# NM1 - \_\_\_\_5\_\_\_\_

# MAJOR MODIFICATION

# 2007 - Present

# Jones, Brad A., EMNRD

From: Sent: To: Subject: John Volkerding [bdinc@digii.net] Monday, September 24, 2007 2:38 PM Fesmire, Mark, EMNRD; Price, Wayne, EMNRD; Jones, Brad A., EMNRD Draft Permit Application Sep 2007

Attachments:

Draft Permit Application Sep 2007.pdf



Draft Permit Application Sep 2... Gentlemen;

This has been far too long in coming, but with the pit rule, etc... any earlier would probably not have been helpful anyway. Not all the maps and drawings were scanned (they were too big).

If Wayne and Brad have time for a pre-submittal technical meeting to go over this to see what questions they may have so we can include them in the final submittal, that may help make the process easier for everyone.

I'll be in SF next week for the produced water task force, but that may be too soon for you all. I am flexible and can meet anytime that works for you.

Thanks a bunch, John

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

- 10 M



909 W. APACHE A FARMINGTON, NM 87401 (505) 327-3303 A FAX (505) 327-1471 A www.c-w-e.com

September 21, 2007

NEW MEXICO

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ARIZONA

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2007		

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

# Re: Expansion Project Application for Wastewater Management Facility

Dear John:

We are submitting herewith one (1) preliminary copy of the enclosed application for your review and to submit to the State for their review. I will be out of town next week. If you have any questions please contact the office and they can contact me.

Very truly yours,

**CHENEY** ▲ WALTERS ▲ ECHOLS, INC.

Robert A. Echols, Jr., P.E. Vice President

RAE:lw 07111

Enclosures

GEORGE T. WALTERS, P.S. DARYL D. NORTHUP, P.S. ROBERT A. ECHOLS, JR., P.E.

WENDY W. PERKINS, P.E.



# **BASIN DISPOSAL FACILITY**

# **EXPANSION PROJECT**



909 W. APACHE · FARMINGTON, NEW MEXICO 87401 · (505) 327-3303

19.15.36.8.C (1)

Names and addresses of the applicant and principal officers and owners of 25 percent or more

Principal Officers:

President: Jerry Sandel, PO Box 100, Aztec, NM 87410 Vice President: David Turner, PO Box 358, Farmington, NM, 87499 Sec- Tres: David Turner, PO Box 358, Farmington, NM, 87499







1990

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![](_page_8_Figure_0.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_10_Picture_0.jpeg)

# New Mexico Office of the State Engineer Transaction Summary

### Back

Primary status: EXP Expired Permit         econdary status: EXP Expired         Person assigned: ******         Applicant: PATRICIA HARGIS         Date       Type Description       Comment       Processed By         17/31/1984       APP       Application Received       *******         18/02/1984       FIN       Final Action on application       *******         18/02/1984       WAP       General Approval Letter       *******         18/02/1984       WAP       General Approval Letter       *******         18/02/1985       EXP       Expired Permit (well log late)       *******         18/16/1985       EXP       Expired Permit (well log late)       *******         19/07/2003       ARV       Rec. & Arch - file location       SJ 01887 Box: 97       *******         10/07/2003       ARV       Rec. & Arch - file location       SJ 01887 Box: 97       *******         10/07/2003       ARV       Rec. & Arch - file location       SJ 01887 Box: 97       *******         10/07/2003       ARV       Rec. & Arch - file location       SJ 01887 Box: 97       ********         10/07/2003       ARV       Rec. & Arch - file location       SJ 01887 Box: 97       ********         10/07/10/07       29N 11W 03 SW in San Juan County	Trn_nh	<b>r:</b> 22843	8 Trn_desc:	SJ 01887	<b>File</b>   <b>Date:</b> 07/31/1984
Condery status: EXP Expired         Person sasigned: *******         Applicant: PATRICIA HARGIS         Date       Type Description       Comment       Processed By         27/31/1984       APP Application Received       ******         12/02/1984       FIN Final Action on application       ******         13/02/1984       WAP General Approval Letter       ******         18/02/1985       EXP Expired Permit (well log late)       ******         18/16/1985       EXP Expired Permit (well log late)       ******         19/10/2003       ARV Rec. & Arch - file location       SJ 01887 Box: 97       ******         1e Mbr       Acres       Diversion       Commutive       Purpose of Use         187       0       3       0       DOM 72-12-1 DOMESTIC ONE HOUSEHOLD         vint of Diversion       Jong SW in San Juan County       *******         iso eshall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.       ******         ******       *******       ************************************	Primary Sta	tus: EXP	Expired Permit		
Applicant:       PATRICIA HARGIS         Date       Type       Description       Comment       Processed By         17/31/1984       APP       Application Received       *******         18/02/1984       FIN       Final Action on application       SJ 01887 Box: 97         18/02/1985       EXP       Expired Permit (well log late)       *******         10/03/2003       ARV       Rec. & Arch - file location       SJ 01887 Box: 97       *******         11.       Acres       Diversion       DOM 72-12-1 DOMESTIC ONE HOUSEHOLD       *******         Mant of Diversion       29N 11W 03 SW in San Juan       County       *******         *:Depth of the well shall not exceed the thickness of the valley       fill.       *:         :Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.       *       ***************	econdary sta	tus: EXP	Expired		
Date     Type     Description     Comment     Processed By       17/31/1984     APP     Application Received     *     ******       18/02/1984     FIN     Final Action on application     ******       18/02/1984     WAP     General Approval Letter     ******       18/02/1984     WAP     General Approval Letter     ******       18/02/1984     WAP     General Approval Letter     ******       18/16/1985     EXP     Expired Permit (well log late)     ******       11/03/2003     ARV     Rec. & Arch - file location     SJ 01887 Box: 97       11/03/2003     ARV     Rec. & Arch - file location     SJ 01887 Box: 97       11/03/2003     ARV     Rec. & Arch - file location     SJ 01887 Box: 97       11/03/2003     ARV     Rec. & Arch - file location     SJ 01887 Box: 97       11/03/2003     ARV     Rec. & Arch - file location     SJ 01887 Box: 97       11/03/2003     O     DOM 72-12-1 DOMESTIC ONE HOUSEHOLD     Mint of Diversion       10/01/01/01/01/01/01/01/01/01/01/01/01/0	Applic	ant: PAT	RICIA HARGIS		
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<pre>18/02/1984 FIN Final Action on application</pre>	17/31/1984	APP	Application Received	*	*****
<pre>S8/02/1984 WAP General Approval Letter</pre>	18/02/1984	FIN	Final Action on application		*****
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<pre>itons   :Depth of the well shall not exceed the thickness of the valley   fill.   :Use shall be limited to household, non-commercial trees, lawn and   garden not to exceed one acre and/or stock use.   of the State Engineer   Approval Code: A Approved</pre>					
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of the State Engineer Approval Code: A Approved	garden not	to excee	d one acre and/or stock use.		
Approval Code: A Approved	of the Stat	e Engine	er		
	Approval Co	de: A A	pproved		

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Sew Mexico Office of the State Engineer	Page 1 of 1
New Mexico Office of the State Engineer POD Reports and Downloads	
Township: 29N Range: 11W Sections: 3	
NAD27 X: Y: Zone: Search	Radius:
County: SJ 🚽 Basin: SJ(San Juan) 🚽 Numb	per: Suffix:
Owner Name: (First) (Last) C Non-	Domestic C Domestic
POD / Surface Data Report Avg Depth to Water	Report
Water Column Report	
Clear Form iWATERS Menu Help	
POD / SURFACE DATA REPORT	09/07/2007
(acre ft per annum) B File Nbr Use Diversion Owner	(qu. POD Number
J01887DOM0PATRICIA HARGISJ01995DOM3RAYMOND DETTERRERA	<u>SJ 01887</u> SJ 01995
Record Count: 2	

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

9/7/2007

New Mexico Office of the State Engineer
Transaction Summary

Back	

72121 3	11	Applications	Under	Statute	72-12	-1
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Decondary stat	us: APR	Approved		
Applica	nt: RAYI	MOND DEHERRERA		• .
B Date	Туре	Description	Comment	Processed By
52 · 10 / 100 F	מתא	Application Received	•	
-9/26/1985	ETN ST	Final Action on application	-	*****
18/20/1985	L T IN M Y D	Final Action on application		*****
18/26/1985	WAP	General Approval Letter		****
. 1/03/2003	ARV	Rec & Arch - Tile location	S0 01995 BOX: 99	
1995 0 <b>Sint of Diver</b> SJ 01995	3 sion	29N 11W 03 NE SW in San Juan	County	HOLD
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Page 1 of 1

	POD Rep	orts and Downloads	
Township: 29N	Range: 11W	Sections: 2,,4,,34	
NAD27 X:	Y:	Zone: Search Radius:	
County: SJ	Basin: SJ( Sa	n Juan) 🗾 Number:	Suffix:
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POD / Su	rface Data Report	Avg Depth to Water Report	
	Wate	er Column Report	
	Clear Form	iWATERS Menu Help	
Twe Rng Sec Zone			
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Records found, try a	again	Y Wells Min Max Avg	
Records found, try a	again	Y Wells Min Max Avg	·

Page 1 of 1

	POD	keports and Down	loads	
Township: 🕄	BON Range: 11V	V Sections: 33,,;	34,35	
NAD27 X:	Y:	Zone:	Search Radius:	-
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://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

9/7/2007

# 3. 19.15.36.8C(3)

We have enclosed the names and addresses of the surface owners of the properties within one mile of the site perimeter.

![](_page_16_Figure_2.jpeg)

Owner         Address         City, State, Zp         Book         Page         AccTTYPE           CHANE LER M TRUSTEE         10 80 X 448         FLORA VISTA, NN 87413         1138         1138         730         Commercial           DEAKE TWAMA AND LORRAINE         10 80 X 448         FLORA VISTA, NN 87413         1138         730         Commercial           DEAKE TWAMA AND LORRAINE         10 80 X 448         FLORA VISTA, NN 87413         1138         730         Commercial           DEAKE TWAMA AND LORRAINE         10 80 X 1725         FLORA VISTA, NN 87413         1336         730         Commercial           DEAKE TWAMA AND LORRAINE         10 80 X 1725         FLORA VISTA, NN 87413         1319         2315         Valent Land           DEAKE TWAMA AND LORRAINE         10 80 X 1725         FLORA VISTA, NN 87413         1319         2315         Valent Land           LOURY SOURT AND CANNAE         10 80 X 1725         FLORA VISTA, NN 87413         1312         2316         Residential           LOURY SOURT AND CANNAE         10 80 X 1725         FLORA VISTA, NN 87413         1315         27         Commercial           DAND C RAPORETTIS LLC         10 80 R01735         FLORA VISTA, NN 87413         1315         27         Commercial           DAND C RAPORETTIS LLC						
Cjakle Lee M 'RUSTEE         125 S POLLARD         ACTEC, NM 87413         1236         723 Vacant Land           DAWC ONE NA         P O BOX 448         FLORA VISTA, IM 87415         1300         533 Vacant Land           DAWC ONE NA         P O BOX 448         FLORA VISTA, IM 87415         1300         533 Vacant Land           DAWC ONE NA         P O BOX 163         FLORA VISTA, IM 87415         1300         533 Vacant Land           DAWC ONE NA         P O BOX 1735         FLORA VISTA, IM 87413         1311         312 Vacant Land           DAWC ONE NA         P O BOX 1735         BLOOMFELD, IM 87413         1312         1318 Association           COURN JAND CANDLE         P O BOX 1735         BLOOMFELD, IM 87413         1312         1318 Association           DAND C RODERTIES LLC         P O BOX 1735         ELINICE, IM 88231         1315         27 Commercial           D AND C RODERTIES LLC         P O BOX 1735         ELINICE, IM 88231         1315         27 Commercial           D AND C RODERTIES LLC         P O BOX 1735         ELINICE, IM 88231         1315         27 Commercial           D AND C RODERTIES LLC         P O BOX 1735         ELINICE, IM 88231         1315         27 Commercial           D AND C RODERTIES LLC         P O BOX 1335         ELINICE, IM 88231         1315 <th>Owner</th> <th>Address</th> <th>City, State, Zip</th> <th>Book</th> <th>Page</th> <th>ACCTTYPE</th>	Owner	Address	City, State, Zip	Book	Page	ACCTTYPE
DEAKE TWAMA AND LORBATINE         P O BOX 448         FLORA VISTA, MR 87415         1395         513         Vision 1300           DAKE TWAMA AND LORBATINE         P O BOX 448         FLORA VISTA, MR 87415         1390         530         Commercial           SIMKUS TRUCTING INC         P O BOX 438         FLORA VISTA, MR 87415         1390         530         S61         Vision 1300         1311         312         1380         561         Vision 1300         1331         312         1380         561         Vision 1300         1331         1312         1380         561         Vision 1300         1331         1315         Vision 1300         1335         Vision 1300         Vision 1301         1315         Vision 1300         Vision 1300         Vision 1305	CRANE LEE M TRUSTEE	125 S POLLARD	AZTEC, NM 874102073	1238	662	Vacant Land
DEMARE         P. D. BOX 148         P. D. BOX 148         D. BOX 158         D. BOX 155         D. BOX 155 <thd. 155<="" box="" th="">         D. BOX</thd.>	DRAKE TWANA AND LORRAINE	P O BOX 448	FLORA VISTA, NM 87415	1395	730	Commercial
Gank Ode N.A.         JIA/5 PAUM BEACH (AKES)         FARMINGTON, NM 87430         J32         J32         L33         Vacant Land           GUNKY JOHN J AND CANDACE         P O BOX 1238         FARMINGTON, NM 87433         J31         Vacant Land           GUNKY JOHN J AND CANDACE         P O BOX 2755         BLOONFFELD, NM 874332755         J334         Zacant Land           GUNKY JOHN J AND CANDACE         P O BOX 2755         BLOONFFELD, NM 874332755         J335         Canter Land           GUNKY JOHN J AND CANDACE         P O BOX 2755         BLOONFFELD, NM 87433057         J336         Canter Land           GUNK SON CHARLES AND JOAN E         P O BOX 1735         BLOONFFELD, NM 87433057         J337         Galance Land           FOREFACE FUE         PAND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         J375         Z7         Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         J375         Z7         Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         J375         Z7         Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         J375         Z7         Commercial           D AND C PROPERTIES LLC         PO BOX 133         BLOONFFELD, NM 87413	DRAKE TWANA AND LORRAINE	P O BOX 448	FLORA VISTA, NM 87415	1380	563	Vacant Land
Sjerkins TRUCKING INC         P O BOX 205         GAUNCE         P O BOX 205         BLOOMFELD LW 87439         1311         315 [Vacant Land COURT SUMME]           LOUAR SAMUEL CE FUX         P O BOX 205         BLOOMFELD, NM 87413016         1304         839 Commercial BLOOMFELD, NM 87413016         1309	BANK ONE N A	1675 PALM BEACH LAKES BL	WEST PALM BEACH, FL 33401	1392	178	Residential
CGURY DINH J AND CANDACE         6651 US 64         BLOOMFELD, MM 37413         13.8         216 Residential           HOLLAR SANUEL C F UX         P 0 BOX 2075         BLOOMFELD, MM 874132016         1214         829 Commercial           JONES ANY L         P 0 BOX 2075         BLOOMFELD, MM 874130507         1339	SIMKINS TRUCKING INC	P O BOX 1528	FARMINGTON, NM 87499	1311	315	Vacant Land
HolLLAR SANUEL, C. ET. UX.         P O BOX 2016         BLOOMFIELD, NM 874132016         1204         839 Commercial p O BOX 2775         BLOOMFIELD, NM 874132016         1394         649 Residential p O BOX 1735         1395         1395         839 Commercial p O BOX 1735         1395         1395         839 Commercial p O BOX 1735         1395         1395         1395         27 Vacant Land p O BOX 1735         1395         1395         27 Vacant Land p O BOX 1735         1395         27 Commercial p O BOX 1839         1310         1315         1310         1315         1310	COURY JOHN J AND CANDACE	6651 US 64	BLOOMFIELD, NM 87413	1318	216	Residential
Divides AND C. PROPERTIES LLC         P 0 BOX 2775         BLOOMFIELD, NM 874130507         1354         647 (Secondardian Secondardian Secon	HOLLAR SAMUEL C ET UX	P O BOX 2016	BLOOMFIELD, NM 874132016	1204	839	Commercial
Envinescon Charales And DAN E         P 0 Box 507         BLOWFIELD, NN 874130507         1354         649 Residential           D AND C RROPERTIES LLC         P0 Box 1735         EUNICE, NN 88231         1375         27 Vacant Land           D AND C RROPERTIES LLC         P0 Box 1735         EUNICE, NN 88231         1375         27 Commercial           D AND C RROPERTIES LLC         P0 Box 1735         EUNICE, NN 88231         1375         27 Commercial           D AND C RROPERTIES LLC         P0 Box 1735         EUNICE, NN 88231         1375         27 Commercial           D AND C ROPERTIES LLC         P0 Box 1735         EUNICE, NN 88231         1375         27 Commercial           D AND C ROPERTIES LLC         P0 Box 1735         EUNICE, NN 88231         1375         27 Commercial           D AND C ROPERTIES LLC         P0 Box 1735         EUNICE, NN 88231         1375         27 Commercial           BLOOMFIELD CITY OF         P0 Box 100         GALLUP, NN 874131633         1410         80 Residential           BLOOMFIELD CITY OF         P0 Box 100         AZTEC, NN 874100100         1170         560 Vacant Land           BLOOMFIELD CITY OF         P0 Box 100         AZTEC, NN 874100100         11170         506 Vacant Land           BLOOMFIELD CITY OF         P0 Box 123         AZTEC, NN 874100100	JONES AMY L	P O BOX 2775	BLOOMFIELD, NM 874132775	1399		Residential
D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Seatural D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Seatural D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Semercial D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 88231         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IN 87311839         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 133         EUNICE, IN 87311839         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 133         EUNICE, IN 87311839         1375         Z7 (Commercial D AND C PROPERTIES LLC         PO BOX 133         BLOOMFIELD CIN M 87413         1315         S14         S14         S1416         S14         S14         S1416         S14         S1416         S14         S16	EAVENSON CHARLES AND JOAN E	P O BOX 507	BLOOMFIELD, NM 874130507	1354	649	Residential
D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Residential           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 8231         1375         27 Commercial           ETOFEANCE FVEL, AND SUPPLY INC         90 BOX 133         EUNICE, NM 874131839         1415         543 Eempt           MULLANS JORETTA W         PO BOX 1839         BLOOMFIELD, NM 874131839         1410         808 Residential           BLOOMFIELD CITY OF         PO BOX 1839         BLOOMFIELD, NM 87413139         1410         808 Residential           MULLANS JORETTA W         PO BOX 1839         BLOOMFIELD, NM 87413139         1410         808 Residential           MULLANS JORETTA W         PO BOX 1839         BLOOMFIELD, NM 874130         1415         916 Vecant Land           BASIN DISPOSAL INC         PO BOX 1839         BLOOMFIELD, NM 874100100         1170         506 Vecant Land           BASIN DISPOSAL INC         AND JERLY R TRUST <t< td=""><td>D AND C PROPERTIES LLC</td><td>PO BOX 1735</td><td>EUNICE, NM 88231</td><td>1375</td><td>27</td><td>Vacant Land</td></t<>	D AND C PROPERTIES LLC	PO BOX 1735	EUNICE, NM 88231	1375	27	Vacant Land
D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Commercial           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Commercial           P AND C PROPERTIES LLC         PO BOX 1735         EUNICE, NM 88231         1375         27 Commercial           P AND C PROPERTIES LLC         PO BOX 1335         EUNICE, NM 88231         1375         27 Commercial           P O BOX 100         AZTEC, NM 87431839         1415         543 Exempt           WILLAMS JORETTA W         P O BOX 100         AZTEC, NM 874131839         1410         811 Residential           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1415         916 Vacant Land           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1415         916 Vacant Land           BASIN DISPOSAL INC         P O BOX 1839         BLOOMFIELD, NM 874133         1408         453 Exempt           MCCONNEL WILLAM         FRUST         P O BOX 1839         BLOOMFIELD, NM 87413         1416	D AND C PROPERTIES LLC	PO BOX 1735	EUNICE, NM 88231	1375	27	Residential
D AND C PROPERTIES LLC         PO BOX 1/35         EUNICE, IM 88231         1375         22 (commercial pO BOX 1735           D AND C PROPERTIES LLC         PO BOX 1735         EUNICE, IM 88231         1375         22 (commercial pO BOX 1839         EUNICE, IM 88231         1375         22 (commercial pO BOX 1839           FT DEFANCE ELE, AND SUPPLY INC         920 E HWY 66         GALUP, IM 87411839         1415         543 Exempt           BLOOMFIELD CITY OF         P 0 BOX 1839         BLOOMFIELD, IM 874131839         1415         543 Exempt           WILLIAMS JORETTA W         P 0 BOX 1134         BLOOMFIELD, IM 874131331         1410         808 Residential           BLOOMFIELD CITY OF         P 0 BOX 100         AZTEC, NM 87410         1410         801 Residential           BASIN DISPOSAL INC         P 0 BOX 100         AZTEC, NM 874100         1415         916 Vacant Land           BASIN DISPOSAL INC         P 0 BOX 100         AZTEC, NM 874100         1413         806 Vacant Land           BASIN DISPOSAL INC         P 0 BOX 1433         BLOOMFIELD, NM 87413         1416         806 Vacant Land           BASIN DISPOSAL INC         P 0 BOX 1433         BLOOMFIELD, NM 87413         1416         806 Vacant Land           BASIN DISPOSAL INC         P 0 BOX 123         P 0 BOX 1433         1421         1468	D AND C PROPERTIES LLC	PO BOX 1735	EUNICE, NM 88231	1375	- 27	Commercial
D         AND. C PROPERTIES LLC         PO BOX 1/35         EUNICE, NM 88/31         1.37         27 commercial           ET OFERANCE FUEL AND SUPPLY INC         92.0 E MWY 66         GALLUP, NM 87301         1.37         27 commercial           BLOOMFIELD CITY OF         90.0 BOX 1839         BLOOMFIELD, NM 87301         1.129         7.16         Vacant Land           BLOOMFIELD CITY OF         90.0 BOX 1839         BLOOMFIELD, NM 874131431         1.410         808         Residential           BLOOMFIELD CITY OF         90.0 BOX 1839         BLOOMFIELD, NM 874131431         1.410         808         Residential           BLOOMFIELD CITY OF         90.0 BOX 100         AZTEC, NM 874100100         1.415         9.16         Vacant Land           BLOOMFIELD CITY OF         90.0 BOX 100         AZTEC, NM 874100100         1.415         9.16         Vacant Land           BLOOMFIELD CITY OF         90.0 BOX 100         AZTEC, NM 874100100         1.415         9.16         Vacant Land           BLOOMFIELD CITY OF         90.0 BOX 130         AZTEC, NM 874100100         1.415         9.16         Vacant Land           BLOOMFIELD, NM RTRUST         P0.0 BOX 1343         AZTEC, NM 874130         1.413         4.96         Commercial           BLOOMFIELD, NM 87413         ATTES, N.M 87413	D AND C PROPERTIES LLC	PO BOX 1735	EUNICE, NM 88231	1375	27	Commercial
FT         DEFIANCE FUEL AND SUPPLY INC         920 E HWY 66         GALLUP, NM 87301         1297         716 Vacant Land           BLOOMFIELD CITY OF         P 0 BOX 1431         BLOOMFIELD, NM 874131839         1415         543 Exempt           BLOOMFIELD CITY OF         P 0 BOX 1431         BLOOMFIELD, NM 874131839         1415         543 Exempt           BLILLAMS JORETTA W         P 0 BOX 1031         BLOOMFIELD, NM 874131839         1410         801 Residential           BLILLAMS JORETTA W         P 0 BOX 100         AZTEC, NM 874131         1410         801 Residential           BLSIN DISPOSAL INC         P 0 BOX 100         AZTEC, NM 874130         1415         916 Vacant Land           BASIN DISPOSAL INC         P 0 BOX 100         AZTEC, NM 874130         1415         916 Vacant Land           BASIN DISPOSAL INC         P 0 BOX 100         AZTEC, NM 874130         1415         916 Vacant Land           BASIN DISPOSAL INC         P 0 BOX 100         AZTEC, NM 874100100         1415         916 Vacant Land           BASIN DISPOSAL INC         P 0 BOX 100         AZTEC, NM 87413         1408         453 Exempt           BASIN DISPOSAL INC         P 0 BOX 123         AZTEC, NM 87413         1408         950 Residential           MC CONNEL WILLAMS ANN         P 0 BOX 2124         PLORA V	D AND C PROPERTIES LLC	PO BOX 1735	EUNICE, NM 88231	1375	27	Commercial
BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 874131839         1415         543 Exempt           BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 874131839         1415         S43 Exempt           BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 874131839         1410         S08 Esempt           BLOOMFIELD CITY OF         P O BOX 1134         BLOOMFIELD, NM 87413133         1410         S08 Esempt           WILLIAMS JORETTA W         P O BOX 100         A2TEC, NM 874100         1415         S14         Scant Land           BASIN DISPOSAL INC         P O BOX 100         A2TEC, NM 874100100         1415         S16         Vacant Land           BLOOMFIELD CITY OF         P O BOX 100         A2TEC, NM 874100100         1415         S16         Vacant Land           BASIN DISPOSAL INC         P O BOX 100         A2TEC, NM 874100100         1413         S16         Vacant Land           BLOOMFIELD CITY OF         P O BOX 1330         A2TEC, NM 874100100         1413         S16         Vacant Land           BLOOMFIELD CITY OF         P O BOX 1330         A2TEC, NM 874100         1413         S60         Vacant Land           BLOOMFIELD CITY OF         P O BOX 343         FLORA VISTA, NM 87413         1428         Vacant Land	FT DEFIANCE FUEL AND SUPPLY INC	920 E HWY 66	GALLUP, NM 87301	1297	716	Vacant Land
WILLIAMS JORETTA W         P O BOX 1431         BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 874131431         1410         808 Residential           BLOOMFIELD CITY OF         P O BOX 1134         P O BOX 1134         BLOOMFIELD, NM 874131839         1410         808 Residential           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 87410         1415         916 Vacant Land           BLOOMFIELD CITY OF         P O BOX 100         AZTEC, NM 874100100         1110         S06 Vacant Land           BLOOMFIELD CITY OF         P O BOX 100         AZTEC, NM 874100100         1415         916 Vacant Land           BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 87413         1408         451 Residential           MC CONNEL WILLIAM E AND MARY ANN         P O BOX 1839         BLOOMFIELD, NM 874130         1415         916 Vacant Land           BLOOMFIELD CITY OF         P O BOX 343         P O BOX 343         FLORA VISTA, NM 87413033         1423         Seempt           MC CONNEL WILLIAM E AND MARY ANN         P O BOX 343         FLORA VISTA, NM 874150343         1413         469 Commercial           DJAL OIL COMPANY         FO BOX 1839         BLOOMFIELD, NM 87413         1413         145         850 Residential           DJAL DI PARTNERSHIP         PO BOX 188         BLOOMFIELD,	BLOOMFIELD CITY OF	P O BOX 1839	BLOOMFIELD, NM 874131839	1415	543	Exempt
BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 874131839         1408         445 Exempt           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 87413         1410         811 Residential           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 87410         1170         506 Vacant Land           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100         1170         506 Vacant Land           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1170         506 Vacant Land           BLOOMFIELD CITY OF         P O BOX 100         AZTEC, NM 874100100         1415         916 Vacant Land           BLOOMFIELD CITY OF         P O BOX 133         FLORA VISTA, NM 87413         1408         453 Exempt           MC CONNEL WILLIAM E AND JERILYN R TRUST         P O BOX 343         FLORA VISTA, NM 87413         1408         306 Vacant Land           MJLARS JORESCO J         P O BOX 2124         P O BOX 2124         BLOOMFIELD, NM 87413         1421         499 Commercial           D J SIMMONS CO LITD PARTNERSHIP         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1411         7 Commercial           CHANUE M CONALD F SA AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1322         76 Vacant Land           CHANUE M CONALD F SA AND S	WILLIAMS JORETTA W	P O BOX 1431	BLOOMFIELD, NM 874131431	1410	808	Residential
WILLIAMS JORETTA W         P O BOX 1134         BLOOMFIELD, NM 87413         1410         811 Residential           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 87410         1415         916 Vacant Land           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1170         S06 Vacant Land           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1170         S06 Vacant Land           BASIN DISPOSAL INC         P O BOX 1000         AZTEC, NM 874100100         1170         S06 Vacant Land           BASIN DISPOSAL INC         P O BOX 1000         AZTEC, NM 874100100         1415         916 Vacant Land           BASIN DISPOSAL INC         P O BOX 1839         BLOOMFIELD, NM 87413         1408         453 Exempt           MCCONNEL WILLIAM E AND JERLYN R TRUST         P O BOX 343         FLORA VISTA, NM 87413         1413         469 Commercial           DIAL OIL COMPANY         P O BOX 2124         P O BOX 2124         BLOOMFIELD, NM 87413         1413         145 Residential           D J SIMMONS CO LITD PARTNERSHIP         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87413         1411         145 Residential           VGCUM DONALD P SR AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1332         776 Vacant Land           VGCUM DONALD P SR	BLOOMFIELD CITY OF	P O BOX 1839	BLOOMFIELD, NM 874131839	1408	454	Exempt
BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 87410         1415         916 Vacant Land           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1170         506 Vacant Land           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1170         506 Vacant Land           BLOOMFIELD CITY OF         P O BOX 1339         BLOOMFIELD, NM 87413         1415         916 Vacant Land           BLOOMFIELD CITY OF         P O BOX 1339         BLOOMFIELD, NM 87413         1408         453 Exempt           MCS SJAKIE L AND MARY ANN         P O BOX 2124         P O BOX 2124         BLOOMFIELD, NM 87413         1413         469 Commerciai           D JAL OIL COMPANY         P O BOX 1124         P O BOX 2124         BLOOMFIELD, NM 87413         1421         1457 Residentiai           D JAL OIL COMPANY         P O BOX 1839         RIDGEWAY PL STE 200 FARMINGTON, NM 87413         1421         1451 Residentiai           D JAL OIL COMALD P SR AND SUE TRUST         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1411         7 Commerciai           V/CLAN GORDON N AND DORCAS A TRST ETAL         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1426         898 Commerciai           V/CLAN GORDOL N AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1332         785 Comm Mix </td <td>WILLIAMS JORETTA W</td> <td>P O BOX 1134</td> <td>BLOOMFIELD, NM 87413</td> <td>1410</td> <td>811</td> <td>Residential</td>	WILLIAMS JORETTA W	P O BOX 1134	BLOOMFIELD, NM 87413	1410	811	Residential
BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1170         506 Vacant Land           BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1415         916 Vacant Land           BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 87413         1408         950 Vacant Land           MC CONNEL WILLIAM E AND JENLYN R TRUST         P O BOX 343         BLOOMFIELD, NM 874100941         1408         950 Residential           MCS SJAKIE L AND MARY ANN         P O BOX 343         FLORA VISTA, NM 874100941         1408         950 Residential           DJAL OIL COMPANY         P O BOX 2124         P O BOX 2124         BLOOMFIELD, NM 87413         1413         469 Commercial           D J SIMMONS CO LTD PARTNERSHIP         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1411         7 Commercial           CRANE GORDON N AND DORCAS A TRST ETAL         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87413         1421         1458 Residential           V/CLUM DONALD P SR AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1421         7 Commercial           V/CLUM DONALD P SR AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1322         785 Comm Mix           CHARFIER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1416         637 Residential <td>BASIN DISPOSAL INC</td> <td>P O BOX 100</td> <td>AZTEC, NM 87410</td> <td>1415</td> <td>916</td> <td>Vacant Land</td>	BASIN DISPOSAL INC	P O BOX 100	AZTEC, NM 87410	1415	916	Vacant Land
BASIN DISPOSAL INC         P O BOX 100         AZTEC, NM 874100100         1415         916 Vacant Land           BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 87413         1408         453 Exempt           MC CONNEL WILLIAM E AND JERILYN R TRUST         P O BOX 343         BLOOMFIELD, NM 874100941         1408         453 Exempt           MOSS JAKIE L AND MARY ANN         P O BOX 343         FLORA VISTA, NM 874100941         1408         950 Residential           DJAL OIL COMPANY         P O BOX 130         P O BOX 124         FLORA VISTA, NM 874100941         1413         469 Commercial           ESTRADA FRANCISCO J         P O BOX 2124         P O BOX 2124         BLOOMFIELD, NM 87413         1413         469 Commercial           D J SIMMONS CO LITD PARTNERSHIP         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1421         145 Residential           YOCUM DONALD P SR AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1322         78 Commercial           YOCUM DONALER LARRY M         PO BOX 188         BLOOMFIELD, NM 87413         1332         776 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         BLOOMFIELD, NM 87413         1333         776 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1416         637 Residential	BASIN DISPOSAL INC	P O BOX 100	AZTEC, NM 874100100	1170	506	Vacant Land
BLOOMFIELD CITY OF         P O BOX 1839         BLOOMFIELD, NM 87413         1408         453 Exempt           MC CONNEL WILLIAM E AND JERILYN R TRUST         P O BOX 941         AZTEC, NM 874100941         1408         950 Residential           MOSS JAKIE L AND MARY ANN         P O BOX 343         FLORA VISTA, NM 874100941         1408         950 Residential           DJAL OIL COMPANY         P O BOX 430         AZTEC, NM 874100941         1408         950 Residential           ESTRADA FRANCISCO J         P O BOX 124         P O BOX 2124         BLOOMFIELD, NM 87413         1413         469 Commercial           CFANE GORDON N AND DORCAS A TRST ETAL         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1421         7 Commercial           YOCUM DONALD P SR AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1332         785 Comm Mix           CHANDLER LARRY M         NC O BOX 23         BLOOMFIELD, NM 87413         1333         776 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         BLOOMFIELD, NM 87413         1333         776 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87413         1333         776 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER	BASIN DISPOSAL INC	P O BOX 100	AZTEC, NM 874100100	1415	916	Vacant Land
MC CONNEL WILLIAM E AND JERILYN R TRUSTP 0 BOX 941AZTEC, NM 8741009411408950 ResidentialMOSS JAKIE L AND MARY ANNP 0 BOX 343FLORA VISTA, NM 8741009411408950 ResidentialDJAL OIL COMPANYP 0 BOX 430AZTEC, NM 874101413469 CommercialESTRADA FRANCISCO JP 0 BOX 2124BLOOMFIELD, NM 874131421143469 CommercialD J SIMMONS CO LID PARTNERSHIP1009 RIDGEWAY PL STE 200 FARMINGTON, NM 8741314217 CommercialCRANE GORDON N AND DORCAS A TRST ETAL1009 RIDGEWAY PL STE 200 FARMINGTON, NM 874131322785 CommercialYGCUM DONALD P SR AND SUE TRUSTP 0 BOX 188BLOOMFIELD, NM 874131332785 CommercialNATCO PETROLEUM INCP0 BOX 188BLOOMFIELD, NM 874131333776 Vacant LandSCHAFFER FAMILY TRUSTP 0 BOX 23AZTEC, NM 874101416637 ResidentialSCHAFFER FAMILY TRUSTP 0 BOX 23AZTEC, NM 874101416637 ResidentialSCHAFFER FAMILY TRUSTP 0 BOX 23AZTEC, NM 874101416637 Residential	BLOOMFIELD CITY OF	P O BOX 1839	BLOOMFIELD, NM 87413	1408	453	Exempt
MOSS JAKIE L AND MARY ANNP O BOX 343FLORA VISTA, NM 8741503431424386 Vacant LandDJAL OIL COMPANYPO BOX 430A2TEC, NM 874101413469 CommercialESTRADA FRANCISCO JP O BOX 2124BLOOMFIELD, NM 874101421145 ResidentialD J SIMMONS CO LTD PARTNERSHIP1009 RIDGEWAY PL STE 200 FARMINGTON, NM 8740114417 CommercialVGCUM DONALD P SR AND SUE TRUSTPO BOX 188BLOOMFIELD, NM 874131332785 Comm MixVGCUM DONALD P SR AND SUE TRUSTPO BOX 188BLOOMFIELD, NM 874131333776 Vacant LandNATCO PETROLEUM INCPO BOX 445BLOOMFIELD, NM 874131333776 Vacant LandSCHAFFER FAMILY TRUSTPO BOX 23AZTEC, NM 874101416637 ResidentialSCHAFFER FAMILY TRUSTPO BOX 23AZTEC, NM 874101416637 Residential	MC CONNEL WILLIAM E AND JERILYN R TRUST	P O BOX 941	AZTEC, NM 874100941	1408	950	Residential
DIAL OIL COMPANY         PO BOX 430         AZTEC, NM 87410         113         469         Commercial           ESTRADA FRANCISCO J         P 0 BOX 2124         BLOOMFIELD, NM 87413         1421         145         Residential           D J SIMMONS CO LTD PARTNERSHIP         1009 RIDGEWAY PL STE 200         FARMINGTON, NM 87401         1421         7         Commercial           VGCUM DONALD P SR AND SUE TRUST         P0 BOX 188         BLOOMFIELD, NM 87413         1322         785         Commercial           VGCUM DONALD P SR AND SUE TRUST         P0 BOX 188         BLOOMFIELD, NM 87413         1332         785         Commercial           VGCUM DONALD P SR AND SUE TRUST         P0 BOX 188         BLOOMFIELD, NM 87413         1332         785         Comm Mix           CHANDLER LARRY M         P0 BOX 145         BLOOMFIELD, NM 87413         1333         776         Vacant Land           SCHAFFER FAMILY TRUST         P0 BOX 23         BLOOMFIELD, NM 87410         1168         566         Vacant Land           SCHAFFER FAMILY TRUST         P0 BOX 23         AZTEC, NM 87410         1416         637         Residential           SCHAFFER FAMILY TRUST         P0 BOX 23         AZTEC, NM 87410         1416         637         Residential           SCHAFFER FAMILY TRUST         P0 BOX 23	MOSS JAKIE L AND MARY ANN	P O BOX 343	FLORA VISTA, NM 874150343	1424	386	Vacant Land
ESTRADA FRANCISCO J         P O BOX 2124         BLOOMFIELD, NM 87413         1421         145 Residential           D J SIMMONS CO LTD PARTNERSHIP         1009 RIDGEWAY PL STE 200         FARMINGTON, NM 87401         1441         7 Commercial           CRANE GORDON N AND DORCAS A TRST ETAL         1009 RIDGEWAY PL STE 200         FARMINGTON, NM 87401         1426         898 Commercial           VGCUM DONALD P SR AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1332         785 Comm Mix           CHANDLER LARRY M         PO BOX 188         BLOOMFIELD, NM 87413         1333         776 Vacant Land           NATCO PETROLEUM INC         PO BOX 445         BLOOMFIELD, NM 87413         1333         776 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1416         637 Residential	DIAL OIL COMPANY	PO BOX 430	AZTEC, NM 87410	1413	469	Commercial
D J SIMMONS CO LTD PARTNERSHIP         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1441         7 Commercial           CRANE GORDON N AND DORCAS A TRST ETAL         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1426         898         commercial           VGCUM DONALD P SR AND SUE TRUST         P0 BOX 188         BLOOMFIELD, NM 87413         1332         785         Commercial           VGCUM DONALD P SR AND SUE TRUST         P0 BOX 188         BLOOMFIELD, NM 87413         1333         776         Vacant Land           NATCO PETROLEUM INC         P0 BOX 188         BLOOMFIELD, NM 87413         1333         776         Vacant Land           SCHAFFER FAMILY TRUST         P0 BOX 23         AZTEC, NM 87410         1416         637         Residential           SCHAFFER FAMILY TRUST         P0 BOX 23         AZTEC, NM 87410         1416         637         Residential	ESTRADA FRANCISCO J	P O BOX 2124	BLOOMFIELD, NM 87413	1421	145	Residential
CRANE GORDON N AND DORCAS A TRST ETAL         1009 RIDGEWAY PL STE 200 FARMINGTON, NM 87401         1426         898 Commercial           VQCUM DONALD P SR AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         1332         785 Comm Mix           CHANDLER LARRY M         PO BOX 188         BLOOMFIELD, NM 87413         1333         776 Vacant Land           NATCO PETROLEUM INC         PO BOX 188         BLOOMFIELD, NM 87413         1333         776 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1168         566 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1416         637 Residential	D J SIMMONS CO LTD PARTNERSHIP	1009 RIDGEWAY PL STE 200	FARMINGTON, NM 87401	1441	7	Commercial
YQCUM DONALD P SR AND SUE TRUST         PO BOX 188         BLOOMFIELD, NM 87413         132         785 Comm Mix           CHANDLER LARRY M         PO BOX 188         PO BOX 188         BLOOMFIELD, NM 87413         1333         776 Vacant Land           NATCO PETROLEUM INC         PO BOX 445         BLOOMFIELD, NM 87413         1333         776 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1168         566 Vacant Land           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential	CRANE GORDON N AND DORCAS A TRST ETAL	1009 RIDGEWAY PL STE 200	FARMINGTON, NM 87401	1426	868	Commercial
CHANDLER LARRY M         PO BOX 188         BLOOMFIELD, NM 87413         133         776 Vacant Land           NATCO PETROLEUM INC         PO BOX 445         BLOOMFIELD, NM 87413         1168         566 Vacant Land           SCHAFFER FAMILY TRUST         PO BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential	YOCUM DONALD P SR AND SUE TRUST	PO BOX 188	BLOOMFIELD, NM 87413	1332	785	Comm Mix
NATCO PETROLEUM INC         PO BOX 445         BLOOMFIELD, NM 87413         1168         566 Vacant Land           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential	CHANDLER LARRY M	PO BOX 188	BLOOMFIELD, NM 87413	1333	776	Vacant Land
SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential	NATCO PETROLEUM INC	PO BOX 445	BLOOMFIELD, NM 87413	1168	566	Vacant Land
SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential           SCHAFFER FAMILY TRUST         P O BOX 23         AZTEC, NM 87410         1416         637 Residential	SCHAFFER FAMILY TRUST	P O BOX 23	AZTEC, NM 87410	1416	637	Residential
SCHAFFER FAMILY TRUST P O BOX 23 AZTEC, NM 87410 1416 637 Residential	SCHAFFER FAMILY TRUST	P O BOX 23	AZTEC, NM 87410	1416	637	Residential
	SCHAFFER FAMILY TRUST	P O BOX 23	AZTEC, NM 87410	1416	637	Residential

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SCHAFFER FAMILY TRUST	P 0 BOX 23	AZTEC, NM 87410	1410		
SCHAFFER FAMILY TRUST	P O BOX 23	AZTEC, NM 87410	1400	426	Residential
SCHAFFER FAMILY TRUST	P 0 80X 23	AZTEC, NM 87410	1416	637	Residentia)
BLACK HILLS EXPLORATION AND PRODUCTION	350 INDIANA ST STE 400	GOLDEN, CO 80401	1429	189	Commercial
ADAMS DONALD C TRUST ETAL	3807 N SUNSET	FARMINGTON, NM 87401	1370	616	Vacant Land
AJAC ENTERPRISES	8359 CORONA LOOP NE STE	ALBUQUERQUE, NM 871131614	1313	634	Commercial
COURY JOHN J JR AND CANDACE M	6651 US 64	BLOOMFIELD, NM 87413	1431	933	Residential
BASIN DISPOSAL INC	P O BOX 100	AZTEC, NM 874100100	1133	671	Vacant Land
JACQUEZ ORLANDO J ET UX	P O BOX 324	BLOOMFIELD, NM 874130324	916	584	Residential
ROTH LAVERNE L	P O BOX 83	FARMINGTON, NM 87499	1295	186	Vacant Land
MOSS AGUA LLC	P O BOX 343	FLORA VISTA, NM 874150343	1444	509	Vacant Land
MILLIKIN JAMES W ET UX	2120 JOY LYNN	BLOOMFIELD, NM 874136705	846	190	Residential
HAULRITE OF FOUR CORNERS INC	24 CR 2929	AZTEC, NM 87410	1378	938 (	Commercial
MOSS RUSSELL W AND MARTHA E	P O BOX 622	FLORA VISTA, NM 87415	1440	889	Vacant Land
HARTMAN EDWARD M TRUSTEE ET AL	1002 TRAMWAY LN NE	ALBUQUERQUE, NM 871221317	1144	537	Vacant Land
MANTLE MACK DUANE ET AL	1213 CAMINO MONTE	FARMINGTON, NM 87401	1294	203	Commercial
MARTINEZ LEBOY M ET AL	P O BOX 685	BLOOMETELD. NM 87413	1270	178	Vacant Land
HENSON RILEY ET UX	P O BOX 1441	BLOOMFIELD, NM 87413	1284	560	Vacant Land
BASIN DISPOSAL INC	P O BOX 100	AZTEC, NM 874100100	1139	363	Commercial
MC DANIEL GARY C ET UX	P O BOX 2225	BLOOMFIELD, NM 874132225	1160	104	Residential
TWIN STARS LTD	P O BOX 1469	FARMINGTON, NM 87499	1441	42	Commercial
WILLIAMS JORETTA W	2 CR 5499	FARMINGTON, NM 87401	1418	957	Residential
COURY JOHN J ET UX	6651 US 64	BLOOMFIELD, NM 87413	1264	67	Vacant Land
BENNY ALVIN ET AL	P O BOX 1044	BLOOMFIELD, NM 874131044	1297	716	Residential
BASIN DISPOSAL INC	P O BOX 100	AZTEC, NM 87410	1316	815	Vacant Land
LITKE IRVIN L TRUSTEES	P O BOX 518	BLOOMFIELD, NM 874130518	1140	657	Residential
RANEY KENNETH N ET UX	P O BOX 2122	BLOOMFIELD, NM 874132122	1145	163	Res Mix
F&BLLC	PO BOX 187	BLOOMFIELD, NM 87413	1241	198	Commercial
F&BLLC	PO BOX 187	BLOOMFIELD, NM 87413	1241	198	Commercial
F&BLLC	PO BOX 187	BLOOMFIELD, NM 87413	1241	198	Commercial
FOUTZ AND BURSOM CONST CO INC	P O BOX 187	BLOOMFIELD, NM 87413	1318	434	Commercial
BIG BLACK DOG LLC	25528 GENESEE TR RD	GOLDEN, CO 80401	1424	865	Commercial
BIG BLACK DOG LLC	25528 GENESEE TR RD	GOLDEN, CO 80401	1424	398	Vacant Land
BASIN DISPOSAL INC	P O BOX 100	AZTEC, NM 874100100	1154	777	Residential
BASIN DISPOSAL	P O BOX 100	AZTEC, NM 874100100	1154	777	Vacant Land
MARTINEZ LEROY ET AL	P O BOX 685	BLOOMFIELD, NM 874130685	1274	244	Residential
HARRISON DANNY	P O BOX 295	BLOOMFIELD, NM 874130295	1170	859	Residential
RAY JESSE W	P O BOX 2551	BLOOMFIELD, NM 874132551	1211	265	Residential
CARTER MARGARET L	P 0 BOX 681	BLOOMFIELD, NM 874130681	1297	/16	Residential

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COURY JOHN J JR AND CANDACE	P 0 80X 937	AZTEC, NM 07410	1419	000	Commondial
DE HERRERA ROCKY L AND JACQUELINE	922 W MAIN	BLOOMFIELD, NM 87413	1423	743	Vecent Land
COURY JOHN J JR AND CANDACE M	PO BOX 2521	BLOOMFIELD, NM 87413	1320	666	Residential
COURY CANDACE M	6651 US 64	BLOOMFIELD, NM 87413	1306	45	Residential
BDI LAND LLC	506 W ARRINGTON	FARMINGTON, NM 87401	1437	745	Residential
BDI LAND LLC	506 W ARRINGTON	FARMINGTON, NM 87401	1438	412	Residential
PETROLITE CORP	P O BOX 92108	AUSTIN, TX 78709	1148	400	Commercial
DE HERRERA ROCKY L AND JACQUELINE J	922 W MAIN	BLOOMFIELD, NM 874136180	1422	600	Commercial
CARTER MARGARET L	P 0 BOX 681	BLOOMFIELD, NM 874131283	1346	1015	Vacant Land
TURNBAUGH MICHAEL J AND KIM L	9321 N 136 E AVE	OWASSO, OK 74055	1455	840	Vacant Land
MOORE LARRY G AND B CAROL TRUST	502 E SMITH LN	BLOOMFIELD, NM 87413	1460	632	Vacant Land
WILLIAMS JORETTA W	PO BOX 1601	AZTEC, NM 87410	1440	441	Residential
WILLIAMS JORETTA W	PO BOX 1601	AZTEC, NM 87410	1440	441	Residential
COURY JOHN J JR AND CANDACE M	6651 US 64	BLOOMFIELD, NM 87413	1458	78	Vacant Land
PASCETTI INVESTMENTS LLC	34940 HWY 550 NORTH	DURANGO, CO 81301	1379	865	Vacant Land
PASCETTI INVESTMENTS LLC	34940 HWY 550 NORTH	DURANGO, CO 81301	1379	865	Commercial
PASCETTI INVESTMENTS LLC	34940 HWY 550 NORTH	DURANGO, CO 81301	1379	865	Commercial
HENSON RILEY AND PAULINE	P 0 BOX 1441	BLOOMFIELD, NM 87413	1351	561	Vacant Land
DAVIS DONALD L AND JOANN	323 CR 4990	BLOOMFIELD, NM 87413	1355	623	Commercial
YOAKUM ROBERT L	614 SMITH	BLOOMFIELD, NM 87413	1453	64	Commercial
GURULE MACK R	P 0 BOX 1024	BLOOMFIELD, NM 874131024	1452	793	Vacant Land
CHENAULT CONSULTING INC	PO BOX 328	BLOOMFIELD, NM 87413	1430	604	Vacant Land
CHENAULT CONSULTING INC	PO BOX 328	BLOOMFIELD, NM 87413	1430	604	Vacant Land
WINER STEVEN J AND KATHERINA L	P O BOX 2055	DURANGO, CO 813022055	1347	13	Commercial
MESA WELL SERVICING LP	PO BOX 1620	HOBBS, NM 88241	1422	201	Vacant Land
INTERMOUNTAIN CRANE LLC	2730 N NELLIS BLVD	LAS VEGAS, NV 891154507	1344	542	Vacant Land
THORNTON DAVID	P O BOX 1963	BLOOMFIELD, NM 874131963	1317	816	Commercial
THORNTON DAVID	6990 FOOTHILLS DR	FARMINGTON, NM 87402	1448	489	Vacant Land
PHILLIPS JIM R AND LAURA V TRUST	828 CR 4990	BLOOMFIELD, NM 87413	1446	291	Vacant Land
STINSON JOHNNY R AND MACHELLE A	P O BOX 618	AZTEC, NM 87410	1370	379	Commercial.
WILLIAMS JORETTA W	P O BOX 1902	BLOOMFIELD, NM 87413	1353	666	Residential
PASCETTI INVESTMENTS LLC	34940 HWY 550 NORTH	DURANGO, CO 81301	1368	1142	Commercial
PHILLIPS_JIM_R_AND_LAURA_V_TRUST	791-N-NEWBY LN	BLOOMFIELD, NM-874136755	1363	497	Vacant-Land-
CARTER MARGARET L	P O BOX 681	BLOOMFIELD, NM 87413	1361	1031	Vacant Land
PARTNERS IV LLC	712 FORD ST	AZTEC, NM 874102067	1364	720	Commercial
NEW MEXICO STATE HWY COMM	P O BOX 1149	SANTA FE, NM 875041149	427	192	Exempt
GRADY MICHAEL E	1621 E MURRAY	FARMINGTON, NM 87401	1451	815	Commercial
HORTON ALICIA A AND DANIEL K	PO BOX 105	BLOOMFIELD, NM 87413	1343	879	Residential
PHILLIPS JIM R AND LAURA V TRUST	791 NEWBY LN	BLOOMFIELD, NM 87413	£	1335	Vacant Land

PHILLIPS JIM R AND LAURA V TRUST		2. 2. 4. 40100 c. Januar C. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		
TURNBAUGH MICHAEL J AND KIM L	9321 N 136 E AVE	OWASSO, OK 74055	1455	840[Vacant Line ]
CRANE LEE ANNE AND LEE M JR	P 0 BOX 83	BLOOMFIELD, NM 874130083	1355	759 Residential
NATIONAL TANK COMPANY	2950 N LOOP WEST STE 750	HOUSTON, TX 77092	1372	714 Vacant Land
NATIONAL TANK COMPANY	2950 N LOOP WEST STE 750	0 HOUSTON, TX 77092	1372	715 Commercial
RAINBOW TRUST	2602 W 16TH ST	PLAIN VIEW, TX 79072	1455	309 Vacant Land
CARTER MARGARET L	734 CR 4990	BLOOMFIELD, NM 87413	1455	450 Vacant Land
CARTER MARGARET L	734 CR 4990	BLOOMFIELD, NM 87413	1455	450 Vacant Land
SFT LLC	P O BOX 25865	ALBUQUERQUE, NM 87125	1454	413 Vacant Land
SFT LLC	P O BOX 25865	ALBUQUERQUE, NM 87125	1454	413 Commercial
NATIONAL TANK COMPANY	2950 N LOOP WEST STE 750	(HOUSTON, TX 77092	1372	714 Vacant Land
CARTER MICHAEL W	P O BOX 555	BLOOMFIELD, NM 874131283	1297	716 Residential
CARTER MIKE	P O BOX 555	BLOOMFIELD, NM 87413	1361	1033 Vacant Land
COURY JOHN J JR AND CANDACE M	6651 US 64	BLOOMFIELD, NM 87413	1458	78 Residential
ADAMS DONALD C TRUST ET AL	3807 N SUNSET AVE	FARMINGTON, NM 874019239	1370	627 Vacant Land
ADAMS DONALD C TRUST ETAL	3807 N SUNSET AVE	FARMINGTON, NM 874019239	1370	626 Vacant Land
BYARS RAYMOND M ETAL	9321 N 136 E AVE	OWASSO, OK 74055	1453	598 Commercial
BDI LAND LLC	P 0 BOX 1982	FARMINGTON, NM 87499	1452	488 Residential
HOLLAR SAMUEL C ET UX	P O BOX 2016	BLOOMFIELD, NM 874132016	1284	958 Residential

![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

# FACILITY INVENTORY

## A) EXISTING:

Filter House - 1, 2, 3 Unloading Tanks - 1-4, A & B Each - 400 BBL Tanks Oil Junk Tanks - 14, 14.5 - 210 BBL Each Oil Sales Tanks - 6, 7, 8 - 400 BBL Tanks Each Oil Skimmer Tanks - 9, 10, 11 - 400 BBL Tanks Each Fresh Water Tanks - 21, 15, 16 - 400 BBL Tanks Each 15% Bleach Tanks - 1, A, B, C - 3,200 Gallon Each Oil Heater Tanks - 17, 18 - 500 BBL Tanks Each

# B) PROPOSED ADDITIONS UNDER NEW PERMIT:

Oil Heater Tank - 5 - 500 BBL Tank Unloading Tanks - 5, 6, A & B Each - 400 BBL Tanks Each Oil Sales Tanks - 6, 7 - 400 BBL Tanks Each Evaporation Ponds - #1, #2 - Approximately 175' Wide x 300' Long x 7' Deep (3' freeboard) Sludge Holding Tank - 400 BBL Tank

# FACILITY INVENTORY

# A) EXISTING:

Filter House - 1, 2, 3 Unloading Tanks - 1-4, A & B Each - 400 BBL Tanks Oil Junk Tanks - 14, 14.5 - 210 BBL Each Oil Sales Tanks - 6, 7, 8 - 400 BBL Tanks Each Oil Skimmer Tanks - 9, 10, 11 - 400 BBL Tanks Each Fresh Water Tanks - 21, 15, 16 - 400 BBL Tanks Each 15% Bleach Tanks - 1, A, B, C - 3,200 Gallon Each Oil Heater Tanks - 17, 18 - 500 BBL Tanks Each

## B) PROPOSED ADDITIONS UNDER NEW PERMIT:

Oil Heater Tank - 5 - 500 BBL Tank Unloading Tanks - 5, 6, A & B Each - 400 BBL Tanks Each Oil Sales Tanks - 6, 7 - 400 BBL Tanks Each Evaporation Ponds - #1, #2 - Approximately 175' Wide x 300' Long x 7' Deep (3' freeboard) Sludge Holding Tank - 400 BBL Tank

## **OVERVIEW OF FACILITIES**

The Basin Disposal facility was constructed in 1985 and operations began n 1987. Basin Disposal separates oil and sediment from produced water from oil and gas production and exploration. Produced water is processed through gravity separation of solids within tanks aerated within a lined lagoon and then filtered (20 and 5 micron) prior to its injection into a permitted well. The facility is located inside the city limits of Bloomfield, New Mexico. Approximately 10,000-11,000 barrels of produced water is processed daily at the facility.

Produced water is routinely collected by trucking contractors and delivered to Basin Disposal from RWP and RCG facilities located on the Southern Ute Indian Reservation and in New Mexico (RWP only). All waste is tracked by tickets completed by the trucking contractor. Additionally, a waste manifest is completed at Basin Disposal for each load (which is signed by the driver and Basin Disposal attendant). Basin Disposal also maintains a log of deliveries.

Oil and sediment that is retrieved from initial gravity separation is processed through additional gravity separation in two tanks, while being circulated through a heating process. Oil recovered from processed water is stored in seven oil cell tanks and is currently sold to Giant Industries (Western Refining, Inc., and Petro Source). The sludge is stored in two tanks adjacent to a concrete lined and sloped pit. The sludge settles, is drained from the tanks and allowed to separate in a lined pit; any water can be drawn off the top and reprocessed. Sludge is transported to Industrial Ecosystems, Inc., (EIE) in Bloomfield, New Mexico. EIE operates a land farm for bio-remediation of petroleum impacted soils, sediments and sludge. Sludge was formally mixed with clean soils on the western portion of the facility prior to land farming. Sludge mixing operations ceased approximately 1 year ago. Four poly tanks store biocide (bleach "sodium hypochlorite") that is added to the lined pond to prevent algae growth.

Basin Disposal owns and operates the facility which consists of approximately 30 fenced acres of land owned by the operator. The facility is operated and manned 24-hours a day nearly every day of the year. The vender and facility are described as follows: Basin Disposal, Inc., 200 Montana Drive, Bloomfield, New Mexico, 87413.

![](_page_25_Picture_5.jpeg)

# 5. 19.15.36.8C(5)

Plans for the proposed two pond expansions are enclosed.

![](_page_26_Figure_2.jpeg)

![](_page_27_Picture_0.jpeg)

![](_page_27_Picture_1.jpeg)

John Volkerding Basin Disposal, Inc 906 South Main Street Aztec, New Mexico 87410

April 1, 2007

Dear John,

### Subject:: Treatment Regimen for Produced Water Feasibility and Impact Review

Please find following our summary overview of the initial feasibility assessment regarding membrane technology treatment of the produced water at Basin Disposal, Inc. This feasibility assessment discusses the following:

- Anticipated pretreatment requirements
- Water balance impacts of the introduction of membrane treatment
- Budgetary cost estimations for equipment components
- Budgetary cost estimate for pilot study
- Develop estimations of generated waste streams

The characteristics of the produced water place great demands on pretreatment ahead of the membrane treatment process. The flow path would look something like this:

Oily Water Separator  $\rightarrow$  ZeeWeed <sup>TM</sup> MBR  $\rightarrow$  HP Reverse Osmosis

The oily water separator would skim any free hydrocarbons from the influent stream. Membrane Bioreactor (MBR) combines membrane technology with biological treatment. The patented process combines conventional clarification, aeration and filtration into a single step. The result is high quality effluent for feed to the high pressure R.O for TDS reduction.

### **MBR Typical Treatment Results**

COD reduction	>90%	
BOD reduction	> <b>98</b> %	
TSS reduction	<b>&gt;99%</b>	
TKN/Ammonia reduction	>90%	
Phosphorous reduction		>90%

Assuming a produced water inlet flow rate of 12,000 barrels/day or roughly half-million gallons/day, there would be approximately 50% recovery of fresh, low TDS water. The MBR process will account for a small loss (solids in the form of TSS) with the high-pressure R.O. recovery being 50-55%. HP R.O is the same process used for seawater desalinization and is required for your high TDS water.

The permeate water coming off the R.O. would be suitable for use by industrial processes and the reject, or waste water would be roughly twice the TDS of the influent.

GE Betz, Inc.

# GE Infrastruciare Water & Process Technologies

Jack W. Lambert Area Manager GE Betz

C 970-749-8355 T 970-382-9089 F 970-382-3830 John.lambert@ge.com

![](_page_28_Picture_0.jpeg)

Where this technology has been applied previously the installed cost is approximately \$5.00/barrel or \$0.12/gallon including operating personnel. Should Basin decide that they have the resources to operate the plant, the cost would be lower.

Each of these installations is unique, and therefore a MBR pilot study would be required on your plant site. We estimate this would require 6 months to complete, with an operator provided at a cost of roughly \$25,000/month.

The next step, should you decide to move forward would be additional water analysis including grid #91 and oil & grease (done by our Customer Service Lab) and BOD, COD, TKN/Ammonia (done by  $3^{rd}$  party lab). We would coordinate weekly samples over a 4-6 week period.

The overall goal of this study was to establish the potential for membrane system applications as suitable for treatment of the produced water, and to provide budgetary cost estimates for your consideration. I hope that this meets your current needs and look forward to talking with you in the near future.

Sincerely,

Jack Lambert GE Betz

GE Betz, Inc.

Cc: Charles Muir, GE Betz Dewitt Dees, GE Zenon Steve Easterly, GE Betz

![](_page_29_Picture_0.jpeg)

# **1.0 Project Overview**

Beaird Company is pleased to submit a proposal to provide one multi-stage flash (MSF) water concentration plant. Each Beaird Model MSF-190 plant is designed to reduce 5,000 BBL/Day to 498 BBL/Day brine for disposal.

The Model MSF-190 is energy efficient, using only  $3.9 \times 10^6$  Btu/Hr to generate 65,605 lbs/Hr. of distillate water.

Beaird's scope of supply for the complete MSF plant is detailed in the following Section 3.0 of this proposal. Installation supervision, commissioning and start-up services are included can be provided at Beaird standard daily rate.

# 2.0 Process Selection and Description

Beaird model MSF-190 is a Multiple Stage Flash Evaporation plant, a proven standard design of Beaird Co with more then 70 years of successful operation.

Beaird's MSF plant is a clean and reliable design. Un-like evaporators which boil water on a heat transfer surface with potential local over-concentration and precipitation of calcium sulfate' CaSO4, the MSF is designed to heat water in tubes and flash the hot water in the shell, thereby eliminating "super-saturation" in the heat exchanger tubes and elimination of scale forming on the heat transfer tubes.. With the Beaird Co. design, CaSO4 (Calcium Sulfate) scale removal is hardly necessary.

The vapor produced by the flashing in each stage passes through mist eliminators and condenses on the surface of the cooler tubes. The distillate is collected and removed from the process. The condensing vapor helps to heat the water within the tubes. This pre-heated water (within the tubes) eventually becomes the feed to the brine heater where it is heated to its "top temperature". As the heated water passes from stage to stage and flashes, it becomes more concentrated and the temperature drops slightly with each flashing. Control of the concentrate within, the MSF plant is provided by blow-down of a portion of the concentrate from the last stage of the plant.

The heat source for the MSF plant is a gas-fired boiler to provide steam at 150 psig.

![](_page_30_Picture_0.jpeg)

### Scope of Supply: 3.0

Equipment Supply	Beaird	By Others
MSF plant	X	
Brine heater	X	
Chemical Addition System	X	
Exhaust Gas boiler	X	
Brine pump & motor	X	
Distillate pump & motor	X	
Concentrate Blow Down pump & motor	_X	
Relief Valves	X	
Instrumentation / control	X	
Local Control Panel	X	
2-Stage vacuum Ejector	X	<u>.</u>
Skid steelwork and supporting structures	X_	
Commissioning on site (at BeairdCo standard service rate	X	
Training (at BeairdCo Standard Service Rate)	X	
Start-up Services (At BeairdCo Standard Service Rate)	X	
Chemicals for Start-up		X
Electricity for Start-up		X
Installation and Erection		X
Site preparation		X

# 4.0Process Parameters4.1Process Flows for one (1) MSF-190

	#/hr	psig	<sup>0</sup> F	ppm TDS
Feed Water	72,891	60	90	< 20,000
Distillate	65,602	30	113.8	max 25
Brine out	7,289	20	113.8	180,000
Steam	3,266	150	1	

### 4.2 **Power Consumption**

Device	KW
Distillate Pump	5
Brine Pump	6
Condensate Pump	3
Rec Pump	45
Chem Feed	.5
Total:	59.5

![](_page_31_Picture_0.jpeg)

# 5.0 Process Control:

The Beaird Model MSF-190 seawater desalination plant is designed to operate automatically with a minimum of operator intervention. The unit is equipped with alarms and automatic shut-down. Auto shut-down is initiated with either low feed water flow or high brine level. Start-up and change-over from standby to duty position is done locally and manually by the operator.

- 5.1 With either low feed water flow or high brine level, the following will shut down:
  - 5.1.1 Boiler steam inlet valve
  - 5.1.2 Distillate pump
  - 5.1.3 Concentrate pump
  - 5.1.4 Condensate Pump
- 5.2 The following are automatically controlled:
  - 5.2.1 Diverting of distillate
  - 5.2.2 Brine heater level
  - 5.2.3 Condenser distillate level
- 5.3 Failure to start or trip alarms are provided for:
  - 5.3.1 Distillate pump
  - 5.3.2 Brine pump
  - 5.3.3 High conductivity alarm

![](_page_32_Picture_0.jpeg)

0.0	Materials of Construction.	
6.1	Evaporator	
6.1.1	Multi-stage condensers	
	Shell	Carbon Steel
_	Tubes	CuNi 9010
	Tubesheets	CuNi 9010
	Steam and Distillate Boxes	CuNi 9010
6.1.2	Demister	316L SS
6.1.3	Brine Heater	
	Shell	Carbon Steel
	Tubes	CuNi 90 10
	Tubesheet	CuNi 90 10
	Water box	CuNi 90 10
6.1.4	Steam Ejectors	316L SS
6.2	Pumps	
6.2.1	Centrifugal pumps (distillate, brine and condensate)	
	Casing	Stainless Steel
	Impeller	Stainless Steel
	Shaft	316L SS
	Wear parts	316L SS
6.3	Chemical feed system	
	Liquid end body	316 L SS
	Valves, seats, ball, connections	316 SS
	Diaphragm	PTFE
	Chemical storage tank	316L SS
6.4	DIMENSIONS AND WEIGHTS	
6.4.1	L x W x H MSF vessel	42' x 7' x 11.5'
6.4.2	Net weight Each	······································
	Dry (shipping weight)	74,000 lbs
	Wet (flooded)	86,000 lbs

# 6.0 Materials of Construction:

![](_page_33_Picture_0.jpeg)

A Relentless Company

PROPOSAL: Methane Natural Gas Produced Water Concentration Plant

# 9.1 PROCESS FLOW DIAGRAM:

![](_page_33_Figure_4.jpeg)

![](_page_34_Picture_0.jpeg)

A Relentless Company

PROPOSAL: Methane Natural Gas Produced Water Concentration Plant

# 9.2 OUTLINE AND SETTING:

![](_page_34_Figure_4.jpeg)

BeairdCo

A Ralantiess Company

PROPOSAL: Methane Natural Gas Produced Water Concentration Plant

# 9.2 OUTLINE AND SETTING:

![](_page_35_Figure_4.jpeg)


PROPOSAL: Methane Natural Gas Produced Water Concentration Plant

### **10.0 BEAIRD ENGINEERING AND CUSTOMER LIST:**

### **10.1 Engineering Capabilities:**

ANSYS<sup>TM</sup> Finite Element Analysis

Proprietary Design Program for Wind Towers

 $Algor^{TM}$ 

HTRI<sup>TM</sup> heat Exchanger Software

Compress<sup>TM</sup> (Pressure Vessel Design Software)

Solid Works<sup>TM</sup> 3-D Design and rendering software (drawing preparation)

AutoCAD<sup>TM</sup> (drawing preparation)

### 10.2 Certifications:

ISO 9001:2000 in progress

ASME Stamps: H, S, U, U2, R, NQA1

National Board of Boiler Pressure Vessel Inspectors

Chinese Safety Quality License

Germanisher Lloyd Certification for 50-meter and 65 meter tubular steel

wind towers

BeairdCo

A Relentless Company

PROPOSAL: Methane Natural Gas Produced Water Concentration Plant

# 103 Existing Customers:

PROJECT	PURCHASER	COUNTRY	CAPACITY Each	TYPE	MODEL	STAGES	Eco.
			(GFD)				
	Bermuda	•					
Castle Harbour	Properties	Bermuda	30,000	MSF	16A-16	16	3.0
:	Bacardi &						
Nassau	Company	Bahamas	100,000	MSF	24B-16	16	6.0
Grotto Bay		Bermuda	25,000	MSF	16A-8	8	3.0
Franches cals Deef	t tallaları inna	U.S. Virgin	40.000		(2) 16A-	40	
Frenchman's Reef	Holiday Inns Refining	Islands	40,000	MSF	16	16	6.0
Pertimina	Associates	Indonesia	70,000		24A-16	16	6.0
Semarang I	PLN	Indonesia	36,000	TCF	1-TCF-36	1	0.9
Semarang II	PLN	Indonesia	72,000	MSF	24D-6	6	2.8
-	Refining						
Pertimina	Associates	Indonesia	70,000	MSF	24A-16	16	6.0
Muara Karang I	PLN	Indonesia	72,000	MSF	(2) 24D-6	6	3.0
Muara Karang II	PLN	Indonesia	72,000	TCF	1-TCF-72	1	0.9
	Corp of	Saudi					
Ras Al Mish'ab I	(Santa Fe Int.)	Arabia	85,000	MSF	24B-16	16	6.0
Maura Karang III	PLN	Indonesia	72,000	MSF	24D-6	6	3.0
Maura Karang IV	PLN	Indonesia	216,000	MSF	24C-16	16	6.0
	Corps of Engrs.	Saudi					
Ras Al Mish'ab II	(Hyundai)	Arabia	85,000		24B-16	16	6.0
McMurdo Sound	ITT Antarctic	Antarctica	40,000	MSF	(2) 16A- 16	16	6.0
	0	Culture to af			(0) 0 4 4		
Masirah Island	(Dillingham)	Oman	70,000	MSF	(2) 24A- 16	/ 16	6.0
	Freeport		<b>,</b> -				
Main Pass Mine	McMoRan	U.S.A.	84,400	MSF	(2) 24A-3	3	2.2
	Caddell	Ascension					
Ascension Island	Construction	Island UK	60,000	MSF	22A-16	16	6.0
	Black & Veach				(2) 32A-		
Marmara	Int'l	Turkey	145,300	<u>MSF</u>	20	20	8.0

15



PROPOSAL: Methane Natural Gas Produced Water Concentration Plant

### 103 Existing Customers:

PROJECT	PURCHASER	COUNTRY	CAPACITY Each (GPD)	TYPE	MODEL	STAGES	Eco.
Castle Harbour	Bermuda Properties	Bermuda	30,000	MSF	16A-16	16	3.0
Nassau	Bacardi & Company	Bahamas	100,000	MSF	24B-16	16	6.0
Grotto Bay		Bermuda	25,000	MSF	16A-8	8	3.0
Frenchman's Reef	Holiday Inns Refining	U.S. Virgin Islands	40,000	MSF	(2) 16A- 16	16	6.0
Pertimina	Associates	Indonesia	70,000		24A-16	16	6.0
Semarang I	PLN	Indonesia	36,000	TCF	1-TCF-36	1	0.9
Semarang II	PLN	Indonesia	72,000	MSF	24D-6	6	2.8
Pertimina	Refining Associates	Indonesia	70,000	MSF	24A-16	16	6.0
Muara Karang I	PLN	Indonesia	72,000	MSF	(2) 24D-6	6	3.0
Muara Karang II	PLN Corp of	Indonesia	72,000	TCF	1-TCF-72	1	0.9
Ras Al Mish'ab I	Engineers (Santa Fe Int.)	Saudi Arabia	85,000	MSF	24B-16	16	6.0
Maura Karang III	PLN	Indonesia	72,000	MSF	24D-6	6	3.0
Maura Karang IV	PLN	Indonesia	216,000	MSF	24C-16	16	6.0
Ras Al Mish'ab II	Corps of Engrs. (Hyundai)	Saudi Arabia	85,000		24B-16 (2) 18A-	16	6.0
McMurdo Sound	ITT Antarctic	Antarctica	40,000	MSF	16	16	6.0
Masirah Island	Corps of Engrs. (Dillingham)	Sultanate of Oman	70,000	MSF	(2) 24A- 16	16	6.0
Main Pass Mine	Freeport McMoRan	U.S.A.	84,400	MSF	(2) 24A-3	3	2.2
Ascension Island	Caddell Construction	Ascension Island UK	60,000	MSF	22A-16	16	6.0
Marmara	Black & Veach In <u>t'l</u>	Turkey	14 <u>5,</u> 300	MSF	(2) 32A- 20	20	8.0



# GE hifrastructure

Sec. 1

# Water & Process Technologies

### WATER ANALYSIS REPORT

BASIN	DISPOSAL
Aztec,	NM

	POST FILT PROD. WTR Q0808025
Potassium, as K, ppm	571
Aluminum, Total, as Al, ppm	0.1
Manganese, Total, as Mn, ppm	0.47
Nitrate, as NO <sub>3</sub> , ppm	< 1
Phosphate, Total, as PO4, ppm	5.3
Silica, Total, as SiO <sub>2</sub> , ppm	22
Fluoride, as F, ppm	< 0.1
Lead, Total, as Pb, ppm	0.019
Mercury, Total, as Hg, ppb	1.0
Carbon, Total Organic, as C, ppm	549
Turbidity, NTU	4 <sup>.</sup> 7
Hexane Extractable Material, mg/l	48

Sampled:	04-AUG-20	006	
Reported	16-AUG-20	006	
Field Rep:	Lambert,	John	W
_	91000497		

GE imagination at work



# GE Infrastructure Water & Process Technologies

### WATER ANALYSIS REPORT

BASIN DISPOSAL Aztec, NM

	POST FILT PROD. WTR Q0808025
Particle Size Distribution	A
Ammonia, Free And Fixed, as N, ppm	35
рН	6.9
Specific Conductance, at 25°C, μmhos	22400
Alkalinity, "P" as CaCO <sub>3</sub> , ppm	٥
Alkalinity, "M" as CaCO3, ppm	1370
Sulfur, Total, as SO <sub>4</sub> , ppm	978
Chloride, as Cl, ppm	7600
Hardness, Total, as CaCO <sub>3</sub> , ppm	497
Calcium Hardness, Total, as CaCO <sub>3</sub> , ppm	347
Magnesium Hardness, Total, as CaCO <sub>3</sub> , ppm	129
Barium, Total, as Ba, ppm	3.1
Strontium, Total, as Sr, ppm	16.5
Copper, Total, as Cu, ppm	< 0.05
Iron, Total, as Fe, ppm	6.9
Sodium, as Na, ppm	4970

Sampled: Reported:	04-AUG-2006 16-AUG-2006	
Field Rep:	Lambert, John V 91000497	V

GE imagination at work

# 6. 19.15.36.8C(6)

A copy of the Oilfield Waste Acceptance Criteria Policy is enclosed.



#### **Oil Field Waste Acceptance Criteria Policy**

#### 21.1 Introduction

The Basin Disposal Oil Field Waste Acceptance Criteria Policy was developed to ensure compliance with waste acceptance criteria of the State of New Mexico Energy, Minerals, and Natural Resources Department, Oil Conservation Division (EMNRD/OCD) and internal Basin Disposal requirements.

#### 21.2 Scope

The Basin Disposal Oil Field Waste Acceptance Criteria Policy applies to any Basin Employee who has the potential to accept oil field waste.

#### 21.3 Purpose

The Basin Disposal Oil Field Waste Acceptance Criteria Policy enhances awareness and establishes measures to ensure plant operations are in compliance with EMNRD/OCD rules, permit conditions, and company requirements.

#### 21.4 Required Forms

- 1. Authorization to Move Produced Water, C-133
- 2. Certificate of Waste Status, C-138
- 3. Basin Disposal Ticket, SJRP Form 168-6
- 3. Disposal Log Book, SJRP Form 168-7

#### 21.5 Policy

- i. Every truck load of water that arrives at Basin Disposal, shall be inspected by a Basin employee.
- *ii.* Disposal at Basin Disposal shall occur only when an attendant is on duty.
- iii. Inspection shall consist of:
  - a. Gauging the tank to determine if compressor oil, other lubricants, or excessive solids are present.
  - Examining the driver paperwork and/or Basin Disposal records to ensure Basin Disposal is in the possession of a current valid Certificate of Waste Status
  - c. Examining the driver paperwork and/or Basin Disposal records to ensure Basin Disposal is in the possession of a current valid Authorization to Move Produced Water
- iv. Inspection may also consist of conducting an H2S survey using a calibrated H2S detector (see Basin H2S Policy for procedure):
- v. If gauging reveals the presence of oils or excessive solids:
  - a. A sample of the truck contents will be collected and identified with the date, location, company, and hauler.
  - b. The truck will not be allowed to unload its contents at Basin Disposal.
  - c. The Plant Manager and/or Assistant Manager on duty will be informed.
- vi. If examination of the paperwork reveals the absence of a valid or current Certificate of Waste:

- a. The truck will not be allowed to unload its contents at Basin Disposal until a valid current Certificate of Waste is provided.
- b. The Plant Manager and/or Assistant Manager on duty will be informed.
- vii. Waste Status Certificates are required per company for each location at least:
  - a. Produced Water: Monthly
  - b. Flowback/Reserve Pit: Monthly
  - c. Gathering Line Pigging: Monthly
  - d. All other Non-Exempt Wastes: Per Load
- viii. The Basin Ticket contains the following language certified by the driver: 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.
- ix. Upon receipt of oil field waste, Basin employees shall record the following information into the disposal logbook:
  - a. Generator
  - b. Location of origin
  - c. Volume and type of oil field waste
  - d. Date of disposal
  - e. Hauling company
- x. The Basin Disposal Logbook shall be retained for a period of not less than five years after Basin Disposal's closure and subject to EMNRD/OCD inspection.

# 7. 19.15.36.8C(7)

A copy of the Inspection and Maintenance Plan is enclosed.



#### 23 Inspection and Maintenance Policy

#### 23.1 Introduction

The Basin Inspection and Maintenance Policy establishes minimum standards and requirements for conducting scheduled in house inspections and maintenance.

#### 23.2 Scope

The Basin Inspection and Maintenance Policy shall be followed by all Basin employees.

#### 23.3 Purpose

The requirements in the Basin Inspection and Maintenance Policy will aid in ensuring the continued effective operation of the leak detection systems, berms and levees to so as to operate the plant in compliance with applicable statutes and rules and protecting fresh water, public health, safety or the environment.

#### 23.4 Required Forms

Inspection and Maintenance Form

#### 23.5 Policy

#### 23.5.1 Leak Detection System and Sumps

- i. Inspection of leak detection sumps shall be conducted monthly
- ii. If fluid is present, a sample shall be collected and analyzed.
- iii. Results of the analyses of shall be furnished to the EMNRD/OCD
- iv. The following records shall be maintained:
  - a. inspection dates
  - b. the inspector
  - c. leak detection system's status;

#### 23.5.2 Berms and Outside Walls of Pond Levees

- i. Inspection of the berms and the outside walls of pond levees shall be conducted quarterly
- ii. Inspection shall also be conducted after a major rainfall or windstorm
- iii. The berms/levees shall be maintained in such a manner as to prevent erosion.
- iv. The following records shall be maintained:
  - a. inspection dates
  - b. the inspector
  - c. condition and maintenance performed;

# 8. 19.15.36.8C(8)

A copy of the hydrogen sulfide prevention and contingency plan is attached.



#### 16 H<sub>2</sub>S Policy

#### 16.1 Introduction

Basin H<sub>2</sub>S Policy was developed to control potential exposures to H<sub>2</sub>S.

#### 16.2 Scope

The Basin  $H_2S$  policy applies to any Basin Employee who has potential to be exposed to  $H_2S$ .

#### 16.3 Purpose

The Basin  $H_2S$  policy enhances awareness and establishes measures to protect Basin Employees from occupational exposure to  $H_2S$  while still allowing Basin Employees to perform their duties.

#### 16.4 Required Forms

None

#### 16.5 Policy

- *i.* All Basin Employees shall receive H<sub>2</sub>S training and certification during yearly H<sub>2</sub>S training sessions. New employees will be sent to a certified school for training.
- ii. All Basin Employees who could potentially be exposed to H<sub>2</sub>S shall know where the SCBA, rescue apparatus and monitors are located.
- iii. All incoming loads shall be tested for hydrogen sulfide concentrations. Any loads with measurable H<sub>2</sub>S concentrations will be treated in a closed system. The treatment reaction will be driven to completion to eliminate all measurable H<sub>2</sub>S prior to disposal into the pond.
- iv. Daily tests will be conducted and records made of the pH in the pond. If the pH falls below 6-7.0 remedial steps will be taken immediately to raise the pH to 6-7.0. Remedial steps can include the use of caustic agents such as Sodium Hydroxide.
- v. The aeration system will be operated to provide sufficient oxygen to the pond to maintain a residual concentration of 0.5 PPM one foot off the bottom of the pond. Tests will be conducted and records made to determine the dissolved oxygen levels in the pond according to the following procedure.
- vi. Tests will be conducted at the beginning of each day, or at least once per 24 hour period.
- vii. The sample for each test will be taken one foot from the bottom of the pond.
- viii. The location of each test will vary around the pond.
- ix. If any test shows a dissolved residual oxygen level of less than 0.5 PPM, immediate steps will be undertaken to oxygenated the pond and create a residual oxygen level to at least 0.5 PPM. Remedial measures may include adding chemicals or increased aeration.
- x. Four stationary continuous H<sub>2S</sub> monitors will be maintained at each side of the pond. These will be certified on a monthly basis.
- xi. If an H<sub>2</sub>S reading of **10 PPM or greater** is obtained:
  - a. The dissolved oxygen and dissolved sulfide levels of the pond shall be tested immediately and the need for immediate treatment determined.

- b. Tests for  $H_2S$  levels will be made at the fence line, downwind from the pond using the hand held monitor
- xii. If two consecutive hourly H<sub>2</sub>S readings of 10 PPM or greater are obtained:
  - c. Basin Employees will notify the OCD Aztec Office immediately by calling 334-6178
  - d. Basin Employees will will obtain analysis of dissolved sulfides in the pond.
  - If an H<sub>2</sub>S reading of 20.0 PPM or greater at the facility fence is obtained:
  - e. The operator shall immediately notify:

xiii.

- OCD, Aztec Office 334.6178 ext. 15
- General Manager, Home 327-1061
- General Manager, Cell 320-2840
  - Plant Manager, Cell 486-3078
- State Police 911
   Bloomfield Police 911
- County Sheriff 911
- Fire Department 911
- f. Basin Employees and/or Managers will initiate notification of all persons residing within one-half mile of the fence lined and public safety officials with evacuation as requested.
- xiv. At least 1000 gallons of a treatment chemical will be stored on site and will not be retained for a period in excess of the manufacturers shelf life. Expired chemical may be disposed of in the pond.

# 9. 19.15.36.8C(9)

A copy of the closure and post-closure plan is attached.



Constant South

#### 2. Closure and Post Closure Plan

#### 2.1 Purpose/Scope

The purpose of the Closure and Post Closure Section of the Basin Disposal EMS Policy Guidance Document is to define the procedure for identifying the process for closing the facility in a manner that will protect fresh water, public health, safety and the environment pursuant to EMNRD/OCD requirements.

#### 2.2 Key Responsibilities

**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.

#### 2.3 Policy

#### 2.3.1 Financial Assurance Requirements

- i. Upon notification by the EMNRD/OCD, Basin shall submit acceptable financial assurance in the amount of Basin's estimated closure and post closure cost, or \$25,000, whichever is greater.
- ii. Basin shall notify the division of material changes affecting the financial assurance within 30 days of discovery of such change.
- iii. The following forms of financial assurance are shall be used
  - 1) Surety bonds.
  - 2) Letters of credit.
  - 3) Cash accounts.

#### 2.3.2 Closure and Post Closure

- i. Basin shall ensure that:
- 1) liquids in the ponds or pits are removed and disposed of in a EMNRD/OCD approved surface waste management facility;
- 2) liners are disposed of in a EMNRD/OCD approved surface waste management facility;
- 3) equipment associated with the surface waste management facility is removed;
- 4) the site is sampled
  - a. using chapter nine of EPA publication SW-846,
  - b. for paraments listed in Subsections A and B of 20.69.2.3103 NMAC
  - c. in accordance with approved gridded plat of the site containing at least four equal sections
  - d. sample results are submitted to the environmental bureau in the division's Santa Fe office.

# 10. 19.15.36.8C(10)

A copy of the contingency plan is attached.



#### 24 Contingency plan

#### 24.1 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.

#### 24.2 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.

#### 24.3 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.

#### 24.4 Required Forms

None

#### 24.5 Policy

#### 24.5.1 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:

		والمتكافي والمتحد ومكالي ويستكن والمتحد والمتحد والمتحد والمتحد والمتحد والمتحد والمتحد
Equipment	Description	Capabilities

Fire Extinguishers	ABC - This is the multipurpose dry chemical extinguisher. The ABC type is filled with monoammonium phosphate	<ul> <li>combustible materials such as paper, wood, cardboard, and most plastics</li> <li>flammable or combustible liquids such as gasoline, kerosene, grease and oil</li> <li>electrical equipment, such as appliances, wiring, circuit breakers and outlets.</li> </ul>
Oil Booms	<ul> <li>100' &amp; 50' sections</li> <li>Vinyl coated polyester or nylon - ultraviolet resistant</li> <li>Lead weights provide ballast</li> <li>18" width - 6" above water - 12" submerged</li> </ul>	Contains oil & debris
Front End Loader	755C Crawler     Loader	
Bobcat	<ul> <li>553 Skid Steer Loader</li> </ul>	

#### 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	209 South Oliver Drive, Aztec, NM	505-334-1180
Emergency Response		
San Juan Regional	801 West Maple, Farmington, NM	505-325-5011
Medical Center		

#### 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;

#### 24.5.2 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 24.5.2.i.e, the amount of each constituent released will be calculated.
  - h. Appropriate soil remediation will be performed based on the results of the calculation in 24.5.2.i.f. to clean the environment and recover any oil field waste.
  - i. An evacuation plan is not required for this event.

#### 24.5.3 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 24.5.2.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 24.5.2.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 24.5.2.i.h to clean the environment and recover any oil field waste.
- j. An evacuation plan is not required for this event.

#### 24.5.4 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 24.5.2.i.f to clean the environment and recover any oil field waste.

### 11. 19.15.36.8C(11)

A plan to divert water from around the ponds is shown on the pond drawings as discussed under item number 5.



# 12. 19.15.36.8C(12)

Not applicable.



# 13. 19.15.36.8C(13)

Not applicable.



### 14. 19.15.36.8C(14)

Copies of the environmental training procedure, migratory bird protection policy and spill prevention control and counter measure policy are attached.

1



#### 5 Environmental Training Procedure

#### 5.1 Purpose/Scope

The purpose of the Environmental Training Procedure Section of the Basin Disposal EMS Policy Guidance Document is to describe the Basin Disposal process of identifying training requirements, delivering training commensurate with defined responsibilities, and maintaining training records.

#### 5.2 Key Responsibilities

**i. General Manager:** Develops the training matrix that includes required environmental training. Make changes as needed to keep the training current with customer requirements and/or legal requirements. **ii. Plant Manager:** Schedule appropriate training sessions for company personnel. Provide make-up training as needed.

**iii. Employees:** Review list of required training for their positions and ensure training is obtained and recorded.

#### 5.3 Policy

#### i. Identify Required Training:

The General Manager identifies required environmental training using the Basin Disposal Compliance Matrix. The following environmental training is provided to all affected Basin Disposal employees:

- Legally required training, for example, 19.15.36.13 (P);
- Basin Disposal EMS Requirements;
- Elements of Basin Disposal HSE Policy and Procedure Requirements;
- Elements of customer-specific HSE policies and procedures when applicable;
- Employee roles and responsibilities for compliance with legal requirements;
- · Applicable standard operating procedures and controls; and
- · Requirements and procedure for reporting of all noncompliance issues

#### ii. Providing Required Training and Ensuring Competency:

The General Manager, after consultation with Basin Disposal Senior Management, schedules training to be performed on an annual basis at a minimum. Competence of employees is evaluated using tests at the end of the training sessions and on-site performance reviews by General Manager and/or Plant Manager. Records of all training sessions are maintained, including rosters of each training class for a minimum of 5 years.

#### 5.4 Procedure

i. Identify required environmental training using the compliance matrix, industry standards, and selected company personnel.

ii. Develop a training matrix that includes a minimum of:

- Legally required training;
- Basin Disposal EMS Requirements;
- Elements of Basin Disposal HSE Policy and Procedure Requirements;
- · Elements of customer-specific HSE policies and procedures when applicable;
- Employee roles and responsibilities for compliance with legal requirements;
- · Applicable standard operating procedures and controls; and
- · Requirements and procedure for reporting of all noncompliance issues
- iii. Schedule training and provide a annual training calendar for employees.

iv. Ensure competency of employees by evaluating tests taken after specific training is completed, using performance measures, using environmental assessments and audits.

v. Maintain records of training including class rosters.

#### 5.5 Key Documents/Tools/References

- i. Basin Disposal HSE Policy Manual
- ii. Training Records

#### **Migratory Bird Protection Policy**

#### 22.1 Introduction

The Basin Disposal Migratory Bird Protection Policy was developed to ensure continuous protection of migratory birds and to operate the facility in a manner that is not hazardous to migratory birds.

#### 22.2 Scope

The Basin Disposal Migratory Bird Protection Policy applies to all Basin Employees.

#### 22.3 Purpose

The Basin Disposal Migratory Bird Protection Policy enhances awareness and establishes measures to ensure plant operations are continually protective of migratory birds.

#### 22.4 Required Forms

None

#### 22.5 Policy

- i. Basin Disposal is manned by at least two employees 24 hours per day, 7 days per week, 52 week per year.
- *ii.* The shop is situated in a manner with a full view of the pond and Basin Disposal employees shall be aware of any bird near the pond.
- iii. Basin Disposal Assistant Managers and/or Plant Manager shall make hourly inspection rounds of the plant including noting any bird activity near the pond.
- iv. In the unlikely event a bird lands on the pond, Basin Disposal employees shall immediately utilize the boat and side ropes to retrieve the bird.
- v. The bird shall be transported to the shop and either transported to a local veterinary clinic or if only lightly dirtied the oil may removed by Basin personnel using procedures adapted from those of the International Bird Rescue Research Center:
  - a. The bird's entire body is immersed in a one percent solution of Dawn and warm water (warm enough to approximate the bird's internal body temperature. Once wet, the bird is unable to thermo regulate) by one person while a second vigorously agitates the water into the bird's feathers.
  - b. A WaterPik filled with the same solution is used to clean the head.
  - c. A soft toothbrush and cotton swabs are used to loosen dried oil around the head and eye area.
  - d. When the water becomes dirty, the bird is moved to a second pan. The washing process is repeated as often as necessary.
  - e. The bird is considered clean when the tub of water is clear and free of oil.
  - f. The bird is moved to another pan of clean warm water for rinsing.
  - g. A WaterPik filled with the Warm water is used to clean the head.
  - h. When the water becomes soapy, the bird is moved to a second pan. The rinsing process is repeated as often as.
  - i. The bird is considered rinsed when no soap is visible in a fresh pan of

water.

- j. After wash and rinse, the cleaned bird is placed in a protective netbottomed pen. As it rests, the bird will begin to preen its own feathers back into place. The complete realignment of feathers in a tight overlapping pattern creates a waterproof seal.
- k. The bird is fed a nutritious food mixture to assure proper nourishment, plenty of fluids, as well as vitamins and medications, and is allowed free access to food.
- I. The bird is released when it is stable, healthy, and completed preening. The bird shall be taken to a local veterinary clinic for examination prior to release.

#### 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 <u>A Minor\_Release</u>

• 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.

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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 <u>Minor Release</u>, 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.
  - 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

iii.

i. In the event of a <u>Major Release</u>, 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.

15. 19.15.36.8C(15)

A map showing the existing water course features and water wells is shown under item number 2.

F



# 16. 19.15.36.8C(15B & C)

Not applicable.



# 17. 19.15.36.8C(15D)

We are enclosing information of the soil types below this existing facility.



The Basin Disposal property consists of two types of soils within the 30-acre facility. A majority of the property is composed of Gy-Gypsiorthids-Badland-Stumble complex, moderately steep, and Sw-Stumble-Fruitland Association, gently sloping. These soils are as identified in the Soils Survey of San Juan County, New Mexico, Eastern Part, as prepared by the Soil Conservation Service dated 1977.

Principal characteristics of the Gy series include a slow to rapid permeability rate, runoff is slow to medium and the hazard of water erosion is slight to moderate. The Stumble soil is formed in alluvium derived dominantly from sandstone and shale and has a classification of Soils A in the hydrologic group. Typically, the high water table is greater than 6' in depth and bedrock is in excess of 5'. Many of the same characteristics are true of the SW soil including permeability as being rapid, runoff is very slow, and the soil is formed in alluvium derived dominantly from sandstone and shale. The SW soil is also classified as a Soil A in the hydrologic group and again, exhibits basically the same depths for high water and depth to bedrock.

Page 1 of 1
18. 19.15.36.8C(15E, F & G)

Not applicable.



# 19. 19.15.36.8C(16)

A copy of the Application for Waste Management Facility is attached.



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. Operator:	BASIN DISPOSA	L, INC.	· · · · · · · · · · · · · · · · · · ·		
Address:	PO BOX 100, AZ 100 MONTANA A	TEC, NM 87410 (MAILIN AVE., BLOOMFIELD, NM	NG) M (PHYSICAL)		
Contact Person: _	JOHN VOLKERE	DING	Phone:	505-334-3013	
B. Location: <u>SE</u>	/4 <u>/</u>	4 Section <u>3</u>	Township	Rang	ge <u>11W</u>
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Is this a modificat	tion of an existing fac	ility? 🛛 Yes 📋	No		
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20. 19.15.36.8C(17)

A copy of the Storm Water Pollution Prevention Plan for Basin Disposal.



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Appendix B Project Specific Data Sheets Appendix C Notice of Intent CGP Appendix D SWPPP Modifications

# **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 sitespecific 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<sup>1</sup> 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

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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.

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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):

ome Name Title

Basin Disposal Inc. Company

Date <u>8-1-03</u>



