# AP - 020

# STAGE 1 & 2 WORKPLANS

DATE:
MAY 2.003

RECEIVED

May 1 5 2003

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

MNA ENTERPRISES, LTD.

W.F. HANAGAN

**ABATEMENT PLAN AP-20** 

**MAY 2003** 

Bill Olson NMOCD Environmental Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: MNA Enterprises, Ltd. Stage 1 Abatement (AP-20) W. F. Hanagan

Mr. Olson:

Contained within is information concerning the work performed as per the Abatement Plan. Also, we are making recommendation for final closure. We hope this will finalize MNA's obligation to this site.

If you have any questions or need additional information, please call.

Sincerely,

Eddie W. Seay, Agent

Eller W Sean

601 W. Illinois

Hobbs, NM 88242

(505)392-2236

cc: MNA

Clay Osborn

### **SUMMARY**

The Hanagan site is located in the SE 1/4 of SW 1/4 of Section 12, Tws. 25 S., Rng. 36 E., Northwest of Jal, NM in Lea County (Osborn Ranch). a topographical map and oil and gas map is attached.

The abatement was due to a leak in a SWD line, which allowed salt water to run into the surface and into the ground. The investigation was to determine the impact to the groundwater and the surface soils, and to make recommendations for clean up.

### **INVESTIGATION**

MNA'a task was to advance to soil borings, one upgradient, and one at the site where groundwater was once encountered by EPI in a field investigation. If groundwater was found at this 20 to 25 ft. depth, a two inch monitor well would be placed for future monitoring.

The first boring, MNA'a #1, was placed approximately twelve feet south southeast of the EPI boring. The hole was advanced to a total depth of 27 ft. Samples were taken every five feet starting at surface. The boring was dry down to TD. A copy of bore log attached.

The hole was plugged with bentonite and cuttings. Sampling was done with a core barrel and deconed between samples. Sampling:

1-1	surface sample	-	chloride
1-2	5 to 7 ft.	-	chloride
1-3	10 to 12 ft.	-	chloride, TPH, BTEX
1-4	15 to 17 ft.	-	chloride
1-5	20 to 22 ft.	-	chloride
1-6	25 to 27 ft.	-	chloride, TPH, BTEX

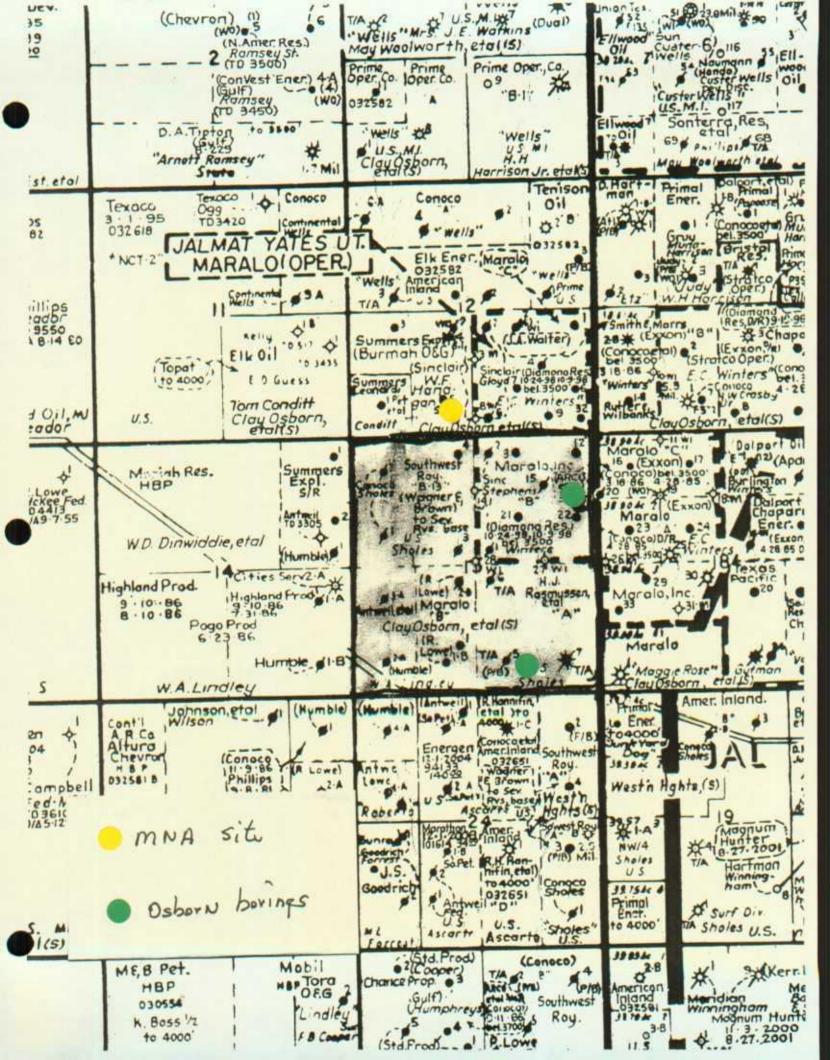
Soil boring MNA #2 was moved from the original upgradient location to 75 ft. SSE of MNA #1. (This was discussed with Mr. Olson with OCD). The placement for this boring was to see if the water had migrated further down gradient in the site. The boring was advanced with a rotary drilling rig, taking samples every five feet with a core barrel. This hole was advanced to 27 ft., but in talking to Mr. Olson, it was decided to drill down deeper. The hole was advanced to 50 ft. redbed clay was encountered at approximately 40 ft. The hole was dry and no ground water is present. Copy of log attached. The hole was plugged using bentonite and cuttings. Sampling:

2-1	surface	-	chloride
2-2	5 to 7 ft.	-	chloride
2-3	10 to 12 ft.	-	chloride, TPH, BTEX
2-4	15 to 17 ft.	-	chloride
2-5	20 to 22 ft.	-	chloride
2-6	25 to 27 ft.	-	chloride, TPH, BTEX
2-7	40 to 42 ft.	-	chloride
TD 5	0 ft.		

### RECOMMENDATIONS

Since no groundwater was found, and the analytical showed no TPH or BTEX, it is my recommendation to remove another two feet of surface soil, replace the area with clean soil from a source Mr. Osborn requires, mound it over and clear location.







PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO: (505) 392-6949

Receiving Date: 04/25/03

Reporting Date: 04/28/03

Reporting Date: 04/28/03

Project Owner: D. ALEXANDER Project Name: MNA-HANAGAN

Project Location: OSBORN RANCH-JAL, NM

% Recovery

Analysis Date: 04/28/03

Sampling Date: 04/24/03

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

CI

103

2.0

LAB NUMBER SAMPLE ID (mg/Kg) H7619-1 MNA 1-1 992 528 H7619-2 MNA 1-2 H7619-3 MNA 1-3 432 432 H7619-4 MNA 1-4 H7619-5 **MNA 1-5** 480 H7619-6 MNA 1-6 208 H7619-7\* MNA 2-1 400 H7619-8 MNA 2-2 896 H7619-9 MNA 2-3 416 H7619-10 MNA 2-4 576 H7619-11 MNA 2-5 400 H7619-12 MNA 2-6 400 H7619-13\* MNA 2-7 200 **Quality Control** 1030 True Value QC 1000

METHOD: Standard Methods	4500-Cl⁻B
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Note: Analyses performed on 1:4 w:v aqueous extracts.

\*Matrix interference (color) observed.

Relative Percent Difference

Date



### PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO: (505) 392-6949

Receiving Date: 04/25/03 Reporting Date: 04/29/03 Project Owner: D. ALEXANDER

Project Name: MNA-HANAGAN

Project Location: OSBORN RANCH-JAL, NM

Sampling Date: 04/24-04/25/03

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

			•				
LAB NUMBE	R SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (> $C_{10}$ - $C_{28}$ ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS D	ATE:	04/28/03	04/28/03	04/28/03	04/28/03	04/28/03	04/28/03
H7619-3	MNA 1-3	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7619-6	MNA 1-6	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7619-9	MNA 2-3	<10.0	<10.0	<0.005	<0.005	< 0.005	<0.015
H7619-12	MNA 2-6	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Contr	rol	797	793	0.103	0.100	0.104	0.297
True Value C	QC	800	800	0.100	0.100	0.100	0.300
% Recovery		99.6	99.1	103	100	104	98.9
Relative Pero	cent Difference	2.5	4.0	0.3	4.8	2.3	2.5

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Burgess & A. Cooke. Ph. D.

Date

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

			1.	01 17 11 1 0 1 V	0.00	
A A	ARDINAL LABORATORIES, INC.	RIES, INC.	IVC. 101 East Marland, Hobbs, NM 88240			
	(915) 673-7001 Fax (915) 673-7020	ł	x (505) 393-2476			1
Company Name:	Eddie Sany	Consittuic	SILL TO		ANAL	ANALYSIS REQUEST
Project Manager:	Eddie wish	-	P.O. #			
اللها :Address	2	!	Company:			
city: Hadons		State: NW Zip: 97242	Attn:			
Phone #: 2 · 21	-34 Fax#	2.6949	Addrags:			
Project #: MNH	O Project Owner:	mer. D. Alaxander	City:			
Project Name:	MNA - Hanagan		State: Zyp	)		
Project Location:	Osborn 1	Jan.M.	Phone #:	5		
Sampler Name:	_		Fax #:	01	)	
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING			
		RS TER				
Lab I.D.	Sample I.D.	CONTAINE CONTAINE CONTAINE COUNDWA VASTEWAT COIL CRUDE OIL CLUDGE	OTHER: CID/BASE: CE/COOL OTHER:	BT E	Chlo	
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-7	MNA a-1	<u> </u>	V 10	/2:55	<	
-8	MNA 2-2	<b>9</b> <	V.	(:/0	2	
PLEASE NOTE: Liability and prairy and prairies. All claims including	PLEASE NOTE: Listing and Damages. Cardina's inhibity and chart's exclusive remedy for any datin arising whether bosed in contract or fort, afrail be limited to the encount paid by the client for the phrobits arising those for negligence and any other care whethereone of the absolute whether the completion of the appropriate production of the phrobits of the phrobi	e remedy for any chaim artising whether besed in contract or tort, at all be finished to the every shall be deemed wraked unless made in writing and received by Cardinsi within ones, including without imitation business internations, loss of use, or loss of profits	tort, ethal be leabed to the encount paid by the clear for the select by Cardinal within 30 days after completion of the select or loss of profits incurred by clear, its subsidiaries	e client for the letion of the applicable aubeictaries.	1 en 30 d	Terms and Conditions: latered with be charged on all accounts more from 30 days past due at the rate of 24% per amount from the original date of invoice, and all costs of collections, including attorney's free;
Mates or successors arising	ance of services hereuly	der by Cardinal, regardless of whether such daskn is besed upon any of the above stated ressorts of otherwise	sesed upon any of the above stated ressons.	9	DA SA C	Phone #:
Sampler Relinquished  Sulan Ma	Time	ZS Received by:	A	Fax Result: Yes	N N	Add'l Fax #:
Relinquished By	Time	Repoived By: (L				
Delivered By: (Circle One)	(Circle One)	Sample Condition Cod Lataci Cod Sample Condition	CHECKED BY: (Initials)			
		1 000				<u></u>

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

ARDINAL LABORATORIES, INC.	ES, INC.				
2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020	603 101 East Mariand, Hobbs, NM 88240 020 (505) 393-2326 Fax (505) 393-2476	Hobbs, NM 88240 ( (505) 393-2476			Pageof
Company Name: Edd in Same C	EN	67.1.170			ANALYSIS REQUEST
die wish		P.O. #:			
		Company:			
	N ZIP: SYZYZ	Attn:			
o# 2 · 2 2 3 Fax#		Addrags:			
Project #: M N Project Owner:	D. Alexander	CHy:		· ———	
Project Name: MNH - Hanagay		State: ZHA		<u>)                                    </u>	
Project Location: OSboy & Ronch -	Jen N. M.	Phone #:		5	
-	•	Fax #:		01	
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Relinquished by:	Received by: (Lab Stam)				
Delivered By: (Circle One)	Sample Conditio	CHECKED BY:			
Sampler - UPS - Bus - Other:	z ~				

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

Company Dri	MNA	12 52 C P	7/ 4					Drilli	ng Log	
GPS.	NIT N SEC. -32° 08' 22" 1 103° 13' 20'	W W	Ī	Well/Bore Nur	< 15 1	<del></del>	4-03 Priller: Had	ه ک <u>ي</u>	Logged By: A. Hoop	ء ا
	ROTAIR	27		Depth of Well		Length of C	asing:	Length of	NA	
Bore Diamet	er: 43/41	Casing Diameter:		Screen Diami	eter:	Slot Size:	NA	Well Mate	erial: NA	
Depth		Uthology		Samp	ole Type	DVA (PPM)	Remarks		Well Design	Depth
0	RED BROWN	1 Top Soil		SURF	مدح لرخم		SAMPLING W	ns		0 _
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Company Drilled for:  M NA  Location: UNIT N SEC. 12, T255, R365			Drilling Log
GPS-32° 08' .22" N 103° 13' 19" W	MNA-SBE2	Date Drilled: Driller: A. Hodg	E A. Hoogs
Method: Depth of Boring: 45  Bore Diameter: Casing Diameter:	Depth of Well:	Length of Casing:	Length of Screen:
4 1/4 NA	Screen Diameter:	NA	NA
Depth Uthology	Sample Type	DVA Remarks	Well Depth
PED BROWN TOP SOIL	SORFACE	SAMPLING WAS S'CENTERS W	17
E white/pink caliche	-5' -5.5,	A SPLITS POOM	J
YELLOW CLAY WITH ADOUT	-10'-5.5.	·	
= 15 50% SAND	-15' - 5.5		15 —
E 20	20'-5.5.		
= 25 V(1) (1) (1) (2)	-25'-S.S.		25
E JEELOW ELLY			
= 30	-30'-5.5,		30
BROWN CLAY	-35' - 5.5.		35
RED SLALL/ RED BED	40'-5.5,	Soic Boring	40 =
15 TD @ 45"	45'-5.5.	BACK WITH	45
50		BENTONITE	
		52	
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65			65
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75			
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85			85
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E_ 100			100 =
105			105

PHOENIX
ENVIRONMENTAL L.L.(.
P.O. Box 1856
2113 French Dr.
Hobbs, NM 88240
Office 505-392-9545
Fax 505-392-9376



## Tailgate Safety Meeting

Date: 4-24-03	Company: MNA	
Wind Direction: SW	Weather Conditions: <u>くしゃ</u> /	A(Z Temperature: 85°
Location: 526, 12-1255-R34	Type of Work Performed: <u>Si</u>	oil Boring / MONITOR WELL
Type Of Work: Routi		/
Number Of Employees:	Phoenix Contrac	etor
Initial Safety Orientation Require	d: <u> </u>	No
List the Personal Protective Equi	ipment For This Job: HARD	HAT, STEEL TOE BOOTS,
HEARING DROTEC.	. SAFARY GLASSES	+ work gloves
	, -	
Possible Hazards: WERLER	ad ROTATING Eq.	TRIP HAZ. HEATA
SNAKES		
Precautions Required To Do Thi	is Job Safely: <u>Bひみ</u> S	ysiem
	Sign Your Name and Com	•
Print Name	Sign Name	Company
Edie Sery	Ellip ly Se	Edd e Sear Cosulty
ALLEN Hoods	Ollin of	PLOENIX EN.
Michael SeAy	Michael See	us Pheonix Env.
Henry Slape	They W Slepe	3 Phoeniy END.
	/	

PHDENIX ENVIRONMENTAL L.L.(. P.O. Box 1856 2113 French Dr. Hobbs, NM 88240 Office 505-392-9545 Fax 505-392-9376



Tailgate Safety Meeting

Date: 4 -25-03	Company: MNA/DS	50RN
Wind Direction:	Weather Conditions: <u>CLEAR</u>	Temperature: 85°
Location: 52c.13 T255 R368	Type of Work Performed: 500	Boring Movitor WELL
Type Of Work: Ro		·
Number Of Employees:	Phoenix Contractor	
Initial Safety Orientation Requi	red: YesNo	
List the Personal Protective Ed	quipment For This Job: HAIZO HAT	Steal to E Boots,
HEARING DROTEC.	quipment For This Job: HAIZO HAT	ek gloves
	, , , , ,	
Possible Hazards: OV & R. h&	AND ROTATIVE EQ., TRIP 1	JAZ, HEAT +
SULKES		
Precautions Required To Do 1	This Job Safely: <u>Bod</u> y Syst	EM
		`
	Sign Your Name and Company:	
Print Name	Sign Name	Company
Eddie Sean	Sel- lid de	Eddie Soar Corputto
ALLEN HOUGE	Olle Sta	Phosnix En.
Millar L SOAY	Mala Som	Phoeniy Env.
Henry Slepe	Zhan W. Skan	Phonering Emp
	7 10 - 700	From y car
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MIA



MNA \*





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MNA #2



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MNA #2



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