.

4777 Saucon Creek Road
Center Valley, PA 18034
Phone: (610) 974-8100
Fax: (610) 974-8104

Work Order: 08072639

SEND DATA TO:

NAME: Ann Thorne
COMPANY: Hall Environmental Analysis Lab, Inc.
ADDRESS: 4901 Hawkins NE, Suite D
Albuquerque, NM 87109-4372

PHONE: (505) 345-3975
FAX: (505) 345-4107

WO#: 08072639
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

0807220

RECEIVED FOR LAB BY: SMM DATE: 07/18/2008 8:50

SAMPLE: 0807220-01B, 46392-5 pt Composite Under Liner Lab ID: 08072639-001A Grab

SAMPLED BY: Client Sample Time: 07/15/2008 12:35

Test	Result	Method	RL	Analysis Start	Analysis End	Analyst *
Uranium	0.312 mg/Kg-dry	EPA 6020		07/23/08 15:10	07/29/08	JRA-CV
Percent Moisture	1.0 %	PERCENT MOISTURE		07/18/08 12:45	07/21/08	LMH-CV

REMARKS:
The above test procedures meet all the requirements of NELAC and relate only to these samples.
* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER [signature] DATE: 8/13/2008

LAB ID: PA39-401

BENCHMARK ANALYTICS, INC.
4777 Saucon Creek Road
Center Valley, PA 18034-9004

PHONE (610) 974-8100
FAX (610) 974-8104

Work Order: 08072639

SEND DATA TO:

NAME: Ann Thorne
COMPANY: Hall Environmental Analysis Lab, Inc.
ADDRESS: 4901 Hawkins NE, Suite D
Albuquerque, NM 87109-4372

PHONE: (505) 345-3975
FAX: (505) 345-4107

WO#: 08072639
PAGE: 1 of 1
PO#:
PWS ID#

TEST REPORT

0807220

RECEIVED FOR LAB BY: SMM DATE: 07/18/2008 8:50

SAMPLE: **0807220-01B, 46392-5 pt Composite Under Liner** Lab ID: 08072639-001A Grab
SAMPLED BY: Client Sample Time 07/15/2008 12:35

Test	Result	Uncert.	MDA	Units	Method	MCL	Analysis Start	Analysis End	Analyst *
Radium-226	76.39	± 5.74	16	pCi/Kg	EPA 903.0		07/29/08 12:25	08/09/08	BH-CV
Radium-228	50.47	± 10.30	12.72	pCi/Kg	EPA 904.0		08/01/08 7:30	08/05/08	CCA-CV

REMARKS:
The above test procedures meet all the requirements of NELAC and relate only to these samples.
* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc., Sayre, PA

MANAGER [signature] DATE: 8/13/2008

Hall Environmental Analysis Laboratory, Inc.

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal
Date: 13-Aug-08
Work Order: 0807220

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8082: PCB's									
Sample ID: MB-16537		*MBLK*			**Batch ID:**	**16537**	**Analysis Date:**		**7/25/2008 9:15:23 AM**
Aroclor 1016	ND	mg/Kg	0.020						
Aroclor 1221	ND	mg/Kg	0.020						
Aroclor 1232	ND	mg/Kg	0.020						
Aroclor 1242	ND	mg/Kg	0.020						
Aroclor 1248	ND	mg/Kg	0.020						
Aroclor 1254	ND	mg/Kg	0.020						
Aroclor 1260	ND	mg/Kg	0.020						
Sample ID: LCS-16537		*LCS*			**Batch ID:**	**16537**	**Analysis Date:**		**7/25/2008 10:05:06 AM**
Aroclor 1260	0.03885	mg/Kg	0.020	31.1	23.7	105			
Sample ID: LCSD-16537		*LCSD*			**Batch ID:**	**16537**	**Analysis Date:**		**7/25/2008 10:54:01 AM**
Aroclor 1260	0.06295	mg/Kg	0.020	50.4	23.7	105	47.3	20	R

Qualifiers:

- J Value above quantitation range
- B Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: ME_ICPMS_S

Sample ID: MBLK ES 072308 A	SampType: MBLK	TestCode: ME_ICPMS_	Units: mg/Kg	Prep Date:	RunNo: 25659
Client ID: PBS	Batch ID: ES 072308 A	TestNo: SW6020		Analysis Date: 7/23/2008	SeqNo: 485703

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	< 0.220	0.220									

Sample ID: LFB ES 072308 A	SampType: LFB	TestCode: ME_ICPMS_	Units: mg/Kg	Prep Date:	RunNo: 25659
Client ID: ZZZZZZ	Batch ID: ES 072308 A	TestNo: SW6020		Analysis Date: 7/23/2008	SeqNo: 485704

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	18.3	0.243	19.44	0	94.0	85	115				

Sample ID: MBLK ES 072308 A	SampType: MBLK	TestCode: ME_ICPMS_	Units: mg/Kg	Prep Date:	RunNo: 25733
Client ID: PBS	Batch ID: ES 072308 A	TestNo: SW6020		Analysis Date: 7/23/2008	SeqNo: 487433

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	< 0.220	0.220									

Sample ID: LFB ES 072308 A	SampType: LFB	TestCode: ME_ICPMS_	Units: mg/Kg	Prep Date:	RunNo: 25733
Client ID: ZZZZZZ	Batch ID: ES 072308 A	TestNo: SW6020		Analysis Date: 7/23/2008	SeqNo: 487434

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Uranium	17.5	0.243	19.44	0	90.0	85	115				

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater thar
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: PMOIST

Sample ID: MB-R25211	SampType: MBLK	TestCode: PMOIST	Units: %	Prep Date:	RunNo: 25211
Client ID: PBS	Batch ID: R25211	TestNo: D2216		Analysis Date: 7/18/2008	SeqNo: 476383

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	<50	0									

Sample ID: 08072639-001ADUP	SampType: DUP	TestCode: PMOIST	Units: %	Prep Date:	RunNo: 25211
Client ID: 0807220-01B, 46392-5 pt	Batch ID: R25211	TestNo: D2216		Analysis Date: 7/18/2008	SeqNo: 476385

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	1.0	0						1.000	0	25	

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater thar
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: RA226_903.0

Sample ID: BLANK	SampType: MBLK	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: PBW	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 496658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.05										

Sample ID: EXTR BLANK	SampType: MBLK	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: PBW	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 496659

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	0.03										

Sample ID: LCS	SampType: LCS	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: LCSW	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 496660

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	11.46		10.66	0	108	74	126				

Sample ID: LCS DUP1	SampType: LCSD	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: LCSS02	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 496661

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	13.28		10.66	0	125	74	126				

Sample ID: LCS DUP2 RC	SampType: LCSD	TestCode: RA226_903.0	Units: pCi/L	Prep Date:	RunNo: 26260
Client ID: LCSS02	Batch ID: R26260	TestNo: E903.0		Analysis Date: 7/29/2008	SeqNo: 497922

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	12.05		10.66	0	113	74	126		5.00	0	

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater thar
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: RA228_904.0

Sample ID: BLANK	SampType: MBLK	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: PBW	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492231

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	-0.78										

Sample ID: LCS	SampType: LCS	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: LCSW	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492233

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	12.33		11.42	0	108	57	143				

Sample ID: LFB-1	SampType: LFB	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: ZZZZZZ	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492234

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	16.15		22.84	0	71.0	57	143				

Sample ID: LFB-2	SampType: LFB	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: ZZZZZZ	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492235

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	10.67		22.84	0	47.0	57	143				S

Sample ID: LFBD-1	SampType: LFBD	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: ZZZZZZ	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492236

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	19.77		22.84	0	87.0	57	143		60.0	0	

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater thar
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

CLIENT: Hall Environmental Analysis Lab, Inc.
Work Order: 08072639
Project: 0807220

ANALYTICAL QC SUMMARY REPORT

TestCode: RA228_904.0

Sample ID: LFBD-2	SampType: LFBD	TestCode: RA228_904.0	Units: pCi/L	Prep Date:	RunNo: 26019
Client ID: ZZZZZZ	Batch ID: R26019	TestNo: E904.0		Analysis Date: 8/1/2008	SeqNo: 492237

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	18.12		22.84	0	79.0	57	143		11.0	0	

Qualifiers:
B Analyte detected in the associated Method Blank
D Limit of detection increased due to matrix interference an
E Value above quantitation range
J Analyte reported below quantitation limits
L Value above calibration range but within annually verifie
LBP Lead based paint is defined as a paint with greater than
PHQC Sample pH was >2. Due to matrix effects, not all quality
Q Due to matrix effects, not all quality control parameters
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal

Work Order: 0807220

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: MB-16502		*MBLK*			**Batch ID: 16502**		**Analysis Date: 7/29/2008 7:09:44 AM**		
Naphthalene	ND	mg/Kg	0.25						
1-Methylnaphthalene	ND	mg/Kg	0.25						
2-Methylnaphthalene	ND	mg/Kg	0.25						
Acenaphthylene	ND	mg/Kg	0.25						
Acenaphthene	ND	mg/Kg	0.25						
Fluorene	ND	mg/Kg	0.030						
Phenanthrene	ND	mg/Kg	0.015						
Anthracene	ND	mg/Kg	0.015						
Fluoranthene	ND	mg/Kg	0.020						
Pyrene	ND	mg/Kg	0.025						
Benz(a)anthracene	ND	mg/Kg	0.010						
Chrysene	ND	mg/Kg	0.011						
Benzo(b)fluoranthene	ND	mg/Kg	0.010						
Benzo(k)fluoranthene	ND	mg/Kg	0.010						
Benzo(a)pyrene	ND	mg/Kg	0.0013						
Dibenz(a,h)anthracene	ND	mg/Kg	0.010						
Benzo(g,h,i)perylene	ND	mg/Kg	0.010						
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10						
Sample ID: LCS-16502		*LCS*			**Batch ID: 16502**		**Analysis Date: 7/29/2008 7:57:42 AM**		
Naphthalene	1.257	mg/Kg	0.25	62.8	30.1	90.4			
1-Methylnaphthalene	1.279	mg/Kg	0.25	63.9	31.1	88.5			
2-Methylnaphthalene	1.265	mg/Kg	0.25	63.3	32.2	89			
Acenaphthylene	1.234	mg/Kg	0.25	61.7	29.5	94.2			
Acenaphthene	1.271	mg/Kg	0.25	63.5	36.6	89.7			
Fluorene	0.1242	mg/Kg	0.030	62.1	36.9	90.7			
Phenanthrene	0.06825	mg/Kg	0.015	62.9	37.2	95.3			
Anthracene	0.06575	mg/Kg	0.015	63.6	37.4	95.4			
Fluoranthene	0.1240	mg/Kg	0.020	61.8	30.4	97.8			
Pyrene	0.1288	mg/Kg	0.025	64.4	33.3	100			
Benz(a)anthracene	0.01325	mg/Kg	0.010	66.2	38.9	102			
Chrysene	0.06450	mg/Kg	0.011	64.1	24.2	100			
Benzo(b)fluoranthene	0.01700	mg/Kg	0.010	68.0	35.5	102			
Benzo(k)fluoranthene	ND	mg/Kg	0.010	68.0	30.4	101			
Benzo(a)pyrene	0.01008	mg/Kg	0.0013	80.2	29.6	112			
Dibenz(a,h)anthracene	0.01675	mg/Kg	0.010	35.0	29.3	108			
Benzo(g,h,i)perylene	0.02300	mg/Kg	0.010	92.0	21.3	116			
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.10	64.7	18.5	112			

Qualifiers:

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ENVIROTECH | Date Received: 7/17/2008

Work Order Number 0807220 | Received by: ARS

Checklist completed by: _____ 7/17/08 | Sample ID labels checked by: AS

Signature | Date | Initials

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted	☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	4°	<6° C *Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: ENVIROTECH

Address: 5796 US HWY 64
FARMINGTON, NM 87401

Phone #: 505-632-0615

email or Fax#: cwalters@envirotech-inc.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Basin Disposal

Project #: 03058-0006

Project Manager: CHRISTINE WALTERS

Sampler: Greg Crabtree

On Ice: ☒ Yes ☐ No

Sample Temperature: 4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0807220	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)		Uranium	Radium 226 and 228		Air Bubbles (Y or N)
7/15/08	1235	96392-5pt composite under liner	2-4oz jar	cool	1							X		X				X	X		

Date: 7/16/08 Time: 9:15 Relinquished by: [signature] Received by: [signature] 9:10 7/17/08

Date: Time: Relinquished by: Received by:

Remarks: REF PO# 10079

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Monday, June 16, 2008 10:29 AM
To: 'John Volkerding'
Subject: RE: Soil Sampling Analyses

John,

Based upon the laboratory analytical results provided, OCD hereby approves of your request to place the soils (from above the liner of the temporary tank area) within the facility boundary in a manner that does not promote or facilitate erosional run-off from the facility.

Pursuant to Subsection C of 19.15.9.712 NMAC, "waste listed in Subsection D, Paragraph (1) of Section 19.15.9.712 NMAC. Waste listed in Subsection D, Paragraph (1) of Section 19.15.9.712 NMAC may be disposed of at a solid waste facility without prior written authorization of the division." Plastic pit liners are an identified waste in Subsection D, Paragraph (1) of Section 19.15.9.712 NMAC. The only condition for acceptance is "so long as cleaned well."

If you have any questions regarding this matter, please do not hesitate to contact me.

Brad

Brad A. Jones
Environmental Engineer
Environmental Bureau
NM Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505
E-mail: brad.a.jones@state.nm.us
Office: (505) 476-3487
Fax: (505) 476-3462

From: John Volkerding [mailto:bdinc@digii.net]
Sent: Friday, June 13, 2008 3:10 PM
To: Jones, Brad A., EMNRD
Subject: Soil Sampling Analyses

Brad;

Happy Friday the 13th! Scary.

Attached are the analytical results for the soil above the liner in the temporary tank storage area. Given the low concentrations, Basin Disposal proposes to place that soil back on our property and dispose of the liner at Waste Management's landfill. We will then conduct a 5 point composite sample of the soil under the liner and analyze for the same constituents.

Thanks, John

John Volkerding. PhD, CPEA
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936

A good conscience is continual Christmas. Benjamin Franklin

Jones, Brad A., EMNRD

From: John Volkerding [bdinc@digii.net]
Sent: Friday, June 13, 2008 3:10 PM
To: Jones, Brad A., EMNRD
Subject: Soil Sampling Analyses
Attachments: Soil Samples Above Temp Liner 6-13-08.pdf

Brad;

Happy Friday the 13th! Scary.

Attached are the analytical results for the soil above the liner in the temporary tank storage area. Given the low concentrations, Basin Disposal proposes to place that soil back on our property and dispose of the liner at Waste Management's landfill. We will then conduct a 5 point composite sample of the soil under the liner and analyze for the same constituents.

Thanks, John

John Volkerding, PhD, CPEA
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
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Fax: 505-333-3898
Plant: 505-632-8936

A good conscience is continual Christmas. Benjamin Franklin

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER ENVIRONMENT

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-14-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Chain of Custody No:	4361	Date Received:	05-09-08
Sample Matrix:	Soil	Date Extracted:	05-13-08
Preservative:	Cool	Date Analyzed:	05-14-08
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)	**3.8**	**0.1**
Total Petroleum Hydrocarbons	**3.8**	**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: **Basin Yard Tank Storage.**

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:	05-14-08 QA/QC	Date Reported:	05-14-08
Laboratory Number:	45407	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-14-08
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.9973E+002	1.0001E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-07-07	9.9603E+002	9.9643E+002	**0.04%**	**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%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100%**	**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 45407 - 45410, 45396, and 45434**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER ENVIRONMENT

TRACE METAL ANALYSIS

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-15-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Chain of Custody:	4361	Date Received:	05-09-08
Sample Matrix:	Soil	Date Analyzed:	05-13-08
Preservative:	Cool	Date Digested:	05-13-08
Condition:	Cool & Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	**0.036**	**0.001**
Barium	**18.2**	**0.001**
Cadmium	**0.002**	**0.001**
Chromium	**0.126**	**0.001**
Copper	**0.325**	**0.001**
Iron	**252**	**0.001**
Lead	**0.286**	**0.001**
Mercury	**ND**	**0.001**
Manganese	**15.8**	**0.001**
Selenium	**0.004**	**0.001**
Silver	**ND**	**0.001**
Zinc	**0.923**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Basin Yard Tank Storage.**

Analyst

Review

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ENVIROTECH LABS

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-13-TM QA/QC	Date Reported:	05-15-08
Laboratory Number:	45396	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	05-13-08
Condition:	N/A	Date Digested:	05-13-08

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.036	0.039	6.4%	0% - 30%
Barium	ND	ND	0.001	18.2	18.2	0.0%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.003	13.6%	0% - 30%
Chromium	ND	ND	0.001	0.126	0.130	3.2%	0% - 30%
Copper	ND	ND	0.001	0.325	0.329	1.3%	0% - 30%
Iron	ND	ND	0.001	252	259	2.8%	0% - 30%
Lead	ND	ND	0.001	0.286	0.294	2.7%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Manganese	ND	ND	0.001	15.8	15.5	2.1%	0% - 30%
Selenium	ND	ND	0.001	0.004	0.003	11.1%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Zinc	ND	ND	0.001	0.923	0.958	3.8%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	0.036	0.279	97.6%	80% - 120%
Barium	0.500	18.2	18.8	100.4%	80% - 120%
Cadmium	0.250	0.002	0.254	101%	80% - 120%
Chromium	0.500	0.126	0.663	106%	80% - 120%
Copper	0.500	0.325	0.853	103%	80% - 120%
Iron	0.500	252	255	101%	80% - 120%
Lead	0.500	0.286	0.780	99.2%	80% - 120%
Mercury	0.100	ND	0.096	95.9%	80% - 120%
Manganese	0.500	15.8	16.4	101%	80% - 120%
Selenium	0.100	0.004	0.098	94.5%	80% - 120%
Silver	0.100	ND	0.100	100%	80% - 120%
Zinc	0.500	0.923	1.48	104%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 45396.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-14-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Sample Matrix:	Soil Extract	Date Received:	05-09-08
Preservative:	Cool	Date Analyzed:	05-13-08
Condition:	Cool & Intact	Chain of Custody:	4316

Parameter	Analytical Result	Units
pH	**7.82**	su
Total Dissolved Solids @ 180C	**1,970**	mg/L
Nitrate Nitrogen	**0.5**	mg/L
Cyanide	**0.02**	mg/L
Fluoride	**0.93**	mg/L
Chloride	**145**	mg/L
Sulfate	**1,320**	mg/L

Reference: U.S.E.P.A., 600/4-79-020, "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 Tank Storage.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER ENVIRONMENT

EPA Method 8270
Polynuclear Aromatic Hydrocarbons

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Chain of custody:	4361	Date Received:	05-09-08
Sample Matrix:	Soil	Date Analyzed:	05-21-08
Preservative:	Cool	Date Concentrated:	05-20-08
Condition:	Cool & Intact	Analysis Requested:	8100

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Naphthalene	ND	0.2
Acenaphthylene	ND	0.2
Acenaphthene	ND	0.2
Fluorene	ND	0.2
Phenanthrene	ND	0.2
Anthracene	ND	0.2
Fluoranthene	ND	0.2
Pyrene	ND	0.2
Benzo[a]anthracene	ND	0.2
Chrysene	ND	0.2
Benzo(b)fluoranthene	ND	0.2
Benzo[k]fluoranthene	ND	0.2
Benzo(a)pyrene	ND	0.2
Indeno[1,2,3]pyrene	ND	0.2
Dibenzo[a,h]anthracene	ND	0.2
Benzo(g,h,i)perylene	ND	0.2

ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronapthalene	99.7%

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
SW-846, USEPA, September 1986.

Comments: **Basin Yard Tank Storage.**

Analyst

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ENVIROTECH LABS

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

EPA Method 8270
Polynuclear Aromatic Hydrocarbons
Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	Laboratory Blank	Date Reported:	05-27-08
Laboratory Number:	QA/QC	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-21-08
Condition:	N/A	Analysis Requested:	8100

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Naphthalene	ND	0.2
Acenaphthylene	ND	0.2
Acenaphthene	ND	0.2
Fluorene	ND	0.2
Phenanthrene	ND	0.2
Anthracene	ND	0.2
Fluoranthene	ND	0.2
Pyrene	ND	0.2
Benzo[a]anthracene	ND	0.2
Chrysene	ND	0.2
Benzo(b)fluoranthene	ND	0.2
Benzo[k]fluoranthene	ND	0.2
Benzo(a)pyrene	ND	0.2
Indeno[1,2,3]pyrene	ND	0.2
Dibenzo[a,h]anthracene	ND	0.2
Benzo(g,h,i)perylene	ND	0.2

ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY:	Parameter	Percent Recovery
	1-fluoronapthalene	99.4%

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
SW-846, USEPA, September 1986.

Comments: **QA/QC for Sample 45396.**

Analyst

Review

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ENVIROTECH LABS

EPA Method 8270
Polynuclear Aromatic Hydrocarbons
Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	Matrix Duplicate	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	8100	Date Analyzed:	05-21-08
Condition:	N/A		

Parameter	Sample Result (ug/Kg)	Duplicate Sample Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Difference
Naphthalene	ND	ND	0.2	0.0%
Acenaphthylene	ND	ND	0.2	0.0%
Acenaphthene	ND	ND	0.2	0.0%
Fluorene	ND	ND	0.2	0.0%
Phenanthrene	ND	ND	0.2	0.0%
Anthracene	ND	ND	0.2	0.0%
Fluoranthene	ND	ND	0.2	0.0%
Pyrene	ND	ND	0.2	0.0%
Benzo[a]anthracene	ND	ND	0.2	0.0%
Chrysene	ND	ND	0.2	0.0%
Benzo(b)fluoranthene	ND	ND	0.2	0.0%
Benzo[k]fluoranthene	ND	ND	0.2	0.0%
Benzo(a)pyrene	ND	ND	0.2	0.0%
Indeno[1,2,3]pyrene	ND	ND	0.2	0.0%
Dibenzo[a,h]anthracene	ND	ND	0.2	0.0%
Benzo(g,h,i)perylene	ND	ND	0.2	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS SW-846, USEPA, September 1986.

Comments: **QA/QC for Sample 45396.**

Analyst

Review

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ENVIROTECH LABS

EPA Method 8270
Polynuclear Aromatic Hydrocarbons
Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	Matrix Spike	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	8100	Date Analyzed:	05-21-08
Condition:	N/A		

Parameter	Sample Result (ug/Kg)	Spike Added (ug/Kg)	Spiked Sample Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Recovery	SW-846 % Rec. Accept. Range
Naphthalene	ND	50.0	49.9	0.2	99.8%	10-122
Acenaphthylene	ND	50.0	49.8	0.2	99.6%	10-139
Acenaphthene	ND	50.0	49.9	0.2	99.8%	10-124
Fluorene	ND	50.0	49.9	0.2	99.8%	10-142
Phenanthrene	ND	50.0	49.9	0.2	99.7%	10-155
Anthracene	ND	50.0	49.9	0.2	99.8%	10-126
Fluoranthene	ND	50.0	49.9	0.2	99.7%	14-123
Pyrene	ND	50.0	49.8	0.2	99.6%	10-140
Benzo[a]anthracene	ND	50.0	49.9	0.2	99.8%	10-116
Chrysene	ND	50.0	49.8	0.2	99.6%	12-135
Benzo(b)fluoranthene	ND	50.0	49.8	0.2	99.6%	10-199
Benzo[k]fluoranthene	ND	50.0	49.9	0.2	99.8%	10-150
Benzo(a)pyrene	ND	50.0	49.8	0.2	99.6%	10-159
Indeno[1,2,3]pyrene	ND	50.0	49.8	0.2	99.6%	10-128
Dibenzo[a,h]anthracene	ND	50.0	49.8	0.2	99.6%	10-110
Benzo(g,h,i)perylene	ND	50.0	49.9	0.2	99.8%	10-116

ND - Parameter not detected at the stated detection limit.

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
SW-846, USEPA, September 1986.

Comments: **QA/QC for Sample 45396.**

Analyst

Review

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Hall Environmental Analysis Laboratory, Inc.

Date: *22-May-08*

CLIENT:	Envirotech	**Client Sample ID:**	45396 - Composite
Lab Order:	0805250	**Collection Date:**	5/9/2008 8:30:00 AM
Project:	Basin Disposal	**Date Received:**	5/16/2008
Lab ID:	0805250-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8310: PAHS						Analyst: DMF
Naphthalene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
1-Methylnaphthalene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
2-Methylnaphthalene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
Acenaphthylene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
Acenaphthene	ND	1.2		mg/Kg	5	5/21/2008 4:27:11 PM
Fluorene	ND	0.15		mg/Kg	5	5/21/2008 4:27:11 PM
Phenanthrene	ND	0.075		mg/Kg	5	5/21/2008 4:27:11 PM
Anthracene	ND	0.075		mg/Kg	5	5/21/2008 4:27:11 PM
Fluoranthene	ND	0.10		mg/Kg	5	5/21/2008 4:27:11 PM
Pyrene	ND	0.12		mg/Kg	5	5/21/2008 4:27:11 PM
Benz(a)anthracene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Chrysene	ND	0.055		mg/Kg	5	5/21/2008 4:27:11 PM
Benzo(b)fluoranthene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Benzo(a)pyrene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Benzo(g,h,i)perylene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	5	5/21/2008 4:27:11 PM
Surr: Benzo(e)pyrene	90.0	40.7-93.1		%REC	5	5/21/2008 4:27:11 PM
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Toluene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Naphthalene	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	5/20/2008 7:40:20 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	5/20/2008 7:40:20 PM
Acetone	ND	0.75		mg/Kg	1	5/20/2008 7:40:20 PM
Bromobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Bromoform	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Bromomethane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
2-Butanone	ND	0.50		mg/Kg	1	5/20/2008 7:40:20 PM
Carbon disulfide	ND	0.50		mg/Kg	1	5/20/2008 7:40:20 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
Chlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Chloroethane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *22-May-08*

CLIENT:	Envirotech	**Client Sample ID:**	45396 - Composite
Lab Order:	0805250	**Collection Date:**	5/9/2008 8:30:00 AM
Project:	Basin Disposal	**Date Received:**	5/16/2008
Lab ID:	0805250-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **BDH**
Chloroform	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Chloromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Dibromomethane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
2-Hexanone	ND	0.50		mg/Kg	1	5/20/2008 7:40:20 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	5/20/2008 7:40:20 PM
Methylene chloride	0.22	0.15		mg/Kg	1	5/20/2008 7:40:20 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Styrene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-May-08*

CLIENT:	Envirotech	**Client Sample ID:**	45396 - Composite
Lab Order:	0805250	**Collection Date:**	5/9/2008 8:30:00 AM
Project:	Basin Disposal	**Date Received:**	5/16/2008
Lab ID:	0805250-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **BDH**
Vinyl chloride	ND	0.050		mg/Kg	1	5/20/2008 7:40:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/20/2008 7:40:20 PM
Surr: 1,2-Dichloroethane-d4	95.8	80.2-109		%REC	1	5/20/2008 7:40:20 PM
Surr: 4-Bromofluorobenzene	94.3	86.8-117		%REC	1	5/20/2008 7:40:20 PM
Surr: Dibromofluoromethane	141	67.4-173		%REC	1	5/20/2008 7:40:20 PM
Surr: Toluene-d8	87.6	87.9-106	S	%REC	1	5/20/2008 7:40:20 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805250

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: MB-15990		*MBLK*			Batch ID:	**15990**	Analysis Date:	5/21/2008 12:27:18 PM	
Naphthalene	ND	mg/Kg	0.25						
1-Methylnaphthalene	ND	mg/Kg	0.25						
2-Methylnaphthalene	ND	mg/Kg	0.25						
Acenaphthylene	ND	mg/Kg	0.25						
Acenaphthene	ND	mg/Kg	0.25						
Fluorene	ND	mg/Kg	0.030						
Phenanthrene	ND	mg/Kg	0.015						
Anthracene	ND	mg/Kg	0.015						
Fluoranthene	ND	mg/Kg	0.020						
Pyrene	ND	mg/Kg	0.025						
Benz(a)anthracene	ND	mg/Kg	0.0040						
Chrysene	ND	mg/Kg	0.011						
Benzo(b)fluoranthene	ND	mg/Kg	0.0040						
Benzo(k)fluoranthene	ND	mg/Kg	0.0040						
Benzo(a)pyrene	ND	mg/Kg	0.0040						
Dibenz(a,h)anthracene	ND	mg/Kg	0.0040						
Benzo(g,h,i)perylene	ND	mg/Kg	0.0040						
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0040						
Sample ID: LCS-15990		*LCS*			Batch ID:	**15990**	Analysis Date:	5/21/2008 1:15:18 PM	
Naphthalene	0.8165	mg/Kg	0.25	81.6	30.1	90.4			
1-Methylnaphthalene	0.8232	mg/Kg	0.25	82.3	31.1	88.5			
2-Methylnaphthalene	0.8155	mg/Kg	0.25	81.6	32.2	89			
Acenaphthylene	0.7297	mg/Kg	0.25	73.0	29.5	94.2			
Acenaphthene	0.8172	mg/Kg	0.25	81.7	35.6	89.7			
Fluorene	0.07650	mg/Kg	0.030	76.5	36.9	90.7			
Phenanthrene	0.04375	mg/Kg	0.015	87.0	37.2	95.3			
Anthracene	0.03800	mg/Kg	0.015	75.5	37.4	95.4			
Fluoranthene	0.07825	mg/Kg	0.020	78.0	30.4	97.8			
Pyrene	0.08800	mg/Kg	0.025	88.0	33.3	100			
Benz(a)anthracene	0.008250	mg/Kg	0.0040	82.5	38.9	102			
Chrysene	0.04100	mg/Kg	0.011	81.5	24.2	100			
Benzo(b)fluoranthene	0.01000	mg/Kg	0.0040	80.0	35.5	102			
Benzo(k)fluoranthene	0.004750	mg/Kg	0.0040	76.0	30.4	101			
Benzo(a)pyrene	0.005000	mg/Kg	0.0040	79.6	29.6	112			
Dibenz(a,h)anthracene	0.01025	mg/Kg	0.0040	82.0	29.3	108			
Benzo(g,h,i)perylene	0.01050	mg/Kg	0.0040	84.0	21.3	116			
Indeno(1,2,3-cd)pyrene	0.02028	mg/Kg	0.0040	80.8	18.5	112			
Sample ID: LCSD-15990		*LCSD*			Batch ID:	**15990**	Analysis Date:	5/21/2008 2:03:16 PM	
Naphthalene	0.6345	mg/Kg	0.25	63.4	30.1	90.4	25.1	26.2	
1-Methylnaphthalene	0.6575	mg/Kg	0.25	65.8	31.1	88.5	22.4	23.5	
2-Methylnaphthalene	0.6460	mg/Kg	0.25	64.6	32.2	89	23.2	22.7	R
Acenaphthylene	0.5864	mg/Kg	0.25	58.6	29.5	94.2	21.8	18.8	R
Acenaphthene	0.6572	mg/Kg	0.25	65.7	35.6	89.7	21.7	19	R
Fluorene	0.06175	mg/Kg	0.030	61.8	36.9	90.7	21.3	21.4	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805250

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs									
Sample ID: LCSD-16990		*LCSD*			**Batch ID:**	**16990**	**Analysis Date:**	**5/21/2008 2:03:16 PM**	
Phenanthrene	0.03550	mg/Kg	0.015	70.6	37.2	95.3	20.8	31.7	
Anthracene	0.03100	mg/Kg	0.015	61.6	37.4	95.4	20.3	18.3	R
Fluoranthene	0.06525	mg/Kg	0.020	65.1	30.4	97.8	18.1	23.8	
Pyrene	0.07100	mg/Kg	0.025	71.0	33.3	100	21.4	18.9	R
Benz(a)anthracene	0.006750	mg/Kg	0.0040	67.5	38.9	102	20.0	40	
Chrysene	0.03360	mg/Kg	0.011	66.6	24.2	100	20.1	33	
Benzo(b)fluoranthene	0.008250	mg/Kg	0.0040	66.0	35.5	102	19.2	38.2	
Benzo(k)fluoranthene	0.004000	mg/Kg	0.0040	64.0	30.4	101	17.1	26.2	
Benzo(a)pyrene	0.004000	mg/Kg	0.0040	63.7	29.6	112	22.2	35.5	
Dibenz(a,h)anthracene	0.008500	mg/Kg	0.0040	68.0	29.3	108	18.7	25.1	
Benzo(g,h,i)perylene	0.008500	mg/Kg	0.0040	68.0	21.3	116	21.1	20.5	R
Indeno(1,2,3-cd)pyrene	0.01620	mg/Kg	0.0040	64.5	18.5	112	22.3	23.1	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805250

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 0805250-01a msd		*MSD*			Batch ID:	**15983**	Analysis Date:		5/20/2008 8:49:58 PM
Benzene	1.193	mg/Kg	0.050	119	87.8	132	1.18	20	
Toluene	0.9945	mg/Kg	0.050	99.4	64.9	140	1.98	20	
Chlorobenzene	1.194	mg/Kg	0.050	119	77.6	128	1.74	20	
1,1-Dichloroethene	1.145	mg/Kg	0.050	114	64.6	163	8.74	20	
Trichloroethene (TCE)	0.6765	mg/Kg	0.050	67.7	47	115	5.36	20	
Sample ID: mb-15983		*MBLK*			Batch ID:	**15983**	Analysis Date:		5/21/2008 1:12:37 PM
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050						
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050						
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050						
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050						
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050						
Naphthalene	ND	mg/Kg	0.10						
1-Methylnaphthalene	ND	mg/Kg	0.20						
2-Methylnaphthalene	ND	mg/Kg	0.20						
Acetone	ND	mg/Kg	0.75						
Bromobenzene	ND	mg/Kg	0.050						
Bromodichloromethane	ND	mg/Kg	0.050						
Bromoform	ND	mg/Kg	0.050						
Bromomethane	ND	mg/Kg	0.10						
2-Butanone	ND	mg/Kg	0.50						
Carbon disulfide	ND	mg/Kg	0.50						
Carbon tetrachloride	ND	mg/Kg	0.10						
Chlorobenzene	ND	mg/Kg	0.050						
Chloroethane	ND	mg/Kg	0.10						
Chloroform	ND	mg/Kg	0.050						
Chloromethane	ND	mg/Kg	0.050						
2-Chlorotoluene	ND	mg/Kg	0.050						
4-Chlorotoluene	ND	mg/Kg	0.050						
cis-1,2-DCE	ND	mg/Kg	0.050						
cis-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10						
Dibromochloromethane	ND	mg/Kg	0.050						
Dibromomethane	ND	mg/Kg	0.10						
1,2-Dichlorobenzene	ND	mg/Kg	0.050						
1,3-Dichlorobenzene	ND	mg/Kg	0.050						
1,4-Dichlorobenzene	ND	mg/Kg	0.050						
Dichlorodifluoromethane	ND	mg/Kg	0.050						
1,1-Dichloroethane	ND	mg/Kg	0.10						
1,1-Dichloroethene	ND	mg/Kg	0.050						
1,2-Dichloropropane	ND	mg/Kg	0.050						
1,3-Dichloropropane	ND	mg/Kg	0.050						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805250

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: mb-15983		*MBLK*			Batch ID:	**15983**	Analysis Date:	5/21/2008 1:12:37 PM	
2,2-Dichloropropane	ND	mg/Kg	0.10						
1,1-Dichloropropene	ND	mg/Kg	0.10						
Hexachlorobutadiene	ND	mg/Kg	0.10						
2-Hexanone	ND	mg/Kg	0.50						
Isopropylbenzene	ND	mg/Kg	0.050						
4-Isopropyltoluene	ND	mg/Kg	0.050						
4-Methyl-2-pentanone	ND	mg/Kg	0.50						
Methylene chloride	ND	mg/Kg	0.15						
n-Butylbenzene	ND	mg/Kg	0.050						
n-Propylbenzene	ND	mg/Kg	0.050						
sec-Butylbenzene	ND	mg/Kg	0.050						
Styrene	ND	mg/Kg	0.050						
tert-Butylbenzene	ND	mg/Kg	0.050						
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050						
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050						
Tetrachloroethene (PCE)	ND	mg/Kg	0.050						
trans-1,2-DCE	ND	mg/Kg	0.050						
trans-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10						
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050						
1,1,1-Trichloroethane	ND	mg/Kg	0.050						
1,1,2-Trichloroethane	ND	mg/Kg	0.050						
Trichloroethene (TCE)	ND	mg/Kg	0.050						
Trichlorofluoromethane	ND	mg/Kg	0.050						
1,2,3-Trichloropropane	ND	mg/Kg	0.10						
Vinyl chloride	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: lcs-15983		*LCS*			Batch ID:	**15983**	Analysis Date:	5/20/2008 7:05:36 PM	
Benzene	1.193	mg/Kg	0.050	119	87.8	132			
Toluene	0.9658	mg/Kg	0.050	96.6	64.9	140			
Chlorobenzene	1.145	mg/Kg	0.050	114	77.6	128			
1,1-Dichloroethene	1.236	mg/Kg	0.050	124	64.6	163			
Trichloroethene (TCE)	0.6749	mg/Kg	0.050	67.5	47	115			
Sample ID: 0805250-01a ms		*MS*			Batch ID:	**15983**	Analysis Date:	5/20/2008 8:15:21 PM	
Benzene	1.207	mg/Kg	0.050	121	87.8	132			
Toluene	1.014	mg/Kg	0.050	101	64.9	140			
Chlorobenzene	1.173	mg/Kg	0.050	117	77.6	128			
1,1-Dichloroethene	1.249	mg/Kg	0.050	125	64.6	163			
Trichloroethene (TCE)	0.7138	mg/Kg	0.050	71.4	47	115			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ENVIROTECH | Date Received: 5/16/2008

Work Order Number 0805250 | Received by: AT

Checklist completed by: _____ 5/16/08 | Sample ID labels checked by: _____

Signature | Date | Initials

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	4°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

_____

_____

_____

_____

Corrective Action _____

_____

_____

Chain-of-Custody Record

Client: ENVIROTECH

Address: 5796 US HWY 64

FARMINGTON, NM 87401

Phone #: 505 632 0615

email or ~~Fax#~~: cwalters@envirotech-inc.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush _____

Project Name: BASIN DISPOSAL

Project #: 03058-0004

Project Manager: CHRISTINE WALTERS

Sampler: G. CRABTREE

On Ice: ☒ Yes ☐ No

Sample Temperature: 4°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	Analysis Request: BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
5/9/08	0830	453394-COMPOSITE	1-4oz	—	0805250-1	SEE ATTACHED LIST															

Date:	Time:	Relinquished by:	Received by:	Remarks:
5/15/08	10:45	Kendall Augustino	11:45 5/14/08	REF PO# 9608
Date:	Time:	Relinquished by:	Received by:	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

ENVIROTECH LABS

EPA METHOD 8270
TCLP PHENOLS

Client:	Basin Disposal	Project #:	03058-0004
Sample ID:	Composite	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	05-09-08
Chain of Custody:	4361	Date Received:	05-09-08
Sample Matrix:	Soil	Date Extracted:	05-14-08
Preservative:	Cool	Date Analyzed:	05-20-08
Condition:	Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	**ND**	**0.020**	**200**
p,m-Cresol	**ND**	**0.020**	**200**
2,4,6-Trichlorophenol	**ND**	**0.020**	**2.0**
2,4,5-Trichlorophenol	**ND**	**0.020**	**400**
Pentachlorophenol	**ND**	**0.020**	**100**

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	**99.0%**
	2,4,6-Tribromophenol	**99.0%**

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Basin Yard Tank Storage.**

Analyst

Review

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ENVIROTECH LABS

EPA METHOD 8270
TCLP PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-20-TCA QA/QC	Date Reported:	05-27-08
Laboratory Number:	45396	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-20-08
Condition:	N/A	Analysis Requested:	TCLP

Blanks & Duplicate Conc (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	Percent Diff.
o-Cresol	ND	ND	0.020	ND	ND	0.0%
p,m-Cresol	ND	ND	0.020	ND	ND	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	ND	ND	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	ND	ND	0.0%
Pentachlorophenol	ND	ND	0.020	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

References:
Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
Method 8041, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Comments: **QA/QC for Sample 45396.**

Analyst

Review

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Hall Environmental Analysis Laboratory, Inc.

Date: *09-Jun-08*

CLIENT:	Envirotech	**Client Sample ID:**	45396-Composite
Lab Order:	0805177	**Collection Date:**	5/9/2008 9:00:00 AM
Project:	Basin Disposal	**Date Received:**	5/13/2008
Lab ID:	0805177-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **JMP**
Aroclor 1016	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1221	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1232	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1242	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1248	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1254	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Aroclor 1260	ND	0.020		mg/Kg	1	5/21/2008 4:30:24 PM
Surr: Decachlorobiphenyl	42.4	15.8-133		%REC	1	5/21/2008 4:30:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0805177
Lab ID: C08050691-001
Client Sample ID: 45396-Composite

Report Date: 06/06/08
Collection Date: 05/09/08 09:00
DateReceived: 05/15/08
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Uranium	1.6	mg/kg-dry		0.5		SW6020	05/31/08 04:26 / ts
RADIONUCLIDES - TOTAL							
Radium 226	1.6	pCi/g-dry				E903.0	06/04/08 11:09 / trs
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	06/04/08 11:09 / trs
Radium 226 MDC	0.1	pCi/g-dry				E903.0	06/04/08 11:09 / trs
Radium 228	0.4	pCi/g-dry	U			RA-05	05/30/08 09:57 / plj
Radium 228 precision (±)	0.4	pCi/g-dry				RA-05	05/30/08 09:57 / plj
Radium 228 MDC	0.6	pCi/g-dry				RA-05	05/30/08 09:57 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: Hall Environmental
Project: 0805177

Report Date: 06/08/08
Work Order: C08050691

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									**Batch:** 18648
Sample ID: LCS-18648	Laboratory Control Sample				Run: BERTHOLD 770_080527B				06/04/08 11:09
Radium 226	0.014	pCi/L		97	70	130			
Sample ID: MB-18648	Method Blank				Run: BERTHOLD 770_080527B				06/04/08 11:09
Radium 226	-0.0010	pCi/L							U
Sample ID: C08050691-001BMS	Sample Matrix Spike				Run: BERTHOLD 770_080527B				06/04/08 11:09
Radium 226	4.1	pCi/g-dry		67	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Sample ID: C08050691-001BMSD	Sample Matrix Spike Duplicate				Run: BERTHOLD 770_080527B				06/04/08 11:09
Radium 226	3.4	pCi/L		48	70	130	18	24.3	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.									
Method: RA-05									**Batch:** 18648
Sample ID: LCS-18648	Laboratory Control Sample				Run: TENNELEC-3_080527A				05/30/08 09:57
Radium 228	0.019	pCi/g-dry		113	70	130			
Sample ID: MB-18648	Method Blank				Run: TENNELEC-3_080527A				05/31/08 09:57
Radium 228	0.0002	pCi/g-dry							U
Sample ID: C08050691-001BMS	Sample Matrix Spike				Run: TENNELEC-3_080527A				05/30/08 09:57
Radium 228	5.3	pCi/g-dry		102	70	130			
Sample ID: C08050691-001BMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_080527A				05/30/08 09:57
Radium 228	4.6	pCi/g-dry		88	70	130	14	31.1	
Method: SW6020									**Batch:** 18660
Sample ID: MB-18660	Method Blank				Run: ICPMS2-C_080530A				05/31/08 04:18
Uranium	0.0002	mg/kg-dry	1E-06						
Sample ID: LCS3-18660	Laboratory Control Sample				Run: ICPMS2-C_080530A				05/31/08 04:22
Uranium	1.92	mg/kg-dry	0.50	119	80	120			
Sample ID: C08050805-014AMS3	Sample Matrix Spike				Run: ICPMS2-C_080530A				05/31/08 05:12
Uranium	702	mg/kg-dry	0.50		75	125			A
Sample ID: C08050805-014AMSD3	Sample Matrix Spike Duplicate				Run: ICPMS2-C_080530A				05/31/08 05:16
Uranium	600	mg/kg-dry	0.50		75	125	16	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.

QA/QC SUMMARY REPORT

Client: Envirotech
Project: Basin Disposal **Work Order:** 0805177

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8082: PCB's									
Sample ID: MB-15982		*MBLK*			Batch ID:	**15982**	Analysis Date:		5/21/2008 11:34:50 AM
Aroclor 1016	ND	mg/Kg	0.020						
Aroclor 1221	ND	mg/Kg	0.020						
Aroclor 1232	ND	mg/Kg	0.020						
Aroclor 1242	ND	mg/Kg	0.020						
Aroclor 1248	ND	mg/Kg	0.020						
Aroclor 1254	ND	mg/Kg	0.020						
Aroclor 1260	ND	mg/Kg	0.020						
Sample ID: LCS-15982		*LCS*			Batch ID:	**15982**	Analysis Date:		5/21/2008 12:25:38 PM
Aroclor 1260	0.05340	mg/Kg	0.020	42.7	23.7	105			
Sample ID: LCSD-15982		*LCSD*			Batch ID:	**15982**	Analysis Date:		5/21/2008 1:14:12 PM
Aroclor 1260	0.05590	mg/Kg	0.020	44.7	23.7	105	4.57	20	

Qualifiers:

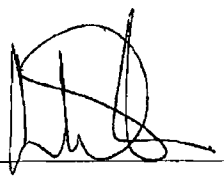
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ENVIROTECH | Date Received: 5/13/2008

Work Order Number 0805177 | Received by: ARS

Checklist completed by:  5/13/08 | Sample ID labels checked by: AS

Signature | Date | Initials

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	6°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Correct time for sample is 9:00 am as per CW. 5/13

Corrective Action _____

Chain-of-Custody Record

Client: ENVIROTECH

Address: 5796 US Hwy 64
FARMINGTON, NM 87401

Phone #: 505 632 0615

email or ~~Fax#~~: cwalters@envirotech-inc.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: BASIN DISPOSAL

Project #: 03058-0004

Project Manager: CHRISTINE WALTERS

Sampler: Greg Crabtree

On Ice: ☒ Yes ☐ No

Sample Temperature: 6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0805177	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	URANIUM	RADIUM	PCB		Air Bubbles (Y or N)
5/9/08	0900	45396 - COMPOSITE	2-4oz jars	cool	1												X	X	X		

Date:	Time:	Relinquished by:	Received by:
5/12/08	10:30		8:30 5/13/08
Date:	Time:	Relinquished by:	Received by:

Remarks: REF PO# 9578

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

CHAIN OF CUSTODY RECORD

Client:	Project Name / Location:
Basin Disposal	Basin Yard Tank Storage
Client Address:	Sampler Name: G. Crabtree
Client Phone No.:	Client No.: 03058-0004

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HNO_3	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion pH HNO_3 SO_4 Cl TDS	RCI	TCLP with H/P	PAH	TPH (418.1)	Cyanide	Uranium Radium 226 + 228 PCB	8100 PAH	8041 Phenols	Sample Cool	Sample Intact
Composite	5/9/08	0900	45396	Soil	5-1608			✓		✓	✓						✓✓	✓✓	✓	✓	✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Greg Crabtree	5/9/08	1615	Christine M Walters	5/9/08	1615
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division

April 1, 2008

Mr. John Volkerding
General Manager
Basin Disposal, Inc.
P.O. Box 100
Aztec, NM 87410

RE: Basin Disposal, Inc. – Permit Modification Request
Commercial Surface Waste Management Facility Permit NM-1-005
Facility Location: SE/4 NW/4 of Section 3, Township 29 North, Range 11 West
NMPM, San Juan County, New Mexico

Dear Mr. Volkerding:

The New Mexico Oil Conservation Division (OCD) has received and reviewed Basin Disposal Inc.'s request, dated March 28, 2008 and the revisions provided March 31, 2008, to temporary place twenty-five (25) 400 barrel tanks within a lined and bermed area for the temporary storage of produced water. The request has been submitted under the emergency exception provision of Subsection B of Section 19 of 19.15.36 NMAC. The emergency exception is the temporary increase of storage capacity in order to handle the backlog of produced removal due to poor weather conditions and the compliance of operators with the Bureau of Land Management's regulations regarding use of roads during inclement weather. This modification request is hereby approved under the following conditions and understandings:

1. Basin Disposal, Inc. shall submit an additional $15,000 of financial assurance for OCD's review and approval prior to initiating any work or activities associated with this approval.

2. Basin Disposal, Inc. shall place no more than twenty-five (25) 400 bbls closed top tanks within the lined bermed area, as identified in the March 28, 2008 request.

3. Basin Disposal, Inc. shall construct a temporary storage area with a footprint no greater than 150' by 150', which shall be lined with a 20-mil LLDPE/HDPE or equivalent liner and have a design capacity of 12,000 barrels pursuant to the March 28, 2008 submittal and March 31, 2008 revisions.

4. Prior to the installation of the 25 tanks, Basin Disposal, Inc. shall inspect the integrity of the existing liner and replace or repair any comprised lined areas.

5. Basin Disposal, Inc. shall construct the temporary storage area in manner to control stormwater run-on and control stormwater run-off.

6. Basin Disposal, Inc. shall install the tanks in a manner to protect migratory birds, for tanks exceeding eight feet in diameter.

7. Basin Disposal, Inc. shall construct and install a 20-mil LLDPE/HDPE or equivalent lined and bermed area to connect and install a 4" hose to transfer produced water from the evaporation pond to the temporary tanks and from the tanks back into the evaporation pond pursuant to the March 28, 2008 submittal and March 31, 2008 revisions.

8. Basin Disposal, Inc. shall inspect the tanks, temporary storage area, and transfer hose daily for integrity, spills, and releases pursuant to the March 28, 2008 submittal and March 31, 2008 revisions.

9. Basin Disposal, Inc. shall operate the temporary storage area and manage all waste associated with the temporary modification pursuant to the March 28, 2008 submittal, the revisions provided March 31, 2008, and 19.15.36 NMAC.

10. Basin Disposal, Inc. shall comply with the revisions and additions provided in the March 28, 2008 submittal and March 31, 2008 revisions to the Oil Field Waste Management SOP, H2S Prevention SOP, Closure Plan, Contingency Plan, and the Spill Prevention Control and Countermeasures Policy.

11. Basin Disposal, Inc. shall *discontinue the use of the temporary storage area, remove the temporary tanks, and initiate the closure plan* ***within six months*** *of the effective date of this approval.*

12. Basin Disposal, Inc. shall complete the closure of the area impacted from the activities associated with the temporary modification pursuant the Subsection E of 19.15.36 NMAC and the closure plan of the March 28, 2008 submittal and the additional revisions provided March 31, 2008. *Such closure activities as the testing and removal of soils above the liner, the removal and disposal of the liner, and the testing of the soils beneath the liner shall be completed* ***within nine months*** *of the effective date of this approval.*

13. Basin Disposal, Inc. shall demonstrate that the area impacted from the activities associated with the temporary modification is restored, that no contamination is present, and that the closure is complete to OCD's satisfaction. Upon review, confirmation, and approval of closure, OCD will release the financial assurance associated with the temporary modification.

Please be advised that OCD approval does not relieve the Basin Disposal, Inc. of responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the Basin Disposal, Inc. of responsibility for compliance with any other federal, state, or local laws and/or regulations

If you have any questions regarding this matter, please contact Brad A Jones of my staff at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Wayne Price
Environmental Bureau Chief

LWP/baj
cc: OCD District III Office, Aztec

Jones, Brad A., EMNRD

From: John Volkerding [bdinc@digii.net]
Sent: Monday, March 31, 2008 6:09 PM
To: Jones, Brad A., EMNRD
Subject: Temporary Tank Storage Area Liner

Brad; Thanks for asking about the liner specifications. I had to do some digging to actually find the invoice (since it was 2006, it was archived) but after finding what was purchased, I have listed below the specifications. If you need anything else, please feel free to ask. John

30 MIL XR-5® SPECIFICATIONS

Property	Test Method	Specified Value
Thickness (mils,min)	ASTM D751 (optical Method	30
Weight (oz./s.y.,min.)	ASTM D751	28
Breaking Strength (lbs.,min.)	ASTM D751 (Method A)	550
Tear Strength (lbs.,min)	ASTM D751 (Method B)	125
Low Temperature (deg.F.)	ASTM D2136 (1/8"Mandrel, 4hrs.)	-30
Dimensional Stability (% change,max.)	ASTM D1204 (212 deg.F,1 hr.)	1
Hydrostatic Resistance (psi,min)	ASTM D751 (Method A)	800
Ply Adhesion	ASTM D413	15

(lbs./in. width,min.)	(Machine Method)	
Water Absorption (%gain,max.) 1.70 deg.F,7 days 2.212 deg. F. 7 days	ASTM D471	2.5 14
Blocking Resistance (rating,max.)	ASTM D751	2
Abrasion Resistance (max.cycles before exposure,50 mg/100 cycles max. weight loss.)	Ftms 191A (method 5306,H-18 wheel,1000 gm. Load)	2000
Weathering Resistance (hrs.)	Carbon-Arc (atlas weather-o-meter)	8000
Wicking (in.,max)	Shelter-Rite Procedure	1/8
Puncture Resistance (lbs.,min)	ASTM D4833	250
Coefficient of Thermal Expansion/Contraction (in./in. deg. F, max)	ASTM D696	8 x 10 -6
Seam Requirements		
Bonded Seam Strength (lbs./in. width, min)	ASTM D751 (NSF 54 Modified)	440
Peel Adhesion (lbs./in. Width, min)	ASTM D413 (NSF 54 Modified)	20

John Volkerding, CPEA, PhD
General Manager

Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936

I didn't fail the test, I just found 100 ways to do it wrong. Benjamin Franklin

Jones, Brad A., EMNRD

From: John Volkerding [bdinc@digii.net]
Sent: Tuesday, March 25, 2008 5:12 PM
To: 'John Volkerding'; Jones, Brad A., EMNRD; Price, Wayne, EMNRD
Subject: 3/24/07 Meeting Minutes

Wayne and Brad;

I appreciate your taking the time to chat about our request for temporary tanks and our plans for the major modification. Please know I am available anytime to come to Santa Fe. Below is a summary of the meeting based on my notes and a follow up phone conversation with Brad Jones on 3/25.

Temporary Tanks

1. Basin needs to submit an additional $15,000 financial assurance. [Note: Basin likely will have this completed tomorrow, 3/26]
2. Basin needs to submit the request to set the tanks as an Exception to 19.15.36.19.NMAC Paragraph B as a temporary increase in capacity
3. The items in 19.15.36.8 NMAC Paragraph C need to be addressed to include:
    a. Paragraph 4: Description and diagram of facility and changes (include runon/runoff measures)
    b. Paragraph 6: Plan for management of oil field wastes (how will water be placed in the tanks, removed from the tanks, and any additional liners needed for those processes)
    c. Paragraph 7: Inspection and maintenance plan
    d. Paragraph 8: H2S Prevention
    e. Paragraph 9: Closure plan should include description of sampling methodology (locations, analyses - Analyses discussed were TPH, DRO/GRO, BTEX, Chloride), schedule for sampling, schedule for removing tanks, schedule for removing liner, disposal of the liner, schedule for submittal of analytical results to OCD, disposition of the soil above the liner and below the liner (will depend on analytical results), no need to backfill the area
    f. Paragraph 10: Contingency plan, make sure to include 116 rule and discuss management of any free liquids
    g. Paragraph 11: Run on/off of water: Make sure to describe measures to keep water from entering the area of the tanks to include type(s) of control along with dimensions, etc..
    h. Paragraph 14: Best Management Plan to include the transfer of liquid to and from the tanks, how will water in tanks ultimately be disposed
4. OCD will review and if acceptable and complete will approve ASAP.

Major Mod

1. After looking at the submittal and drawings, OCD asked if the consultant (Cheney, Walters, Echols) had experience doing this type of engineering design since the drawings clearly lacked many specifics and did not meet the requirements of 19.15.36.17, to include, (but not an exhaustive list):
    a. 2% slope in construction not complied with
    b. 2nd liner not shown
    c. Trench around pond not shown
    d. Exact dimensions of pond not clear
    e. Why the large gap between primary liner and leak detection system
    f. What are the specifics on the liner (thickness, material) and layers (thickness,, material)
    g. Is there a means for pulling any condensate/leaking water? If so, not clear

[Note: After speaking with Chuck Akley at NMED's Solid Waste, Basin is pursuing using an engineering firm with landfill construction experience]

2. Need to include Run On and Run Off plans
3. Drawing seems to show an easement issue. Is that accurate? If so, should location of pond be moved west and/or pond made longer but skinnier?
4. Boring plan is hard for OCD to review without knowing the deepest point of the pond(s), which based on 1 above was unclear. For sake of discussion a few assumptions were made.
    a. Need to drill at least 50 feet below deepest point and should drill deeper to provide a cushion in the depth
    b. Looking for shallowest protectable water
    c. May need more than one boring
    d. Brad asked Roger to submit the plan for review when complete to make sure all issues are addressed.
    e. OCD wants to observe the coring/drilling

5. Basin should investigate if a federal Stormwater protection plan for construction activities. [NOTE: Per http://cfpub.epa.gov/npdes/stormwater/swppp.cfm The Clean Water Act and associated federal regulations (Title 40 of the *Code of Federal Regulations* [CFR] 123.25(a)(9), 122.26(a), 122.26(b)(14)(x) and 122.26(b)(15)) require nearly all construction site operators engaged in clearing, grading, and excavating activities that disturb one acre or more, including smaller sites in a larger common plan of development or sale, to obtain coverage under a National Pollutant Discharge Elimination System (NPDES) permit for their stormwater discharges] I will chat with Marcy Leavitt about NMED's general construction permit and go from there.
6. Closure plan needs to be based on a 3rd party doing the work and include all required analytical requirements.
7. In conducting background samples, Basin should cover all the closure analytical constituents.
8. It was requested the Basin submit a letter stating that due to the changes in scope and design, the application dated 9/24/07 should be disregarded and a new application will be submitted.

I will try and have the application for the tanks by Thursday afternoon. Again, I appreciate the meeting and think we were able to cover a large territory of issues effectively.

Thanks,
John

John Volkerding
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936

Jones, Brad A., EMNRD

From: John Volkerding [bdinc@digii.net]
Sent: Monday, March 24, 2008 10:06 PM
To: Jones, Brad A., EMNRD; Price, Wayne, EMNRD
Subject: 3/24/07 Meeting "Minutes"

Wayne and Brad;

I appreciate your taking the time to chat about our request for temporary tanks and our plans for the major modification. Please know I am available anytime to come to Santa Fe. To help make sure we all came away from the meeting with the same information, I thought I would summarize what I heard and if I left anything off or misunderstood an issue, please let me know.

Temporary Tanks

1. Basin needs to submit an additional $15,000 financial assurance before the approval will be granted.
2. Basin needs to submit the request to set the tanks as an Exception to 19.15.36.19.NMAC Paragraph A B
3. The items in 19.15.36.8 NMAC Paragraph C need to be addressed to include:
   a. Schedule for activities (tanks, set, tanks removed liner, removed, soil sampled)
   b. Closure plan should include description of sampling methodology (locations, analyses). Analyses discussed were TPH, DRO/GRO, BTEX, Chloride
   c. Run on plan to keep water from entering the area
   d. Contingency plan for spills, leaking tanks
4. OCD will review and if acceptable and complete will approve ASAP.

Major Mod

1. OCD asked if the consultant (Cheney, Walters, Echols) had experience doing this type of engineering design since the drawings clearly lacked many specifics
   a. 2% slope in construction not complied with
   b. 2nd liner not shown
   c. Trench around pond not shown
   d. Exact dimensions of pond not clear
   e. Why the large gap between primary liner and leak detection system
   f. What are the specifics on the liner (thickness, material) and layers (thickness,, material)
   g. Is there a means for pulling any condensate/leaking water? If so, not clear
2. Need to include Run On and Run Off plans
3. Drawing seems to show an easement issue. Is that accurate? If so, should location of pond be moved west and/or pond made longer but skinnier?
4. Boring plan is hard for OCD to review or approve without knowing the deepest point of the pond(s), which based on 1 above was unclear. For sake of discussion a few assumptions were made.
   a. Need to drill at least 50 feet below deepest point and should drill deeper to provide a cushion in the depth
   b. Looking for water – perched water or other that is "protectable"
   c. May need more than one boring
   d. Brad asked Roger to submit the plan for review when complete.
   e. OCD wants to observe the coring/drilling

5. Basin should investigate if a federal Stormwater protection plan for construction activities. [NOTE: Per http://cfpub.epa.gov/npdes/stormwater/swppp.cfm The Clean Water Act and associated federal regulations (Title 40 of the *Code of Federal Regulations* [CFR] 123.25(a)(9), 122.26(a), 122.26(b)(14)(x) and 122.26(b)(15)) require nearly all construction site operators engaged in clearing, grading, and excavating activities that **disturb one acre or more, including smaller sites in a larger common plan of development or sale**, to obtain coverage under a National Pollutant Discharge Elimination System (NPDES) permit for their stormwater discharges]
6. I will chat with Marcy Leavitt about NMED's general construction permit and go from there.
7. Closure plan needs to be based on a 3rd party doing the work
8. In conducting background samples, Basin should cover all the closure analytical constituents.
9. It was requested the Basin submit a letter stating that due to the changes in scope and design, the application dated 9/24/07 should be disregarded and a new application will be submitted.

If there are any significant issues that I missed or have any of the above incorrect, please let me know. I will try and have the Exception application tomorrow and will make sure my bosses get the financial assurance requirement met. Again, I appreciate the meeting today and think we were able to cover a large territory of issues effectively.

John

John Volkerding
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936

John Volkerding

From: John Volkerding [bdinc@digii.net]

Sent: Friday, March 28, 2008 11:10 AM

To: OCD Santa Fe- Wayne Price (wayne.price@state.nm.us); OCD Santa Fe- Brad Jones (brad.a.jones@state.nm.us)

Subject: Cash Bond for Waste Management Facilities: $15,000

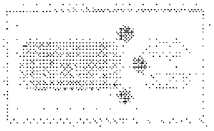
Attachments: Temp Tanks 3-28-08 - Financial Ass Ltr.pdf; Tank 15K Financial Assurance.pdf

Wayne and Brad;

Attached please find a pdf format of Cash Bond for Waste Management Facilities in the amount of $15,000. The original will be placed in the US Mail today.

Have a good weekend, John

John Volkerding
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936



BASIN DISPOSAL, INC.

28 March 2008

7004 2510 0005 9631 0836

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

RE: $15,000 Financial Assurance for
Exception under 19.15.36.19 B NMAC
For 25 Water Storage Tanks

Dear Mr. Jones;

Attached please find a pdf format of Cash Bond for Waste Management Facilities in the amount of $15,000. The original will be placed in the US Mail today.

If you have any questions, please feel free to phone me at 334-3013 or 320-2840 or via email at bdinc@digii.net.

Sincerely;

John Volkerding
General Manager

Encl: Cash Bond for Waste Management Facilities

Cc: Brandon Powell, Aztec OCD Office, 1000 Rio Brazos, Aztec, NM 87410

Energy, Minerals and Natural Resources Department
Oil Conservation Division

Cash Bond For Waste Management Facilities

(File with Oil Conservation Division, 1220 South Saint Francis, Santa Fe, New Mexico 87505)

KNOW ALL MEN BY THESE PRESENTS:

That Basin Disposal Inc. (an individual, partnership, or a corporation organized in the State of New Mexico, with its principal office in the City of Aztec, State of New Mexico and authorized to do business in the State of New Mexico), as PRINCIPAL is firmly bound unto the State of New Mexico, for the use and benefit of the Oil Conservation Division of the Energy, Minerals and Natural Resources Department (DIVISION) in the sum of Fifteen Thousand Dollars ($ 15,000 .00) Dollars.

The conditions of this obligation are such that:

The PRINCIPAL has heretofore or may hereafter enter into the collection, disposal, evaporation, remediation, reclamation, treatment or storage of produced water, drilling fluids, drill cuttings, completion fluids, contaminated soils, BS&W, tank bottoms, waste oil or other oil field related waste in Section 33, Township 29N, Range 11W, NMPM, San Juan County, New Mexico.

NOW, THEREFORE, this $ 15,000 bond is conditioned upon substantial compliance with all applicable statutes of the State of New Mexico and all rules and orders of the DIVISION and the Oil Conservation Commission, and upon clean-up of the facility site to standards of the DIVISION; otherwise the bond is to be forfeited to the Division.

The PRINCIPAL has deposited funds on behalf of the DIVISION in the amount of $15,000 .00 (Fifteen Thousand dollars) in the manner indicated on page 2 of this instrument, **Assignment of Cash Collateral Deposit**, to secure this bond. The PRINCIPAL pledges the funds as a guarantee that it, its executors, assigns, heirs and administrators will abide by the Statutes of the State of New Mexico and the rules and orders of the DIVISION in operating the waste management facility described herein, and that it will properly reclaim the facility site upon cessation of operations. If the PRINCIPAL does not properly reclaim and restore the facility site, and otherwise abide by the rules and orders of the DIVISION, this bond shall be forfeited in full and such funds as necessary applied to the cost of reclaiming the facility site. If the amount of the bond is less than the actual cost incurred by the DIVISION in reclaiming the facility site, the DIVISION may institute legal action against the PRINCIPAL to recover any amounts expended over and above the amount of the bond.

NOW THEREFORE, if the above PRINCIPAL or its successors, assigns, heirs, administrators or any of them shall properly reclaim and restore the above-described facility site upon cessation of operations and otherwise abide by the rules and orders of the Division, then therefore, this obligation shall be null and void and the principal sum hereof shall be paid to the PRINCIPAL, or its successors, heirs, or administrator; otherwise it shall remain in full force and effect.

Assignment of Cash Collateral Deposit For Bond for Waste Management Facility

Pursuant to Rule 711 of the Rules of the Oil Conservation Division, or successor provisions, _____, (hereinafter "Principal"), of _____ (address) has deposited with the Citizens Bank (name of the financial institution, which must be a federally insured bank or savings institution within the state of New Mexico) of (address) (hereinafter "Financial Institution"), the sum of Fifteen Thousand ($ 15000 .00) dollars in Certificate of Deposit or savings account No. 0112967820. The Principal hereby assigns and conveys all right, title and interest in the deposited funds to the Financial Institution in trust for the Oil Conservation Division of the Energy, Minerals and Natural Resources Department (hereinafter "Division") or successor agency of the State of New Mexico. The Principal and the Financial Institution agree that as to the deposited funds:

a. The funds deposited pursuant to the terms of this Assignment are to serve as a cash bond covering a waste management facility operated by the Principal.

b. The Division acquires by this Assignment the entire beneficial interest in the funds with the right to order the Financial Institution, in writing, to distribute the fund to persons determined by the Division to be entitled thereto, including the Division itself, in amounts determined by the Division, or to the Principal upon sale of the facility covered by this Assignment provided all applicable Division orders and rules have been complied with regarding the waste management facility.

c. The Principal retains no legal or beneficial interest in the fund and has only the right to interest, if any, thereon, and to return of the fund upon written order of the Division in the event the Principal properly reclaims the facility site and otherwise abides by the rules and order of the Division and the Oil Conservation Commission.

d. The Financial Institution agrees that the funds may not be assigned, transferred pledged or distributed except upon written order of the Division or a court of competent jurisdiction made in a proceeding in which the Division is a party. The Financial Institution waives all statutory or common law liens or rights of set-off against the funds.

The Principal agrees that the Financial Institution may deduct from interest due the Principal any attorney fees incurred by the Financial Institution if claim or demand via writ, summons or other process arising from Principal's business is made upon the Financial Institution.

Signed this 28th day of March, 2008.

Signature of PRINCIPAL, personally or by authorized officer

Secretary

Title

(Note: If PRINCIPAL is corporation, affix corporate seal here.)

P.O. Box 100 Aztec, NM 87410

Mailing Address

Signature of authorized officer of Financial Institution

Michelle Lindsay

Title AVP

500 W. Broadway Farmington NM 87401

Mailing Address

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF _____)
)SS.
COUNTY OF _____)

The foregoing instrument was acknowledged before me this ___ day of _____, 2____, by

_____.

My commission expires:

_____ _____
Date Notary Public

ACKNOWLEDGMENT FORM FOR CORPORATION, INCORPORATED ASSOCIATION OR PARTNERSHIP

STATE OF New Mexico)
)SS.
COUNTY OF San Juan)

The foregoing instrument was acknowledged before me this 28th day of March, 2008, by David C. Turner as (title) Secretary Treas. of Basin Disposal Inc., a corporation, incorporated association, or partnership.

My commission expires:
2/28/2011
Date
3/28/2007

Notary Public Jessica Cadena

ACKNOWLEDGMENT FORM FOR FINANCIAL INSTITUTION

STATE OF New Mexico
)SS.
COUNTY OF San Juan)

The foregoing instrument was acknowledged before me this 28th day of March, 2008, by Michelle Lindsay as (title) AVP on behalf of Citizens Bank, financial institution.

My commission expires:
2/28/2011
Date
3/28/2008

Notary Public Jessica Cadena

P. 01

TRANSACTION REPORT

MAR-28-2008 FRI 10:48 AM

FOR:

RECEIVE

DATE	START	SENDER	RX TIME	PAGES	TYPE	NOTE	M#	DP
MAR-28	10:44 AM	Fax	3'31"	5	RECEIVE	OK		

Jones, Brad A., EMNRD

From: John Volkerding [bdinc@digii.net]
Sent: Monday, March 31, 2008 2:35 PM
To: Jones, Brad A., EMNRD
Subject: Updated Submissions for Temporary Tank Application
Attachments: Waste Management SOP Page 4 of 5.pdf; Tanks-Schedule A.pdf; Tanks - 19.15.36.8.C _9_-Closure and Post Closure Plan.pdf

Brad;

Attached are:

1. Updated page 4 of Waste Management SOP with the following language concerning the disposal of the filters used to filter the produced water from the pond prior to being pumped to the temporary storage tanks - *Pursuant to corrosivity testing under Subparagraph (m) of Paragraph (2) of Subsection D of 19.15.9.712 NMAC and approval under Paragraph (2) of Subsection C of 19.15.9.712 NMAC the filters will be disposed at the Waste Management facility along with the 5um and 20um filters used to filter the water from the pond prior to injection.*
2. Updated schedule with the example dates removed and changing the language concerning the release of the financial assurance to quote Paragraph (1) of Subsection B of 19.15.36.18 NMAC - *When the division determines that closure is complete it shall release the financial assurance as provided in Paragraph (1) of Subsection B of 19.15.36.18 NMAC*
3. Updated Closure Plan to include a discussion on the tank removal and analyses to comply with Paragraph (4) of Subsection E of 19.15.36.18 NMAC
    a. *The temporary tanks will be removed the location within 6 months of the Effective Date of the approval's effective date..*
    b. *Any free liquids in the lined bermed area shall be removed and disposed of in Basin Disposal's pond.*
    c. *The soil above the liner shall be sampled from five locations as shown in the diagram below, composited, and analyzed per Paragraph (4) of Subsection E of 19.15.36.18 NMAC for TPH, BTEX, metals and other inorganics listed in Subsections A and B of 20.69.2.3103 NMAC.*
    d. *Upon receipt of the analytical results, Basin Disposal will submit the results to the OCD along with a request to either re-use the soil or send it to an EMNRD/OCD-permitted landfarm or landfill. Basin Disposal will also submit a request to dispose of the liner at either the local Waste Management facility or an EMNRD/OCD -permitted landfill based on the results of the analytical data.*
    e. *The soil below the liner shall be sampled from five locations as shown in the diagram below, composited, and analyzed per Paragraph (4) of Subsection E of 19.15.36.18 NMAC for TPH, BTEX, metals and other inorganics listed in Subsections A and B of 20.69.2.3103 NMAC.*

I believe these are all the items we discussed in our phone call today. If you need anything else, please let me know, Thanks, John

John Volkerding
General Manager
Basin Disposal, Inc.
PO Box 100, Aztec, NM 87410
Office: 505-334-3013
Mobile: 505-320-2840
Fax: 505-333-3898
Plant: 505-632-8936

PERMIT NM-01-0005

All produced water must be unloaded into tanks..

c) Trucks shall back up to the tank number as instructed by Basin personnel.
d) Drivers shall connect their grounding straps to the grounding stakes at their specific tank.
e) Trucks shall exit the facility around the back side of the shop building.
f) Failure of drivers to follow these procedures shall be brought to the attention of Basin management for proper resolution with the hauling company.

Temporary Tanks

8) In the Event Basin Disposal Receives Permission from the NM OCD to set Temporary Tanks for the Storage of Produced Water
   a) Tanks shall be placed in a lined and bermed area.
   b) The tanks shall be inspected twice per day – during the morning and afternoon facility rounds to verify that the tanks are not leaking and/or there is no standing water in the lined and bermed area
   c) Water shall be transferred from the pond to the tanks individually using a gasoline power pump and 4" hose.
   d) The hose and pump shall be placed inside a lined and bermed corridor that is 1.5' tall running the length from the pond to the tank storage area to ensure no spills to the ground can occur.
   e) Water pulled from the pond, while be filtered prior to being placed into the tank using 10um polypropylene filters to ensure sludge and oil do not enter the tanks in an effort to eliminate H_2S formation in the tanks.
   f) When water is being pumped between the pond and a tank, the activity shall be continually supervised by a Basin Disposal employee.
   g) When the tanks are to be emptied, water will be pumped in the same manner back to the pond. Water from the pond is pumped through a set of filters prior to being injected into the Class II disposal well.
   h) When water is pumped from the tanks to the pond, one of the hand held H_2S monitors shall be used to determine if H_2S has developed in the storage tank.
   i) If H_2S is detected, additional bleach or sodium chlorite shall be added to the pond following the procedure in the H_2S Prevention SOP.
   j) Pursuant to corrosivity testing under Subparagraph (m) of Paragraph (2) of Subsection D of 19.15.9.712 NMAC and approval under Paragraph (2) of Subsection C of 19.15.9.712 NMAC the filters will be disposed at the Waste Management facility along with the 5um and 20um filters used to filter the water from the pond prior to injection.

Record Keeping & Reporting

Section "REPORTING AND RECORD KEEPING" of OCD PERMIT NM-01-0005

Comprehensive records of all material disposed of at the facility must be maintained at the facility. The records for each load must include: 1) generator; 2)

9) Record Keeping and Reporting
   a) Basin Disposal operates three types of logbooks 1) produced water, 2) reserve pit, and 3) rejected loads
   b) Basin personnel shall record 1) generator; 2) origin; 3) date received; 4) quantity; and 5) transporter.
   c) Logbooks shall be maintained for a minimum of 5 years after operations at the plant have ceased.

30. Closure and Post Closure Plan

30.1 Introduction
The Basin Closure and Post Closure Policy establishes minimum standards, requirements, and duties for closing the temporary storage tank area in a manner that will protect fresh water, public health, safety and the environment pursuant to EMNRD/OCD requirements.

30.2 Scope
The Basin Closure and Post Closure Policy shall be followed by all Basin employees with the Key responsibilities as follows:

i. Senior Management: Provides the necessary support, commitment, and resources to develop a closure and post closure plan.

ii. General Manager: Responsible for the preparation of closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment.

iii. Plant Manager: Alerts the General Manager when there are changes in Basin Disposal activities that could impact or effect the closure or post closure plan.

30.3 Purpose
The requirements in the Closure and Post Closure Policy will aid in ensuring the closure of the temporary storage tank area in a manner that will protect fresh water, public health, safety and the environment pursuant to EMNRD/OCD requirements.

30.4 Required Forms
None

30.5 Reference
Subsection D of 19.15.36.18 NMAC and 19.15.36.11 NMAC

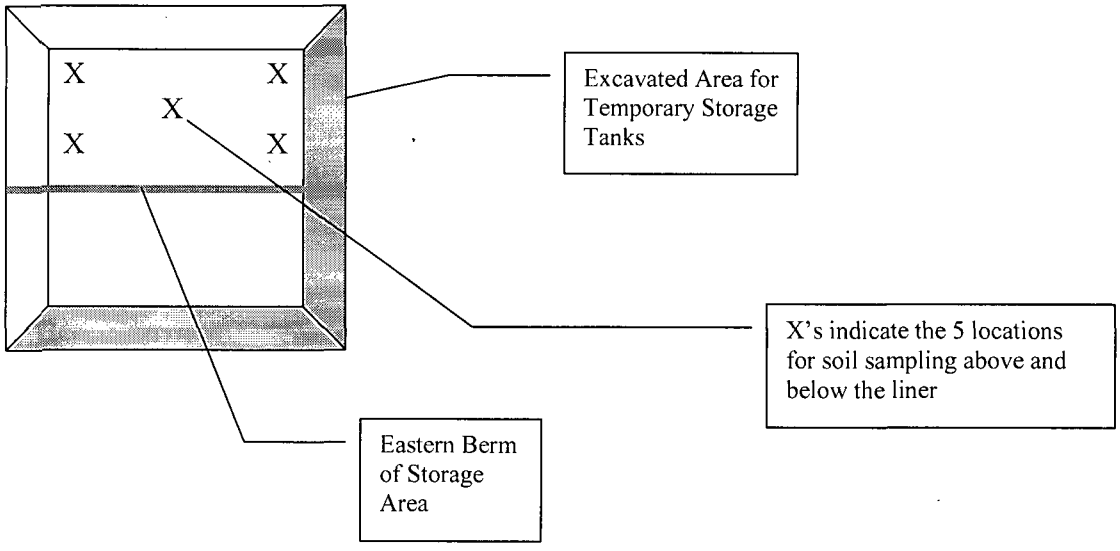
30.6 Policy

30.6.1 Submittal of Financial Assurance
i. Basin shall submit acceptable financial assurance in the amount $15,000
ii. One or more of the following forms of financial assurance shall be used
1) Surety bonds.
2) Letters of credit.
3) Cash accounts.

30.6.2 Notification and Approval
1) As part of the permit application, the General Manager shall provide a proposed schedule for closure to the Environmental Bureau of the EMNRD/OCD.
2) Closure shall proceed in accordance with the approved closure plan and schedule and modifications or additional requirements the EMNRD/OCD imposes.
3) Upon completion Basin Disposal shall not re-vegetate or backfill the site since Basin Disposal is working to submit an application to the EMNRD/OCD for a major modification to the facility that will utilize that area.

30.6.3 Closure Standards
1) The produced water in the temporary tanks will be pumped to Basin Disposal's pond.
2) The temporary tanks will be removed the location within 6 months of the approval's effective date..
3) Any free liquids in the lined bermed area shall be removed and disposed of in Basin Disposal's pond.
4) The soil above the liner shall be sampled from five locations as shown in the diagram below, composited, and analyzed per Paragraph (4) of Subsection E of 19.15.36.18 NMAC for TPH, BTEX, metals and other inorganics listed in Subsections A and B of 20.69.2.3103 NMAC.

5) Upon receipt of the analytical results, Basin Disposal will submit the results to the OCD along with a request to either re-use the soil or send it to an EMNRD/OCD-permitted landfarm or landfill. Basin Disposal will also submit a request to dispose of the liner at either the local Waste Management facility or an EMNRD/OCD -permitted landfill based on the results of the analytical data.
6) The soil below the liner shall be sampled from five locations as shown in the diagram below, composited, and analyzed per Paragraph (4) of Subsection E of 19.15.36.18 NMAC for TPH, BTEX, metals and other inorganics listed in Subsections A and B of 20.69.2.3103 NMAC.
7) Upon receipt of the analytical results, Basin Disposal will submit the results to the OCD along with a request to either consider the area closed or perform additional remediation as needed.



Action	Estimated Schedule
Basin submits additional $15,000 Financial Assurance	
Effective Date of Temporary Permit Expansion	Date the NM OCD grants Apporval
Basin completes berm to control run on water	Within 1 day of Effective Date
Basin sets the 25 tanks	Within 1-2 days of completing berm to control run on water
Basin constructs berm on East side of lined area	Upon completion of setting tanks
Basin constructs lined corridor for the pump and hose to transport water to and from the pond	Upon completion of setting tanks
Basin begins to transfer water from pond to tanks as needed	Within 1 day of completing the lined transport corridor
Basin has all 25 tanks removed	Within 5 months of Effective Date
Basin has samples collected and analyzed from soil above liner	Within 7 days of the removal of the tanks
Basin receives analytical results from laboratory from soil samples above liner	Within 14 days of sampling
Basin submits results from soil samples above liner to the OCD and submits request to either dispose of the soil or re-use the soil based on the analytical results. Basin will also submit to the OCD based on the analytical results a request to dispose of the liner at the Waste Management facility in San Juan county or at an OCD-approved landfill in the SE part of New Mexico	Within 2 days of receiving analytical results
Basin disposes of liner using method apporved	Within 2 days of receiving OCD approval of method
Basin has samples collected and analyzed from soil below liner	Within 2 days of liner removal
Basin receives analytical results from laboratory from soil samples below liner	Within 14 days of sampling
Basin submits results from soil samples below liner to the OCD and submits request to either classify the area as closed or perform needed remediation of the soil as shown from the analytical results.	Within 5 days of receiving OCD approval of method
Basin performs additional remediation and sampling, if necessary	Completed and results submitted within 30 days of determining additional work is needed/
OCD releases the financial assurance	When the division determines that closure is complete it shall release the financial assurance as provided in Paragraph (1) of Subsection B of 19.15.36.18 NMAC

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

27 March 2008

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

RE: Permit Modification
Temporary Frac Tanks for Produced Water Storage
Exception under 19.15.36.19 B NMAC

Dear Mr. Jones;

I am writing to request an emergency exception as provided on Exception under 19.15.36.19 B NMAC which states "*The division may grant exceptions to, or waivers of, or approve alternatives to requirements of 19.15.36 NMAC in an emergency without notice or hearing. The operator requesting an exception or waiver, except in an emergency, shall apply for a surface waste management facility permit modification in accordance with Subsection C of 19.15.36.8 NMAC.*" Please find the attached surface waste management facility permit modification application.

Oil and gas companies in the Farmington area had great difficulty reaching their locations In February due to weather conditions and remaining in compliance with the Bureau of Land Managements' "rut rule". Now that the weather and therefore road conditions have improved, companies are making up for that backlog by trucking additional water. Because of this, the pond level has begun to rise at a rapid pace.

To avoid having to turn companies away, which would mean them shutting in wells, in this letter, we request authorization to set twenty-five (25) 400 BBL tanks for the temporary storage of produced water.

Per permit NM-1-005 requirement: "*All new or replacement above-ground tanks containing materials other than fresh water must be placed on an impermeable pad and be bermed so that the area will hold one and one-third the volume of the largest tank or all interconnected tanks, whichever is greater.*".

In evaluating the site, the location that provides the greatest protection of fresh water, public health and the environment is the area where the temporary pond was being constructed. An area 150' by 300' by 5 feet deep has already been constructed. We propose to create a lined and bermed area using a 20 mil liner at that location with the dimensions of approximately 150' x 150' yielding a lined and bermed volume of 12,000 barrels. The 25 temporary frac tanks will not be connected and will be inspected daily for tank, piping and berm integrity.

Using this area, instead of constructing another location, will minimize the disturbance of the surface soil.

Basin Disposal, Inc. shall ensure all proposed tanks are identified by a sign posted not more than 50 feet from the tanks which is made of durable construction and with lettering large enough to be legible under normal conditions at a distance of 50 feet with: the name of the operator, and the location of the tank(s) by unit letter, section, township, and range.

The proposed tanks will be on site for a maximum period of six months. Samples from the soil below the liner will be taken and analyzed for: Total Petroluem Hydrocarbon, BTEX, Diesel Range Organics, Gasoline Range Organics, and Chloride.

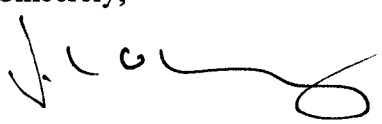
Basin Disposal will provide an additional $15,000 in financial assurance for this project.

Basin Disposal, Inc. respectfully requests that the OCD consider and approve this request. Approval will allow Basin Disposal to accept enough water on a temporary basis to keep producers from having to curtail production and shut in wells. Also, it is our belief that having the water stored at one continuously monitored location , the water disposal location, as opposed to being stored at numerous unmanned pits and tanks in the field provides for increased protection of fresh water, public health and the environment by increasing the level of stewardship for that water.

Attached are documents addressing the requirements outlined in 19.15.36.8 NMAC, Surface Waste Management Facility Permits and Application Requirements in greater detail.

Due to the time sensitive nature of the circumstance, I respectfully request that this application be evaluated and approved as quickly as possible. If you have any questions, please feel free to phone me at 334-3013 or 320-2840 or via email at bdinc@digii.net.

Sincerely;



John Volkerding
General Manager

Encl: C-137 (two copies)
Attachment A: Addresses 19.15.38.8 NMAC Paragraph C(4)
Attachment B: Addresses 19.15.38.8 NMAC Paragraph C(6)
Attachment C: Addresses 19.15.38.8 NMAC Paragraph C(7)
Attachment D: Addresses 19.15.38.8 NMAC Paragraph C(8)
Attachment E: Addresses 19.15.38.8 NMAC Paragraph C(9)
Attachment F: Addresses 19.15.38.8 NMAC Paragraph C(10)
Attachment G: Addresses 19.15.38.8 NMAC Paragraph C(11)
Attachment H: Addresses 19.15.38.8 NMAC Paragraph C(14)

Cc: Aztec OCD Office

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

For State Use Only:

Form C-137
Revised March 1, 2007

Submit 1 Copy to Santa Fe Office

APPLICATION FOR SURFACE WASTE MANAGEMENT FACILITY

A meeting should be scheduled with the Division's Santa Fe office Environmental Bureau prior to pursuing an application for a surface waste management facility in order to determine if the proposed location is capable of satisfying the siting requirements of Subsections A and B of 19.15.36.13 NMAC for consideration of an application submittal.

1 Application: ☐ New ☒ Modification ☐ Renewal

2. Type: ☒ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfill ☐ Landfarm ☐ Other

3. Facility Status: ☒ Commercial ☐ Centralized

4. Operator: BASIN DISPOSAL, INC

Address: 200 MONTANA, BLOOMFIELD NM 87413

Contact Person: JOHN VOLKERDING Phone: 505-334-3013

5. Location: SE /4 NW /4 Section 3 Township 29N Range 11W

6. Is this an existing facility? ☒ Yes ☐ No If yes, provide permit number NM-1-005

7. Attach the names and addresses of the applicant and principal officers and owners of 25 percent or more of the applicant. Specify the office held by each officer and identify the individual(s) primary responsible for overseeing management of the facility.

8. Attach a plat and topographic map showing the surface waste management facility's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the surface waste management facility site; watercourses; fresh water sources, including wells and springs; and inhabited buildings within one mile of the site's perimeter.

9. Attach the names and addresses of the surface owners of the real property on which the surface waste management facility is sited and surface owners of the real property within one mile of the site's perimeter.

10. Attach a description of the surface waste management facility with a diagram indicating the location of fences and cattle guards, and detailed construction/installation diagrams of pits, liners, dikes, piping, sprayers, tanks, roads, fences, gates, berms, pipelines crossing the surface waste management facility, buildings and chemical storage areas.

11. Attach engineering designs, certified by a registered professional engineer, including technical data on the design elements of each applicable treatment, remediation and disposal method and detailed designs of surface impoundments.

12. Attach a plan for management of approved oil field wastes that complies with the applicable requirements contained in 19.15.36.13, 19.15.36.14, 19.15.36.15 and 19.15.36.17 NMAC.

13. Attach an inspection and maintenance plan that complies with the requirements contained in Subsection L of 19.15.36.13 NMAC.

14. Attach a hydrogen sulfide prevention and contingency plan that complies with those provisions of 19.15.3.118 NMAC that apply to surface waste management facilities.

15. Attach a closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment (the closure and post closure plan shall comply with the requirements contained in Subsection D of 19.15.36.18 NMAC).

16. Attach a contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978, Sections 12-12-1 through 12-12-30, as amended (the Emergency Management Act).

17. Attach a plan to control run-on water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC.

18. In the case of an application to permit a new or expanded landfill, attach a leachate management plan that describes the anticipated amount of leachate that will be generated and the leachate's handling, storage, treatment and disposal, including final post closure options.

19. In the case of an application to permit a new or expanded landfill, attach a gas safety management plan that complies with the requirements of Subsection O of 19.15.36.13 NMAC

20. Attach a best management practice plan to ensure protection of fresh water, public health, safety and the environment.

21. Attach a demonstration of compliance with the siting requirements of Subsections A and B of 19.15.36.13 NMAC.

22. Attach geological/hydrological data including:

(a) a map showing names and location of streams, springs or other watercourses, and water wells within one mile of the site;

(b) laboratory analyses, performed by an independent commercial laboratory, for major cations and anions; benzene, toluene, ethyl benzene and xylenes (BTEX); RCRA metals; and total dissolved solids (TDS) of ground water samples of the shallowest fresh water aquifer beneath the proposed site;

(c) depth to, formation name, type and thickness of the shallowest fresh water aquifer;

(d) soil types beneath the proposed surface waste management facility, including a lithologic description of soil and rock members from ground surface down to the top of the shallowest fresh water aquifer;

(e) geologic cross-sections;

(f) potentiometric maps for the shallowest fresh water aquifer; and

(g) porosity, permeability, conductivity, compaction ratios and swelling characteristics for the sediments on which the contaminated soils will be placed.

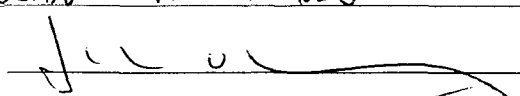
23. In the case of an existing surface waste management facility applying for a minor modification, describe the proposed change and identify information that has changed from the last C-137 filing.

24. The division may require additional information to demonstrate that the surface waste management facility's operation will not adversely impact fresh water, public health, safety or the environment and that the surface waste management facility will comply with division rules and orders

25. CERTIFICATION

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name: JOHN VOLKERDING Title: GENERAL MANAGER

Signature:  Date: 03/26/08

E-mail Address: BPWC@DIGIL.NET

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25. CERTIFICATION

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name: JOHN VOLKERDING Title: GENERAL MANAGER

Signature: [signature] Date: 03/26/08

E-mail Address: BDWC@DIGIL.NET

Attachment A

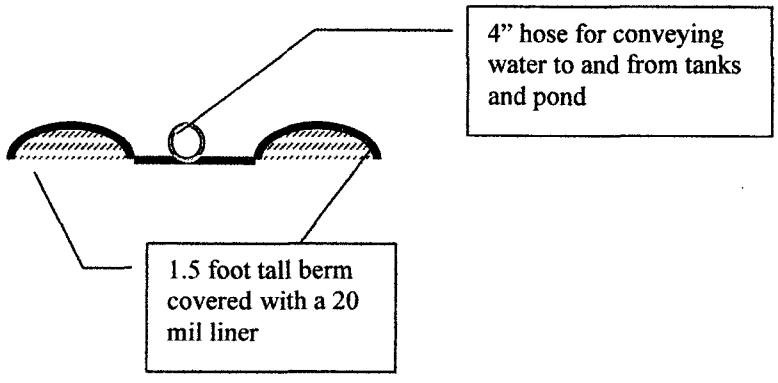
19.15.38.8 NMAC Paragraph C(4) and/or Form C-137, Paragraph 8
a description of the surface waste management facility with a diagram indicating the location of fences and cattle guards, and detailed construction/installation diagrams of pits, liners, dikes, piping, sprayers, tanks, roads, fences, gates, berms, pipelines crossing the surface waste management facility, buildings and chemical storage areas;

Basin Disposal proposes to temporarily set twenty five (25) 400 bbls tanks for the storage of produced water.

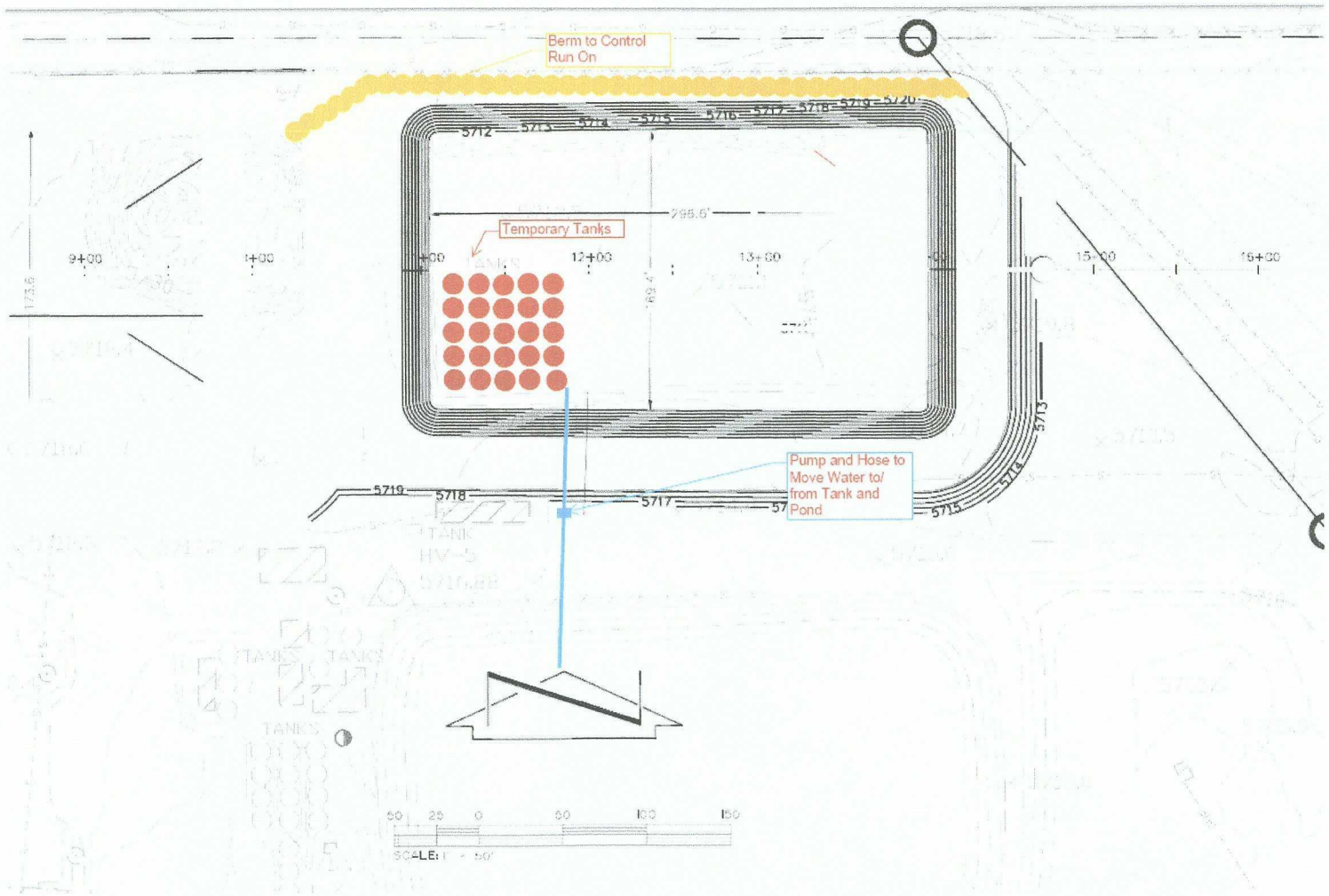
In evaluating the site, the location that provides the greatest protection of fresh water, public health and the environment is the area where the temporary pond was being constructed to the north of the current pond.. An area 150' by 300' by 5 feet deep has already been constructed. We propose to create a lined and bermed area at that location with the dimensions of approximately 150' x 150'. The sides on the North, South, West are 5 feet tall. The berm on the east side will be 3 feet tall, yielding a lined and bermed volume of 67,500 cubic feet or 12,000 barrels. The 25 temporary tanks will not be connected. The liner will be a 20 mil geosynthetic material.

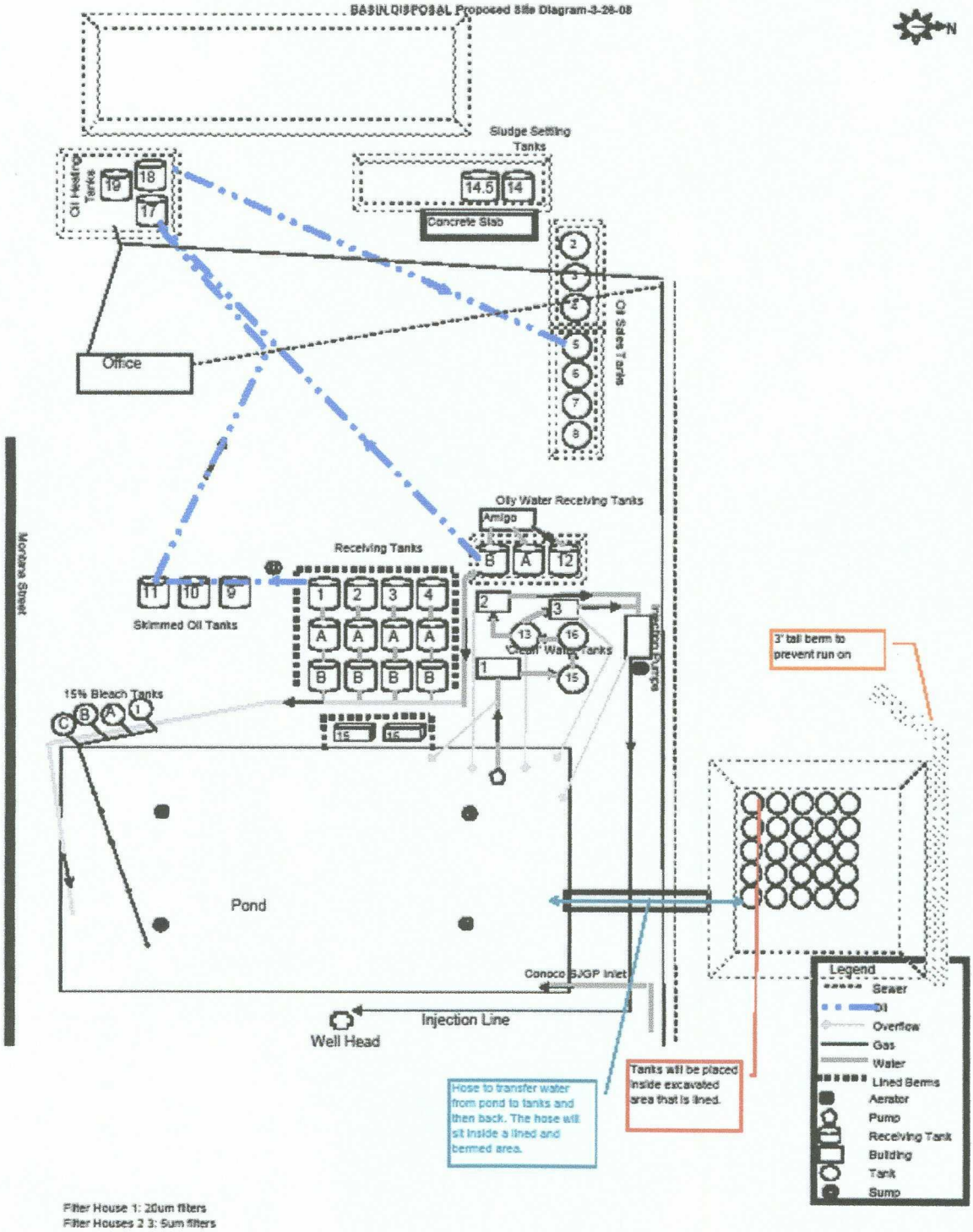
The tanks and storage area will be inspected twice daily (morning and afternoon) for tank and berm integrity.

Water will be drawn from the pond through 4" hoses via a gasoline powered pump to fill the tanks. When water is emptied from the tanks, water will be drawn via the 4" hoses and pump back to the pond. Water is drawn from the pond through filters to be injected into the Class II well. The hoses and pump will sit inside a lined and bermed area.



The area where the tanks will be set will have a 3 foot tall dirt berm constructed along the north west corner and north side to prevent water from running onto the property and into the excavated area.


Berm to Control Run On
Temporary Tanks
Pump and Hose to Move Water to/ from Tank and Pond
295.6'
9+00
11+00
12+00
13+00
15+00
16+00
5712
5713
5714
5715
5716
5717
5718
5719
5720
SCALE: 1" = 50'



Filter House 1: 20um filters
Filter Houses 2 3: 5um filters

Attachment B

19.15.38.8 NMAC Paragraph C(6) and/or Form C-137, Paragraph 12
"a plan for management of approved oil field wastes that complies with the applicable requirements contained in 19.15.36.13, 19.15.36.14, 19.15.36.15 and 19.15.36.17 NMAC"

Attached is Basin Disposal's Oil Field Waste Management SOP. Section 8 addresses the use of temporary tanks for produced water storage.

Purpose

Provide step by step instructions on how to comply with:

- 19.15.36 NMAC Sections 8, 13, 14, 15, 17
- Basin Disposal PERMIT NM-01-0005
- Basin Disposal HSE Manual, Section 4.1, Accountability and Responsibility
- Basin Disposal EMS, Section 5, Basic HSE Performance Expectations Policy

C-133

Section "FACILITY AND EVAPORATION POND OPERATION" of OCD PERMIT NM-01-0005

No produced water may be received at the facility unless the transporter has a valid Form C-133, Authorization to Move Produced Water, on file with the Division.

1) Verification of Valid C-133
   a) Quarterly the OCD updates the C-133 list at http://www.emnrd.state.nm.us/ocd/Statistics.htm
   b) Quarterly the General Manager shall provide the plant personnel an updated list.
   c) The C-133 list shall be maintained in the Plant Manager's filing cabinet.
   d) Prior to accepting water, plant personnel shall ensure that the hauling company has a valid C-133.
   e) Since all haulers that have frequented Basin Disposal in the past have been verified already, the verification will likely only be necessary for new haulers.
   f) If a valid C-133 is not on file, the hauler shall not be allowed to unload the water.
   g) Call the Plant Manager or General Manager if assistance is needed.

C-138

Section "WASTE ACCEPTANE CRITERIA" of OCD PERMIT NM-01-0005

The facility is authorized to accept only oilfield wastes that are exempt from RCRA Subtitle C regulations and that do not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403. All loads of these wastes received at the facility must be accompanied by a "Generator Certificate of Waste Status" signed by the generator.

2) Verification of Exempt Waste Status
   a) Basin Disposal tickets contain the language: *I do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, any and all waste delivered to Basin Disposal Inc. from the above locations is: EXEMPT oilfield waste. This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 Subpart 1403.C and D.*
   b) The driver must sign the ticket making the above certification.
   c) If the driver does not sign the ticket, the hauler shall not be allowed to unload the water.
   d) Call the Plant Manager or General Manager if assistance is needed.

Fluid Sampling

Section "WASTE ACCEPTANCE CRITERIA" of OCD PERMIT NM-01-0005

The facility is authorized to accept only oilfield wastes that are exempt from RCRA Subtitle C regulations

3) Examination of Fluid from Cap(s)
   a) All loads shall be checked prior to acceptance to check for the presence of non-permitted materials (such as, compressor oil) and to determine the solid content of the load (i.e. is the load "clean" or "dirty" for the purposes of pricing
   b) Every truck shall stop at the inspection landing.

   c) Basin personnel shall not step onto the truck until the driver has placed the truck in park with the brake applied, opened the door, and has his/her legs outside the cab. This is to ensure the truck does not move while Basin personnel are on the truck.
   d) Basin personnel shall wear neoprene or other heavy duty non-permeable gloves.
   e) The cap shall be opened and the metal rod inserted to the bottom of the tank.
   f) Care shall be exercised as H_2S may be present when the cap is opened. If there is any indication that H_2S may be present, the H_2S safety procedure shall be followed.
   g) Based on whether the rod hits the metal bottom of the tank or is slowed by sludge/solid material, Basin personnel will be able to gauge if the load may potentially be dirty.
   h) The metal rod shall be pulled out from the tank and the fluid on the rod examined for the presence of oils or other non-exempt materials.
   i) Odor can also be an indication if the load contains fluids that are non-exempt.

4) Presence of H_2S
   a) In the event H_2S is suspected, either one of the H_2S monitors shall be used to determine the concentration
   b) Refer to specific owner's manual for operation instructions.
   c) The battery and calibration date shall be checked to ensure both are current.
   d) The tube wand shall be used to acquire a sample.
   e) Remaining as far away from the cap opening is essential to minimize the potential for exposure. Safety is the most important thing to consider when checking for H2S.
   f) If H2S is noted, the driver shall contact the company man to determine if the company wants Basin to treat the load.
   g) If Basin treats the load it shall be treated per the August 22, 2006 letter (attached) and the table below:

Air PPM	Coffee Cans Used	Cost @ $125/Can
<50	1	$125
50-100	1.5	$188
100-150	2	$250
150-200	2.5	$313
200-250	3	$375
250-300	3.5	$438
300-350	4	$500
350-400	4.5	$563
400-450	5	$625
450-500	5.5	$688
500-550	6	$750
550-600	6.5	$813
600-650	7	$875
650-700	7.5	$938
700-750	8	$1,000
750-800	8.5	$1,063
800-850	9	$1,125
850-900	9.5	$1,188
900-950	10	$1,250
950-1000	10.5	$1,313

h) The truck will "roll" the load for 15-30 minutes and be tested again. Treatment will continue until the H2S reading is below 50 ppm.
i) Call the Plant Manager or General Manager if assistance is needed.

5) Presence of Non-Exempt fluids
   a) In the event compressor oil or other non-exempt fluids, a sample of the fluid shall be collected in a white Styrofoam cup.
   b) The date, company, hauler, and location shall be noted on the cup.
   c) The load shall be prevented from unloading at Basin Disposal.
   d) Call the Plant Manager or General Manager if assistance is needed.
   e) Samples shall be maintained for two weeks on the shelves in the shop for inspection by the production company personnel

6) Presence of High Solid Content
   a) In the event high solid/sludge content is suspected, a sample of the water shall be collected in a white Styrofoam cup.
   b) The date, company, hauler, and location shall be noted on the cup.
   c) If the load can be accepted with filtration, the driver shall call the company for permission to be charged the normal price plus cost of filters.
   d) If the load cannot be accepted due to high solid content, the driver shall call the company to inform them the load has been rejected.
   e) The load shall be prevented from unloading at Basin Disposal.
   f) Call the Plant Manager or General Manager if assistance is needed.
   g) Samples shall be maintained for two weeks on the shelves in the shop for inspection by the production company personnel

Unloading
Section "FACILITY AND EVAPORATION POND OPERATION" of OCD

7) Unloading
   a) Basin Disposal has 5 unloading stations (Tanks 1-4, Amigo pit)
   b) To minimize the chance for a collision between trucks, only 5 trucks shall be allowed past the inspection platform at any one time.

PERMIT NM-01-0005

All produced water must be unloaded into tanks..

c) Trucks shall back up to the tank number as instructed by Basin personnel.
d) Drivers shall connect their grounding straps to the grounding stakes at their specific tank.
e) Trucks shall exit the facility around the back side of the shop building.
f) Failure of drivers to follow these procedures shall be brought to the attention of Basin management for proper resolution with the hauling company.

Temporary Tanks

8) In the Event Basin Disposal Receives Permission from the NM OCD to set Temporary Tanks for the Storage of Produced Water
   a) Tanks shall be placed in a lined and bermed area.
   b) The tanks shall be inspected twice per day – during the morning and afternoon facility rounds to verify that the tanks are not leaking and/or there is no standing water in the lined and bermed area
   c) Water shall be transferred from the pond to the tanks individually using a gasoline power pump and 4" hose.
   d) The hose and pump shall be placed inside a lined and bermed corridor that is 1.5' tall running the length from the pond to the tank storage area to ensure no spills to the ground can occur.
   e) Water pulled from the pond, while be filtered prior to being placed into the tank using 10um polypropylene filters to ensure sludge and oil do not enter the tanks in an effort to eliminate H_2S formation in the tanks.
   f) When water is being pumped between the pond and a tank, the activity shall be continually supervised by a Basin Disposal employee.
   g) When the tanks are to be emptied, water will be pumped in the same manner back to the pond. Water from the pond is pumped through a set of filters prior to being injected into the Class II disposal well.
   h) When water is pumped from the tanks to the pond, one of the hand held H_2S monitors shall be used to determine if H_2S has developed in the storage tank.
   i) If H_2S is detected, additional bleach or sodium chlorite shall be added to the pond following the procedure in the H_2S Prevention SOP.
   j) The filters will be disposed at the Waste Management facility along with the 5um and 20um filters used to filter the water from the pond prior to injection.

Record Keeping & Reporting

Section "REPORTING AND RECORD KEEPING" of OCD PERMIT NM-01-0005

Comprehensive records of all material disposed of at the facility must be maintained at the facility. The records for each load must include: 1) generator; 2)

9) Record Keeping and Reporting
   a) Basin Disposal operates three types of logbooks 1) produced water, 2) reserve pit, and 3) rejected loads
   b) Basin personnel shall record 1) generator; 2) origin; 3) date received; 4) quantity; and 5) transporter.
   c) Logbooks shall be maintained for a minimum of 5 years after operations at the plant have ceased.

origin; 3) date received; 4) quantity; and 5) transporter.

d) At the end of each month, the General Manager shall compile information to be submitted electronically for the C-115 report to the OCD.

Approval

Attachment C

19.15.38.8 NMAC Paragraph C(7) and/or Form C-137, Paragraph 13
"an inspection and maintenance plan that complies with the requirements contained in Subsection L of 19.15.36.13 NMAC;"

Attached is Basin Disposal's Oil Field Waste Management SOP. Section 8 addresses the use of temporary tanks for produced water storage.

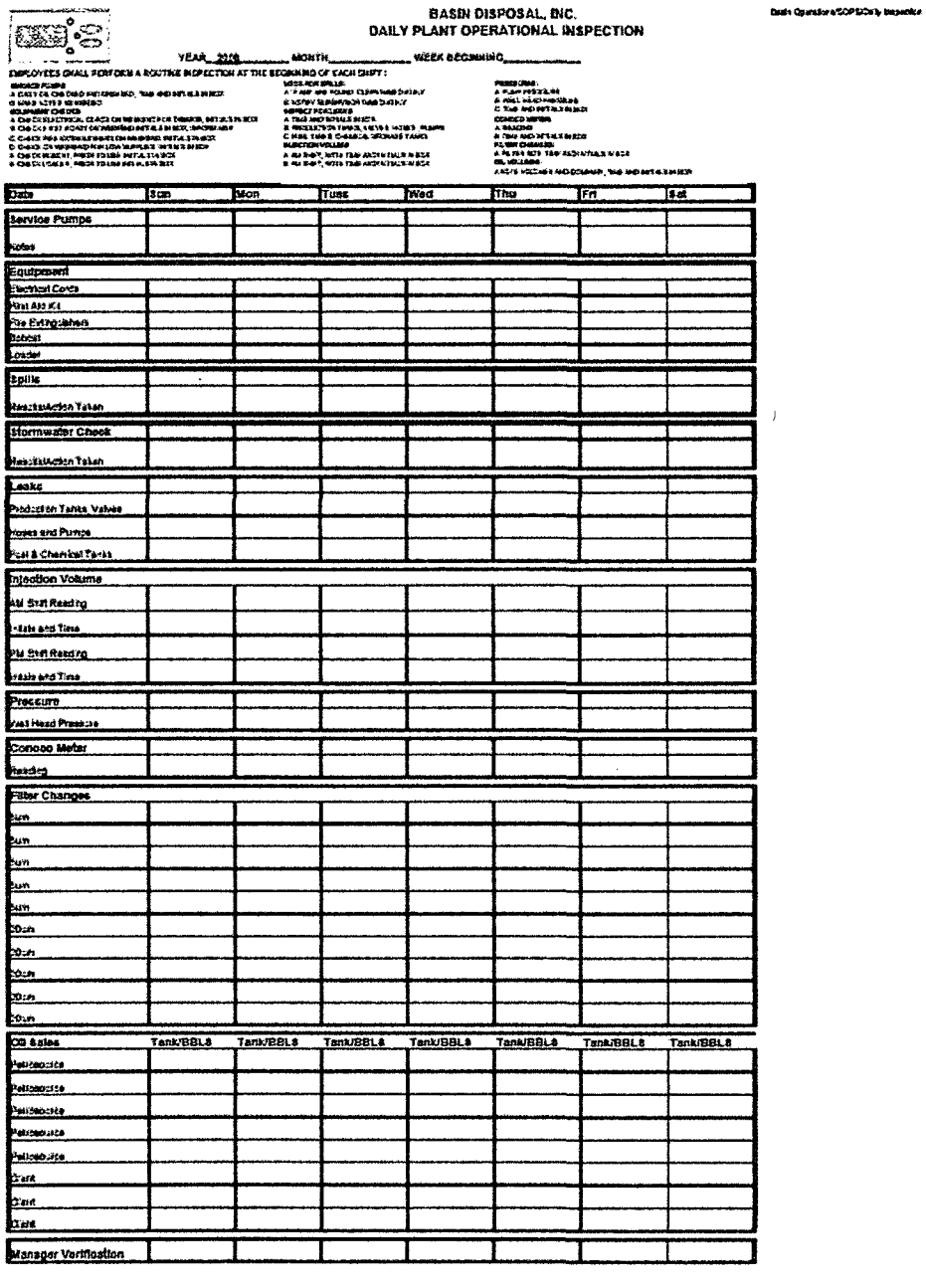
Purpose

Provide step by step instructions on how to comply with:

- Subsection L of 19.15.36.13 NMAC
- Basin Disposal HSE Manual, Section 4.1, Accountability and Responsibility

Operational Inspection

1) Using the Daily Plant Operation Inspection form



BASIN DISPOSAL, INC.
DAILY PLANT OPERATIONAL INSPECTION

YEAR 2008 MONTH _____ WEEK BEGINNING _____

EMPLOYEES SHALL PERFORM A ROUTINE INSPECTION AT THE BEGINNING OF EACH SHIFT:

Date	Sun	Mon	Tues	Wed	Thu	Fri	Sat
Service Pumps							
Notes							
Equipment							
Electrical Cords							
First Aid Kit							
Fire Extinguishers							
Bobcat							
Loader							
Spills							
Rectification Taken							
Stormwater Check							
Rectification Taken							
Leaks							
Production Tanks, Valves							
Hoses and Pumps							
Frac & Chemical Tanks							
Injection Volume							
AM Shift Reading							
Initials and Time							
PM Shift Reading							
Initials and Time							
Pressure							
Well Head Pressure							
Conoco Meter							
Reading							
Filter Changes							
Sun							
Sun							
Sun							
Sun							
Sun							
20sun							
20sun							
20sun							
20sun							
20sun							
OB Sales	Tank/BBLS	Tank/BBLS	Tank/BBLS	Tank/BBLS	Tank/BBLS	Tank/BBLS	Tank/BBLS
Petroscale							
Petroscale							
Petroscale							
Petroscale							
Petroscale							
Client							
Client							
Client							
Manager Verification							

a) The following shall be inspected, the condition noted, and any actions taken documented:
b) Injection Pump Service
c) Condition of the following equipment shall be checked on weekends
    i) Electrical cords
    ii) First Aid Kit
    iii) Fire Extinguishers
d) Condition of the following equipment shall be checked daily
    i) Bobcat
    ii) Front end loader
e) Any spills shall be noted and the procedures in the Spill SOP shall be followed
f) The condition of stormwater run on and run off controls shall be checked, documented, and repairs made if needed.
g) Any leaks from the following shall be repaired and notifications made as outlined in the Spill SOP
    i) Receiving Tanks and Valves
    ii) Hoses and Pumps
    iii) Diesel and Bleach Storage Tanks
h) Well Injection Volume (am and pm)
i) Well Head Pressure
j) Conoco Water Meter reading
k) Filter Changes
    i) 5 um
    ii) 20 um
l) Oil Sales
m) The Plant Manager or Assistant Manager on duty shall verify that the above is accurate and complete.

Air and Water Inspection

2) Using the Daily Air and Water Inspection form
    a) The following shall be inspected, the condition noted, and any actions taken documented:
    b) Ambient Air H2S Readings (am and pm)
        i) H2S reading (ppm)
        ii) Wind speed
        iii) Wind direction
        iv) Initials and Time
    c) Sump Checks
        i) Pond Sump
        ii) Cement Slab Sump
        iii) Loading Area Sump (am and pm)
        iv) Pump House Sump (am and pm)
        v) Loading Sump emptied daily
        vi) Concrete Slab emptied daily

BASIN DISPOSAL, INC.
DAILY AIR AND WATER INSPECTION

YEAR 2008 MONTH _____ WEEK BEGINNING _____

Date	Sun	Mon	Tues	Wed	Thu	Fri	Sat
Ambient Air H2S (AM)							
H2S Reading (ppm)							
Wind Speed (mph)							
Wind Direction							
Initials and Time							
Ambient Air H2S (PM)							
H2S Reading (ppm)							
Wind Speed (mph)							
Wind Direction							
Initials and Time							
Sump Levels							
AM Pond Sump (ft)							
AM Cement Slab (ft)							
AM Loading Area (ft)							
AM Pump House Sump (ft)							
Initials and Time							
PM Loading Area (ft)							
PM Pump House(ft)							
Initials and Time							
Loading Sump Emptied							
Initials and Time							
Concrete Slab Emptied							
Initials and Time							
Pond Conditions							
Pond Level							
Overflow Color							
Pond Color							
Water Temperature							
pH							
Dissolved Oxygen							
Total Chlorine							
Dissolved H2S/Sulfides							
Bleach/Chemical							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Manager Verification							
Initials and Time							

Air & Water Daily Inspection V 5-8-07

d) Pond Conditions
   i) Pond Level
   ii) Charge Pump Overflow Color
   iii) Pond Color
   iv) Temperature
   v) pH
   vi) Dissolved oxygen
   vii) Total Chloride
   viii) Dissolved H2S/sulfides
e) Addition of Bleach/Sodium chlorite
f) The Plant Manager or Assistant Manager on duty shall verify that the above is accurate and complete.

Temporary Tank Storage Area

3) In the Event Basin Disposal Receives Permission from the NM OCD to set Temporary Tanks for the Storage of Produced Water
   a) The tanks shall be inspected twice per day – during the morning and afternoon facility rounds to verify that the tanks are not leaking and/or there is no standing water in the lined and bermed area
   b) If a leak or standing water is observed, the procedures in the Spill Prevention, Control, and Countermeasure SOP shall be followed

Approval Signature and Date _____

Attachment D

19.15.38.8 NMAC Paragraph C(8) and/or Form C-137, Paragraph 14
"*hydrogen sulfide prevention and contingency plan that complies with those provisions of 19.15.3.118 NMAC that apply to surface waste management facilities*;"

Please refer to Sections 4 and 8 of the Basin Disposal Oil Field Waste Management SOP and the Basin Disposal H2S Prevention SOP

Purpose

Provide step by step instructions on how to comply with:

- Basin Disposal PERMIT NM-01-0005
- Basin Disposal HSE Manual, Section 4.1, Accountability and Responsibility
- Basin Disposal HSE Manual, Section 16, H_2S Policy

Monitoring

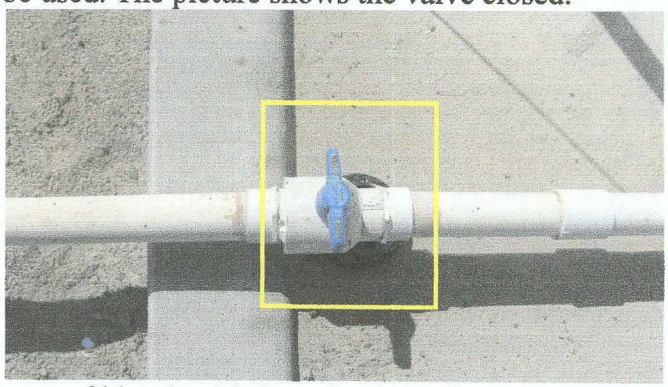
Section "H2S PREVENTION AND CONTINGENCY PLAN" of OCD PERMIT NM-01-0005

Tests of ambient H_2S levels must be conducted twice per day. Test results must be recorded and retained. The tests must be conducted at four (4) locations around the pond at the top of the berm. The wind speed and direction must be recorded in conjunction with each test.

1) Monitoring
   a) H_2S is monitored at 4 locations around the pond.
   b) These monitors communicate wirelessly with the control panel in the office.
   c) The monitors continuously detect H_2S levels and are calibrated monthly by a safety contractor.

Bleach

2) Bleach/Sodium hypochlorite
   a) As directed by the Manager on duty, bleach will be added to control odors and the production of H_2S in the pond.
   b) Bleach shall be added by opening the PVC valve associated with the tank to be used. The picture shows the valve closed.



   c) The amount of bleach added can be determined by using the volume markings on the side of the tank.

Sodium Chlorite

Section "H2S PREVENTION AND CONTINGENCY PLAN" of OCD PERMIT NM-01-0005

At least 1000 gallons of a H_2S treatment chemical must be stored on-site and must not be retained for a period in excess of the manufacturer's stated shelf life. Expired H_2S treatment chemicals may be disposed of in the pond.

3) Sodium Chlorite
   a) Sodium chlorite is very reactive and can ignite in the presence of oil or dirt. Gloves and safety eye wear shall be used when working with sodium chlorite.
   b) As directed by the Manager on duty, sodium hypochlorite will be added to control odors and the production of H_2S in the pond.
   c) A hose shall be attached to the valve on the base of the tote.
   d) The other end of the hose shall be placed in the pond beneath the surface of the water. This ensures sodium chlorite is not in direct contact with oil or water.
   e) The valve shall be opened to begin adding the sodium chlorite.
   f) Sodium chlorite is more concentrated than bleach, thus a smaller volume is used. If needed, ask assistance from the Plant Manager or General Manager.
   g) The tote is translucent so the volume added can be determined by watching the fluid level in the tote.
   h) GRIEF handles the disposal/return of the totes and requires the following information

GREIF

INFORMATION REQUIRED FOR PICKUP

MIN OF 8 IBC'S PER SHIPMENT

COMPANY NAME BASIN DISPOSAL

ADDRESS 200 MONTANA **DOCK/DOOR#** **BLDG#**
**PLEASE ADVISE IF FRT BEING PICKED UP IN SPECIAL AREA

CITY BLOOMFIELD **STATE** NM **ZIP** 87413

CONTACT NAME(S) FOR DRIVER TO ASK FOR: JIMMY BARNES (505-486-3078)
OR JOHN VOLKERDING (505-320-2840)

PH# **FAX** 5053252215 **LOADING HRS** ANY

'''OR TRUCKLOAD SHIPMENTS LIST ANY SPECIAL REQUIREMENTS FOR DRIVERS: .....

NUMBER OF IBC'S (275 gal. Rod cage)
(330 gal. Rod cage)
TOTAL NO. IBC'S **PALLET TYPE(circle one) WOOD PLASTIC STEEL**

PRODUCTS LAST CONTAINED:
25% SODIUM CHLORITE
MFG OF PRODUCT (VENDOR NAME)
INTERNATIONAL DIOXIDE

SHIPPER RESPONSIBLE FOR TRUCK PLACARDS

THIS IS NOT A BILL OF LADING, PLEASE COMPLETE THIS FORM, FAX BACK TO GREIF LOGISTICS AND GREIF WILL PREPARE WILL PREPARE BILL OF LADING AND FAX TO YOU WHEN TRUCK IS SCHEDULED.

- **QUANTITIES MORE THAN 10 IBC'S WILL SHIP VIA TRUCKLOADS WITHIN 5 TO 7 DAYS**
- **QUANTITIES LESS THAN 10 AND EQUAL TO GREATER THAN 8 IBC'S WILL SHIP NEXT DAY. 10 IS MAXIMUM FOR LTL – ALTERATIONS TO THE GREIF BILL OF LADING WILL RESULT IN SHIPPER BEING RESPONSIBLE FOR FREIGHT CHARGES. THIS IS ALSO NOTED ON THE BILL OF LADING.**

If you have questions or concerns, please call: BONNIE/PATTY
800/270-5393 fax: 706/356-2906
Bonnie.elliot@greif.com patty.defoor@greif.com

i) The Plant Manager or General Manager shall arrange for disposal/return of the totes

Safety

4) Safety
   a) Both bleach and sodium hypochlorite are corrosive.
   b) Poly gloves shall be used when working with these chemicals.
   c) Safety eye wear shall be used when working with these chemicals.
   d) Inside the measurement shack is an eye wash station to be used in the event any chemicals enter the eye
   e) See Safety Equipment SOP

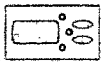
Record Keeping & Reporting

Section "REPORTING AND RECORD KEEPING" of OCD PERMIT NM-01-0005

Comprehensive records of all material disposed of at the facility must be maintained at the facility. The records for each load must include: 1) generator; 2) origin; 3) date received; 4) quantity; and 5) transporter.

5) Record Keeping and Reporting

a) Date, time, volume of bleach and sodium chlorite shall be recorded on the Daily Air and Water log



YEAR 2008 MONTH _____ WEEK BEGINNING _____

AMBIENT AIR WIND SPEED/DIRECTION
A. AM READINGS, NOTE INTIALS AND TIME
B.PM READINGS, NOTE INTIALS AND TIME
SUMP LEVELS
A. POND AND SLAB CHECKED DAILY,NOTE INTIALS AND TIME
B. PUMP SUMP CHECKED AM & PM,NOTE INTIALS AND TIME
C. LOADING AREA SUMP CHECKED AM & PM, NOTE INTIALS AND TIME

LOADING SUMP EMPTIED
A. LOADING AREA SUMP EMPTIED AT 4 PM, NOTE INTIALS AND TIME
CONCRETE SLAB EMPTIED
A.SLAB EMPTIED AT 4 PM, NOTE INTIALS AND TIME

Date	Sun	Mon	Tues	Wed	Thu	Fri	Sat
Chlorite Addition							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Volume							
Time							
Initials							
Monday Verification							
Intials and Time							

b) The manager on duty shall verify that the Daily Air and Water log is completed correctly and completely.

Approval _____

Attachment E

19.15.38.8 NMAC Paragraph C(9) and/or Form C-137, Paragraph 15
"a closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment (the closure and post closure plan shall comply with the requirements contained in Subsection D of 19.15.36.18 NMAC);"

Please find attached:

1. Closure and Post Closure Plan for the Temporary Storage Tanks
2. Schedule for Activities

A third party's contractor's cost estimate was not included because the temporary storage tank area is only a temporary activity and Basin Disposal will utilize its equipment and personnel to close this area.

30. Closure and Post Closure Plan

30.1 Introduction
The Basin Closure and Post Closure Policy establishes minimum standards, requirements, and duties for closing the temporary storage tank area in a manner that will protect fresh water, public health, safety and the environment pursuant to EMNRD/OCD requirements.

30.2 Scope
The Basin Closure and Post Closure Policy shall be followed by all Basin employees with the Key responsibilities as follows:

i. Senior Management: Provides the necessary support, commitment, and resources to develop a closure and post closure plan.

ii. General Manager: Responsible for the preparation of closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment.

iii. Plant Manager: Alerts the General Manager when there are changes in Basin Disposal activities that could impact or effect the closure or post closure plan.

30.3 Purpose
The requirements in the Closure and Post Closure Policy will aid in ensuring the closure of the temporary storage tank area in a manner that will protect fresh water, public health, safety and the environment pursuant to EMNRD/OCD requirements.

30.4 Required Forms
None

30.5 Reference
Subsection D of 19.15.36.18 NMAC and 19.15.36.11 NMAC

30.6 Policy

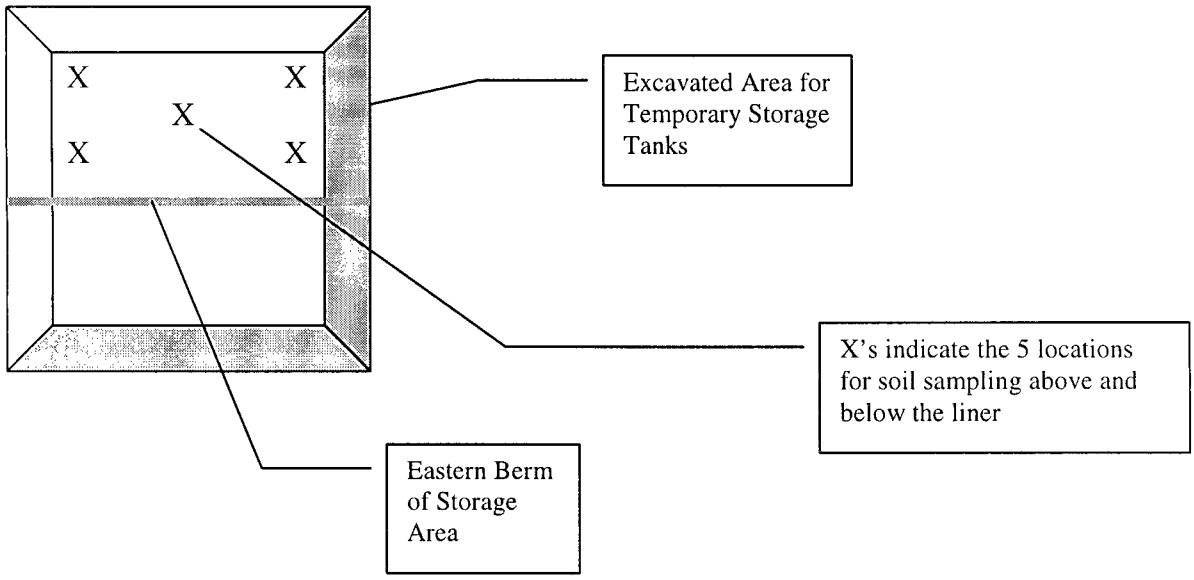
30.6.1 Submittal of Financial Assurance
i. Basin shall submit acceptable financial assurance in the amount $15,000
ii. One or more of the following forms of financial assurance shall be used
1) Surety bonds.
2) Letters of credit.
3) Cash accounts.

30.6.2 Notification and Approval
1) As part of the permit application, the General Manager shall provide a proposed schedule for closure to the Environmental Bureau of the EMNRD/OCD.
2) Closure shall proceed in accordance with the approved closure plan and schedule and modifications or additional requirements the EMNRD/OCD imposes.
3) Upon completion Basin Disposal shall not re-vegetate or backfill the site since Basin Disposal is working to submit an application to the EMNRD/OCD for a major modification to the facility that will utilize that area.

30.6.3 Post Closure Standards
1) Any free liquids in the lined bermed area shall be removed and disposed of in Basin Disposal's pond.
2) The soil above the liner shall be sampled from five locations as shown in the diagram below, composited, and analyzed for Total Petroleum Hydrocarbon (TPH), BTEX, Diesel Range Organics (DRO), Gasoline Range Organics (GRO), Chloride.
3) Upon receipt of the analytical results, Basin Disposal will submit the results to the OCD along with a request to either re-use the soil or send it to an EMNRD/OCD-permitted landfarm or landfill. Basin

Disposal will also submit a request to dispose of the liner at either the local Waste Management facility or an EMNRD/OCD -permitted landfill based on the results of the analytical data.

4) The soil below the liner shall be sampled from five locations as shown in the diagram below, composited, and analyzed for Total Petroleum Hydrocarbon (TPH), BTEX, Diesel Range Organics (DRO), Gasoline Range Organics (GRO), Chloride.
5) Upon receipt of the analytical results, Basin Disposal will submit the results to the OCD along with a request to either consider the area closed or perform additional remediation as needed.



Action	Schedule	Example Dates
Basin submits additional $15,000 Financial Assurance		3/27/2008
Effective Date of Temporary Permit Expansion	Date the NM OCD grants Apporval	3/31/2008
Basin completes berm to control run on water	Within 1 day of Effective Date	4/1/2008
Basin sets the 25 tanks	Within 1-2 days of completing berm to control run on water	4/2/2008
Basin constructs berm on East side of lined area	Upon completion of setting tanks	4/2/2008
Basin constructs lined corridor for the pump and hose to transport water to and from the pond	Upon completion of setting tanks	4/2/2008
Basin begins to transfer water from pond to tanks as needed	Within 1 day of completing the lined transport corridor	4/3/2008
Basin has all 25 tanks removed	Within 5 months of Effective Date	8/28/2008
Basin has samples collected and analyzed from soil above liner	Within 7 days of the removal of the tanks	9/4/2008
Basin receives analytical results from laboratory from soil samples above liner	Within 14 days of sampling	9/18/2008
Basin submits results from soil samples above liner to the OCD and submits request to either dispose of the soil or re-use the soil based on the analytical results. Basin will also submit to the OCD based on the analytical results a request to dispose of the liner at the Waste Management facility in San Juan county or at an OCD-approved landfill in the SE part of New Mexico	Within 2 days of receiving analytical results	9/20/2008
Basin disposes of liner using method apporved	Within 2 days of receiving OCD approval of method	9/27/2008
Basin has samples collected and analyzed from soil below liner	Within 2 days of liner removal	9/29/2008
Basin receives analytical results from laboratory from soil samples below liner	Within 14 days of sampling	10/13/2008
Basin submits results from soil samples below liner to the OCD and submits request to either classify the area as closed or perform needed remediation of the soil as shown from the analytical results.	Within 5 days of receiving OCD approval of method	10/18/2008
Additional remediation and sampling, if necessary	Completed and results submitted within 30 days of determining additional work is needed/	11/17/2008
OCD releases Additional Financial Assurance	Within 30 days of OCD's concurrence the area is satisfactorily closed.	12/17/2008

Attachment F

19.15.38.8 NMAC Paragraph C(10) and/or Form C-137, Paragraph 16
"a contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978, Sections 12-12-1 through 12-12-30, as amended (the Emergency Management Act);"

Attached are the following documents:

1. Section 15 of Basin Disposal's Health, Safety, and Environmental Policy Manual, *Contingency Plan*
2. Section 30 of Basin Disposal's Health, Safety, and Environmental Policy Manual, *Spill Prevention and Countermeasure*

24 Contingency plan

15.1 *Introduction*

The Basin Contingency Plan Policy was designed to minimize hazards to fresh water, public health, safety or the environment from fires, explosions or an unplanned sudden or non-sudden release of contaminants or oil field waste to air, soil, surface water or ground water in accordance with Paragraph N of 19.15.36.13 NMAC. A copy of this plan shall be provided to the EMNRD/OCD Environmental Bureau.

15.2 Scope

The Basin Contingency Plan Policy applies to any Basin Employee who has potential to be involved in an unplanned sudden or non-sudden release of contaminants or oil field waste to air, soil, surface water or ground water. Basin employees shall carry out the plan's provisions immediately whenever there is a fire, explosion or release of contaminants or oil field waste constituents that could threaten fresh water, public health, safety or the environment; provided that the emergency coordinator may deviate from the plan as necessary in an emergency situation.

15.3 *Purpose*

The Basin Contingency Plan Policy minimizes hazards to fresh water, public health, safety or the environment based on the three possible scenarios of:

i. Slow chronic leaking water from pond
ii. Abrupt catastrophic release from pond
iii. Fire at oil treating or storage tanks.
iv.

15.4 *Required Forms*

None

15.5 *Policy*

15.5.1 General Information

i. Emergency coordinator(s):

		Primary
Name	John Volkerding	Jimmy Barnes
Address:	4105 Skyline, Farmington, NM 87401	
Office Phone:	505-334-3013	505-632-8936
Home Phone:	505-327-1061	
Mobile Phone:	505-320-2840	505-486-3078

ii. Emergency equipment:

Equipment	Description	Capabilities
Fire Extinguishers	• **ABC** - This is the multipurpose dry chemical extinguisher. The ABC type is filled with monoammonium phosphate	• combustible materials such as paper, wood, cardboard, and most plastics • flammable or combustible liquids such as gasoline, kerosene, grease and oil • electrical equipment, such as appliances, wiring, circuit breakers and outlets.
Oil Booms	• 100' & 50' sections • Vinyl coated polyester or nylon - ultraviolet resistant • Lead weights provide ballast • 18" width - 6" above water - 12" submerged	• Contains oil & debris
Front End Loader	• 755C Crawler Loader	
Bobcat	• 553 Skid Steer Loader	

iii. Copies of the plan will be maintained at :

Location	Address	Phone
Basin Disposal	200 Montana, Bloomfield, NM	505-632-8936
San Juan County Fire	209 South Oliver Drive, Aztec, NM	505-334-1180
San Juan County Sheriff	211 S. Oliver St, Aztec, NM	(505) 334-6107
San Juan County Emergency Response	209 South Oliver Drive, Aztec, NM	505-334-1180
San Juan Regional Medical Center	801 West Maple,Farmington, NM	505-325-5011

iv. Amendments to Plan:

The contingency plan shall be amended within five working days whenever:

a. Basin's permit is revised or modified;

b. this plan fails in an emergency;
c. Basin changes design, construction, operation, maintenance or other circumstances in a way that increases the potential for fires, explosions or releases of oil field waste constituents that could threaten fresh water, public health, safety or the environment or change the response necessary in an emergency;
d. the list of emergency coordinators or contact information changes
e. the list of emergency equipment changes
f. the emergency coordinator may amend the plan during an emergency as necessary to protect fresh water, public health, safety or the environment.

v. Activation of Plan

The emergency coordinator, will immediately;

a. activate internal surface waste management facility alarms or communication systems, where applicable, to notify surface waste management facility personnel; and
b. notify appropriate state and local agencies with designated response roles if their assistance is needed;

15.5.2 Slow Chronic Leaking from Pond

i. Actions during the Emergency

a. Emergency coordinator will restrict the receipt of water into the plant in order to lower the pond level.
b. Emergency coordinator may utilize additional water trucks to remove water from the pond for disposal at other OCD approved facilities in order to lower the pond level.
c. If Basin has an additional pond, water will be pumped from the leaking pond to the intact pond.
d. If the leak is determined to be in the side of the pond, once the water is below the source of the leak, the liner will be repaired.
e. If the leak is determined to be in the bottom of the pond, all of the water shall be removed and the liner repaired or a new liner introduced.
f. Analysis of the water will be conducted to determine the concentration of constituents of concern.
g. The volume released will be determined and combined with the water analysis from 15.5.2.i.f, the amount of each constituent released will be calculated.
h. Appropriate soil remediation will be performed based on the results of the calculation in 15.5.2.i.g. to clean the environment and recover any oil field waste.
i. An evacuation plan is not required for this event.

j. The New Mexico Oil Conservation Division Environmental Bureau and Aztec Field Office shall be notified in accordance with the Basin Disposal Spill Prevention and Countermeasure Policy.

15.5.3 Abrupt Catastrophic Release from Pond

i. Actions during the Emergency

a. Emergency coordinator will immediately assign someone to contact the Emergency contacts (Sheriff, San Juan County, EMNRD/OCD, EPA)
b. The oil booms will be used downstream to minimize the spread of the water.
c. The front end loader and bobcat will be used to create berms and trenches to minimize the spread of water.
d. The front end loader will be used to repair the levee.
e. Analysis of the water will be conducted to determine the concentration of constituents of concern.
f. The volume released will be determined and combined with the water analysis from 15.5.2.i.e, the amount of each constituent released will be calculated.
g. Appropriate soil remediation will be performed based on the results of the calculation in 15.5.2.i.f to clean the environment and recover any oil field waste.
h. Soil samples will be taken and analyzed along the path of the water and compared to soil analysis of neighboring soil not impacted by the water to determine if additional soil remediation is necessary.
i. Appropriate soil remediation will be performed based on the results of the samples in 15.5.2.i.h to clean the environment and recover any oil field waste.
j. An evacuation plan is not required for this event.
k. The New Mexico Oil Conservation Division Environmental Bureau and Aztec Field Office shall be notified in accordance with the Basin Disposal Spill Prevention and Countermeasure Policy.

15.5.4 Fire at Oil Treating or Storage Tanks

i. Actions during the Emergency

a. Emergency coordinator will immediately contact San Juan County Fire Department.
b. Non-critical personnel will evacuate using Montana Blvd.

c. Critical personnel will use the front end loader and bobcat to create berms and trenches to minimize the spread of oil.
d. If the fire is at the storage tanks, the oil flow will be such as to enter the pond and/or into the depression directly to the north to minimize the extent of the oil spread.
e. If the fire is at the treating tanks, the oil flow will be such as to enter the depression directly to the west to minimize the extent of the oil spread.
f. After the fire is contained, soil samples will be taken and analyzed along the path of the water and compared to soil analysis of neighboring soil not impacted by the oil to determine if the extent of soil remediation necessary.
g. Appropriate soil remediation will be performed based on the results of the samples in 15.5.2.i.f to clean the environment and recover any oil field waste.
h. The New Mexico Oil Conservation Division Environmental Bureau and Aztec Field Office shall be notified in accordance with the Basin Disposal Spill Prevention and Countermeasure Policy.

15.5.5 Leaks from Temporary Storage Tanks

i. Actions during the Emergency

a) The plant manager shall be notified.
b) If the leak from the storage tank can be fixed without emptying the tank, the repairs shall be made immediately. Additional personnel can be called in if needed
c) If the leak from the storage tank cannot be fixed without emptying the tank, the water shall be pumped to the pond using the gasoline powered pump and 4" hose.
d) Any standing water in the lined and bermed area shall be removed using Basin Disposal's vacuum truck and the water transferred to the pond.
e) If the water from the leak is contained within the lined and bermed area, the NM OCD does not need to be informed of the leak unless the volume exceeds 5 barrels. Notification shall be made in accordance with the Basin Disposal Spill Prevention and Countermeasure Policy.
f) An evacuation plan is not required for this event.

15.5.6 Failure of Stormwater Run On Berm Surrounding the Temporary Storage Tanks

i. Actions during the Emergency

a) The plant manager shall be notified immediately
b) The front end loader and/or bobcat shall be used to rebuild the berm

c) Any standing water in the lined and bermed area shall be removed using Basin Disposal's vacuum truck and the water transferred to the pond.
d) The NM OCD does shall be notified. Notification shall be made in accordance with the Basin Disposal Spill Prevention and Countermeasure Policy.
e) An evacuation plan is not required for this event.

Spill Prevention Control and Countermeasure (SPCC) Policy

20.1 *Introduction*

The SPCC program is administered by the United States Environmental Protection Agency under the authority of the Clean Water Act and the Oil Pollution Prevention Act 40 CFR 112. The federal program establishes procedures, methods, equipment and other requirements to prevent the discharge of oil from non-transportation related onshore (and offshore) facilities into the "navigable waters" of the United States.

20.2 *Scope*

Basin believes SPCC regulations apply to the Basin Disposal Plant in that a release from the Basin Disposal Plant could reasonably be expected to discharge oil into "navigable waters" of the United States and Basin maintains an oil storage capacity greater than an amount specified by laws. At the time of writing this policy, the application of SPCC regulations to the Basin Disposal Plant, and Basin Employees, is dependent upon EPA regulators' interpretation of "navigable waters". Per Paragraph K of 19.15.36.13 NMAC Basin Disposal shall comply with the spill reporting and corrective action provisions of 19.15.1.19 or 19.15.3.116 NMAC.

20.3 *Purpose*

The purpose of the Basin SPCC Policy's purpose is to prevent potential environmental damage from any and all discharges of oil into the environment from the Basin Disposal Plant or by a Basin Employee and comply with all reporting and corrective action requirements.

20.4 *Required Forms*

Any reportable spills or discharges of oil shall be reported to appropriate regulatory authorities in accordance with applicable local, state and federal laws, rules and regulations on the forms, and in a manner, required by those laws, rules and regulations, to include but not limited to: EMNRD/OCD Form C-141.

20.5 Definitions

20.5.1 Release shall mean all breaks, leaks, spills, releases, fires or blowouts involving crude oil, produced water, condensate, drilling fluids, completion fluids or other chemical or contaminant or mixture thereof, including oil field wastes and natural gases to the environment.

20.5.2 A Major Release

- an unauthorized release of a volume in excess of 25 barrels;
- an unauthorized release of any volume which
    - results in a fire
    - will reach a water course
    - may with reasonable probability endanger public health
    - cause substantial damage to property or the environment;
- a release of any volume which may with reasonable probability be detrimental to water or cause an exceedance of the standards in Section 19, Subsection B of ,

20.5.3 A Minor Release

- an unauthorized release of a volume in excess of between 5 and 25 barrels;

20.6 Policy

20.6.1 Duties and Plan requirements

i. The General Manager, or designee, shall develop and implement a SPCC Plan as required by the SPCC Program. The plan must include a written description of the Basin Disposal Plant's compliance with SPCC requirements designed to prevent oil releases into navigable waters.

ii. The General Manager, or designee, shall ensure all equipment used to transport and store oil is sized to accommodate any expected volumes of oil. Additionally, the equipment must meet general engineering design practices such as using welded steel tanks to store oil.

iii. The General Manager, or designee, must ensure the Basin Disposal Plant's design includes spill containment and/or diversionary structures (e.g., earthen berms or containment curbing around tanks or other equipment) that are designed to prevent oil from reaching "navigable waters". These prevention measures must be built to contain the storage capacity of the largest single tank and to allow sufficient freeboard for any rain or snow. Any containment berm drain line must have a valve that is normally locked in the closed position. Other containment structures such as retaining walls, curbing, culverts and gutters, and retention areas can be used. If adequate containment is not practical, the SPCC Plan must include a strong oil spill contingency plan and a written commitment of manpower, equipment and resources to expeditiously respond to a spill.

iv. The General Manager, or designee, must periodically instruct personnel in the operation and maintenance of equipment to prevent oil discharges and to ensure compliance with pollution control laws and regulations.

v. The General Manager, or designee, must review, evaluate and update (if necessary) the Basin SPCC Plan every five years, and s/he ensure copies of the Basin SPCC Plan, inspection and training records are maintained at the Basin Disposal Plant (inspection and training must be maintained for five years).

20.6.2 Basin employee requirements

i. No Basin Employees shall intentionally cause any spill of any oil, oil related or chemical materials at the Basin Disposal Plant.

ii. Basin Employees shall be knowledgeable and have understanding of the operation and maintenance of Basin equipment and storage apparatuses to prevent oil discharges. Basin Employees shall be knowledgeable and have understanding of applicable pollution laws, rules and regulations.

iii. Basin Employees working at the Basin Disposal Plant shall ensure that the risk of discharge or spill of oil, and oil-related products, reaching "navigable waters" is minimized.

iv. Basin Employees working at the Basin Disposal Plant or on, or around, any

undiked areas (e.g., pumps, tanks, cellar and pits) shall ensure a ditch or berm leading to secondary containment or reserve pit controls the area.

v. Basin Employees working at the Basin Disposal Plant shall make every effort to prevent any petroleum products from leaving the primary containment and from reaching "navigable waters", especially in areas or periods of heavy rain or flood.

20.6.3 In the event of a spill

i. In the event of a spill, Basin Employees working at the Basin Disposal Plant shall attempt to contain the spill by building a secondary basin or a diversionary structure; whichever is appropriate at the time. Spills shall be reported to the Plant Manager. Plant Managers shall notify the General Manager. The General Manager shall request that the owner, or their authorized representative, provide such equipment as is necessary to build structures to contain the spill.

ii. Basin Employees working at the Basin Disposal Plant shall make every effort to ensure all third party equipment used to transport and store oil is sized to accommodate any expected volumes of oil.

20.6.4 In the event of a Minor Release

i. In the event of a Minor Release, Basin Employees working at the Basin Disposal Plant shall attempt to contain the release by building a secondary basin or a diversionary structure; whichever is appropriate at the time. Minor Releases shall be reported to the Plant Manager. Plant Managers shall notify the General Manager. The General Manager shall request that the owner, or their authorized representative, provide such equipment as is necessary to build structures to contain the spill.

ii. Basin Employees working at the Basin Disposal Plant shall make every effort to ensure all third party equipment used to transport and store oil is sized to accommodate any expected volumes of oil.

iii. The General Manager shall submit notification to the EMNRD/OCD as follows:
   - timely written notice = within fifteen days to district office on C-141
   - timely written notice = within fifteen days to Bureau Chief on C-141

v. The General Manager shall submit notification to other regulatory entities as required.:

20.6.5 In the event of a Major Release

i. In the event of a Major Release, Basin Employees working at the Basin Disposal Plant shall attempt to contain the release by building a secondary basin or a diversionary structure; whichever is appropriate at the time. Minor Releases shall be reported to the Plant Manager. Plant Managers shall notify the General Manager. The General Manager shall request that the owner, or their authorized representative, provide such equipment as is necessary to build structures to contain the spill.

ii. Basin Employees working at the Basin Disposal Plant shall make every effort to ensure all third party equipment used to transport and store oil is sized to accommodate any expected volumes of oil.

iii. The General Manager shall also submit notification the EMNRD/OCD as follows:
- immediate verbal notice = within 24 hours to district office
- immediate verbal notice = within 24 hours to Bureau Chief
- timely written notice = within fifteen days to district office on C-141
- timely written notice = within fifteen days to Bureau Chief on C-141

vi. The General Manager shall submit notification to other regulatory entities as required.

20.6.6 Corrective Action

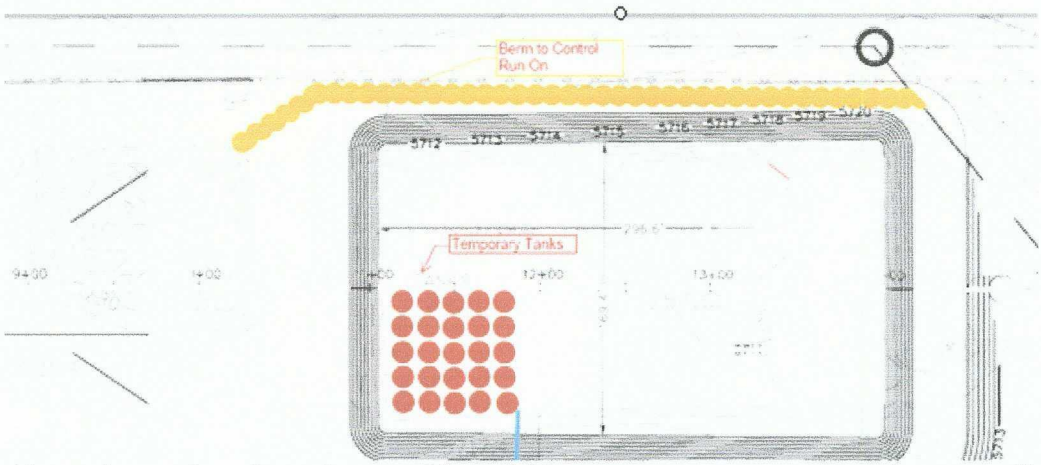
i. Basin shall complete EMNRD/OCD approved corrective action for releases which endanger public health or the environment.

ii. Releases will be addressed in accordance with a(n) :
   a. remediation plan submitted to and approved by EMNRD/OCD or
   b. abatement plan submitted in accordance with Section 19 of 19.15.1 NMAC.

Attachment G

19.15.38.8 NMAC Paragraph C(11) and/or Form C-137, Paragraph 17
"a plan to control run-on water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC"

The area where the temporary storage tanks are to be set is an area 150' by 300' by 5 feet deep that has already been constructed. We propose to create a lined and bermed area at that location with the dimensions of approximately 150' x 150'. The sides on the North, South, West are 5 feet tall. The berm on the east side will be 3 feet tall,



Along the north and north west sides of this area, stormwater run on from an adjoining property is possible. Basin Disposal proposes to construct a dirt berm using our front end loader and/or bobcat that will be 3 feet tall. The berm will run from the dirt pile that is currently on the property to the northeast approximately 50 feet. The berm will the continue the length of the excavated area approximately 300 feet. This will create a berm that runs the entire length of the excavated area that will prevent water from entering the area. Any water from the property to the north will be diverted to run along the berm to the east edge of Basin Disposal's property.

The berm shall be inspected daily as well as after any rain or wind event to verify its continued integrity. If during these inspections and damage is noted, Basin Disposal personnel shall use the front end loader or bobcat to repair the berm.

Also, please find attached:

1. Basin Disposal's Stormwater Pollution Prevention Plan Dated July 11, 2003

Storm Water Pollution Prevention Plan

Basin Disposal

July 11, 2003

Table of Contents

1.0 INTRODUCTION

This Storm water Pollution Prevention Plan (SWPPP) for Basin Disposal covers the disturbance of 18 acres for Produced Water Disposal. This SWPPP has been developed to address the activities that will take place on an ongoing basis. A Notice of Intent (NOI) has not been filed with the U.S. Environmental Protection Agency (EPA). Basin Disposal is considered grandfathered under SWPPP.

This Plan identifies Best Management Practices (BMPs) which will be implemented to meet the terms and conditions of the EPA's Phase in storm water Regulations of the NPDES program (effective March 10, 2005). According to these Phase in requirements, construction projects disturbing greater than 1.0 acre require application for coverage under the National Construction General Permit (CGP).

To add site-specific information to this SWPPP, an amendment that describes the site and addresses site-specific project requirements is required. The amendment will be inserted into the SWPPP on a *Project Specific Data Sheet* before ground disturbing activities on any additional activities.

2.0 BACKGROUND

The site is on previously cleared land. Limited vegetative growth is occurring. In accordance with this SWPPP, inspections and monitoring are conducted according to the requirements of CGP and tracked in an *Inspection and Monitoring Log Book*

This SWPPP has been prepared in accordance with good engineering, hydrologic, and pollution control practices, and is designed to constitute compliance with Best Available Technology (BAT) and Best Conventional Technology (BCT), as mandated under the Federal Clean Water Act and the Federal Water Pollution Control Act, as well as rules and regulations promulgated by the EPA.

3.0 ENVIRONMENT AL OVERVIEW

The following sections provide a brief overview of the location, physical, and biological environments within the boundaries of the facility.

The project is located in Section 3 Township 29 North, Range 11 West New Mexico Principle Meridian, San Juan County, New Mexico.

The SWPPP coverage area is shown on the project area maps located in Figure 1

The project land is located within the northwest portion of San Juan County, approximately 5 miles south of Aztec, New Mexico off Highway 550. The approximate elevation ranges from 5,320 to 5,550 feet above mean sea level. Land features are characterized by mesa tops and canyons with aspect slopes ranging from approximately 0 to 5 degrees. The drainage slopes to the east then south.

The San Juan River is located approximately 5.0 miles south of site. There are no wetlands or springs located within the project area.

The project area is located in the San Juan Basin, which has a semi-arid continental climate. Large variations in temperature, both diurnal and seasonal, are common. Average snowfall can range from one to twelve inches per year. However, during the drought that has encompassed the San Juan Basin for the past five years the primary precipitation falls as rain from mid July through mid September.

This site is on private land. There are no threatened, endangered or sensitive species within the site boundaries.

No cultural resources exist on this site.

4.0 GENERAL SITE INFORMATION

4.1 Owner Name and Address

Basin Disposal Inc.
200 Montana
Bloomfield, NM 87413

Jerry Sandel
Phone: (505) 334-3194

4.2 Facility Contacts and Telephone Numbers

Basin Disposal Inc.
200 Montana
Bloomfield, NM 87413
Attn: Keith Johnson

Phone: (505) 632-8936

4.3 Project Specific Data Sheet

Each project will have a *Project Specific Inspection Sheet* completed and added to Appendix B. A sample *Project Specific Data Sheet* is provided as Figure 2. Information that must be included for each site includes:

A description of the construction activity.

If it differs from the description herein, the proposed sequence for major activities.

Estimates of the total area of the site, and the area of the site that is expected to undergo clearing, excavation or grading.

If it differs from the description herein, an estimate of the runoff coefficient of the site before and after construction activities are completed and any existing data describing the soil, soil erosion potential, or the quality of any discharge from the site.

A description of the existing vegetation at the site and an estimate of the percent vegetative ground cover.

The location and description of any other potential pollution sources, such as vehicle fueling, etc.

If it differs from the description herein, the location and description of any anticipated non-storm water components of the discharge, such as springs and irrigation return flows.

The name of the receiving water(s) and the size, type and location of any outfall into the receiving water(s).

A construction site map must be attached.

4.4 Construction Site Maps

A map of the area surrounding the planned construction activity is inserted into this SWPPP as part of the *Project Specific Data Sheet in Appendix A.* The site map will show the construction activity in relation to surrounding topographic features.

At a minimum, the site map will include:

Site boundaries,
All areas of soil disturbance,
Areas of cuts and fills,
Location of erosion control facilities or structures.

Figure 1 -Facility Specific Data Sheet

Facility Specific Data Sheet

1. **Facility Name**

2. **Project Location** (List Township, Range, Section, Elevation and Federal Lease Number)

3. **Project Description** (Describe specific project components including acreage and any permits submitted)

4. **Estimated Total Area of the Site to Undergo Clearing, Excavation, or Grading** (List each project component's acreage) .

5. **Existing Soil Data and Estimated Runoff Coefficient Before and After Construction.**

6. **Description of Existing Vegetation and Estimate of Percent of Ground** Cover

7. **Description of Potential Pollution Sources.**

8. **Description of Anticipated Non-stormwater Discharges.**

9. **Name of Receiving Water and Type of Outfalls**

10. **Key Project Dates**

Date NOI submitted to EPA

11. **Inspection/Monitoring**

Refer to *Inspection and Monitoring Log Book*

12. **Facility-specific BMPs** -Project-specific BMPs, or those required as COA for federal projects are listed on the back of this data sheet.

5.0 BEST MANAGEMENT PRACTICES FOR STORMW ATER POLLUTION PREVENTION

The recommended BMPs to be employed during construction activities are based on EPA Guidance Documents and other engineering practice sources. General BMPs to be implemented are described in the following sections for site-specific erosion and sediment control features.

5.1 Erosion and Sediment Control

5.1.1 Structural Practices and Non-structural/ Stabilization Practices

The following project area pre- and post-construction BMPs are applicable:

Berms

Water Bars

Slope Management

5.2 Stabilization and Long-Term Storm water Management

5.2.1 Reclamation

Storm water management controls are constructed to reduce and prevent or control pollution by sediments entrained in runoff during and after construction is completed. Final site stabilization will be achieved in the following manner.

Contouring and establishing proper slopes;
Constructing proper water bars in accordance with BLM/FFO specifications
Maintaining berms and water bars

In accordance with the NPDES CGP final stabilization is reached when the following has been achieved:

1) All soil disturbing activities at the site have been completed;
2) Uniform vegetation cover has been established with a density of at least 70% of pre disturbance levels, or equivalent permanent physical erosion control methods have been employed. The 70% vegetation cover is defined as having 70% of cover in the adjacent un-disturbed land.

The site surface is completely used by the facility. Revegetation is not practical.

5.3 Other Controls

5.3.1 Materials Handling and Spill Prevention

Any accidental spill will be cleaned up immediately and contaminated soils will be either landfarmed or landfilled in accordance with State and Federal requirements. Where a release of hazardous substance or oil exceeds the reportable quantity established under 40 CFR 110, 40 CFR 117, 01" 40 CFR 302 during a 24-hour period, the operator must:

1.) Notify the National Response Center -800-424-8802 or 202-426-2675; 2.)
Update the Plan within 14 days to address reoccurrences of such releases.

5.3.2 Waste Disposal Practices

The established methods for Handling Waste Material will be followed all activities. The program specifies the following waste management procedures.

Solid Waste –Trash bins are picked up by Transit Waste and hauled to the
Bondad Landfill located in Colorado.
Soils/BS&W-Shipped to approved landfarm

6.0 INSPECTIONS AND MAINTENANCE

6.1 Inspections

Visual inspections will occur once a month and within 48 hours of a major storm event that has the potential to cause surface runoff. Snowfall is not considered to have the potential to cause surface runoff until melting begins. The inspections should identify evidence of sediment entering drainage ways and ensure that all BMPs are functioning properly. Areas to be inspected, at a minimum, include:

- Disturbed areas;
- Erosion and sediment control BMPs
- Locations where vehicles enter or exit the facility
- Slope areas.

Individuals conducting the inspections will be knowledgeable in inspection and maintenance practices necessary for keeping the erosion and sediment controls in good working order.

6.2 Maintenance

Maintenance of erosion and sediment control BMPs will be conducted as defined in 6.1 to ensure that the BMPs are functioning properly.

6.3 Record Keeping

An *Inspection and Monitoring Report Form* will be completed during each site (project) inspection. The completed *Inspection and Monitoring Report Forms* will be maintained in an *Inspection and Monitoring Log Book* along with this SWPPP and will be placed in Appendix D. The *Inspection and Monitoring Report Forms* will be filed and maintained for a 3-year period. After that time, they may be disposed. A copy of this SWPPP and the *Inspection and Monitoring Log Book* will be kept at the Basin Disposal office.

Repairs and maintenance activities should be implemented as soon as practicable after the inspection. This SWPPP must also be revised within 14 days of the inspection, if necessary, to reflect changes to site description/maintenance activities (BMPs).

7.0 COMPLIANCE WITH APPROVED STATE OR LOCAL PLANS

This SWPPP addresses the activities for this facility and is not within the boundaries of any Native American Nation. Any erosion control or stormwater management measures specified in the project approval have been incorporated as BMPs presented in this SWPPP.

8.0 TERMINATION

Operators of a construction site must continue to comply with the SWPPP conditions until: (1) the construction activity is complete, and all disturbed soils have been finally stabilized as described in Section 6.2, and temporary erosion and sediment controls have been or will be removed; or (2) the facility operator changes. When one of these criteria is met, a Notice of Termination (NOT) must be filed with the EP A.

9.0 OWNER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Name and Title (Type or Print):

Name Jerry Sandell

Title President

Basin Disposal Inc.
Company

Date 8-1-07

Attachment H

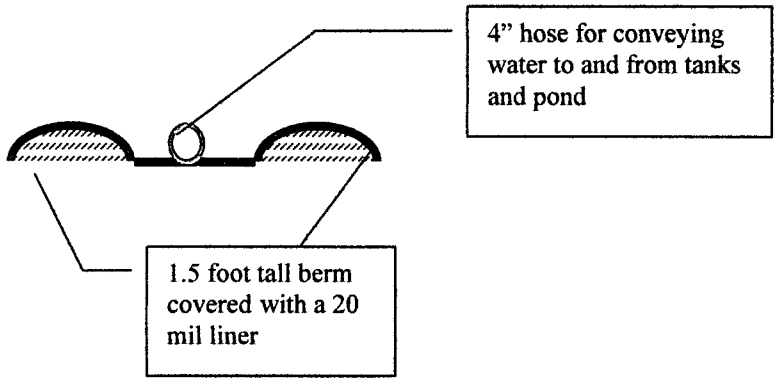
19.15.38.8 NMAC Paragraph C(14) and/or Form C-137, Paragraph 20
"*a best management practice plan to ensure protection of fresh water, public health, safety and the environment;*"

Water will be drawn from the pond through 4" hoses via a gasoline powered pump to fill the tanks. When water is emptied from the tanks, water will be drawn via the 4" hoses and pump back to the pond. Water is drawn from the pond through filters to be injected into the Class II well.

The hoses and pump will sit inside a lined (20 mil liner) and bermed area to ensure that water is not spilled on the ground during transfer.

The transfer of the water to and from the tanks will be supervised by a Basin Disposal employee so if a leak or other problem occurs, the pump can be turned off and the valve on the tank closed immediately.

The transfer will only occur during day light hours.



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

RECEIVED
2008 MAR 12 PM 12 51

8 March 2008

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

RE: Minor Permit Modificaation
Temporary Frac Tanks
Produced Water Storage

Dear Mr. Jones;

Attached are two newspaper articles outlining the difficulty companies in the Farmington had reaching their locations last month. Now that the weather and therefore road conditions have improved, companies are making up for that backlog by sending additional water. This has been compounded by the fact that the commercial facility near Basin Disposal, Agua Moss, has begun to turn away trucks around noon and trucks that are not owned by a sister company, M&R Trucking. As a result, the amount of water being sent to Basin Disposal has increased from the average 185 trucks per day to upwards of 265 trucks per day. Because of this, the pond level has begun to rise at a rapid pace.

To avoid having to turn companies away, which would mean them shutting in wells, in this letter, we request authorization for a minor permit modification to set twenty-five (25) 400 BBL tanks for the temporary storage of produced water. This request is identical to the request made in November 2006 and approved by the OCD. This expansion constitutes only a 10% increase in our storage capacity and again would help producers to not be forced to shut in wells.

Per permit requirement: "*All new or replacement above-ground tanks containing materials other than fresh water must be placed on an impermeable pad and be bermed so that the area will hold one and one-third the volume of the largest tank or all interconnected tanks, whichever is greater.*" Basin Disposal proposes to place the tanks in a bermed area lined with a 20 mil liner of a size to contain one and one-third the total tank volume.

In evaluating the site, the location that provides the greatest protection of fresh water, public health and the environment is the area where the temporary pond was being constructed. An area 150' by 300' by 5 feet deep has already been constructed. We propose to create a lined and bermed area at that location with the dimensions of approximately 150' x 150' yielding a lined and bermed volume of 16,000 barrels. One and one-third the volume of the requested 25 tanks is 13,000 bbls. The 25 temporary frac tanks will not be connected and will be inspected daily for tank, piping and berm integrity.

Using this area, instead of constructing another location, will minimize the disturbance of the surface soil.

Basin Disposal, Inc. shall ensure all proposed tanks are identified by a sign posted not more than 50 feet from the tanks which is made of durable construction and with lettering large enough to be legible under normal conditions at a distance of 50 feet with: the name of the operator, and the location of the tank(s) by unit letter, section, township, and range.

The proposed tanks will be on site for a maximum period of three months. Samples from the soil below the liner will be taken and analyzed for:
Aromatic Volatiles by GC/PID (SW8021B)
Diesel Range Organics/Gasoline Range Organics (SW8015B)
I have attached a copy of the analysis that was performed after the tanks requested in November 2006 were removed from that same location.

Basin Disposal, Inc. respectfully requests that the OCD consider and approve this request. Approval will allow Basin Disposal to accept enough water on a temporary basis to keep producers from having to curtail production and shut in wells. Also, it is our belief that having the water stored at one continuously monitored location , the water disposal location, as opposed to being stored at numerous unmanned pits and tanks in the field provides for increased protection of fresh water, public health and the environment by increasing the level of stewardship for that water.

Basin Disposal has hired Cheney, Walters, Echols to compile the application for a major modification to construct an evaporation pond to avoid the need for temporary tanks in the future. I believe that Dr. Erwin Melis of Shomaker & Associates has discussed with you the OCD's soil and water sampling and analysis requirements and they will have a proposal to us on Monday. Basin Disposal had worked hard to control the water level in the pond this year to avoid having to request temporary tanks and had it not been for the weather and roads conditions that has created this temporary surge in water, our efforts would have been successful.

Due to the time sensitive nature of the circumstance, I respectfully request that this application be evaluated and approved as quickly as possible. If you have any questions, please feel free to phone me at 334-3013 or 320-2840 or via email at bdinc@digii.net.

Sincerely;

John Volkerding
General Manager

Encl: C-137 (two copies)
Proposed Site Diagram
News Articles (2)
Soil Analysis from 5-17-2007

Cc: Aztec OCD Office

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

For State Use Only:

Form C-137
Revised March 1, 2007

Submit 1 Copy to Santa Fe Office

APPLICATION FOR SURFACE WASTE MANAGEMENT FACILITY

A meeting should be scheduled with the Division's Santa Fe office Environmental Bureau prior to pursuing an application for a surface waste management facility in order to determine if the proposed location is capable of satisfying the siting requirements of Subsections A and B of 19.15.36.13 NMAC for consideration of an application submittal.

1 Application: ☐ New ☒ Modification ☐ Renewal

2. Type: ☒ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfill ☐ Landfarm ☐ Other

3. Facility Status: ☐ Commercial ☐ Centralized

4. Operator: BASIN DISPOSAL, INC

Address: 200 MONTANA, BLOOMFIELD, NM 87413 MAILING: PO BOX 100, AZTEC, NM 87410

Contact Person: JOHN VOLKERDING Phone: 505-334-3013

5. Location: SE /4 NW /4 Section 3 Township 29N Range 11W

6. Is this an existing facility? ☒ Yes ☐ No If yes, provide permit number NM-1-005

7. Attach the names and addresses of the applicant and principal officers and owners of 25 percent or more of the applicant. Specify the office held by each officer and identify the individual(s) primary responsible for overseeing management of the facility.

8. Attach a plat and topographic map showing the surface waste management facility's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the surface waste management facility site; watercourses; fresh water sources, including wells and springs; and inhabited buildings within one mile of the site's perimeter.

9. Attach the names and addresses of the surface owners of the real property on which the surface waste management facility is sited and surface owners of the real property within one mile of the site's perimeter.

10. Attach a description of the surface waste management facility with a diagram indicating the location of fences and cattle guards, and detailed construction/installation diagrams of pits, liners, dikes, piping, sprayers, tanks, roads, fences, gates, berms, pipelines crossing the surface waste management facility, buildings and chemical storage areas.

11. Attach engineering designs, certified by a registered professional engineer, including technical data on the design elements of each applicable treatment, remediation and disposal method and detailed designs of surface impoundments.

12. Attach a plan for management of approved oil field wastes that complies with the applicable requirements contained in 19.15.36.13, 19.15.36.14, 19.15.36.15 and 19.15.36.17 NMAC.

13. Attach an inspection and maintenance plan that complies with the requirements contained in Subsection L of 19.15.36.13 NMAC.

14. Attach a hydrogen sulfide prevention and contingency plan that complies with those provisions of 19.15.3.118 NMAC that apply to surface waste management facilities.

15. Attach a closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment (the closure and post closure plan shall comply with the requirements contained in Subsection D of 19.15.36.18 NMAC).

16 Attach a contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978. Sections 12-12-1 through 12-12-30, as amended (the Emergency Management Act).

17. Attach a plan to control run-on water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC.

18. In the case of an application to permit a new or expanded landfill, attach a leachate management plan that describes the anticipated amount of leachate that will be generated and the leachate's handling, storage, treatment and disposal, including final post closure options.

19. In the case of an application to permit a new or expanded landfill, attach a gas safety management plan that complies with the requirements of Subsection O of 19.15.36.13 NMAC

20. Attach a best management practice plan to ensure protection of fresh water, public health, safety and the environment.

21. Attach a demonstration of compliance with the siting requirements of Subsections A and B of 19.15.36.13 NMAC.

22. Attach geological/hydrological data including:

(a) a map showing names and location of streams, springs or other watercourses, and water wells within one mile of the site;

(b) laboratory analyses, performed by an independent commercial laboratory, for major cations and anions; benzene, toluene, ethyl benzene and xylenes (BTEX); RCRA metals; and total dissolved solids (TDS) of ground water samples of the shallowest fresh water aquifer beneath the proposed site;

(c) depth to, formation name, type and thickness of the shallowest fresh water aquifer;

(d) soil types beneath the proposed surface waste management facility, including a lithologic description of soil and rock members from ground surface down to the top of the shallowest fresh water aquifer;

(e) geologic cross-sections;

(f) potentiometric maps for the shallowest fresh water aquifer; and

(g) porosity, permeability, conductivity, compaction ratios and swelling characteristics for the sediments on which the contaminated soils will be placed.

23. In the case of an existing surface waste management facility applying for a minor modification, describe the proposed change and identify information that has changed from the last C-137 filing.

24. The division may require additional information to demonstrate that the surface waste management facility's operation will not adversely impact fresh water, public health, safety or the environment and that the surface waste management facility will comply with division rules and orders

25. CERTIFICATION

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name: JOHN VOLKERDING Title: GENERAL MANAGER

Signature: Date: MARCH 8, 2008

E-mail Address: BDINC@DIGII.NET

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
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Energy Minerals and Natural Resources

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1220 South St. Francis Dr.
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For State Use Only:

Form C-137
Revised March 1, 2007

Submit 1 Copy to Santa Fe Office

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6. Is this an existing facility? ☒ Yes ☐ No If yes, provide permit number NM-1-005

7. Attach the names and addresses of the applicant and principal officers and owners of 25 percent or more of the applicant. Specify the office held by each officer and identify the individual(s) primary responsible for overseeing management of the facility.

8. Attach a plat and topographic map showing the surface waste management facility's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the surface waste management facility site; watercourses; fresh water sources, including wells and springs; and inhabited buildings within one mile of the site's perimeter.

9. Attach the names and addresses of the surface owners of the real property on which the surface waste management facility is sited and surface owners of the real property within one mile of the site's perimeter.

10. Attach a description of the surface waste management facility with a diagram indicating the location of fences and cattle guards, and detailed construction/installation diagrams of pits, liners, dikes, piping, sprayers, tanks, roads, fences, gates, berms, pipelines crossing the surface waste management facility, buildings and chemical storage areas.

11. Attach engineering designs, certified by a registered professional engineer, including technical data on the design elements of each applicable treatment, remediation and disposal method and detailed designs of surface impoundments.

12. Attach a plan for management of approved oil field wastes that complies with the applicable requirements contained in 19.15.36.13, 19.15.36.14, 19.15.36.15 and 19.15.36.17 NMAC.

13. Attach an inspection and maintenance plan that complies with the requirements contained in Subsection L of 19.15.36.13 NMAC.

14. Attach a hydrogen sulfide prevention and contingency plan that complies with those provisions of 19.15.3.118 NMAC that apply to surface waste management facilities.

15. Attach a closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment (the closure and post closure plan shall comply with the requirements contained in Subsection D of 19.15.36.18 NMAC).

16 Attach a contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978, Sections 12-12-1 through 12-12-30, as amended (the Emergency Management Act).

17. Attach a plan to control run-on water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC.

18. In the case of an application to permit a new or expanded landfill, attach a leachate management plan that describes the anticipated amount of leachate that will be generated and the leachate's handling, storage, treatment and disposal, including final post closure options.

19. In the case of an application to permit a new or expanded landfill, attach a gas safety management plan that complies with the requirements of Subsection O of 19.15.36.13 NMAC

20. Attach a best management practice plan to ensure protection of fresh water, public health, safety and the environment.

21. Attach a demonstration of compliance with the siting requirements of Subsections A and B of 19.15.36.13 NMAC.

22. Attach geological/hydrological data including:

(a) a map showing names and location of streams, springs or other watercourses, and water wells within one mile of the site;

(b) laboratory analyses, performed by an independent commercial laboratory, for major cations and anions; benzene, toluene, ethyl benzene and xylenes (BTEX); RCRA metals; and total dissolved solids (TDS) of ground water samples of the shallowest fresh water aquifer beneath the proposed site;

(c) depth to, formation name, type and thickness of the shallowest fresh water aquifer;

(d) soil types beneath the proposed surface waste management facility, including a lithologic description of soil and rock members from ground surface down to the top of the shallowest fresh water aquifer;

(e) geologic cross-sections;

(f) potentiometric maps for the shallowest fresh water aquifer; and

(g) porosity, permeability, conductivity, compaction ratios and swelling characteristics for the sediments on which the contaminated soils will be placed.

23. In the case of an existing surface waste management facility applying for a minor modification, describe the proposed change and identify information that has changed from the last C-137 filing.

24. The division may require additional information to demonstrate that the surface waste management facility's operation will not adversely impact fresh water, public health, safety or the environment and that the surface waste management facility will comply with division rules and orders

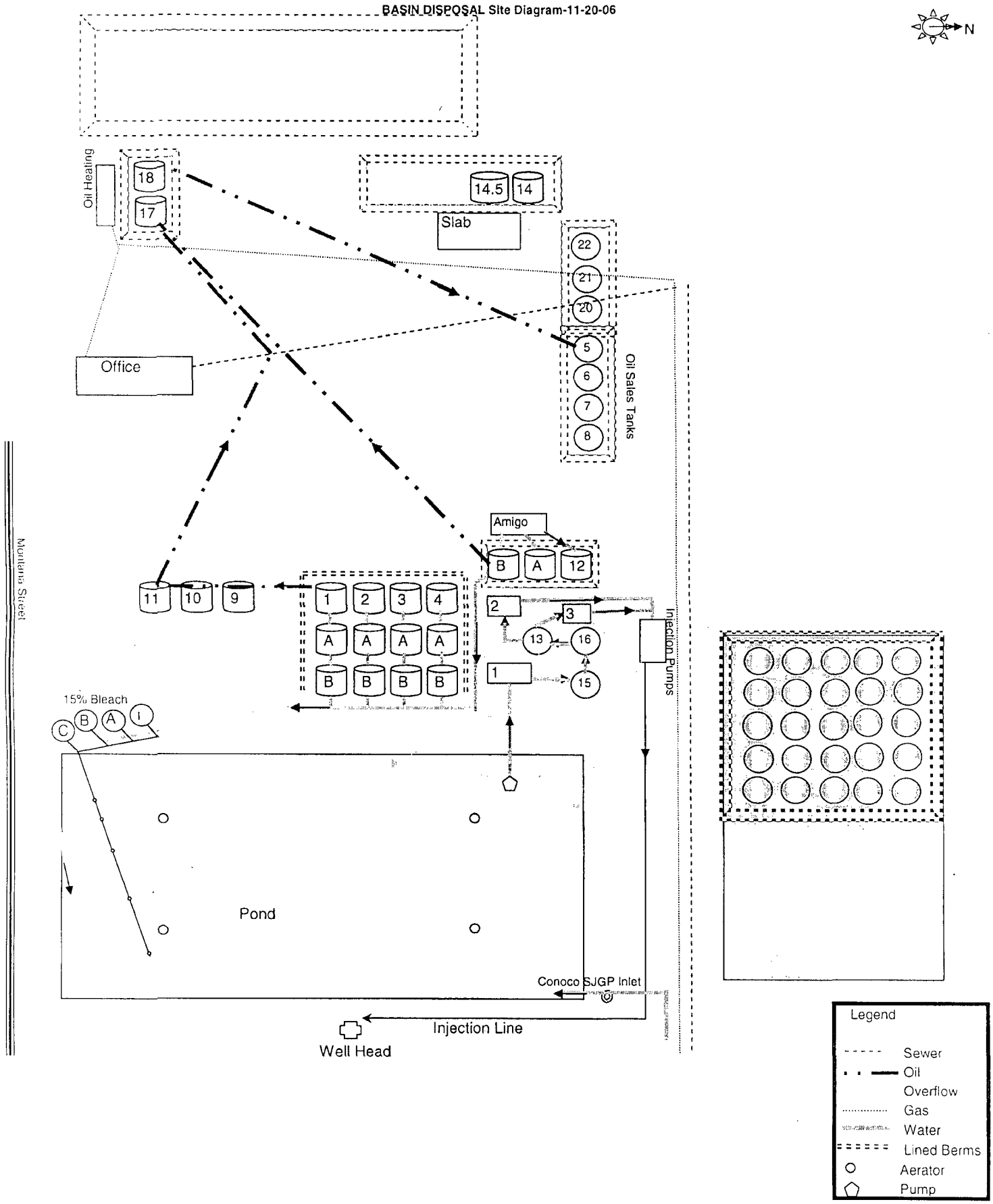
25. CERTIFICATION

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name: JOHN VOLKERDING Title: GENERAL MANAGER

Signature: Date: MARCH 8, 2008

E-mail Address: BDINC@DIGII.NET



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THE DAILY TIMES
FARMINGTON, NEW MEXICO

FRONTPAGE Thursday, March 6, 2008 Sorry, no items are currently available.

Bad road conditions causing problems

Staff Writer
Article Launched: 02/22/2008 12:00:00 AM MST

It's a blessing and a curse.

The snow San Juan County has enjoyed in recent months bodes well for city reservoirs and for summer water sports, but the mud that results from melting snow has created problems for area oil and gas companies and residents.

Hundreds of well sites have been shut down because oil field employees just can't get to them. Shutting a well involves closing a valve to cease its production, said John Byrom, president and CEO of D.J. Simmons and president of the Independent Petroleum Association of New Mexico. Service trucks also are unable to get to the sites to remove production by-products such as oil and produced water that is held in on-site tanks.

ConocoPhillips, which has about 10,000 wells in the San Juan Basin, is monitoring its operations carefully. Company spokesman John Zent said the company has more than 250 sites it has shut down, many of them with full oil or water tanks.

The Bureau of Land Management, while concerned about the inability of oil and gas companies to access sites because of the poor road conditions, is especially concerned about the roads where public, employee and livestock safety are an issue.

In an addendum to a letter sent to oil and gas companies Jan. 9, the BLM stated "In (an) effort to provide access to residential properties and active livestock allotments, we (BLM) will allow roads to be bladed to reduce the level of rutting that is currently hampering light vehicle traffic."

The addendum also states that once the road has been bladed and the depth of mud and rutting is reduced, the BLM would expect only emergency travel on those roads. The agency is discouraging routine water hauling, production operations or other heavy hauling equipment, except when absolutely necessary to avoid environmental damage and safety concerns.

If oil field equipment creates ruts of 6 inches or more, the responsible company must repair the road to pre-damage condition or better, states the BLM letter.

Whether it's an oil field vehicle or off-road vehicle driven by a private citizen, the

Las Cruces Sun-News
Ruidoso News
Silver City Sun-News
Missile Ranger

condition of rural roads and the natural environment should be a priority for us all. We each have a responsibility for maintaining our natural landscape and repairing any damage we cause.

As warm weather approaches, unpaved roads will continue to suffer, and caution is always advised when traveling them. Wet roads may become slippery and dangerous, and extra care should be taken by those using the roads.

Most of us are looking forward to spring; however winter's snow will continue to create problems in rural areas. Patience, extra attention to road condition, and a healthy respect for the environment will ensure the safety of those traveling the roads and the preservation of the landscape for which our area is noted.

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POST YOUR COMMENTS:

THE DAILY TIMES
FARMINGTON, NEW MEXICO

LOCAL NEWS Thursday, February 14, 2008

Bad road conditions expected to worsen: Gas producers prepare for access problems

By Cornelia de Bruin The Daily Times
Article Launched: 02/12/2008 12:00:00 AM MST

FARMINGTON — Local natural gas producers expect the worst is yet to come as their crews service well sites during the change from winter to mud season.

Click photo to enlarge

As the temperature rises and the snow melts, a dirt road leading... (Lindsay Pierce/The Daily Times)

1 | 2 »

As temperatures flirt with warmth, snow is melting during daytime hours and causing water to pool atop frozen ground. Once the ground thaws, however, it will be a brand new ball game in the gas patch.

"The real problems are probably still ahead," John Roe Jr., engineering manager for Dugan Production Corp., said. "The pools are a problem, but it's really just beginning. It'll be worse when the ground thaws."

The Bureau of Land Management, which oversees much of the land on which local companies' leases are located, recently sent producers a letter advising them not to drive on roads when their vehicles make ruts deeper than 6 inches.

"When the continuation of operations are deemed necessary in wet weather and result in ruts in excess of 6 inches by equipment moving under its own power, operators are required to repair the road to as good as pre-damage condition, or better, as weather permits," wrote Joel E. Farrell, assistant field manager for resources in the BLM's Farmington Field Office.

Roe said his boss, Tom Dugan, president of Dugan Production, has repeatedly assured his workers that things will be good after April 1.

ConocoPhillips spokesman Jim Lowry agreed road conditions are "a challenge" as winter tries to end in the San Juan Basin.

"We're able to get out to do the required maintenance," Lowry said.

Required maintenance includes draining drilling by-products from tanks that are kept on-site.

Latest News Headlines

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- **Rural West advocate wants turn at local government**
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- **New Mexico State Police**

Tom Mullins, principal and engineering manager of Synergy Operating, LLC, said that while warm temperatures are nice, the lack of hard freezing during the night is negatively affecting local producers.

"Most operators will wait until weather improves to perform non-critical operations," Mullins said. "Produced water will be hauled during the evening and early morning hours while the freeze holds. Thankfully we have not had to shut in production, yet."

The National Weather Service predicts another front will sweep across the Four Corners area in a couple days.

"It will start Wednesday night, with the heaviest snowfall coming around midnight and tapering off by Thursday mid-morning," said National Weather Service Meteorologist Dan Porter, based in Albuquerque. "We're predicting 1 to 3 inches of snow in the Farmington area and just a little bit more near the Colorado line north of you."

A special weather statement notes that "accumulating snows are possible ... with the highest amounts across the northern and western mountains.

Bad winter weather conditions that shut down oil and gas access roads three years ago significantly affected natural gas production in the San Juan Basin. Producers are hoping that won't be the case this year.

Cornelia de Bruin: cdebruin@daily-times.com

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POST YOUR COMMENTS:

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Type in your comments to post to the forum

Name (appears on your post)

Comments

Type the numbers you see in the image on the right:

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Basin Disposal	Project #:	03058-002
Sample ID:	Composite	Date Reported:	05-18-07
Laboratory Number:	41568	Date Sampled:	05-16-07
Chain of Custody No:	2680	Date Received:	05-16-07
Sample Matrix:	Soil	Date Extracted:	05-17-07
Preservative:	Cool	Date Analyzed:	05-17-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2.1**	**0.2**
Diesel Range (C10 - C28)	**1.2**	**0.1**
Total Petroleum Hydrocarbons	**3.3**	**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: **Basin Yard on 550 Stormwater Pond.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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:	05-17-07 QA/QC	Date Reported:	05-18-07
Laboratory Number:	41568	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-17-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.0166E+003	1.0170E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.1785E+003	1.1790E+003	0.04%	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	2.1	2.0	4.8%	0 - 30%
Diesel Range C10 - C28	1.2	1.2	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	2.1	250	252	100.0%	75 - 125%
Diesel Range C10 - C28	1.2	250	250	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 41568 - 41569.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Basin Disposal	Project #:	03058-002
Sample ID:	Composite	Date Reported:	05-18-07
Laboratory Number:	41568	Date Sampled:	05-16-07
Chain of Custody:	2680	Date Received:	05-16-07
Sample Matrix:	Soil	Date Analyzed:	05-17-07
Preservative:	Cool	Date Extracted:	05-17-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**3.6**	**1.8**
Toluene	**20.2**	**1.7**
Ethylbenzene	**6.5**	**1.5**
p,m-Xylene	**79.2**	**2.2**
o-Xylene	**26.0**	**1.0**
Total BTEX	**136**	

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: **Basin Yard on 550 Stormwater Pond.**

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:	05-17-BTEX QA/QC	Date Reported:	05-18-07
Laboratory Number:	41568	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-17-07
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	2.8840E+007	2.8898E+007	0.2%	ND	0.2
Toluene	2.8032E+007	2.8088E+007	0.2%	ND	0.2
Ethylbenzene	2.3709E+007	2.3756E+007	0.2%	ND	0.2
p,m-Xylene	4.8620E+007	4.8718E+007	0.2%	ND	0.2
o-Xylene	2.1753E+007	2.1797E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	3.6	3.6	0.0%	0 - 30%	1.8
Toluene	20.2	20.1	0.5%	0 - 30%	1.7
Ethylbenzene	6.5	6.5	0.0%	0 - 30%	1.5
p,m-Xylene	79.2	79.1	0.1%	0 - 30%	2.2
o-Xylene	26.0	26.1	0.4%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	3.6	50.0	53.5	99.8%	39 - 150
Toluene	20.2	50.0	70.1	99.9%	46 - 148
Ethylbenzene	6.5	50.0	56.4	99.8%	32 - 160
p,m-Xylene	79.2	100	179	99.8%	46 - 148
o-Xylene	26.0	50.0	75.9	99.9%	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 41568 - 41569.**

Analyst

Review

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CHAIN OF CUSTODY RECORD 2680

Client / Project Name	Project Location	Client No.	Sampler:
Basin Disposal	Basin Yard on 550	03058-002	G. Crabtree

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015	BTEX					Remarks
Composite	5/16/07	1400	41568	Soil	1	✓	✓					Stormwater Pond

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	5/16/07	1445	[signature]	5/16/07	1445
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	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-129

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

f a c s i m i l e

To: **OCD Santa Fe- Brad Jones (Business Fax)**
Fax Number: , 9, 1-505- 476-3462

From: **John Volkerding**
Fax Number: 505-333-3898 or 505-632-2215
Business Phone: 505-320-2840
Home Phone:

Pages: 17
Date/Time: 3/8/2008 5:00:31 PM
Subject: Minor Permit Request

BASIN DISPOSAL, INC.

8 March 2008

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

RE: Minor Permit Modificaation
Temporary Frac Tanks
Produced Water Storage

Dear Mr. Jones;

Attached are two newspaper articles outlining the difficulty companies in the Farmington had reaching their locations last month. Now that the weather and therefore road conditions have improved, companies are making up for that backlog by sending additional water. This has been compounded by the fact that the commercial facility near Basin Disposal, Agua Moss, has begun to turn away trucks around noon and trucks that are not owned by a sister company, M&R Trucking. As a result, the amount of water being sent to Basin Disposal has increased from the average 185 trucks per day to upwards of 265 trucks per day. Because of this, the pond level has begun to rise at a rapid pace.

To avoid having to turn companies away, which would mean them shutting in wells, in this letter, we request authorization for a minor permit modification to set twenty-five (25) 400 BBL tanks for the temporary storage of produced water. This request is identical to the request made in November 2006 and approved by the OCD. This expansion constitutes only a 10% increase in our storage capacity and again would help producers to not be forced to shut in wells.

Per permit requirement: "*All new or replacement above-ground tanks containing materials other than fresh water must be placed on an impermeable pad and be bermed so that the area will hold one and one-third the volume of the largest tank or all interconnected tanks, whichever is greater.*" Basin Disposal proposes to place the tanks in a bermed area lined with a 20 mil liner of a size to contain one and one-third the total tank volume.

In evaluating the site, the location that provides the greatest protection of fresh water, public health and the environment is the area where the temporary pond was being constructed. An area 150' by 300' by 5 feet deep has already been constructed. We propose to create a lined and bermed area at that location with the dimensions of approximately 150' x 150' yielding a lined and bermed volume of 16,000 barrels. One and one-third the volume of the requested 25 tanks is 13,000 bbls. The 25 temporary frac tanks will not be connected and will be inspected daily for tank, piping and berm integrity.

Using this area, instead of constructing another location, will minimize the disturbance of the surface soil.

Basin Disposal, Inc. shall ensure all proposed tanks are identified by a sign posted not more than 50 feet from the tanks which is made of durable construction and with lettering large enough to be legible under normal conditions at a distance of 50 feet with: the name of the operator, and the location of the tank(s) by unit letter, section, township, and range.

The proposed tanks will be on site for a maximum period of three months. Samples from the soil below the liner will be taken and analyzed for:
Aromatic Volatiles by GC/PID (SW8021B)
Diesel Range Organics/Gasoline Range Organics (SW8015B)
I have attached a copy of the analysis that was performed after the tanks requested in November 2006 were removed from that same location.

Basin Disposal, Inc. respectfully requests that the OCD consider and approve this request. Approval will allow Basin Disposal to accept enough water on a temporary basis to keep producers from having to curtail production and shut in wells. Also, it is our belief that having the water stored at one continuously monitored location , the water disposal location, as opposed to being stored at numerous unmanned pits and tanks in the field provides for increased protection of fresh water, public health and the environment by increasing the level of stewardship for that water.

Basin Disposal has hired Cheney, Walters, Echols to compile the application for a major modification to construct an evaporation pond to avoid the need for temporary tanks in the future. I believe that Dr. Erwin Melis of Shomaker & Associates has discussed with you the OCD's soil and water sampling and analysis requirements and they will have a proposal to us on Monday. Basin Disposal had worked hard to control the water level in the pond this year to avoid having to request temporary tanks and had it not been for the weather and roads conditions that has created this temporary surge in water, our efforts would have been successful.

Due to the time sensitive nature of the circumstance, I respectfully request that this application be evaluated and approved as quickly as possible. If you have any questions, please feel free to phone me at 334-3013 or 320-2840 or via email at bdinc@digii.net.

Sincerely;

John Volkerding
General Manager

Encl: C-137 (two copies)
Proposed Site Diagram
News Articles (2)
Soil Analysis from 5-17-2007

Cc: Aztec OCD Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 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

For State Use Only:

Form C-137
Revised March 1, 2007

Submit 1 Copy to Santa Fe Office

APPLICATION FOR SURFACE WASTE MANAGEMENT FACILITY

A meeting should be scheduled with the Division's Santa Fe office Environmental Bureau prior to pursuing an application for a surface waste management facility in order to determine if the proposed location is capable of satisfying the siting requirements of Subsections A and B of 19.15.36.13 NMAC for consideration of an application submittal.

1. Application: ☐ New ☒ Modification ☐ Renewal

2. Type: ☒ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfill ☐ Landfarm ☐ Other

3. Facility Status: ☐ Commercial ☐ Centralized

4. Operator: BASIN DISPOSAL, INC

Address: 200 MONTANA, BLOOMFIELD, NM 87413 MAILING: PO BOX 100, AZTEC, NM 87410

Contact Person: JOHN VOLKERDING Phone: 505-334-3013

5. Location: SE /4 NW /4 Section 3 Township 29N Range 11W

6. Is this an existing facility? ☒ Yes ☐ No If yes, provide permit number NM-1-005

7. Attach the names and addresses of the applicant and principal officers and owners of 25 percent or more of the applicant. Specify the office held by each officer and identify the individual(s) primary responsible for overseeing management of the facility.

8. Attach a plat and topographic map showing the surface waste management facility's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the surface waste management facility site; watercourses; fresh water sources, including wells and springs; and inhabited buildings within one mile of the site's perimeter.

9. Attach the names and addresses of the surface owners of the real property on which the surface waste management facility is sited and surface owners of the real property within one mile of the site's perimeter.

10. Attach a description of the surface waste management facility with a diagram indicating the location of fences and cattle guards, and detailed construction/installation diagrams of pits, liners, dikes, piping, sprayers, tanks, roads, fences, gates, berms, pipelines crossing the surface waste management facility, buildings and chemical storage areas.

11. Attach engineering designs, certified by a registered professional engineer, including technical data on the design elements of each applicable treatment, remediation and disposal method and detailed designs of surface impoundments.

12. Attach a plan for management of approved oil field wastes that complies with the applicable requirements contained in 19.15.36.13, 19.15.36.14, 19.15.36.15 and 19.15.36.17 NMAC.

13. Attach an inspection and maintenance plan that complies with the requirements contained in Subsection L of 19.15.36.13 NMAC.

14. Attach a hydrogen sulfide prevention and contingency plan that complies with those provisions of 19.15.3.118 NMAC that apply to surface waste management facilities.

15. Attach a closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment (the closure and post closure plan shall comply with the requirements contained in Subsection D of 19.15.36.18 NMAC).

16. Attach a contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978, Sections 12-12-1 through 12-12-30, as amended (the Emergency Management Act).

17. Attach a plan to control run-on water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC.

18. In the case of an application to permit a new or expanded landfill, attach a leachate management plan that describes the anticipated amount of leachate that will be generated and the leachate's handling, storage, treatment and disposal, including final post closure options.

19. In the case of an application to permit a new or expanded landfill, attach a gas safety management plan that complies with the requirements of Subsection O of 19.15.36.13 NMAC

20. Attach a best management practice plan to ensure protection of fresh water, public health, safety and the environment.

21. Attach a demonstration of compliance with the siting requirements of Subsections A and B of 19.15.36.13 NMAC.

22. Attach geological/hydrological data including:

(a) a map showing names and location of streams, springs or other watercourses, and water wells within one mile of the site;

(b) laboratory analyses, performed by an independent commercial laboratory, for major cations and anions; benzene, toluene, ethyl benzene and xylenes (BTEX); RCRA metals; and total dissolved solids (TDS) of ground water samples of the shallowest fresh water aquifer beneath the proposed site;

(c) depth to, formation name, type and thickness of the shallowest fresh water aquifer;

(d) soil types beneath the proposed surface waste management facility, including a lithologic description of soil and rock members from ground surface down to the top of the shallowest fresh water aquifer;

(e) geologic cross-sections;

(f) potentiometric maps for the shallowest fresh water aquifer; and

(g) porosity, permeability, conductivity, compaction ratios and swelling characteristics for the sediments on which the contaminated soils will be placed.

23. In the case of an existing surface waste management facility applying for a minor modification, describe the proposed change and identify information that has changed from the last C-137 filing.

24. The division may require additional information to demonstrate that the surface waste management facility's operation will not adversely impact fresh water, public health, safety or the environment and that the surface waste management facility will comply with division rules and orders

25. CERTIFICATION

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name: JOHN VOLKERDING Title: GENERAL MANAGER

Signature: Date: MARCH 8, 2008

E-mail Address: BDINC@DIGII.NET

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 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

For State Use Only:

Form C-137
Revised March 1, 2007

Submit 1 Copy to Santa Fe Office

APPLICATION FOR SURFACE WASTE MANAGEMENT FACILITY

A meeting should be scheduled with the Division's Santa Fe office Environmental Bureau prior to pursuing an application for a surface waste management facility in order to determine if the proposed location is capable of satisfying the siting requirements of Subsections A and B of 19.15.36.13 NMAC for consideration of an application submittal.

1. Application: ☐ New ☒ Modification ☐ Renewal

2. Type: ☒ Evaporation ☒ Injection ☐ Treating Plant ☐ Landfill ☐ Landfarm ☐ Other

3. Facility Status: ☐ Commercial ☐ Centralized

4. Operator: BASIN DISPOSAL, INC

Address: 200 MONTANA, BLOOMFIELD, NM 87413 MAILING: PO BOX 100, AZTEC, NM 87410

Contact Person: JOHN VOLKERDING Phone: 505-334-3013

5. Location: SE /4 NW /4 Section 3 Township 29N Range 11W

6. Is this an existing facility? ☒ Yes ☐ No If yes, provide permit number NM-1-005

7. Attach the names and addresses of the applicant and principal officers and owners of 25 percent or more of the applicant. Specify the office held by each officer and identify the individual(s) primary responsible for overseeing management of the facility.

8. Attach a plat and topographic map showing the surface waste management facility's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the surface waste management facility site; watercourses; fresh water sources, including wells and springs; and inhabited buildings within one mile of the site's perimeter.

9. Attach the names and addresses of the surface owners of the real property on which the surface waste management facility is sited and surface owners of the real property within one mile of the site's perimeter.

10. Attach a description of the surface waste management facility with a diagram indicating the location of fences and cattle guards, and detailed construction/installation diagrams of pits, liners, dikes, piping, sprayers, tanks, roads, fences, gates, berms, pipelines crossing the surface waste management facility, buildings and chemical storage areas.

11. Attach engineering designs, certified by a registered professional engineer, including technical data on the design elements of each applicable treatment, remediation and disposal method and detailed designs of surface impoundments.

12. Attach a plan for management of approved oil field wastes that complies with the applicable requirements contained in 19.15.36.13, 19.15.36.14, 19.15.36.15 and 19.15.36.17 NMAC.

13. Attach an inspection and maintenance plan that complies with the requirements contained in Subsection L of 19.15.36.13 NMAC.

14. Attach a hydrogen sulfide prevention and contingency plan that complies with those provisions of 19.15.3.118 NMAC that apply to surface waste management facilities.

15. Attach a closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, safety and the environment (the closure and post closure plan shall comply with the requirements contained in Subsection D of 19.15.36.18 NMAC).

16. Attach a contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978, Sections 12-12-1 through 12-12-30, as amended (the Emergency Management Act).

17. Attach a plan to control run-on water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC.

18. In the case of an application to permit a new or expanded landfill, attach a leachate management plan that describes the anticipated amount of leachate that will be generated and the leachate's handling, storage, treatment and disposal, including final post closure options.

19. In the case of an application to permit a new or expanded landfill, attach a gas safety management plan that complies with the requirements of Subsection O of 19.15.36.13 NMAC

20. Attach a best management practice plan to ensure protection of fresh water, public health, safety and the environment.

21. Attach a demonstration of compliance with the siting requirements of Subsections A and B of 19.15.36.13 NMAC.

22. Attach geological/hydrological data including:

(a) a map showing names and location of streams, springs or other watercourses, and water wells within one mile of the site;

(b) laboratory analyses, performed by an independent commercial laboratory, for major cations and anions; benzene, toluene, ethyl benzene and xylenes (BTEX); RCRA metals; and total dissolved solids (TDS) of ground water samples of the shallowest fresh water aquifer beneath the proposed site;

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(e) geologic cross-sections;

(f) potentiometric maps for the shallowest fresh water aquifer; and

(g) porosity, permeability, conductivity, compaction ratios and swelling characteristics for the sediments on which the contaminated soils will be placed.

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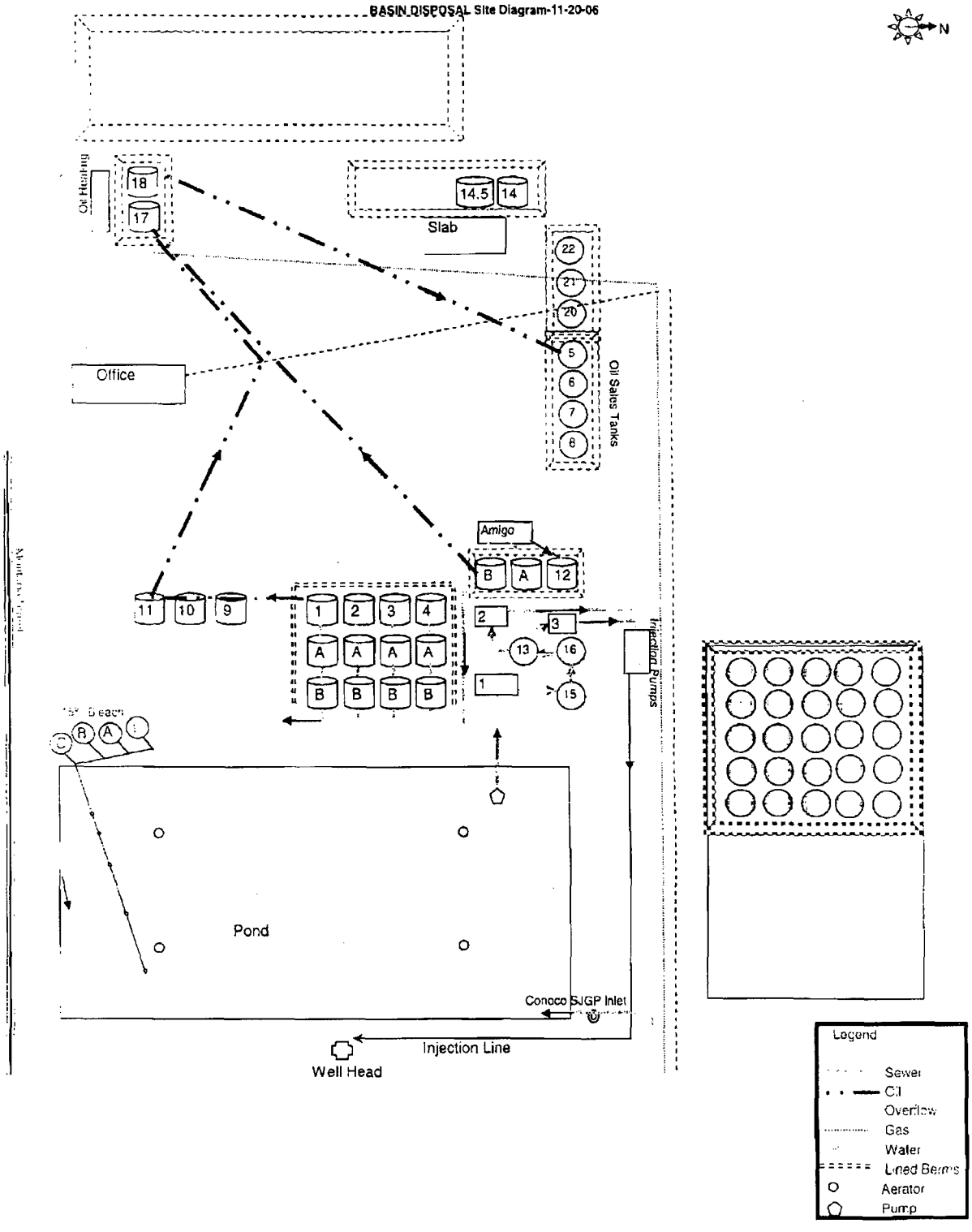
Name: JOHN VOLKERDING Title: GENERAL MANAGER

Signature: Date: MARCH 8, 2008

E-mail Address: BDINC@DIGIL.NET



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Bad road conditions causing problems

Staff Writer
Article Launched: 02/22/2008 12:00:00 AM MST

It's a blessing and a curse.

The snow San Juan County has enjoyed in recent months bodes well for city reservoirs and for summer water sports, but the mud that results from melting snow has created problems for area oil and gas companies and residents.

Hundreds of well sites have been shut down because oil field employees just can't get to them. Shutting a well involves closing a valve to cease its production, said John Byrom, president and CEO of D.J. Simmons and president of the Independent Petroleum Association of New Mexico. Service trucks also are unable to get to the sites to remove production by-products such as oil and produced water that is held in on-site tanks.

ConocoPhillips, which has about 10,000 wells in the San Juan Basin, is monitoring its operations carefully. Company spokesman John Zent said the company has more than 250 sites it has shut down, many of them with full oil or water tanks.

The Bureau of Land Management, while concerned about the inability of oil and gas companies to access sites because of the poor road conditions, is especially concerned about the roads where public, employee and livestock safety are an issue.

In an addendum to a letter sent to oil and gas companies Jan. 9, the BLM stated "In (an) effort to provide access to residential properties and active livestock allotments, we (BLM) will allow roads to be bladed to reduce the level of rutting that is currently hampering light vehicle traffic."

The addendum also states that once the road has been bladed and the depth of mud and rutting is reduced, the BLM would expect only emergency travel on those roads. The agency is discouraging routine water hauling, production operations or other heavy hauling equipment, except when absolutely necessary to avoid environmental damage and safety concerns.

If oil field equipment creates ruts of 6 inches or more, the responsible company must repair the road to pre-damage condition or better, states the BLM letter.

Whether it's an oil field vehicle or off-road vehicle driven by a private citizen, the

condition of rural roads and the natural environment should be a priority for us all. We each have a responsibility for maintaining our natural landscape and repairing any damage we cause.

As warm weather approaches, unpaved roads will continue to suffer, and caution is always advised when traveling them. Wet roads may become slippery and dangerous, and extra care should be taken by those using the roads.

Most of us are looking forward to spring; however winter's snow will continue to create problems in rural areas. Patience, extra attention to road condition, and a healthy respect for the environment will ensure the safety of those traveling the roads and the preservation of the landscape for which our area is noted.

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POST YOUR COMMENTS:

THE DAILY TIMES
FARMINGTON, NEW MEXICO

LOCAL NEWS Thursday, February 14, 2008

Bad road conditions expected to worsen: Gas producers prepare for access problems

By Cornelia de Bruin The Daily Times
Article Launched: 02/12/2008 12:00:00 AM MST

FARMINGTON — Local natural gas producers expect the worst is yet to come as their crews service well sites during the change from winter to mud season.

As temperatures flirt with warmth, snow is melting during daytime hours and causing water to pool atop frozen ground. Once the ground thaws, however, it will be a brand new ball game in the gas patch.

"The real problems are probably still ahead," John Roe Jr., engineering manager for Dugan Production Corp., said. "The pools are a problem, but it's really just beginning. It'll be worse when the ground thaws."

Click photo to enlarge

As the temperature rises and the snow melts, a dirt road leading... (Lindsay Pierce/The Daily Times)

1 2 »

The Bureau of Land Management, which oversees much of the land on which local companies' leases are located, recently sent producers a letter advising them not to drive on roads when their vehicles make ruts deeper than 6 inches.

"When the continuation of operations are deemed necessary in wet weather and result in ruts in excess of 6 inches by equipment moving under its own power, operators are required to repair the road to as good as pre-damage condition, or better, as weather permits," wrote Joel E. Farrell, assistant field manager for resources in the BLM's Farmington Field Office.

Roe said his boss, Tom Dugan, president of Dugan Production, has repeatedly assured his workers that things will be good after April 1.

ConocoPhillips spokesman Jim Lowry agreed road conditions are "a challenge" as winter tries to end in the San Juan Basin.

"We're able to get out to do the required maintenance," Lowry said.

Required maintenance includes draining drilling by-products from tanks that are kept on-site.

Latest News Headlines
- CCSD silent on attempted school suicides
- Pianist to play Valentine's Day concert at Totah
- Winter storm expected for Valentine's Day
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- Santa Fe attorney Gonzales wants to replace Udall
- Rural West advocate wants turn at local government
- Development group hears N.M. legislative reports
- Bloomfield Police look for drive-by suspect
- Healthy marriage conference today
- Republican Party to elect delegates next week
- New Mexico State Police

Tom Mullins, principal and engineering manager of Synergy Operating, LLC, said that while warm temperatures are nice, the lack of hard freezing during the night is negatively affecting local producers.

"Most operators will wait until weather improves to perform non-critical operations," Mullins said. "Produced water will be hauled during the evening and early morning hours while the freeze holds. Thankfully we have not had to shut in production, yet."

The National Weather Service predicts another front will sweep across the Four Corners area in a couple days.

"It will start Wednesday night, with the heaviest snowfall coming around midnight and tapering off by Thursday mid-morning," said National Weather Service Meteorologist Dan Porter, based in Albuquerque. "We're predicting 1 to 3 inches of snow in the Farmington area and just a little bit more near the Colorado line north of you."

A special weather statement notes that "accumulating snows are possible ... with the highest amounts across the northern and western mountains.

Bad winter weather conditions that shut down oil and gas access roads three years ago significantly affected natural gas production in the San Juan Basin. Producers are hoping that won't be the case this year.

Cornelia de Bruin: cdebruin@daily-times.com

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Basin Disposal	Project #:	03058-002
Sample ID:	Composite	Date Reported:	05-18-07
Laboratory Number:	41568	Date Sampled:	05-16-07
Chain of Custody No:	2680	Date Received:	05-16-07
Sample Matrix:	Soil	Date Extracted:	05-17-07
Preservative:	Cool	Date Analyzed:	05-17-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2.1**	**0.2**
Diesel Range (C10 - C28)	**1.2**	**0.1**
Total Petroleum Hydrocarbons	**3.3**	**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: **Basin Yard on 550 Stormwater Pond.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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	05-17-07 QA/QC	Date Reported:	05-18-07
Laboratory Number:	41568	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-17-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.0166E+003	1.0170E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.1785E+003	1.1790E+003	0.04%	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	2.1	2.0	4.8%	0 - 30%
Diesel Range C10 - C28	1.2	1.2	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	2.1	250	252	100.0%	75 - 125%
Diesel Range C10 - C28	1.2	250	250	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 41568 - 41569.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Basin Disposal	Project #:	03058-002
Sample ID:	Composite	Date Reported:	05-18-07
Laboratory Number:	41568	Date Sampled:	05-16-07
Chain of Custody:	2680	Date Received:	05-16-07
Sample Matrix:	Soil	Date Analyzed:	05-17-07
Preservative:	Cool	Date Extracted:	05-17-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**3.6**	**1.8**
Toluene	**20.2**	**1.7**
Ethylbenzene	**6.5**	**1.5**
p,m-Xylene	**79.2**	**2.2**
o-Xylene	**26.0**	**1.0**
Total BTEX	**136**	

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: **Basin Yard on 550 Stormwater Pond.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-17-BTEX QA/QC	Date Reported:	05-18-07
Laboratory Number:	41568	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-17-07
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	2.8840E+007	2.8898E+007	0.2%	ND	0.2
Toluene	2.8032E+007	2.8088E+007	0.2%	ND	0.2
Ethylbenzene	2.3709E+007	2.3756E+007	0.2%	ND	0.2
p,m-Xylene	4.8620E+007	4.8718E+007	0.2%	ND	0.2
o-Xylene	2.1753E+007	2.1797E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	3.6	3.6	0.0%	0 - 30%	1.8
Toluene	20.2	20.1	0.5%	0 - 30%	1.7
Ethylbenzene	6.5	6.5	0.0%	0 - 30%	1.5
p,m-Xylene	79.2	79.1	0.1%	0 - 30%	2.2
o-Xylene	26.0	26.1	0.4%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	3.6	50.0	53.5	99.8%	39 - 150
Toluene	20.2	50.0	70.1	99.8%	46 - 148
Ethylbenzene	6.5	50.0	56.4	99.8%	32 - 160
p,m-Xylene	79.2	100	179	99.8%	46 - 148
o-Xylene	26.0	50.0	75.9	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 41568 - 41569.

Analyst

Review

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CHAIN OF CUSTODY RECORD

2680

Client / Project Name: Basin Disposal

Project Location: Basin Yard on 550

Sampler: G. Crabtree

Client No.: 03058-002

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015	BTEX	Remarks
Composite	5/16/07	1400	41568	Soil	1	✓	✓	Stormwater Pond

Relinquished by: (Signature) — Date: 5/16/07 — Time: 1445

Received by: (Signature) — Date: 5/16/07 — Time: 1445

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	✓		
Cool - Ice/Blue Ice	✓		

P.01

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