STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONVERSATION DIVISION

APPLICATION OF GANDY MARLEY, INC.
TO MODIFY THEIR EXISTING NMOCD
RULE 711 PERMIT NO. NM-01-019 **CASE NO. 13480**

SECOND NOTICE OF FILING

COMES NOW the Applicant, Gandy Marley Inc. (GMI), by and through undersigned counsel of record, and respectfully provides Notice of Filing the attached documents as a comment to the record. The filing includes the following:

1. Comment from MWH (Pat Corser) with attachments.
2. Engineering drawings for the proposed cell design.

Respectfully Submitted,

Pete V. Domenici, Jr. Esq.
Attorney for Gandy Marley Inc.
6100 Seagull Street NE, Suite 205
Albuquerque, NM 87109
(505) 883-6250

I hereby certify that a true and correct copy of the foregoing was sent via facsimile and U.S. mail to parties of record on the 23rd day of June, 2005.

Pete V. Domenici, Jr., Esq.

2005 JUL 7 PM 12 40

6/24/05

MWH

Pete Domenici
6100 Seagull St. NE
Suite 205
Albuquerque, NM 87109

Re: MWH Comments on OCD Proposed Permit Conditions for Gandy Marley, Inc. Permit No. NM-01-109

Based on your request, we have reviewed the proposed Permit Conditions for Case No. 134480, prepared by Ed Martin of NMOCD dated June 14, 2005. MWH is in general concurrence with the permit conditions presented in this document. However, there are several items of concern presented below and our suggested changes to the permit conditions to address them. In addition to the permit concerns, we have attached the results of a waste sampling study of materials typical of oil field wastes being delivered to the site. We are also requesting a clarification of some of the data that was presented by CRI during the hearing.

1. Landfill Operation:

Item 2: *As the landfill cell fills, the contaminated material will be covered, progressively with a 1 foot thick clay cap, compacted to 1 x 10^{-7} cm/sec permeability, and a minimum of 2 feet of clean soil.*

MWH is concerned with two issues for the cover. Due to the very soft nature of the materials that will be placed in the landfill, it will very difficult to obtain the required compaction of the 1-foot thick clay layer to achieve the 1x10^{-7} cm/sec requirement. Secondly, the clay will be subject to surficial environmental influences even though it is buried 2 feet below the surface. The clay could develop desiccation cracks that could substantially increase the clay layer permeability. Therefore we propose that a 3 foot thick evapotranspiration (ET) cover be installed that is not subject to desiccation cracking.

Item 6: *Any precipitation that accumulates in the landfill cell will be removed within 24 hours.*

The facility is usually closed on the weekends; therefore, we propose that precipitation be removed within 72 hours which accounts for the time after closure on Friday, the weekend, and time on Monday to remove the water.

2. Landfarm Operation:

Item 7: *There may be no ponding, pooling or run-off of water allowed. Any ponding of precipitation will be removed within twenty-four (24) hours of discovery.*

The facility is usually closed on the weekends; therefore, we propose that precipitation be removed within 72 hours which accounts for the time after closure on Friday, the weekend, and time on Monday to remove the water.

Item 16b: *Reports of the analyses shown in item 9 above will be forwarded to the OCD Santa Fe office no later than April 30, July 31, October 31, and January 31 of each year that the facility is in operation, and also maintained on site for OCD review.*

P.O. Box 774018
1425 Pine Grove Road
Steamboat Springs, Colorado
80477

Tel: 970 879 6260
Fax: 970 879 9048

It appears that item 9 referenced should be item 16.a.

3. Tank Bottom Acceptance

Item 3: *Material received at the impoundment must be missed and stabilized immediately.*

It appears the word "missed" should be replaced with the word "mixed".

4. OVERALL FACILITY OPERATION

Item 6: *The landfill cells may not contain any free liquid. Any ponding of precipitation must be removed within 24 hours of discovery.*

The facility is usually closed on the weekends; therefore, we propose that precipitation be removed within 72 hours which accounts for the time after closure on Friday, the weekend, and time on Monday to remove the water.

Item 7: *Landfill cell inspection and maintenance must be conducted at least daily and immediately following each consequential rainstorm or windstorm.*

As stated previously, the facility is normally not open on weekends. Therefore, we propose that the landfill inspection and maintenance be completed during days that the facility is open.

WASTE TESTING

Since the hearing, a composite sample of the drilling mud waste was taken from Cell #21 at the Gandy Marley landfarm. The sample was obtained by CMB Environmental & Geological Services, Inc. (CMB) on June 8, 2005 and submitted to Trace Analysis Laboratory for analytical testing. The results are summarized below:

Chloride – 10,200 ppm
TPH DRO – 512 ppm
TPH GRO – 17.7 ppm
Xylene – 0.0497 ppm

These values are below the concentrations stated in RCRA 40CFR268.48 universal treatment standards which is in agreement with the assumption that drilling mud waste should not be considered a RCRA regulated waste. Additional information regarding the sampling by CMB Environmental and the testing by Trace Analysis Laboratory is presented in ***Attachment A, Waste Sampling and Testing***.

CRI Presentation Materials

As part of CRI's presentation during the hearing, they presented a Table 1.2 (see **Attachment B, Table 1.2**) which listed multiple contaminant's commonly found in oil well treatment and completion fluids and their average concentration as stated by the EPA (EPA, 2000). Pollutant concentrations units shown on Table 1.2 are listed in mg/l; however, the correct units should be μg/l. In addition, flouride and total dissolved solids are presented in Table 1.2 and they should be flourene and total suspended solids respectively.

References

EPA, October 2000, *EPA Office of Compliance Sector Notebook Project, Profile of the Oil and Gas Extraction Industry.*

ATTACHMENT A

CMB

Environmental & Geological Services, Inc.

Clayton M. Barnhill
CMB
Environmental & Geological
P.O. Box 2304
Roswell, NM 88202-2304
Tel (505) 622-2012
Fax (505) 622-2012
E-mail: cmbenviro@dfn.com

Mr. Bill Marley
Gandy Marley, Inc.
PO Box 1658
Roswell, NM 88202-1658

June 20, 2005

Re: Second Quarterly Sampling Event 2005
Composite Grab Sample Cell # 21
Gandy Marley Landfarm
Chaves County, NM
NMOCD Discharge Permit NM-711-1-0020

Dear Mr. Marley:

Attached is a copy of the laboratory analysis report of a composite grab drilling mud sample taken from OCD Cell # 21 at the Gandy Marley Landfarm located in Chaves County, New Mexico. The sample was taken on June 8, 2005 at 09:00 hour by Clayton M. Barnhill, PG, of CMB Environmental & Geological Services, Inc. The purpose of the sample was to gain chemical characterization and analysis of the oil well drilling muds being deposited in OCD Cell # 21 at the Gandy-Marley Landfarm. The drilling muds are generated from oil well drilling activities in Northern Lea and Chaves counties, New Mexico. The sample was a composite grab sample of the oil well drilling mud being deposited in Cell # 21 and taken at several points from these muds in the cell. The drilling mud samples were rolled and blended in a clean 5 gallon bucket, then a grab sample of the composite drilling mud from the bucket was placed in a clean stainless steel bowl, blended again, and then placed in two 4 ounce glass jars with no preservative. Nitrile gloves were worn at all times by Clayton M. Barnhill during the sampling event to prevent any cross contamination. The sample was immediately cooled to 4° Celsius, and shipped to Trace Analysis Laboratory located in Lubbock, Texas for chemical analysis. The chemical analysis included BTEX, TPH DRO, TPH GRO, Hydroxide Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity, Total Alkalinity, Chloride, Specific Conductance, pH, Total Calcium, Total Magnesium, Total Potassium, Total, Sodium, Sulfate, and TCLP Metals.

Lab Analysis concentrations in the drilling mud sample were 10,200 PPM Chloride, TPH DRO 512 PPM, TPH GRO 17.7 PPM, and Xylene 0.0497 PPM. All drilling mud sample chemical concentrations were below RCRA 40 CFR 268.48 universal treatment standards. Oil well drilling mud is an exempt waste.

Analysis results can be viewed in the attached laboratory analysis report.

If you have any questions please do not hesitate to call me at (505) 626-1615. Thank you.

Sincerely,

Clayton M. Barnhill, PG

Summary Report

Gandy Marley Inc.
Box 1658
Roswell, NM 88202

Report Date: June 13, 2005
Work Order: 5060817

Project Location: Gandy Marley Landfarm
Project Name: Quarterly Sampling (NM-711-1-0020)

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
64664	OCD Cell #21	soil	2005-06-07	09:00	2005-06-08
64665	OCD Cell #5	soil	2005-06-07	10:30	2005-06-08
64666	OCD Cell #6	soil	2005-06-07	11:05	2005-06-08
64667	OCD Cell #7	soil	2005-06-07	11:35	2005-06-08
64668	OCD Cell #15	soil	2005-06-07	12:10	2005-06-08
64669	OCD Cell #16	soil	2005-06-07	12:20	2005-06-08
64670	OCD Cell #17	soil	2005-06-07	12:30	2005-06-08
64671	OCD Cell #18	soil	2005-06-07	13:40	2005-06-08

	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
64664 - OCD Cell #21	<0.0100	<0.0100	<0.0100	**0.0497**		**512**	**17.7**
64665 - OCD Cell #5	<0.0100	<0.0100	<0.0100	<0.0100		**84.8**	<1.00
64666 - OCD Cell #6	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
64667 - OCD Cell #7	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
64668 - OCD Cell #15	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
64669 - OCD Cell #16	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
64670 - OCD Cell #17	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
64671 - OCD Cell #18	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00

Sample: 64664 - OCD Cell #21

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		**62.0**	mg/Kg as CaCo3	4.00
Total Alkalinity		**62.0**	mg/Kg as CaCo3	4.00
Chloride		**10200**	mg/Kg	1.00
Specific Conductance		**22300**	μMHOS/cm	0.00
pH		**7.91**	s.u.	0.00
Total Calcium		**138000**	mg/Kg	50.0
Total Magnesium		**5490**	mg/Kg	50.0
Total Potassium		**3100**	mg/Kg	50.0
Total Sodium		**8450**	mg/Kg	50.0
Sulfate		**2600**	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125

continued ...

sample 64664 continued ...

Param	Flag	Result	Units	RL
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		**1.71**	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		**0.135**	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 64665 - OCD Cell #5

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		**64.0**	mg/Kg as CaCo3	4.00
Total Alkalinity		**64.0**	mg/Kg as CaCo3	4.00
Chloride		**10.0**	mg/Kg	1.00
Specific Conductance		**333**	µMHOS/cm	0.00
pH		**8.30**	s.u.	0.00
Total Calcium		**73200**	mg/Kg	50.0
Total Magnesium		**2130**	mg/Kg	50.0
Total Potassium		**1450**	mg/Kg	50.0
Total Sodium		**121**	mg/Kg	50.0
Sulfate		**89.4**	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		**2.30**	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		**0.116**	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 64666 - OCD Cell #6

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		**74.0**	mg/Kg as CaCo3	4.00
Total Alkalinity		**74.0**	mg/Kg as CaCo3	4.00
Chloride		**96.2**	mg/Kg	1.00
Specific Conductance		**1340**	µMHOS/cm	0.00
pH		**8.10**	s.u.	0.00
Total Calcium		**74100**	mg/Kg	50.0
Total Magnesium		**3270**	mg/Kg	50.0
Total Potassium		**2020**	mg/Kg	50.0
Total Sodium		**591**	mg/Kg	50.0
Sulfate		**51.2**	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		2.50	mg/L	0.100

continued ...

sample 64666 continued ...

Param	Flag	Result	Units	RL
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 64667 - OCD Cell #7

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		**20.0**	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		**5710**	mg/Kg as CaCo3	4.00
Total Alkalinity		**5730**	mg/Kg as CaCo3	4.00
Chloride		**9.11**	mg/Kg	1.00
Specific Conductance		**280**	µMHOS/cm	0.00
pH		**8.82**	s.u.	0.00
Total Calcium		**53900**	mg/Kg	50.0
Total Magnesium		**2040**	mg/Kg	50.0
Total Potassium		**1170**	mg/Kg	50.0
Total Sodium		**237**	mg/Kg	50.0
Sulfate		**46.3**	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		**2.56**	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		**0.118**	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 64668 - OCD Cell #15

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		**62.0**	mg/Kg as CaCo3	4.00
Total Alkalinity		**62.0**	mg/Kg as CaCo3	4.00
Chloride		**49.8**	mg/Kg	1.00
Specific Conductance		**549**	µMHOS/cm	0.00
pH		**8.21**	s.u.	0.00
Total Calcium		**29100**	mg/Kg	50.0
Total Magnesium		**3460**	mg/Kg	50.0
Total Potassium		**2320**	mg/Kg	50.0
Total Sodium		**142**	mg/Kg	50.0
Sulfate		**99.0**	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		**1.79**	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		**0.126**	mg/L	0.100

continued ...

sample 64668 continued ...

Param	Flag	Result	Units	RL
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 64669 - OCD Cell #16

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		**98.0**	mg/Kg as CaCo3	4.00
Total Alkalinity		**98.0**	mg/Kg as CaCo3	4.00
Chloride		**1560**	mg/Kg	1.00
Specific Conductance		**4450**	µMHOS/cm	0.00
pH		**8.28**	s.u.	0.00
Total Calcium		**53400**	mg/Kg	50.0
Total Magnesium		**2650**	mg/Kg	50.0
Total Potassium		**1380**	mg/Kg	50.0
Total Sodium		**2280**	mg/Kg	50.0
Sulfate		**596**	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		**2.10**	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		**0.120**	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

Sample: 64670 - OCD Cell #17

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		**44.0**	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		**320**	mg/Kg as CaCo3	4.00
Total Alkalinity		**364**	mg/Kg as CaCo3	4.00
Chloride		**159**	mg/Kg	1.00
Specific Conductance		**1830**	µMHOS/cm	0.00
pH		**9.05**	s.u.	0.00
Total Calcium		**340**	mg/Kg	50.0
Total Magnesium		**1110**	mg/Kg	50.0
Total Potassium		**1190**	mg/Kg	50.0
Total Sodium		**1470**	mg/Kg	50.0
Sulfate		**46.4**	mg/Kg	2.00
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		**1.80**	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		<0.100	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100

continued ...

sample 64670 continued ...

Param	Flag	Result	Units	RL
TCLP Selenium		<0.500	mg/L	0.500

Sample: 64671 - OCD Cell #18

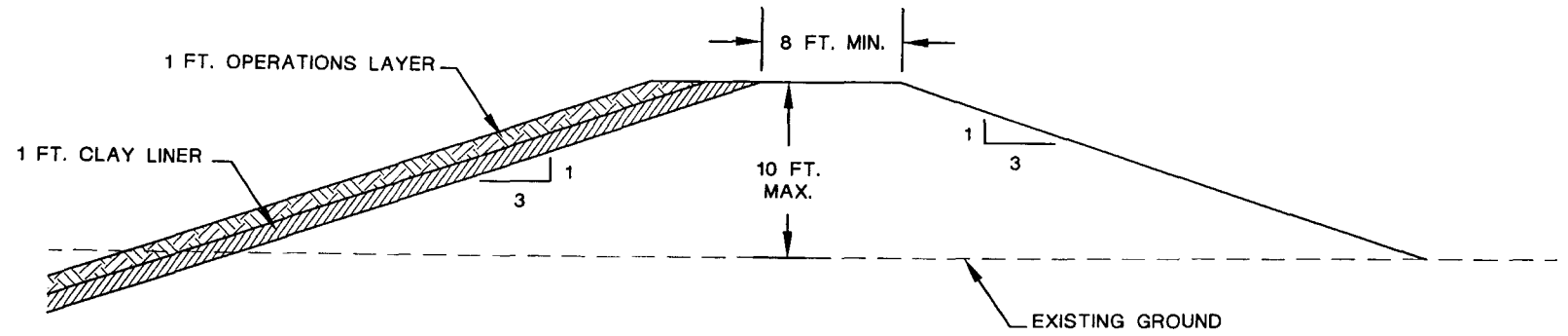
Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/Kg as CaCo3	1.00
Bicarbonate Alkalinity		**42.0**	mg/Kg as CaCo3	4.00
Total Alkalinity		**42.0**	mg/Kg as CaCo3	4.00
Chloride		**122**	mg/Kg	1.00
Specific Conductance		**1240**	μMHOS/cm	0.00
pH		**8.38**	s.u.	0.00
Total Calcium		**83000**	mg/Kg	50.0
Total Magnesium		**3020**	mg/Kg	50.0
Total Potassium		**831**	mg/Kg	50.0
Total Sodium		**370**	mg/Kg	50.0
TCLP Silver		<0.125	mg/L	0.125
TCLP Arsenic		<0.100	mg/L	0.100
TCLP Barium		**1.76**	mg/L	0.100
TCLP Cadmium		<0.0500	mg/L	0.0500
TCLP Chromium		**0.116**	mg/L	0.100
TCLP Mercury		<0.0100	mg/L	0.0100
TCLP Lead		<0.100	mg/L	0.100
TCLP Selenium		<0.500	mg/L	0.500

ATTACHMENT B

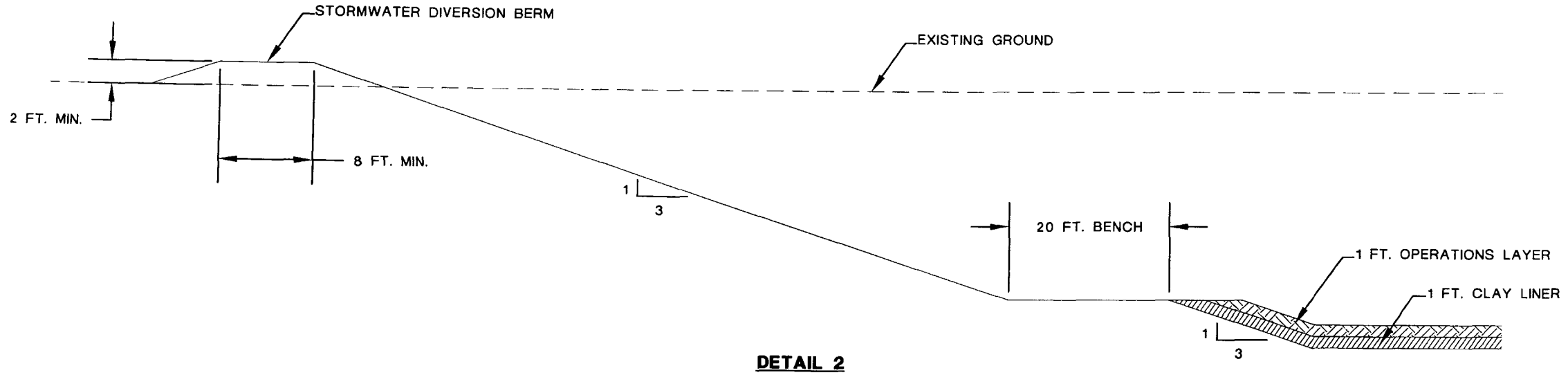
Table 1.2

Contaminants	* WQCC Human Health Standards	** Pollutant Concentrations ~~in Treatment &~~ Completion Fluids
(1) Arsenic (As)	0.1 mg/l	166.0 mg/l
(2) Barium (Ba)	1.0 mg/l	498.1 mg/l
(3) Cadmium (Cd)	.0.01 mg/l	26.1 mg/l
(4) Chromium (Cr)	0.05 mg/l	616.8 mg/l
(5) Cyanide (CN)	0.2 mg/l	52.0 mg/l
(6) Fluoride (F)	1.6 mg/l	62.0 mg/l
(7) Lead (Pb)	0.05 mg/l	1376.0 mg/l
(8) Total Mercury (Hg)	0.002 mg/l	
(9) Nitrate (NO_3 as N)	10.0 mg/l	
(10) Selenium (Se)	0.05 mg/l	42.9 mg/l
(11) Silver (Ag)	0.05 mg/l	1.6 mg/l
(12) Uranium (U)	0.03 mg/l	
(13) Radioactivity: Combined Radium-226 & Radium-228	30 pCi/l	
(14) Benzene	0.01 mg/l	1341.0 mg/l
(15) Polychlorinated biphenyls (PCB's)	0.001 mg/l	
(16) Toluene	0.75 mg/l	891.0 mg/l
(17) Carbon Tetrachloride	0.01 mg/l	
(18) 1,2-dichloroethane (EDC)	0.01 mg/l	
(19) 1,1-dichloroethylene (1,1-DCE)	0.005 mg/l	
(20) 1,1,2,2-tetrachloroethylene (PCE)	0.02 mg/l	
(21) 1,1,2-trichloroethylene (TCE)	0.10 mg/l	
(22) ethylbenzene	0.75 mg/l	1149.0 mg/l
(23) total xylenes	0.62 mg/l	2675.0 mg/l
(24) methylene chloride	0.1 mg/l	29.0 mg/l
(25) chloroform...	0.1 mg/l	
(26) 1,1-dichloroethane	0.025 mg/l	
(27) ethylene dibromide (EDB)	0.0001 mg/l	
(28) 1,1,1-trichloroethane	0.06 mg/l	
(29) 1,1,2-trichloroethane	0.01 mg/l	
(30) 1,1,2,2-tetrachloroethane	0.01 mg/l	
(31) vinyl chloride	0.001 mg/l	
(32) PAHs: total naphthalene plus monomethylnaphthalenes	0.03 mg/l	
(33) benzo-a-pyrene	0.0007 mg/l	
(1) Chloride (Cl)	250.0 mg/l	
(2) Copper (Cu)	1.0 mg/l	277.2 mg/l
(3) Iron (Fe)	1.0 mg/l	384,412.0 mg/l
(4) Manganese (Mn)	0.2 mg/l	5146.0 mg/l
(6) Phenols	0.005 mg/l	263.0 mg/l
(7) Sulfate (SO_4)	600.0 mg/l	
(8) Total Dissolved Solids (TDS)	1000.0 mg/l	520,375.0 mg/l
(9) Zinc (Zn)	10.0 mg/l	362.9 mg/l

Sources: * NMAC 20.6.2.1 – Ground and Surface Water Protection
** EPA – Profile of the Oil and Gas Extraction Industry



DETAIL 1
N.T.S.



DETAIL 2
N.T.S.

NOT FOR CONSTRUCTION

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	For Permitting	06/06	J.Pelicer	D.Gallery	J.Pelicer
0	For Review	05/05	J.Pelicer	D.Gallery	J.Pelicer

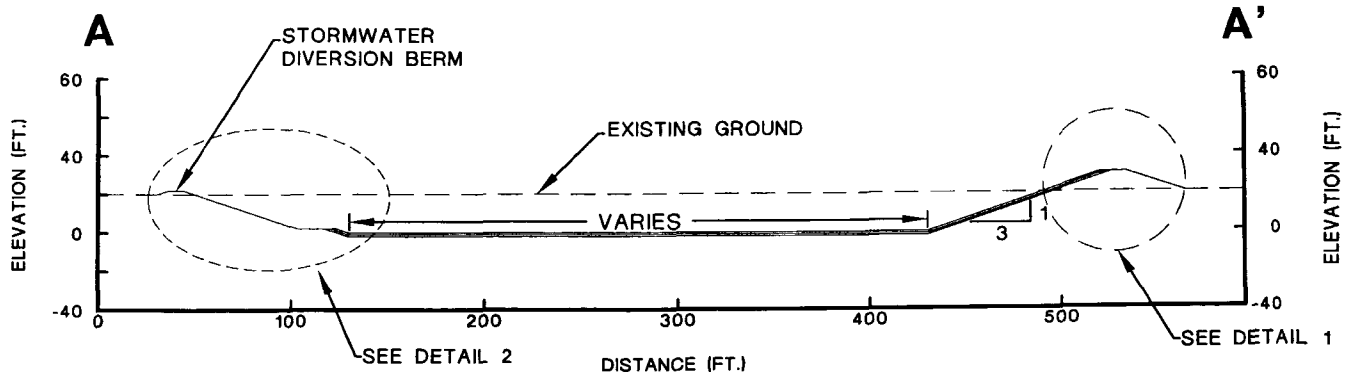
PROJECT:

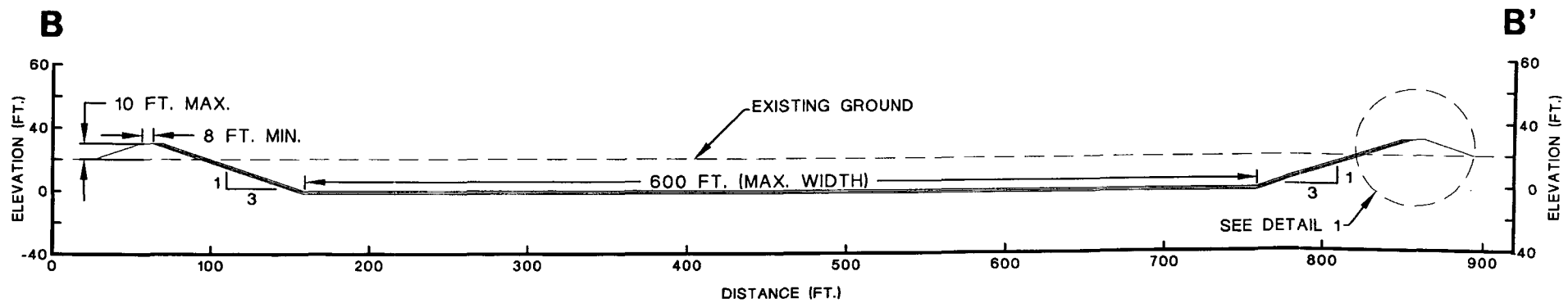
DRAWING TITLE:
TYPICAL CELL DETAILS

MWH

Sheet 1 Of 1 Sheets
SCALE: As Shown
FIGURE No. 3

PROJECT NUMBER:





HORIZONTAL SCALE
0 100' 100'

VERTICAL SCALE
0 100' 100'

NOT FOR CONSTRUCTION

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	For Permitting	06/05	J.Pellicer	D.Gallery	J.Pellicer
0	For Review	05/05	J.Pellicer	D.Gallery	J.Pellicer

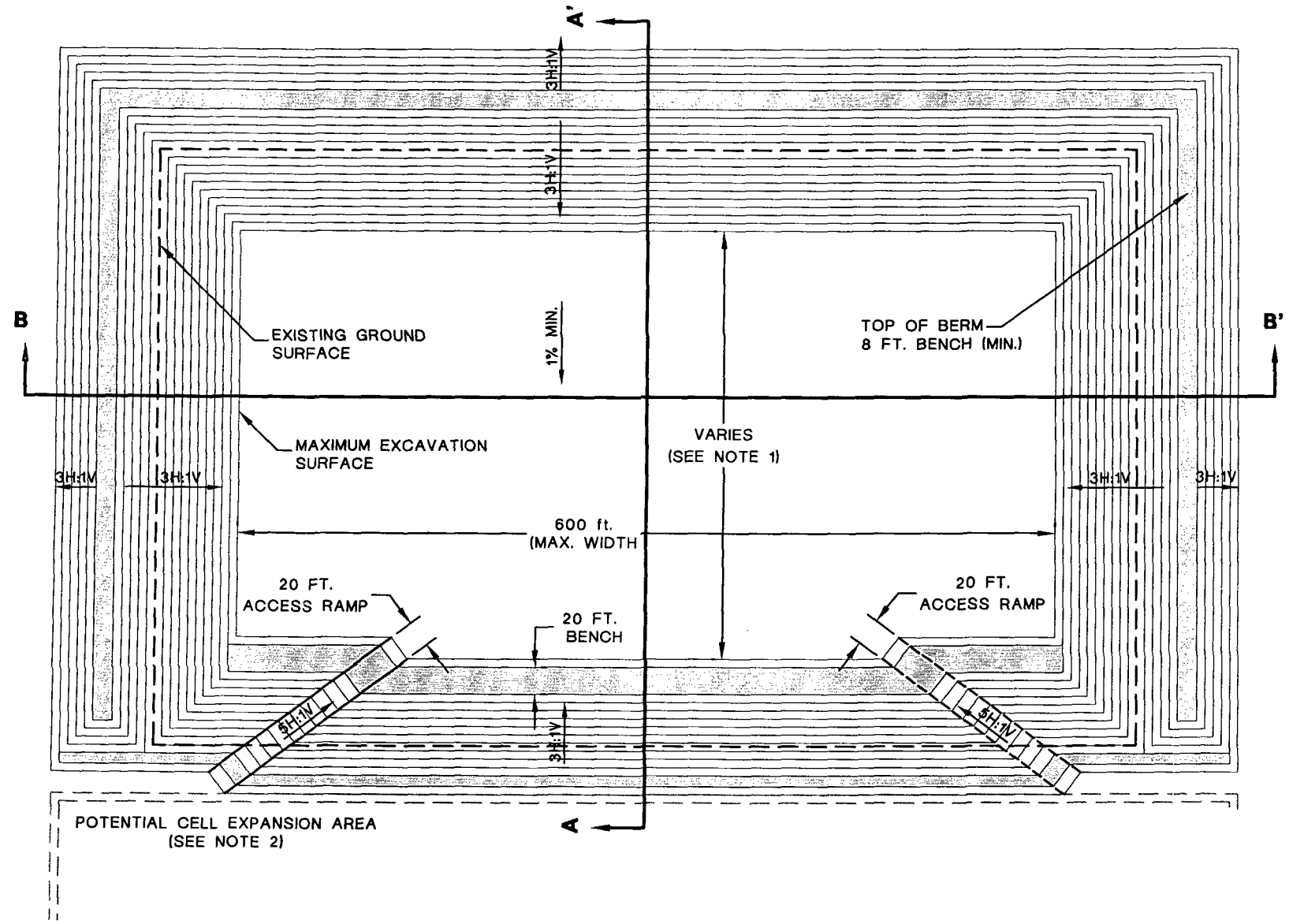
PROJECT:

DRAWING TITLE:
TYPICAL CELL CROSS-SECTIONS

MWH

Sheet 1 Of 1 Sheets
SCALE: As Shown
FIGURE No. 2

PROJECT NUMBER:
Layout



SCALE

50' 0 50' 100'

CONTOUR INTERVAL 2 FT.

NOTES:
1. CELL LENGTH TO BE DETERMINED PRIOR TO CONSTRUCTION.
2. INITIAL CELL WILL BE EXPANDED IN THE FUTURE.

NOT FOR CONSTRUCTION

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	For Permitting	06/05	J.Pelficer	D.Gallery	J.Pelficer
0	For Review	06/05	J.Pelficer	D.Gallery	J.Pelficer

PROJECT:

DRAWING TITLE:

TYPICAL CELL PLAN VIEW

MWH

Sheet 1 Of 1 Sheets

SCALE: As Shown

FIGURE No. 1

AutoCAD FILE: Fig's 1-2-3 Cell Layout PROJECT NUMBER: