GW -

# MONITORING REPORTS

DATE: 19

GW-28 (10ppb) Standard Exceedances-Hath Links.
(10ppb) (1.6 mg/e) (30ppb) (0.1)mg/l)
Bengene Studiele 1-mothylnapth Arsenic 0.18 7/89 4.24 7/89 MW2 5.48 4/87 (Off look) 2.75 7/89 MW 3 2,15 9/87 5+ 4/87 MW 4 51 11/87 (SE prop) 45 8/87 15 B/87 98 8/87 1.94 11/87 1.63 4/87 2.75 17/89 3.08 6/88 mw 5 (on prop bound) 3,48 11/87 2.62 4/87 3.14 1/89 114 7/89 3.1 6/88 4.04 4/87 mw 6 26 7/87 3.00 7/89 ocb 1 5.04 7/89 2.52 6/88 ocb 7

Bengene 00 b-8 70 6/88 Fluoride 2.22 7/89

3 1 1/2 15:5:2 Na Ca. Ma/CL 50a 8 on D Mul Na Ca My / 2: 1.

Re Ca My / 2: 1.

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É A

New Mexico Water Quality Control Commission Ground Water Standards

A. Human Health Standards-Ground water shall meet the standards of Section A and B unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria of Section 1-101.UU. for the combination of contaminants, or the Human Health Standard of Section 3-103.A. for each contaminant shall apply, whichever is more stringent.

Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Cyanide (CN) Fluoride (F) Lead (Pb) Total Mercury (Hg) Nitrate (N03 as N) Selenium (Se) Silver (Ag) Uranium (U) Radioactivity: Combined Radium-226 and Radium-228 Benzene Polychlorinated biphenyls (PCB's) Toluene Carbon Tetrachloride 1,2-dichloroethylene (EDC) 1,1-dichloroethylene (1, 1-DCE) 1,1,2, 2-tetrachloroethylene (PCE) 1,1, 2-trichloroethylene (TCE)	0.1 mg/l 1.0 mg/l 0.01 mg/l 0.05 mg/l 0.2 mg/l 1.6 mg/l 0.05 mg/l 0.002 mg/l 10.0 mg/l 0.05 mg/l 0.05 mg/l 0.05 mg/l 0.01 mg/l
ethylbenzene total xylenes methylene chloride chloroform 1,1-dichloroethane ethylene dibromide (EDB) 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2,2-tetrachloroethane vinyl chloride PAHs: total naphthalene plus monomethylnaphthalenes benzo-a-pyrene	0.75 mg/l 0.62 mg/l 0.1 mg/l 0.1 mg/l 0.025 mg/l 0.0001 mg/l 0.01 mg/l 0.01 mg/l 0.03 mg/l 0.03 mg/l

#### B. Other Standards for Domestic Water Supply

Chloride (Cl)	250. mg/l
Copper (Cu)	1.0 mg/l
Iron (Fe)	1.0 mg/l
Mauganese (Mn)	0.2 mg/l
Phenols	0.005 mg/l
Sulfate (SO,)	600. mg/l
Sulfate (SO,) Total Dissolved Solids (TDS)	1000. mg/1
Zinc (Zn)	10.0 mg/1
рĦ	between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of subsections A, B, and C unless otherwise provided.

Aluminum (Al)	5.0 mg/l
Boron (B)	0.75 mg/1
Cobalt (Co)	0.05 mg/1
Molybdenum (Mo)	1.0 mg/1
Nickel (Ni)	0.2 mg/1

## COMPARISON OF N.M.NQCC GROUND-WATER STANDARDS AND U.S.EPA DRINKING-WATER STANDARDS & HEALTH ADVISORIES, OCTOBER 1988. All units are mg/L unless otherwise specified. All standards listed are based upon health concerns except for the parameters followed by (a) aesthetic standard or (i) irrigation standard.

PARAMETER	N.M.WQCC	U.S.EPA Existing MCL	U.S.EPA MCLG	U.S.EPA Lifetime HA or Risk Level*
Inorganics				
Aluminum (i)	5.0			
Arsenic	0.1	0.05		0.05
Barium Roman (i)	1.0	1.0	1.5	1.5
Boron (i) Cadmium	0.75 0.01	0.01	0.005	0.005
Chloride (a)	250.	250.	0.003	0.003
Chromium	0.05	0.05	0.12	0.12
Cobalt (i)	0.05			
Copper (a)	1.0	1.0	1.3	
Fluoride	1.6	4.0		
Gross Alpha (pCi/L) Gross Beta (pCi/L)		15. 50.		
Iron (a)	1.0	0.3		
Lead	0.05	0.05	0.02	0.02
Manganese (a)	0.2	0.05		
Mercury	0.002	0.002	0.003	0.003
Molybdenum (i)	1.0			0.15
Nickel (i) Nitrate-N	0.2 10.0	10.		0.15 10.0
Nitrite-N	10.0	10.	1.0	1.0
pH (units) (a)	6-9	6.5-8.5		
Radium (226 & 228; pCi/L		5.		
Selenium	0.05	0.01	0.045	
Silver Sulfate (a)	0.05 600.	0.05 250.		
TDS (a)	1000.	500.		
Uranium	5.0	300.		
Zinc (a)	10.0	5.		
_				
Benzenes	0.01	0.005		0 007+
Benzene Toluene	0.01 0.75	0.005	2.0	0.007* 2.0
Ethylbenzene	0.75		0.68	0.68
Xylenes	0.62		0.44	0.44
Styrene			0.14	0.14*
Chlorobenzene			0.06	0.6
o-Dichlorobenzene			0.62	0.62
m-Dichlorobenzene p-Dichlorobenzene		0.075		0.62 0.75
Hexachlorobenzene				0.0002*
Pentachlorophenol			0.22	0.22
Phenols (a)	0.005			

NOTE: 1 ppb = 1 ug/1 = 1 microgram per liter (ppb = part per billion) 1000 ug/1 = 1 mg/1 = 1 ppm (ppm = part per million) Page 1 of 5

PARAMETER	N.M.WQCC	U.S.EPA Existing MCL	U.S.EPA MCLG	U.S.EPA Lifetime HA or Risk Level*
Other Pesticides continu Ammonium Sulfamate Atrazine Baygon Bentazon Bromacil Butylate Carbaryl Carbofuran Carboxin Chloramben	ed		0.036	1.5 0.003 0.003 0.0175 0.08 0.05 0.7 0.036 0.7 0.105
Chlordane Chlorothalonil Cyanazine			Zero	0.00027* 0.015* 0.009
2,4-D Dacthal Dalapon Diazinon Dicamba 1,3-Dichloropropene Dieldrin Dimethrin Dinoseb "Dioxin" Diphenamid Disulfoton Diuron Endothall Endrin Ethylene Thiourea Fenamiphos Fluometuron		0.1	0.07	0.07 3.5 0.56 0.00063 0.009 0.002* 0.0000219 2.1 0.007 0.00000000022 0.2 0.0003 0.014 0.14 0.0002 0.0024* 0.0018 0.09
Fonofos Glyphosate Heptachlor			Zero	0.014 0.7 0.00076*
Heptachlor Epoxide Hexazinone Lindane Maleic Hydrazide MCPA Methomyl		0.004	Zero 0.0002	0.00038* 0.21 0.002 3.5 0.0036 0.175
Methoxychlor Methyl Parathion Metolachlor Metribuzin Oxamyl Paraquat Picloram Prometon Pronamide Propachlor		0.1	0.34	0.175 0.34 0.002 0.01 0.175 0.175 0.003 0.49 0.1 0.052 0.092

PARAMETER	N.M.WQCC	U.S.EPA Existing MCL	U.S.EPA MCLG	U.S.EPA Lifetime HA or Risk Level*
Other Pesticides conti	nued			
Propham				0.12
Propazine				0.014
Simazine				0.035
2,4,5-T				0.021
Tebuthiuron				0.035
Terbacil				0.09
Terbufos				0.00018
Toxaphene		0.005	Zero	0.00031*
2,4,5-TP (Silvex)		0.01	0.052	0.052
Trifluralin				0.002

#### EXPLANATION FOR STANDARDS COMPARISON TABLE

#### **Footnotes**

- \* The concentration listed presents a theoretical additional lifetime cancer risk of one per 100,000 persons. The U.S. EPA Health Advisory documents also provide various concentrations posing risks of one per 10,000 through one per 10,000,000.
- \*\* The four regulated trihalomethanes are chloroform, dichlorobromomethane, dibromochloromethane and bromoform.
- \*\*\* Naphthalene and monomethylnaphthalene isomers.

#### Abbreviations

2,4-D	2,4-dichlorophenoxyacetic acid
DBCP	1,2-dibromo-3-chloropropane
Dioxin	2,3,7,8-tetrachlorodibenzo-p-dioxin
EDB	ethylene dibromide, a synonym for 1,2-dibromoethane
EDC	ethylene dichloride, a synonym for 1,2-dichloroethane
HA	health advisory
MCL	maximum contaminant level
MCLG	maximum contaminant level goal
MEK	methyl ethyl ketone
mg/L	milligrams per liter
N	nitrogen
N.M.WQCC	New Mexico Water Quality Control Commission
0	ortho
р	para
PCE	perchloroethylene, a synonym for tetrachloroethylene
pCi/L	picocuries per liter
PCBs	polychlorinated biphenyls
PDC	propylene dichloride, a synonym for 1,2-dichloropropane
TCE	trichloroethylene
TDS	total dissolved solids
	2,4,5,-trichlorophenoxyacetic acid
2,4,5-TP	2,4,5-trichlorophenoxypropionic acid
U.S. EPA	United States Environmental Protection Agency

#### Use and Applicability of Standards

All N.M.WQCC standards are enforceable, including aesthetic and irrigation standards. The aesthetic standards of U.S.EPA are merely recommended limits.

U.S.EPA's MCLGs are set at levels that would result in no known or anticipated adverse health effects with an adequate margin of safety. MCLGs do not take treatment costs into consideration and are not enforceable. Final MCLs are enforceable. In addition to having set MCLGs for presently unregulated contaminants, the U.S. EPA has proposed to modify several existing MCLs.

U.S. EPA's HAs serve as informal technical guidance to assist Federal, State and local officials responsible for protecting public health when emergency spills or contamination situations occur. They are not to be construed as legally enforceable Federal standards and are subject to change as new information becomes available. HAs are developed for one-day, ten-day, 7-year and lifetime exposures. All HAs listed above are for lifetime exposure unless otherwise indicated. Lifetime HAs are not recommended by U.S. EPA for known or potential carcinogens. Instead, chemical concentrations are correlated with hypothetical excess lifetime cancer risks. See footnote (†) above.

Compiled by Dennis McQuillan N.M. Health & Environment Dept. Environmental Improvement Division Ground Water Bureau Santa Fe, NM 87503

WELL: MW-4							WELL:	OCD-8
Date Sampled	(8-6-86)	(8-12-87)	(11-12-87)	(3-16-88)	(6-1-88)	(6-22-89)	(6-1-88)	(6-22-89)
Benzene	39 ppb	45 ppb	51 ppb	30 ppb	(1)	14 ppb	70 ppb	4.4 ppb
Toluene	140 ppb	280 ppb	25 ppb	220 ppb	7	160 ppb	115 ppb	41 ppb
Ethylbenzene	N.D.	130 ppb	156 ppb	78 ppb	Ħ	65 ppb	Tr.	14 ppb
p-Xylene	N.D.	10 ppb	15 ppb	75 ppb	#	93 ppb*	35 ppb	35 ppb*
m-Xylene	N.D.	40 ppb	12 ppb	53 ppb	,,	N.A.	35 ppb	N.FL
o-Xylenø	N.D.	N.R.	32 ppb	75 ppb	. #	N.R.	25 ppb	N.R.
1-Methylnapthalene	N.R.	98 ppb	N.D.	N.D.	N.R.	N.R.	N.D.	N.R.
Acenaphthylene	N.R.	31 ppb	N.D.	N.D.	N.R.	N.R.	N.D.	N.R.
unknown PAH's	N.R.	9700 ppb(3)	N.R.	N.A.	N.R.	N.A.	(2)	N.R.
TDS	N.R.	4730 ppm	4756 ppm	N.A.	4732 ppm	N.R.	9110 ppm	N.R.
Laboratory	RMAL	SLD	SLD	RMAL	SLD	RMAL	SLD	RMAL

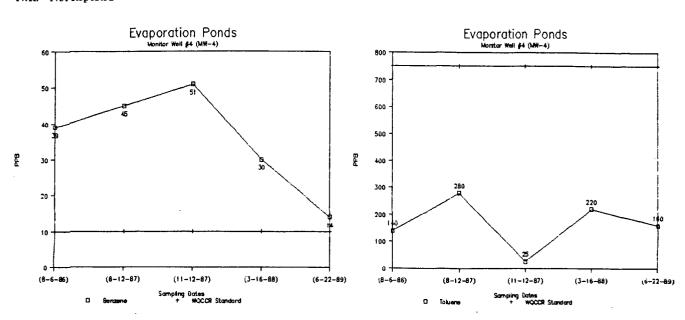
- (1) 15 compounds ranging from the aromatic screen region to the C3 substituted benzene region at less than 25 ppb to 50 ppb detected, but not identified by photoionization.
- (2) 8 late eluting unsaturated compounds at 25-50 ppb, 5 compounds in the aromatic screen region at 25-50 ppb (one at approximately 200-300 ppb) detected by photoionization, but not identified.
- (3) unknown calculated against chlorodane standard, unknown is a complex blend whose chromatigraphic fingerprint is similar to chlorodane, but not a good match. Besides PAH's, approximately 90 compounds are present in concentrations from trace levels to 250 ppb whose origin may have been gasoline.
- \* Xylene reported as total instead of as isomers.

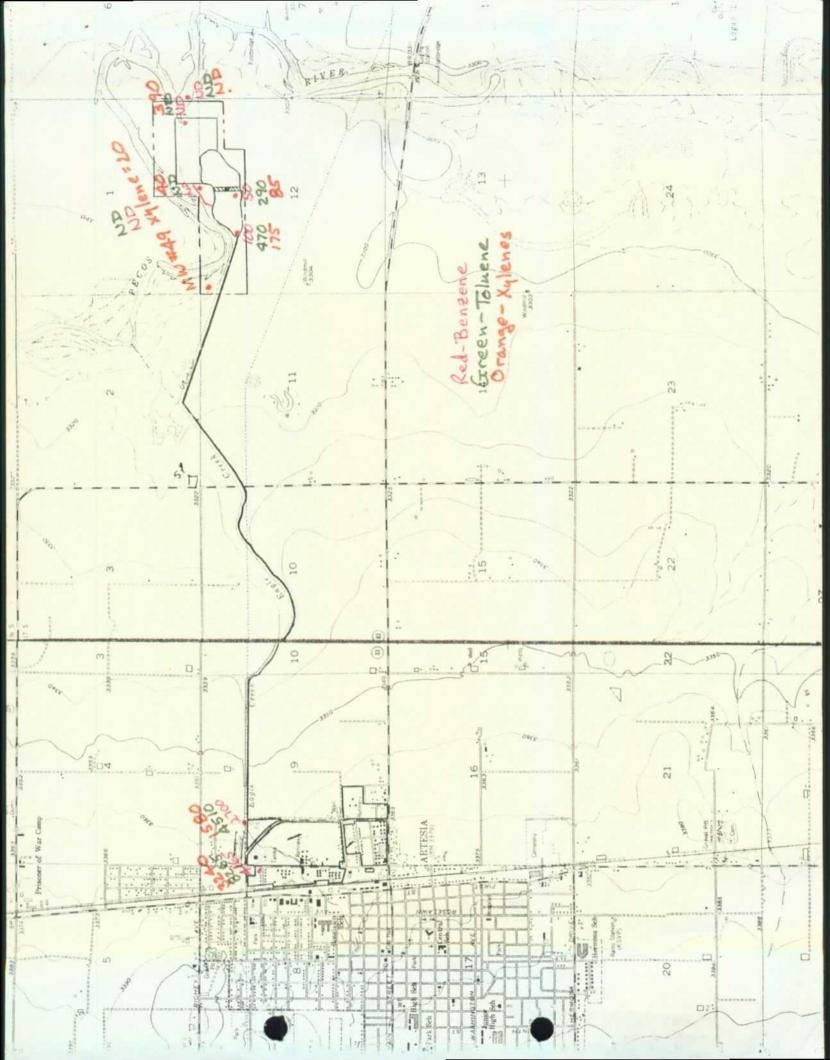
RMAL= Rocky Mountain Analytical Laboratory

SLD= State Laboratory Division

N.D.= Not Detected

N.R.= Not Reported





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Signature(s)_						

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REPORT TO:	David G. Boyer LABOKATORY
	New Mexico Oil Conservation Division LAB NUMBER RG- 328- H-B
	P 0 Por 2088
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ALL CONTAIN	NERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".
	CERTIFICATE OF FIELD PERSONNEL
Sample Type	e: Water 🔽 Soil 🗌 Other
Water Supp	Ty and/or code No. Refinery Ditch at N. Div. Boges Ty bounder
City & Cour	nty Naraio Refineris Artesia
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рН= <b></b> ;	Conductivity= 7000 umho/cm at 28 °C; Chlorine Residual=
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Sampling Lo	ocation, Methods & Remarks (i.e. odors etc.)
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Stre	ne of some liques proclims mores over wear
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with the s	tatements in this block. Signed Thilipot. Boco
Method of	ACCOMPANIES 2 septum vials with teflon-lined discs identified as:
specimen	; duplicate ; triplicate ; blank(s) ; imber glass jug(s) with teflon-lined cap(s) identified as
and ar	<pre>mber glass jug(s) with teflon-lined cap(s) identified as identified as</pre>
Containers	ther container(s) (describe) identified as are marked as follows to indicate preservation (circle):
NP: P-ICE:	No preservation; sample stored at room temperature (~20°C).  Sample stored in an ice bath.
	Sample preserved with 3 mg $Na_2O_3S_2/40$ ml and stored at room temperature.
I (we) cer	CERTIFICATE(S) OF SAMPLE RECEIPT to to
	tify that this sample was transferred from to at (location) on
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Signature(s)		
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Signature(s)		

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Galogenoted foly-substituted arometic compounds

		ANALYTI	
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Seal(s) Intact: Yes\_\_\_ NO\_X . Seal(s) broken by: I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 284 f. May 85. Analyst's signature: 18 Turner

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature:

REPORT TO:	David G. Boyr	LABC TORY
	New Mexico Oil Conservation Division P. O. Box 2088	LAB NUMBEROR G. 333- 17.B 4/12/85 SLD PRIORITY 3
ALL CONTAIN	NERS WHICH THIS FORM ACCOMPANIES ARE COLLECT	sers Code No. 82235 REFERRED TO AS "SAMPLE".
	certificate of field Persone: Water Soil Other	NNEL
1	ly and/or Code No. Pont 1 outlet	to Comment
	inty Narajo Robinsing - A	
	(date & time) 850410/1914 By (na	
	Conductivity= 5900 umho/cm at 19 °C	
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	ocation, Methods & Remarks (i.e. odors etc.) pc from pour 1 outlet pipe lary aromatic olos	and the same
DIA	largaremente okti	
I certify analyses, of the certify with the s	that the statements in this block accurately observations and activities. Signed that I witnessed these field analyses, observations in this block. Signed	reflect the results of my field reactions and activities and concur
Method of !	Shipment to Laboratory	(20)
THIS FORM	ACCOMPANIES septum vials with teflon-ling duplicate triplicate	ned discs identified as:
and ar	amber glass jug(s) with teflon-lined cap(s)	identified as,
and o	other container(s) (describe)	identified as .
NP:	s are marked as follows to indicate preservat No preservation; sample stored at room to	
P-ICE	Sample stored in an ice bath.  Sample preserved with 3 mg Na <sub>2</sub> 0 <sub>3</sub> S <sub>2</sub> /40 ml	
$P-Na_{2}O_{3}S_{2}$ :	Sample preserved with 3 mg Na <sub>2</sub> O <sub>3</sub> S <sub>2</sub> /40 ml	and stored at room temperature.
(	CERTIFICATE(S) OF SAMPLE F	PECEIPT
I (we) cer	tify that this sample was transferred from	to
	at (location)	
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Signature(	(s)	, ,
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PL	EASE	CHECK THE APPROPRIATE  TO WHENEVER POSSIBLE				TE 1		L SCREENS
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san	ple	unless otherwise noted	and that the st	at	emer	its i	in this block and the	analytical data
~ €49 ···	this	page accurately refle	ct, the analytica	1	resu	ılts	for this sample.	•
I c	e(s) erti:	of analysis <b>SAMS</b> fy that I have reviewe	Analys d and concur wit	t' h	s si	ignat angl	lytical results for	his sample and
wit	h th	e statements in this b	lock. Reviewers	" s	igna	ature	: A Margala	uro sambie aud

LABE TORY REPORT TO: David G. Boye LAB NUMBER OR 6- 334-New Mexico Oil Conservation Division 85-0334 E P. O. Box 2088 Santa Fe, NM 87501 SED Users Code No. 82235 CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE". CERTIFICATE OF FIELD PERSONNEL Sample Type: Water ♥ Soil ☐ Other Water Supply and/or Code No. Pork 3. N.E. Corner City & County <u>Navain Referency</u>, Artesia Eddy Cty
Collected (date & time) 8504/0/1135 By (name) Boye, trace pH=<u>7.6</u>; Conductivity=<u>6980</u> umho/cm at 19 °C; Chlorine Residual=\_ Dissolved Oxygen= mg/l; Alkalinity= ; Flow Rate=\_\_\_\_\_; Flow Rate=\_\_\_\_\_; Sampling Location, Methods & Remarks (i.e. odors etc.) Sample opposite = W #7 at NE corner I certify that the statements in this block acqurately reflect the results of my field analyses, observations and activities. Signed

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed Method of Shipment to Laboratory

THIS FORM ACCOMPANIES

septum vials with teflon-lined discs identified as:

specimen

and

amber glass jug(s) with teflon-lined cap(s) identified as

and

other container(s) (describe)

Containers are marked as follows to indicate preservation (circle): NP: No preservation; sample stored at room temperature (~20°C). Sample stored in an ice bath.  $^{2}-Na_{2}O_{3}S_{2}$ : Sample preserved with 3 mg  $Na_{2}O_{3}S_{2}/40$  ml and stored at room temperature. CERTIFICATE(S) OF SAMPLE RECEIPT I (we) certify that this sample was transferred from \_\_\_\_\_ at (location)\_\_\_\_ (date & time) \_\_\_\_ and that the statements in this block are correct. Disposition of Sample\_\_\_\_\_\_. Seal(s) Intact: Yes 🗆 No 🗖 . Signature(s)\_\_\_\_\_ I (we) certify that this sample was transferred from \_\_\_\_\_ at (location)\_\_\_\_\_ on (date & time) \_\_\_\_ and that the statements in this block are correct.

Disposition of Sample\_\_\_\_\_\_. Seal(s) Intact: Yes \( \simega \) No \( \simega \)

Signature(s)

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sam	p1e	unless otherwise noted	and that the st	ate	men	ts i	n this block and the	
		page accurately reflect						
I c	erti.	of analysis <u>: 28 April 5</u> fy that I have reviewed	Analys and concur wit	cs ht	s sı :he	gnat ana1	lytical results for the	is sample and
wit	h th	e statements in this b	lock. Reviewers	si	gna	ture	: K menenden	camp to and

LABP 1TORY REPORT TO: David G. Boy New Mexico Oil Conservation Division B NUMBERORG-33/-85-8331-53 P. O. Box 2088 Santa Fe, NM 87501 SLD Users Code No. 82235 CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE". CERTIFICATE OF FIELD PERSONNEL Sample Type: Water 🔀 Soil 🗌 Other | Water Supply and/or Code No. Pond #4 / New P. City & County Artesia, Edly Cty Collected (date & time) **8504 | D||50|** By (name)\_ pH= 77; Conductivity= 8200 umho/cm at 19 °C; Chlorine Residual= Dissolved Oxygen= mg/l; Alkalinity= Sampling Location, Methods & Remarks (i.e. odors etc.) ; Flow Rate= Sample from New of vero poul I certify that the statements in this block accurately reflect the results of my field I certify that I witnessed these field analyses, roservations and activities and concur with the statements in this block. Signed analyses, observations and activities. Signed Method of Shipment to Laboratory

THIS FORM ACCOMPANIES septum viais with teflon-lined discs identified as: specimen ; duplicate ; triplicate ; blank(s) and amber glass jug(s) with teflon-lined cap(s) identified as and other container(s) (describe) identified as Containers are marked as follows to indicate preservation (circle): No preservation; sample stored at room temperature (~20°C). Sample stored in an ice bath. Sample preserved with 3 mg  $Na_2O_2S_2/40$  ml and stored at room temperature. CERTIFICATE(S) OF SAMPLE RECEIPT I (we) certify that this sample was transferred from \_\_\_\_\_ at (location) (date & time)\_\_\_\_ \_\_\_\_\_ and that the statements in this block are correct. Disposition of Sample\_\_\_\_\_\_. Seal(s) Intact: Yes 🔲 No 🔲 . Signature(s) I (we) certify that this sample was transferred from \_\_\_\_\_ at (location) (date—& time) \_\_\_\_ and that the statements in this block are correct. Disposition of Sample\_\_\_\_\_\_. Seal(s) Intact: Yes \( \Boxed{1} \) No \( \Boxed{1} \) Signature(s)

Date(s)

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		YSES REQUESTED			L	AB. No : ORG-	33/
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REPORT TO:	David G. Boye			LABC TORY		
A CONTACT OF THE PARTY OF THE P	New Mexico Oi	l Conservation	Division	AB NUMBER O	R6-339-A	-B
	P. O. Box 208	8	85- 0329 -C		7/17/2	∷ِح
100000000000000000000000000000000000000	Santa Fe, NM	87501		<i>y</i> —	-D PRIORITY	<u> </u>
ALL CONTAIN	ERS WHICH THIS FO	ORM ACCOMPANIES	S ARE COLLECTI	SLD Users Cod VELY REFERRED		<del></del>
		CERTIFICATE OF	E EIELD DEDCON	INCI »		
Sample Type	e: Water 🔀 S	- 23 CT - OALL -		,		
Water Suppl	y and/or Code No	PecasRi	ver @ M	W#7.1	prais Rabe	ner
icity a coun	The state of the s	MA BARN	$u \cup u$	a. 200 A	A ROV	
Collected (	date & time) 85	04/0/1142	By (nam			
pH= <b>2.3</b> ;	Conductivity=	900 umho/cm	at 2/ °C;	Chlorine Res	idual=	
Dissolved C	xygen= mg,	/1; Alkalinity	=	; Flo	w Rate=	
Sampling Lo	of and	& Remarks (1.e	. odors etc.)		 	00
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(Aller	Fig. 1. Sec. 1	\$ -40	; ;		ye generalis Ma	
I certify t	hat the statemen	ts in this block	ck accurately	reflect the r	esults of my f	ield
ir certity t	bservations and hat I witnessed	these freid and	a i vs <del>es. – I</del> nnserv	ations and ac	tivities and c	oncur
- with the st	catements in this	block. Signe	1 Thilip I	Joaca	- Company	,
Method of S	chipment to Labor	atory Hon	Kerrie	d discs ident	ified ac.	
=sp <b>ec</b> imen	; duplic	ate سطو	; triplicate	; b1	ank(s)	
and an	<pre>iber glass jug(s) ther container(s)</pre>	with teflon-l	ined cap(s) id	lentified as identifie	d ==c	
Containers	are marked as fo	llows to indica	ate preservati	on (circle):		'
NP - ICE>	No preservation Sample stored	n; sample store in an ice bath	ed at room tem	perature (~20	~C):-	
P=Na <sub>2</sub> 0 <sub>3</sub> S <sub>2</sub> :	Sample preserve	ed with 3 mg Na	$a_2 O_3 S_2 / 40  \text{ml}$ a	nd stored at	room temperatu	re.
			; <b>(</b>		A CONTRACTOR OF THE PARTY OF TH	
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(date & tim	e).	<del></del>		s in this blo	ck are correct	<b>—</b>
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PL		CSES REQUESTED CHECK THE APPROPRIATE CD. WHENEVER POSSIBLE				TE 1	.ABvo.: ORG- THE TYPE OF ANALYTICAL SUSPECTED OR REQUIRED.	. SCREENS
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S. C. d	manufactor for	The second secon	100 m	~ ~	A.C.			

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes NO X. Seal(s) broken by:

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 28 May 85. Analyst's signature: Time I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature:

REPORT TO: David G. Boyr 85-0338	LABC TORY
New Mexico Oil Consellation Div	Constitution of the consti
P. O. Box 2088	SID Parage 3
Santa Fe, NM 87501	SLD Users Code No. 82235
ALL CONTAINERS WHICH THIS FORM ACCOMPANIES A	
CERTIFICATE OF F	IELD PERSONNEL A TOPIN
Sample Type: Water Soil Other	TEED FERSONIALE STATE
Water Supply and/or Code No. Mu 199	- Navio Refinery
City & County Alexia Elly Cty	
Collected (date & time) 8504 11 0730	By (name) BOYP, ROCA
pH= -; Conductivity= 8200 umho/cm at	
Dissolved Oxygenmg/l; Alkalinity=	; Flow Rate=
Sampling Location, Methods & Remarks (i.e. or	dors etc.)
Sample from well drilled 4)	
corner of propert between	n#/ \$47 oo carosaa
I certify that the statements in this block	ccurately (ref) ect the results of my field
analyses, observations and activities. Signed Incertify that I witnessed these field analy	che observations and attitudes and consult
with the statements in this block. Signed	This L. Baca
Method of Shipment to Laboratory Hank	carries
THIS FORM ACCOMPANIES septum vials with	teffon-lined discs identified as: riplicate : blank(s)
land amber class jug(s) with teflon-line	d can(s) identified as
and other container(s) (describe)  Containers are marked as follows to indicate	oreservation (circle):
No preservation; sample stored	at room temperature (~20°C):
P-ICE: Sample stored in an ice bath. Sample preserved with 3 mg Na20	S./40 ml and stored at room temperature.
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CERTIFICATE(S) O	F-SAMPLE RECEIPT
I (we) certify that this sample was transfer	
	tion)
(date & time) and that the disposition of Sample	
Disposition of Sample Signature(s)	Seal(s) Intact: Yes 🗖 No 🗆 .
I (we) certify that this sample was transfer	red from to
	ion)on-
(date & time) and that the	statements in this block are correct.
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PL	NALYSES REQUESTED EASE CHECK THE APPROPRIATE QUIRED. WHENEVER POSSIBLE			ATE 7	HB. No.: ORG- THE TYPE OF ANALYTIC SUSPECTED OR REQUIRE	CAL SCREENS
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	ALIPHATIC HYDROCARBO	N SCREEN			ALIPHATIC HYDROCA	ARBONS
	AROMATIC HYDROCARBON	SCREEN				CARBON PESTICIDES
	HALOGENATED HYDROCAR	BON SCREEN			CHLOROPHENOXY ACI	D HERBICIDES
	GAS CHROMATOGRAPH/MA	SS SPECTROMETER	10.00		HYDROCARBON FUEL	SCREEN
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			1			7.7
	COMPOUND	[PPB]	C	OMI	POUND	[PPB]
h		[PPB]	С	OMI	POUND	[PPB]
h	COMPOUND logenated purgentles	nongetected	С	OMI	POUND	[PPB]
þa		[PPB] none detected none detected	C	OMI	POUND	[PPB]
þa		nongetected	С	OMI	POUND	[PPB]
ha		nongetected	С	OMI	POUND	[PPB]
ha		nongetected	С	OMI	POUND	[PPB]
ha		nonejetected none detected none detected none detected none detected 20	С	OMI	POUND	[PPB]
ha		nongetected	С	OMI	POUND	[PPB]
ha		nonejetected none detected none detected none detected none detected 20			CTION LIMIT	[PPB]
ha	logenated purgealles bengens tolnene ethyl-bengene p-xylene m-xylene orxylene	nonejetected none detected none detected none detected none detected 20 none detected				[PPB]
ha	logensted purgeates bengens tolnene ethyl-fengene p-Xylene m-Xylene O-Xylene REMARKS: Dive aron	nonejetected nonedetected nonedetected nonedetected nonedetected none detected none detected				[PPB]  [ugm/e also detected
ha	logenated purgealles bengens tolnene ethyl-bengene p-xylene m-xylene orxylene	nonejetected nonedetected nonedetected nonedetected nonedetected none detected none detected				[PPB]
ha	logensted purgeates bengens tolnene ethyl-fengene p-Xylene m-Xylene O-Xylene REMARKS: Dive aron	nonejetected nonedetected nonedetected nonedetected nonedetected none detected none detected				[PPB]  [rugm/e also detected
ha	logensted purgeates kennens tolnene ethyl-bengene p-Xylene m-Xylene 0-Xylene REMARKS: Dive aron	nonejetected nonedetected nonedetected nonedetected nonedetected 20 none detected natic type tified.	*1	DETE	ECTION LIMIT	[PPB]
F	logented purgentes bengens tolnene ethyl-bengene p-xylene m-xylene Oxylene REMARKS: Dive aron rat were not iden  1(s) Intact: Yes NOX	noneletected noneletected noneletected noneletected noneletected 20 noneletected and telected and telected seatified.  ERTIFICATE OF ANA Sea1(s) broken	LYTIC by:	DETE	ECTION LIMIT	fugm/s also deterted
F Sea I c	logenated purgeates  kensens  tolnene ethyl-fensene p-Xylene m-Xylene O-Xylene  REMARKS: Dive aron  at were not iden  1(s) Intact: Yes_NOX ertify that I followed sta	nonejetected nonedetected noned	LYTIC by:	DETE	ECTION LIMIT Counds were PERSONNEL as on handling and a	date: nalysis of this
Sea I c sam	logenated purgeates  kensens  tolnene ethyl-fensene p-Xylene  M-Xylene  REMARKS: Dive aron  fat were not iden  1(s) Intact: Yes_NOX ertify that I followed sta ple unless otherwise noted	noneletected  RETIFICATE OF ANA Seal(s) broken ndard laboratory and that the sta	LYTIC by: procestemen	DETE	ECTION LIMIT  Sounds wese  PERSONNEL  es on handling and a	date: nalysis of this
Sea I c sam on	logented purgeates  kensens  tolnene ethyl-fensene p-kylene m-kylene Orkylene  REMARKS: Dive aron  at were not iden  l(s) Intact: Yes_ NO X ertify that I followed sta ple unless otherwise noted this page accurately refle	noneletected noneletected noneletected noneletected noneletected noneletected 20 none letected  Activities  ERTIFICATE OF ANA Seal(s) broken and laboratory and that the sta ct the analytical	LYTIC by: procedures result	DETE  MAL II  Edure  its i	ECTION LIMIT  Sounds were  PERSONNEL  es on handling and a  n this block and th  for this sample.	date: nalysis of this
Sea I c sam on Date I c	logenated purgeates  kensens  tolnene ethyl-fensene p-Xylene  M-Xylene  REMARKS: Dive aron  fat were not iden  1(s) Intact: Yes_NOX ertify that I followed sta ple unless otherwise noted	noneletected nonel	LYTIC by: procedures it the	DETE  Market in the state of th	ECTION LIMIT  Counds were  PERSONNEL  es on handling and a  n this block and th  for this sample.  cure:	date: nalysis of this e analytical data

GW-28

River Sampling

# River Sampling

CAMPOS



#### STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

#### **ANALYSIS REQUEST FORM**

	07261503	
Collection Date Collection Ti	me Collected by —Person/Agency	
7 26 81 1503	BoyER, E	Englert 1000
SITE INFORMATION		
Sample location	NAVAJO KE	FINERY: RIVER POOL
Collection Site Description		
- blest bent	ponded orga	on west bank of Pecos
		Township, Range, Section, Tract:
		1715+26E+01+4141
END ENVIRONMEN		
NAL NM OIL CONS	ERVATION DIVISION	SAMPLE FIELD TREATMENT — Check proper boxes
Santa Fe, NM 8	87504-2088	No. of samples submitted: 2012/5
Jana i Jimi		~V/2/1
		NF: Whole sample (Non-filtered)
SAMPLING CONDITIONS	S Waterlevel	NF: Whole sample (Non-filtered) F: Filtered in field with 0.45 µ membrane filter
SAMPLING CONDITIONS  Bailed Pump		NF: Whole sample (Non-filtered)
SAMPLING CONDITIONS	S Waterlevel	NF: Whole sample (Non-filtered)  F: Filtered in field with 0.45 Mmembrane filter  PF: Pre-filtered w/45 Mmembrane filter
SAMPLING CONDITIONS  Bailed Pump	S Water level  Discharge  Sample type  GRAB	NF: Whole sample (Non-filtered)  F: Filtered in field with 0.45 µmembrane filter  PF: Pre-filtered w/45 µmembrane filter  NA: No acid added  A: 5ml conc. HNO <sub>3</sub> added
SAMPLING CONDITIONS  Bailed Pump Dipped Tap  pH(00400)	Discharge  Sample type  Conductivity (Uncorrected)	NF: Whole sample (Non-filtered)  F: Filtered in field with 0.45 Amembrane filter  PF: Pre-filtered w/45 Amembrane filter  NA: No acid added  A: 5ml conc. HNO <sub>3</sub> added  A: HCL  A: 4ml fuming HNO <sub>3</sub> added
SAMPLING CONDITIONS  Bailed Pump Dipped Tap	S Water level  Discharge  Sample type  Conductivity (Uncorrected)  Conductivity at 25° C	NF: Whole sample (Non-filtered) Fitered in field with 0.45 µmembrane filter PF: Pre-filtered w/45 µmembrane filter  NA: No acid added A: HCL A: 5ml conc. HNO <sub>3</sub> added A: HCL A: 4ml fuming HNO <sub>3</sub> added  FIELD COMMENTS:
SAMPLING CONDITIONS  Bailed Pump Dipped Tap  PH(00400)	S Water level  Discharge  Sample type  Conductivity (Uncorrected)  Conductivity at 25° C	NF: Whole sample (Non-filtered) F: Filtered in field with 0.45 // membrane filter PF: Pre-filtered w/45 // membrane filter  NA: No acid added A: HCL A: 5ml conc. HNO <sub>3</sub> added A: HCL A: 4ml fuming HNO <sub>3</sub> added  FIELD COMMENTS:
SAMPLING CONDITIONS  Bailed Pump Dipped Tap  PH(00400)	S Water level  Discharge  Sample type  Conductivity (Uncorrected)  Conductivity at 25° C	NF: Whole sample (Non-filtered) Fitered in field with 0.45 Amembrane filter PF: Pre-filtered w/45 Amembrane filter  NA: No acid added A: HCL A: 5ml conc. HNO <sub>3</sub> added A: HCL A: 4ml fuming HNO <sub>3</sub> added  FIELD COMMENTS:
SAMPLING CONDITIONS  Bailed Pump Dipped Tap  PH(00400)  Water Temp. (00010)	S Water level  Discharge  Sample type Conductivity (Uncorrected)  Conductivity at 25° C	NF: Whole sample (Non-filtered)  F: Filtered in field with 0.45 µmembrane filter  PF: Pre-filtered w/45 µmembrane filter  NA: No acid added  A: 5ml conc. HNO <sub>3</sub> added  A: HCL  A: 4ml fuming HNO <sub>3</sub> added  FIELD COMMENTS:

<u>ITEM</u>	<u>DESC</u>	<u>METHOD</u>	ITEM	DESC	METHOD	ITEM	DESC	METHOD
RT 001	VOA	8020	□013	PHENOL	604	□ 026	Cd	7130
002	VOA	602	<b>□</b> 014	VOC	8240	☐ 027	Pb	7421
<b>003</b>	VOH	8010	□ □015	VOC	624	<b>□</b> 028	Hg(L)	7470
<b>004</b>	VOH	601	<b>□</b> 016	SVOC	8250	☐ 031	Se	7740
☐ 005	SUITE	8010-8020	<b>□</b> 017	SVOC	625	<b>032</b>	ICAP	<b>601</b> 0
□ 006	SUITE	601-602	□018	VOC	8260	<b>□</b> 033	CATIONS/ANIONS	
007	HEADSPACE		<b>□</b> 019	SVOC .	8270	□ 034	N SUITE	
□ 008	PAH	8100	□ 020	O&G	9070	□ 035	NITRATE	
<b>009</b>	PAH	610	□022	AS	7060	□ 036	NITRITE	
010	PCB	8080	<b>□</b> 023	Ba .	7080	<b>口</b> 037	AMMONIA	•
011	PCB	608	□ 024	Cr	7190	□ 038	TKN	
012	PHENOL	8040	<b>□</b> 025	Cr6	7198		OTHER	



Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

08/17/89

RECTIVED

Environmental Bureau NM Oil D. PO Box 2088 Santa Fe, NM 87504 AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Sample Identification: River Pool Navajo Ref. Flow or other on site data: 4 Vials Organic scum, HC Odor Collected by: Boyer, Englert

Date & Time Taken: 07/26/89 1503

Additional Sample Information:

175-26E-01-444 Dipped 8200 NF 8020:A 8010:NA Ponded area on west bank of Pecos

Lab Sample Number: 149765 Received: 07/29/89

PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
1,1,1-Trichlorosthams, ug/l EPA Method 8010	(5		98/94/89 <b>9</b> 256	BP
1,1,2,2-Tetrachlorosthame, ug/l EPA Method 8010	(5		08/04/89 0256	ВР
1,1,2-Trichlorosthame, ug/l EPA Method 8010	(5		08/04/89 0256	Bb
1,1~Dichloroethane, ug/l EPA Method 8010	(5		<b>08/04/89 0256</b>	ВР
1,1~Dichloroethene, ug/l EPA Method 8010	(1		98/94/89 9256	BÞ
1,2~Dichloroethane, ug/l EPA Method 8010	(5		<b>98/94/89 925</b> 6	ВР
1,2-Dichloropropane, ug/l EPA Method 8010	(5		98/94/89 9256	ВР
2-Chloroethylvinyl ether, ug/l EPA Method 8010	(19		08/04/89 0256	Bb
Benzene, ug/l EPA Method 8020	(5		08/04/89 0256	Bb
Bromodichloromethane, ug/l EPA Method 8010	(5		98/94/89 9256	ВЪ



## 2600 DUDLEY ROAD - KILGORE, THE 5 5662 Trad 984 0551

Analytical Chemistry o Waste Treatment & Disposal

AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Lab Sample Number:

149765 Continued

Page 2

	PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
	Bromoform, ug/l EPA Method 8910	<b>(5</b>		08/04/89 0256	Bb
	Bromomethane, ug/l EPA Method 8010	(10)		98/94/89 9256	Bb
	Carbon Tetrachloride, ug/l EPA Method 8010	(5		<b>08/04/89 0256</b>	Bb
	Chlorobenzene, ug/l EPA Method 8010	(5		08/04/89 0256	BÞ
	Chlorosthame, ug/l EPA Method 8010	(10)		<b>08/04/89 0256</b>	Bb
)	Chloroform, ug/l EPA Method 8910	(5		08/04/89 0256	Bb
	Chloromethane, ug/l EPA Method 8010	(19		<b>08/04/89 0256</b>	Bb
	Cis-1,3-Dichloropropene, ug/l EPA Method 8010	(5		08/04/89 0256	Bb
	Dibromochloromethane, ug/l EPA Method 8910	(5		08/04/89 0256	BÞ
	Ethyl benzene, ug/l EPA Method 8020	(5		08/04/89 0256	BÞ
	Freon, ug/l EPA Method 8910	(5		98/94/89 <b>9</b> 256	₿Þ
	Methylene Chloride, ug/l EPA Method 8019	(5		<b>08/04/89 0256</b>	Bb
	Tetrachloroethene, ug/l EPA Method 8010	(5		98/94/89 <b>9</b> 256	8 <b>b</b>
•	Toluenz, ug/l EPA Method 8020	<b>(</b> 5		08/04/89 0256	Bb



Analytical Chemistry O Waste Treatmetty Disposal Japan ment Sales

AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Lab Sample Number:

149765 Continued

Page 3

PARAMETER:	RESULTS	GUALITY CONTROL	ANALYZED ON AT	ANALYST
Trans-1,2-Dichloroethene, ug/l EPA Method 8010	(5	08	8/04/89 0256	<b>B</b> P
Trans-1,3-Dichloropropene, ug/l EPA Method 8010	(5	98	3/04/89 0256	Bb
Trichloroethene, ug/l EPA Hethod 8010	₹5	O	3/94/89 9256	Bb
Vinyl Chloride, ug/l EPA Method 8918	(1	9.	8/94/89 0256	BP
Xylenes, ug/l EPA Method 8820	(10	0.1	8/94/89 9256	Bb



□ 009

□ 010

**011** 

□ 012

PAH

PCB

PCB

**PHENOL** 

610

8080

608

8040

□022

□023

□ 024

□025

AS

Ва

Cr

Cr6

### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

#### **ANALYSIS REQUEST FORM**

Contract Lab_	ANA	LAB			Contract No		···	
OCD Sample N	10. 89	5726151	7					
Collection Date	Collection Time	Collected by —Person	on/Agency					
7 26 89	1517	Boys	R, E	ngler	+			/OCD
SITE INFORMA Sample location Collection Site Des		DAVATO	REFIL	IBRY	: Pacos	RIUE	.R	
						hip, Range, Sect	ion, Tract:	H4 4
FINAL NM O		AL BUREAU RVATION DIVISION		SAMPLE	FIELDTREATMEN	<u>·</u>	<u> </u>	
Santa	Fe, NM 87	504-2088		No. of samp	oles submitted: 2	VIzils		
	ONDITIONS Pump Tap	Water level Discharge			Filtered in field with (	0.45 Amembra		
nH(00400)	361	Sample type SPA	1-13  200 //m	NA A:	No acid added HCL 2ml H <sub>2</sub> SO <sub>4</sub> /L added		3	
_	O'C	Conductivity at 25° C	ml مبر	FIELD COM	MENTS:			
	flowing	1°cci 4 (	les o	Course	odo			
L AR ANALYOU	South		<u>CD #</u>	7 }	MB)			
LAB ANALYSIS	DESC	METHOD	ПЕМ	DESC	METHOD	ITEM	DESC	METHOD
001 002 003 004 005 006 007	VOA VOH VOH SUITE SUITE HEADSPACE PAH	8020 602 8010 601 8010-8020 601-602	□013 □014 □015 □016 □017 □018 □019	PHENOL VOC VOC SVOC SVOC VOC SVOC O&G	604 8240 624 8250 625 8260 8270 9070	☐ 026 ☐ 027 ☐ 028 ☐ 031 ☐ 032 ☐ 033 ☐ 034	Cd Pb Hg(L) Se ICAP CATIONS/ANIONS N SUITE NITRATE	7130 7421 7470 7740 6010

□ 036

□ 037

□ 038

7060

7080

7190

7198

NITRITE

TKN

**OTHER** 

AMMONIA



Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

08/17/89

\_\_\_\_\_

Environmental Bureau NM Oil D. PO Box 2088 Santa Fe, NM 87504

AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Sample Identification: Pecos River Navajo Ref. Flow or other on site data: 4 Vials Low Flow, Organic Odor

Collected by: Boyer, Englert

Date & Time Taken: 07/26/89 1517

Additional Sample Information: 149764 Lab Sample Number:

175-26E-01-444 Dipped pH 7.61 Temp 30 Cond 8200 NF 8020:A 8010:NA

07/29/89 Received:

PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
1,1,1-Trichloroethane, ug/l EPA Wethod 8010	(5		<b>88/04/89 0217</b>	Bb
1,1,2,2-Tetrachloroethams, ug/l EPA Method 8010	(5		08/94/89 0217	BP
1,1,2-Trichloroethane, ug/l EPA Wethod 8010	<b>(5</b>		08/04/89 0217	<b>B</b> P
1,1-Dichloroethane, ug/l EPA Method 8010	<b>(5</b>		08/04/89 0217	Bb
1,1-Dichloroethene, ug/l EPA Method 8010	(1		08/04/89 0217	BÞ
1,2-Dichloroethane, ug/l EPA Method 8010	<b>(5</b>		08/04/89 0217	Bb
1,2-Dichloropropane, ug/l EPA Method 8010	(5		08/04/89 0217	Bb
2-Chloroethylvinyl ether, ug/l EPA Method 8010	(10		08/04/89 0217	BP
Benzene, ug/l EPA Method 8020	(5		08/04/89 9217	BP
Bromodichloromethane, ug/l EPA Method 8010	(5		98/94/89 9217	ВР





Analytical Chemistry • Waste Treatment & Disposal • Equipment Sales

AUG 2 1 1989

Lab Sample Number: 149764 Continued

OIL CONSERVATION DIV.

Page 2

	•		SAN	TA FE	_
	PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
	Bromoform, ug/l EPA Method 8010	(5		<b>08/04/89 0217</b>	ВР
	Bromomethane, ug/l EPA Method 8919	(19		08/04/89 0217	Вр
	Carbon Tetrachloride, ug/l EPA Method 8010	(5		08/04/89 0217	ВР
	Chlorobenzene, ug/l EPA Method 8010	(5		08/04/89 0217	Вр
	Chloroethane, ug/l EPA Wethod 8910	(10		08/04/89 0217	Bb
	Chloroform, ug/l EPA Method 8010	(5		<b>98/94/89 9217</b>	BÞ
	Chloromethane, ug/l EPA Method 8910	(19		<b>08/04/89 0217</b>	BP
	Cis-1,3-Dichloropropene, ug/l EPA Method 8010	<b>(</b> 5		<b>98/94/89 9217</b>	BP
	Dibromochloromethane, ug/l EPA Method 8010	(5		08/04/89 0217	Вр
	Ethyl benzene, ug/l EPA Hethod 8020	(5		<b>08/04/89 0217</b>	ВР
	Freon, ug/l EPA Method 8010	(5		98/94/89 9217	Вр
	Methylene Chloride, ug/l EPA Method 8010	(5		08/04/89 0217	ВР
	Tetrachloroethene, ug/l EPA Method 8010	<b>(</b> 5		08/04/89 0217	ВР
)	Toluene, ug/l EPA Wethod 8020	<b>(</b> 5		98/94/89 9217	Вр



Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

lah	Sample	Numbera
	oempre-	1.41 (** \$188 (** 1.45 F.) to

149764 Continued

Page 3

PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
Trans-1,2-Dichloroethene, ug/l EPA Method 8010	(5	08	3/04/89 0217	BP
Trans-1,3-Dichloropropene, ug/l EPA Method 8010	⟨5	98	3/04/89 0217	Bb
Trichloroethene, ug/l EPA Hethod 8010	(5	98	3/04/89 0217	ВР
Vinyl Chloride, ug/l EPA Method 8010	(1	98	3/ <b>0</b> 4/89 <b>0</b> 217	Вр
Xylenes, ug/l EPA Hethod 8020	(16	98	3/ <del>9</del> 4/89 <i>0</i> 217	Bb



#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

#### **ANALYSIS REQUEST FORM**

Contract Lab_	ANA	LAB			Contract No	·			
OCD Sample N	10. <i>8</i> 90	1727174	9						
Collection Date	Collection Time	Collected by —Perso	on/Agency						
7 27 89	1749	Boys	R	-	24		***************************************	/OCD	
SITE INFORMA Sample location	ATION N	AVAJO 19	EFIN	ERY:	Pares R	IVER G	BRIDG	K	
Collection Site Des			rom	-24 F	2 1				
	Highu	voy 82 18	ridg	<u> </u>	Towns	hip, Range, Sect $7 5+2 7$	ion, Tract: $P \not\models H \mid B + J$		
FINAL NM C		L BUREAU IVATION DIVISION		SAMPLE	FIELD TREATMEN	IT — Checkp	roperboxes		
TO 4	ox 2088 a Fe, NM 87	504-2088		No. of sampl	es submitted: 2	viels			
SAMPLING CONDITIONS Water level				NF: Whole sample (Non-filtered) F: Filtered in field with 0.45 Amembrane filter					
	Pump   Tap	Discharge	Discharge		☐ PF: Pre-filtered w/45 //membrane filter				
pH(00400)		Sample type RA	B	□ NA:	: No acid added HCL		,		
Water Temp. (000	10)	Conductivity (Uncorrected	!) //m	I 4 <sup>2</sup> π.	2ml H <sub>2</sub> SO <sub>4</sub> /L added				
		Conductivity at 25° C	mi ہیر	FIELD COMM	MENTS:				
	<u>f</u> o	ue floure	· Ause	- wate	`				
LAB ANALYSI	S REQUES	ED:				. <u>-</u> .			
ITEM	DESC	METHOD	ITEM	DESC	<u>METHOD</u>	ITEM	DESC	METHOD	
001 002 003 004 005 006 007 008 009 010 011	VOA VOH VOH SUITE SUITE HEADSPACE PAH PAH PCB PCB PHENOL	8020 602 8010 601 8010-8020 601-602 8100 610 8080 608	□013 □014 □015 □016 □017 □018 □019 □020 □022 □023 □024 □025	PHENOL VOC SVOC SVOC VOC SVOC O&G AS Ba Cr Cr	604 8240 624 8250 625 8260 8270 9070 7060 7080 7190 7198	☐ 026 ☐ 027 ☐ 028 ☐ 031 ☐ 032 ☐ 033 ☐ 034 ☐ 035 ☐ 036 ☐ 037 ☐ 038	Cd Pb Hg(L) Se ICAP CATIONS/ANIONS N SUITE NITRATE NITRITE AMMONIA TKN OTHER	7130 7421 7470 7740 6010	



Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

#### 08/17/89

Environmental Bureau NM Oil D. PO Box 2088 Santa Fe, NM 87504 MECTIVED

AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Sample Identification: River @ Br Navajo Ref.

Flow or other on site data: 4 Vials Flowing River Water

Collected by: Boyer

Date & Time Taken: 07/27/89 1749

Additional Sample Information:

175-27e-18-11 Dipped NF A Sample from ~100 ft upstream from hwy 82 bridge

Lab Sample Number: 149767 Received: 07/29/89

QUALITY ANALYZED ANALYST PARAMETER: RESULTS CONTROL AT 1, 1, 1-Trichloroethane, ug/l (5 08/04/89 0414 BÞ EPA Method 8010 08/04/89 0414 1,1,2,2-Tetrachloroethane, ug/l (5 Вb EPA Method 8010 1,1,2-Trichlorosthame, ug/l (5 08/04/89 0414 RP EPA Method 8010 1,1-Dichloroethane, ug/l (5 98/04/89 0414 EPA Method 8010 1,1-Dichloroethene, ug/l (1 08/04/89 0414 Bb EPA Method 8010 1,2-Dichloroethane, ug/l (5 08/04/89 0414 ВÞ EPA Method 8010 1,2-Dichloropropane, ug/l (5 08/04/89 0414 ВÞ EPA Method 8010 2-Chloroethylvinyl ether, ug/l (10 08/04/89 0414 Bb EPA Method 8010 Benzene, ug/1 (5 98/04/89 9414 ВÞ EPA Method 8020 Bromodichloromethane, ug/l (5 08/04/89 0414 ВÞ EPA Method 8010



Analytical Chemistry o Waste Treather Disposal D

#### AUG 2 1 1989

Lab Sample Number: 149767 Continued

OIL CONSERVATION DIV. SANTA FE

Page 2

	PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
	Bromoform, ug/l EPA Wethod 8010	(5		08/04/89 0414	ВР
	Bromomethane, ug/l EPA Hethod 8010	(10)		08/04/89 0414	Bb
	Carbon Tetrachloride, ug/l EPA Method 8010	(5		08/04/89 0414	ВЪ
	Chlorobenzene, ug/l EPA Method 8010	(5		<b>08/04/89 0</b> 414	Вр
	Chloroethane, ug/l EPA Method 8010	(10)		08/04/89 0414	Bb
)	Chloroform, ug/l EPA Method 8010	<b>(</b> 5		<b>88/84/89</b> 8414	Bb
	Chloromethane, ug/l EPA Method 8010	(10		08/04/89 0414	Bb
	Cis-1,3-Dichloropropene, ug/1 EPA Method 8010	(5		<b>88/84/89 8414</b>	ВР
	Dibromochloromethane, ug/l EPA Method 8010	(5		98/94/89 9414	Bp
	Ethyl benzene, ug/l EPA Method 8020	(5		<del>88/04/89 8414</del>	Bb
	Freon, ug/l EPA Method 8010	(5		<del>88/84/89</del> <del>84</del> 14	Bb
	Methylene Chloride, ug/l EPA Method 8010	(5		08/04/89 0414	Bb
	Tetrachloroethene, ug/l EPA Method 8910	(5		08/04/89 0414	Bb
ı	Toluene, ug/l EPA Mathod 8020	<b>(</b> 5		<b>68/84/89 0414</b>	Bb





Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

## RECEIVED

Lab Sample Number:

149767 Continued

AUG 2 1 1989

Page 3

PARAMETER:	RESULTS	OIL CONSERVATION DIV. QUALITSANTA FEMALYZED CONTROL ON AT	ANALYST
Trans-1,2-Dichloroethene, ug/l EPA Hethod 8010	(5	<b>08/04/89 0414</b>	ВР
Trans-1,3-Dichloropropene, ug/l EPA Method 8010	(5	<b>68/04/89 0414</b>	ВР
Trichloroethene, ug/l EPA Method 8010	(5	<b>08/04/89 0414</b>	Bb
Vinyl Chloride, ug/l EPA Method 8010	(1	<b>98/94/89 841</b> 4	Вр
Xylenes, ug/l EPA Method 8929	(19	98/94/89 9414	Bb

C. H. Whiteside, Ph.D., President

# SCIENTIFIC LABORATORY DIVISION TO Camino de Salud NE

Albuquerque, NM 87106 841-2570

ر جا الاستان	
T.A. C	NEW MEXICO
87-0741-C	

ſ			
REPORT TO:	David Boyer	s.L.D. No. OR- 74	1-A-B
	N.M. Oil Conservation Division	•	15/87
	P. O. Box 2088		
	Santa Fe, N.M. 87504-2088	PRIORITY	
PHONE(S):	827-5812	USER CODE:   8   2   2   3	5
SUBMITTER:	David Boyer	CODE: [2   6   0	
SAMPLE COLLE	CCTION CODE: (YYMMDDHHMMIII)	0101412191/161310121	2131
	WATER M. SOIL M. FOOD M. OTHE		•
COUNTY:	Eddy ; CITY: DR	1es/12 code:	_
LOCATION COL	E: (Township-Range-Section-Tracts)	15+21618+011+41414	_ (10N06E24342)
	QUESTED: Please check the appropriate box(e		screens
required. Whenev	er possible list specific compounds suspected PURGEABLE SCREENS	or required.  EXTRACTABLE SCREENS	
(753) Alipha	tic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons	
	tic & Halogenated Purgeables	(760) Organochlorine Pesticides	
'==' : :	Spectrometer Purgeables	(755) Base/Neutral Extractables	• •
(766) Trihal	omethanes · Specific Compounds or Classes	(758) Herbicides, Chlorophenoxy (759) Herbicides, Triazines	acid
Other	Specific Compounds or Classes	(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	<b>.</b>
		(767) Polychlorinated Biphenyls	(PCB's)
		(764) Polynuclear Aromatic Hyd	
□ ·		(762) SDWA Pesticides & Herbi	cides
Remarks:			
	· · · · · · · · · · · · · · · · · · ·	·	
FIELD DATA:	onductivity= <u>1850</u> umho/cm at <u>20</u> °C;	Obligation Devices and the second	
	n=mg/l; Alkalinity=mg/l; Flow		
ľ	ft.; Depth of wellft.; Perfora		
	River opposite Well #8		iet hial.
Fast.	brown turbil (*OC)	#7 mearly	or nigra,
	ne results in this block accurately reflect the	/ /	d
activities.(signatu	re collector):	Method of Shipment to the Lab:	
I .	npanies Septum Vials, Glass Ju	gs, and/or	
I	reserved as follows:		
NP:	No Preservation; Sample stored at room ter Sample stored in an ice bath (Not Frozen)	-	•
	Sample Preserved with Sodium Thiosulfate		
CHAIN OF CU			
I certify that t	his sample was transferred from	to	
at (location)		on:	and that
the statements	n this block are correct. Evidentiary Seals: N	fot Sealed Seals Intact: Yes No	
Signatures			
·	Data On a National	Dhara and Labbarra	T-2+2 3
For OCD L	se: Date Owner Notified	Phone or Letter?	Initials

LAB. No.: OR- 74/

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ing method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
······································			
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
	<del></del>	(760) Organochlorine Pesticides	
	<del></del>	(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
	<del></del>	(762) SDWA Pesticides & Herbicides	
ANA	<u>ALYTICA</u>	L RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
	[PPB]		[PPB]
aramatia supreables	N.D.		
11/1/19	7		
portrogenatatol Burnerbles	N.D.		
		1	
	1	1	1 1
l'	1		1 1
<u> </u>	199.1		
• DETECTION LIMIT • 🗶	149/	+ DETECTION LIMIT +	
ABBREVIATIONS USED:		•	
	THE CTATE	DETECTION I IMP	
N D = NONE DETECTED AT OR ABOVE			
T R = DETECTED AT A LEVEL BELOW		•	
[ RESULTS IN BRACKETS ] ARE UNCONF	IRMED AND/	OR WITH APPROXIMATE QUANTITATION	
LABORATORY REMARKS:			
			1
CERTIFICA	PE OF ANALS	TICAL DEDCOMNEL	
	1	(TICAL PERSONNEL	ĺ
Seal(s) Intact: Yes No . Seal(s) broken by	" mot	alake date:	
I certify that I followed standard laboratory procedu			l and
that the statements on this page accurately reflect t			
<b>.</b>	=		<u> </u>
Date(s) of analysis: 3 88/87. Analyst's significant	gnature:	ary & 1. Colin	
I certify that I have reviewed and concur with the			block.
/ 8: ^^		V 1007	
Reviewers signature: K. Showell		MA I I 100.	

REPORT TO:	David G. Boy				
THE STATE	New Mexico Oil Conservation Division LAB NUMBER OR6'- 379-4-B				
	P. O. Box 2088 95 0320 C				
1012.03	Santa Fe, NM 87501  SLD Users Code No. 82235				
ALL CONTAIN	ERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".				
	CERTIFICATE OF FIELD PERSONNEL				
Sample Type	: Water ☑ Soil □ Other				
Water Suppl	y and/or Code No. Pecos River D #W #7, Narajo Ragener				
City & Coun	date & time) 850410/1149 By (name) Boyer/Baca				
Collected (	date & time) 850410/1147 Sby (name) Boye Ree				
pH= <b>2.3</b> ;	Conductivity= government 20 °C; Chlorine Residual=				
Dissolved O	)xygen= mg/l; Alkalinity= ; Flow Rate=				
Sampling Lo	<pre>poxygen= mg/l; Alkalinity= ; Flow Rate= ; Flow Rate=</pre>				
Jamy	LE GROW W. COMP OF WELL TO NO WINDELL ODES				
	(* OC B #) nearby AJB				
I certify that the statements in this block accurately reflect the results of my field					
I certify t	observations and activities. Signed by the Body chat I witnessed these field analyses, poservations and activities and concur				
with the st	that I witnessed these field analyses, observations and activities and concur tatements in this block. Signed hilly L. Social				
Method of S	ACCOMPANIES septum vials with teflon-lined discs identified as:				
specimen_	; duplicate ; triplicate ; blank(s) , ober glass jug(s) with teflon-lined cap(s) identified as ,				
and ot	ther container(s) (describe) identified as identified as .				
Containers	are marked as follows to indicate preservation (circle):				
NP: P-ICE	No preservation; sample stored at room temperature (~20°C).  Sample stored in an ice bath.				
P-Na <sub>2</sub> 0 <sub>3</sub> S <sub>2</sub> :	Sample stored in an ice bath. Sample preserved with 3 mg $Na_2O_3S_2/40$ ml and stored at room temperature.				
	CERTIFICATE(S) OF SAMPLE RECEIPT				
I (we) cert	tify that this sample was transferred fromto				
	at (location)on				
(date & tim	ne) and that the statements in this block are correct.				
Disposition	of Sample Seal(s) Intact: Yes $\square$ No $\square$ .				
Signature(S	5)				
I (we) cert	tify that this sample was transferred fromto				
	at (location)on				
(date & tim	me) and that the statements in this block are correct.				
Disposition	of Sample Seal(s) Intact: Yes $\square$ No $\square$ .				

Signature(s)\_\_\_\_\_

ANALYSES REQUESTED

LAB. No.: ORG- 329

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

	`			 	
QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS ALIPHATIC HYDROCARBON SCREEN AROMATIC HYDROCARBON SCREEN HALOGENATED HYDROCARBON SCREEN GAS CHROMATOGRAPH/MASS SPECTROMETER	OIIAI TTATTUE	QUANTITATIVE	EXTRACTABLE  SCREENS  ALIPHATIC HYDROCARBONS CHLORINATED HYDROCARBON PESTICIDES CHLOROPHENOXY ACID HERBICIDES HYDROCARBON FUEL SCREEN ORGANOPHOSPHATE PESTICIDES POLYCHLORINATED BIPHENYLS (PCB's) POLYNUCLEAR AROMATIC HYDROCARBONS TRIAZINE HERBICIDES
REM	íARKS	SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes N0  $\times$ . Seal(s) broken by: date: I certify that I followed standard laboratory procedures on handling and analysis of this

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical dat on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 28 May 85. Analyst's signature: Timey
I certify that I have reviewed and concur with the analytical results for this sample and

with the statements in this block. Reviewers signature:

Meyenter



2503 West Main Street Farmington, New Mexico 87401 Tel. (505) 328-4737

SAMPLE ID: 8907261517

SITE: Pecos River DATE RECEIVED: 07/31/89
LAB NO: F1816 DATE COLLECTED: 07/26/89

Lab pH	8.05
Lab Conductivity, umhos/cm	10923
Lab resistivity, ohm-m	0.9155
Total Dissolved Solids (180), mg/l	8246
Total Dissolved Solids (calc), mg/l.	7956
Total Alkalinity as CaCO3, mg/l	56.84
Total Acidity as CaCD3, mg/l	0.00
Total Hardness as CaCO3, mg/1	2955.73
Sodium Absorption Ratio	12.79
Fluoride, mg/l	0.64

	mg/l	meq/
Bicarbonate as HCO3	69.34	1.14
Carbonate as CD3	0.00	0.00
Chloride	2913.99	82.20
Sulfate	2370.24	49.38
Calcium	783.97	39.12
Magnesium	243.13	19.99
Potassium	11.10	0.28
Sodium	1599.00	69.55
Major Cations		128. <b>9</b> 5
Major Anions		132.72
Cation/Anion Difference		1.44 %

C. Neal Schaeffe

Senior Chemist

MECRIARD

SEP - 1 1989

OIL CONSERVATION DIV. SANTA FE



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

717								
DATE RECEIVED	5151	87 K	500C 1664	USER 59300	D 59600 XX C	THER: 822	235	-
Collection DATE			SITE	Sample location	may D.	nen	Onso	1- 1- 1000 H
Collection TIME			INFORM- >	l	was sa	101 <sub>1</sub>	JIM	rite well #
1630				Collection site description	^ /	` ` ^	00	rent-Artesto
Collected by — Pers	son/Agency	nder	100 /OCD	<u> </u>	Nax	Define	Keges	rezig-arriesia
	1-1-					<b>¹</b> ∕──		
	ENVID	NIMENT	TAL BUREAU					
OEND	WW UII	י מושוניות אורויובות ו	SERVATION DI	VISION		***************************************	······································	***************************************
SEND FINAL	State	Land	Office Bldg	, PO Box 208	3			······································
REPORT TO			M 87504-208		,			
<b></b>	ttn: _Dav					***************************************		
A	((n: <u>uax</u> _	גיוור־דוזי	(E.L					
PI	hone: 8	27-58	12			Station/ well code		
		-	<b></b>			Owner	<del></del>	
SAMPLING						L		
☐ Bailed  ☑ Dipped	in Tap	192)	Water level	igh	Discharge		Sample typ	OF A AIR
pH (00400) -			Conductivity (Unco	rrected)	Water Temp. (00010)		Conductivi	ty at 25°C (00094)
1 11 (00 100) 7	(8trip			250 µmho	vvalor romp. (00010)	2000	Ooridactivi	μmho
Field commen	ts		<del></del>	<u> </u>	·			·
			·			<del>/</del>	·	
SAMPLE FIE	ELD TREA	TMENT	T — Check prope					
No. of sample	es /	☐ NF	Whole sample	F: Filtered in		ml H <sub>2</sub> SO <sub>4</sub> /	L added	
submitted		J	(Non-filtered)	0.45 μme	mbrane filter		<del></del>	
🕽 🔯 NA: No	acid adde	d 🗆 C	Other-specify:	□A:	5ml conc. HNO, ad	lded 🎞 🛭	: 4m1	fuming HNO <sub>3</sub> added
ANALYTICA	I DECINA	re toom	CAMPI EC	<del></del>				
NA NA	L HEOUL	0 110111	I OAIIII EEO	Units Date analyze	d			
Conductivi	ity (Corrected	···	0.	- 1	From	NA Sample	:	Date
25°C (0009		", ————————————————————————————————————	2101	$\mu$ mho $\frac{5/13}{}$	_[			Analyzed
				,,	🛛 Calcium	316	mg/1	. 6/1
☐ Total non-fi residue (su					,			<i>y</i>
(00530)			· · · · · · · · · · · · · · · · · · ·	mg/l	_ \ \ Potassium _			. 7
Other H	/		7.95	<u> 5/19</u>	_ Magnesium _	49	mg/1	6//
☐ Other:					- 🔯 Sodium		mg/1	5/20
☐ Other:					Bicarbonate		mg/1	
A-H <sub>2</sub> SO <sub>4</sub>		<del></del>			_	1.01		
	h Miaa- **				Chloride _		mg/1	• = ( )
☐ Nitrate-N + total (0063				mg/l	_ Sulfate	924	mg/l	5/20
☐ Ammonia-		0)		mg/l	Total Solid	ls 1724	mg/1	6/3
☐ Total Kjelda	=			_			<u> 35</u>	5/27
(	)			mg/l	- Fluori	us o	رر	<del></del>
☐ Chemical of demand (0				mg/l				
☐ Total organ	-							
(	)			mg/l	- Cation/A	nion Ba	lance	: -
Other:					Analyst		ported	Reviewed by
☐ Other:					-		10 82	0
Laboratory ren	narks							
					***************************************			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1								
TOP OCD		\	Wner Notifie		Phone or Lett	er?	Tr	nitals

ANALYT:	CATIONS E MEQ.	PPM	DET.	ANALYT	ANIONS 'E MEQ.	ррм	DET.
Ca Mg Na K	15.77 4.02 3.80 0.07	316.00 49.00 87.40 2.73	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	2.16 19.25 4.96	132.00 924.00 176.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	23.66	455.13			26.38	1232.00	
	Dissolved lance =	Solids= 89.71%	1728	-	IC No.	= 8701664 & 6/24/67	<u>-</u>



New Mexico Health and Environm SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 -- (505) 841-2555

#### **GENERAL WATER CHEMISTRY** and NITROGEN ANALYSIS

DATE SEIVED 4	12 85 N	AB 10.WC-1715	USER _ 59300	D □ 59600 💢 X OT	HER: 82	235		
85/04/10	100 11.	SITE INFORM- ►	Campia lacation	ecoo Rive		量心	#11	17
Collection TIME		ATION	Collection site description	C. / . in	<u>'</u>		16	4.5
Collected by — Person/Ag	ency Royal	Roca ac		Sile opp	nor	Te/	NE	over !
SEND N FINAL S REPORT S	NVIRONMEN' M OIL CON	TAL BUREAU SERVATION DIV Office Bidg NM 87501	/ISION , PO Box 2088	8	Nan Mal Re	sip D#9 fines	pon , n Y	avajo
				1	Station/			
				<u> </u>	well code Owner			`
SAMPLING CON		I was it is		<u> </u>				
\ <u>_</u>	⊒ Pump ⊒ Tap	Water level		Discharge		Sample ty	-/Za	b
pH (00400) 8	3	Conductivity (Unco		Water Temp. (00010)	°C	Conductive 962	ty at 25	Ç (00094) 
Field comments	4)2	No J	aroma	Ties		4.394-16-39		
***************************************			) CO DU III X					
***************************************	***************************************		***************************************	************************************	**************		**********	
SAMPLE FIELD	TREATMEN	T — Check prope	r boxes					
No. of samples	∫ □ NI	F: Whole sample (Non-filtered)	F: Filtered in	field with	ml H₂SO₄/	L added		
XNA: No acid	dadded □ (						<del> </del>	
<u> </u>		· · · · · · · · · · · · · · · · · · ·						
ANALYTICAL RI	ESULIS from		Units Date analyze	F NA			Units	Date analyzed
☐ Conductivity (Co	orrected)				6	50	mg/l _	5/2
25°C (00095)	´ <del></del>	P	ımho	_ <b>K</b> Magnesium (00925)	i	81	mg/l	3/2
☐ Total non-filterat				Sodium (00930)  Otassium (00935)	/32	29	mg/l _ mg/l _	4/16
residue (suspen (00530)	ided)		mg/l	Bicarbonate (00440)		105.0	mg/l _	11 6/5
Other:	7,0			Chloride (00940)	24	13.6	mg/l _	6/5
☐ Other:				Sulfate (00945)  Total filterable residue		2913	mg/l _	5/8
☐ Other:		<del></del>		- (dissolved) (70300)		383	mg/l _	5/29
NF, A-H₂SO₄	<del></del>			Other CO3		one	_	6/5
□ Nitrate-N + . Nitr				F, A-H <sub>2</sub> SO <sub>4</sub>	C	081		5/3
total (00630)	rate-iv		mg/l					
☐ Ammonia-N tota	ıl (00610)		mg/l	Nitrate-N +, Nitrate-N dissolved (00631)			mg/l _	
☐ Total Kjeldahl-N				☐ Ammonia-N dissolved	<u> </u>		g	
( )  Chemical oxyge			mg/l	(00608)			mg/l _	
demand (00340			mg/l	☐ Total Kjeldahl-N				
☐ Total organic ca	rbon		mg/l	( ) □ Other:			mg/l _	
☐ Other:								
☐ Other:				Analyst		eported	Review	X .7
oratory remarks					6	0 3		Jew
***************************************			***************************************	***************************************				
		***************************************			***************************************		***********	



New Mexico Health and Environ
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

#### GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

11,						
DATE RECEIVED 4 12 85	LAB NO. WC -1696	USER 59300	D □ 59600 💢 X O	<sub>THER:</sub> 82	235	
SOA 10	SITE INFORM- ►		ecoo Rive		東い世	N 7
Collection TIME 1147	ATION	Callection site description	Sile op	1001		Comer
Collected by — Person/Agency	Roca OCA		sue of	1100	Le Ni	
γ,				Nas	20 PB	1x = 3 E
	NTAL BUREAU				1 110	
SEND NM OIL CO FINAL State Lar	NSERVATION DIV nd Office Bldg,	ISION PO Boy 208	R	<b>-37</b> 1.4	$v^{\mu}$	Novajo
REPORT CAMES ES	, NM 87501	, FO DOX 2000	•	Ro	Linen	
Attn: <u>David F</u>					7 7	
AUII:	W.y					
				Station/ well code		
SAMPLING CONDITIONS				Owner		
☐ Bailed ☐ Pump ☑ Dipped ☐ Tap	Water level		Discharge		Sample type	reb
pH (00400) 83	Conductivity (Unco	rrected)	Water Temp. (00010)	°C	Conductivity at	25°C (00094) µmho
Field comments	Par I	aroma			<del></del>	<u> </u>
<i>NO</i>	DOOD) of	arma	<u>ua</u>		***************************************	
***************************************						}*************************************
SAMPLE FIELD TREATME	NT — Check prope	r boxes				
No of complete	NF: Whole sample	F: Filtered in	field with	ml H SO /	Laddad	
bmitted	(Non-filtered)	0.45 μme	mbrane filter	mi H₂SO₄/	Lauueu	
NA: No acid added	☐ Other-specify:					
LANALYTICAL RESULTS fr	OM SAMPLES			<u></u>		
NF, NA		Units Date analyze	d F, NA		Unit	s Date analyzed
☐ Conductivity (Corrected)			☐ Calcium (00915)		mg.	/\
25°C (00095)	———	رmho	_ ☐ Magnesium (00925)	<del></del>	mg/	
☐ Total non-filterable			☐ Sodium (00930) ☐ Potassium (00935)		mg/	
residue (suspended) (00530)		mg/l	☐ Bicarbonate (00440)		mg/	
□ Other:			☐ Chloride (00940)		mg/	
Other:			□ Sulfate (00945) □ Total filterable residue	<del></del>	mg/	4
☐ Other:			(dissolved) (70300)	,	mg/	/1
₩F, A-H <sub>2</sub> SO <sub>4</sub>			C Other:			
☐ Nitrate-N + , Nitrate-N			F, A-H <sub>2</sub> SO <sub>4</sub>			
total (00630)		mg/l	Nitrate-N + , Nitrate-I	V		
<ul><li>Ammonia-N total (00610)</li><li>Total Kjeldahl-N</li></ul>		mg/l	dissolved (00631)	0.	<u>05                                    </u>	1 423
		mg/l	Ammonia-N dissolve (00608)	ed O	.24 ma	5/14
Chemical oxygen demand (00340)	249	mg/1 5/17	Total Kjeldahl-N			5/55
Total organic carbon	<del></del>	- 1	- ( )		-77 mg/	11 _5/29
( ) _	21,3	mg/l = 6/13	Other:			<del></del>
☐ Other:			Analyst	Date R	eported Rev	viewea)by
				6	25 35 (	Selve
ratory remarks	-					
*************************************	***************************************			*************		,
***************************************				***************************************		###



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106

#### **HEAVY METAL ANALYSIS FORM**

Telephone: (505)841-2553

	N .
1717 57 871 711897 7120 11	ser
RESERVED 1. 1. 107 INC. 1077 / 17 St	ode   82235   Other: hh mm  CQLLECTION SITE DESCRIPTION
25 02 26	1517 NAVASO REFINERY
COLLECTED BY:	
COLLECTED BY: Boyer, Englest.	PECOS KIVER
TO:	OWNER:
10.	OWNER.
ENVIRONMENTAL BUREAU	SITE LOCATION;
NM OIL CONSERVATION DIVISION	County:
State Land Office Bldg., PO Box SANTA FE, NM 87504-2088	ZU88  Township, Range, Section, Tract: (10N06E24342)
SANTA TE, NA 07504-2000	10   D  S+516  E+0  I+14  A  A
atin: Dave Boyer	
TELEPHONE: 827-5812 ST	ATION/ WELL CODE:
SAMPLING CONDITIONS:	ONGITUDE:
Bailed Pump Water Leve	el:   Discharge:   Sample Type:
Dipped   Tap	- GRATS
	ater Temp. (00010)   Conductivity at 25°C
7.41 8200 pmho	(00094)
umno	oc umho
FIELD COMMENTS: flowing run	es water organio odas
Very low flow	
SAMPLE FIELD TREATMENT	LAB ANALYSIS REQUESTED:
Check proper boxes:	
WPN: Water WPF: Water	Mark box next to metal if AA
Preserved w/HNO Preserved w/HNO Filtered	is required.
	RESULTS (MG/L)
ELEMENT ICAP VALUE AA VALUE	ELEMENT ICAP VALUE AA VALUE
Aluminum <0,1	silicon 3.3
Barium <0.  Beryllium <0.	Silver < 0.1 Strontium //.
Boron 0.6	Tin O.1
Cadmium < 0,1	Vanadium <0.1
Calcium 780.	Zinc < 0.1
Chromium <0,1	Arsenic < 0.005
Cobalt <0.05	Selenium 1
Copper <a href="#">&lt;0. </a> Iron <0,	Mercury
Lead <0,1	- HECEIVED H
Magnesium 280.	
Manganese <u>0.07</u>	OCT 1 0 1989
Molybdenum <o. < td=""><td></td></o. <>	
Nickel < o l	OIL CONSERVATION DIV.
LAB COMMENTS: Seal intered 7/81/84 - WA	V. Broken ly SANTAFE 3/2/89. Digested.
	Sold Francisco
For OCD Use:	(M) - () = 0 10 a
	Analyst Att Reviewer labely
Phone or Letter? Date	Analyzed $8/28/89$ Date Reveived $8/28/89$

RECEIVED

OCT -5 1989

OIL CONSERVATION DIV. SANTA FE



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

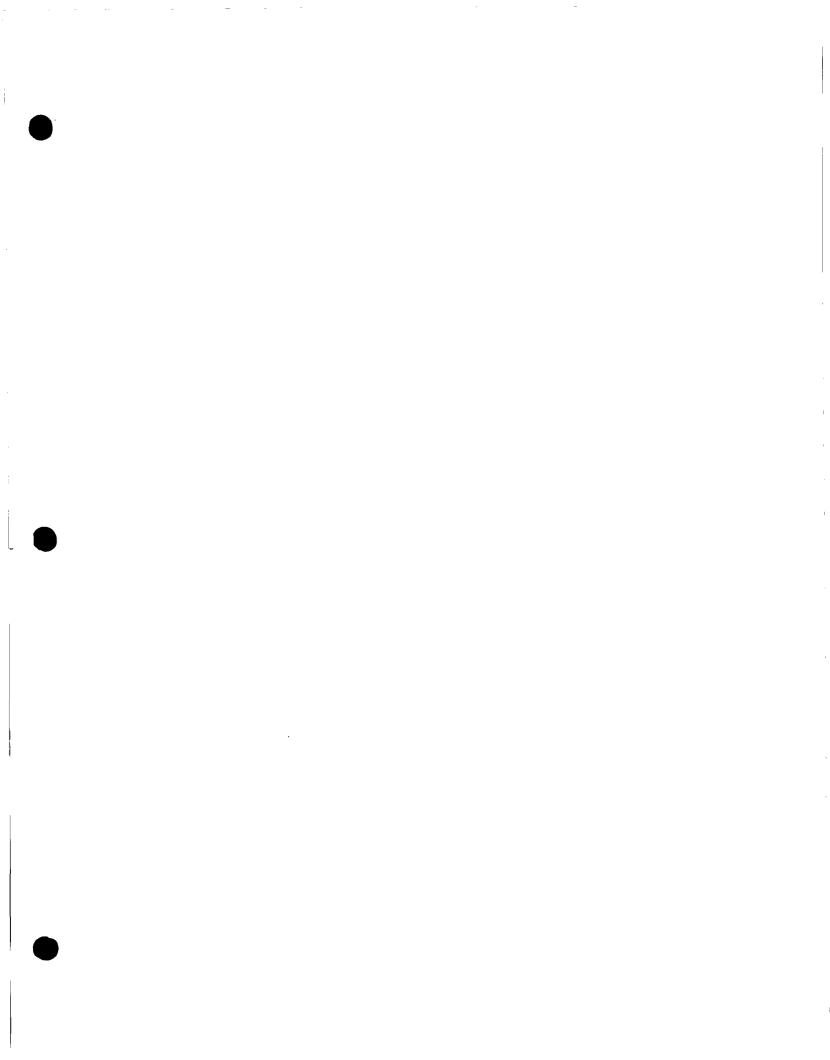
	HM-1693 USER 593	00 □ 59600 \ <sup>XX</sup> OTHEF	R: 82235	>		
Collection DATE		Acoa River	at 4	tu #N	17	
Collection TIME  Collected by — Person Agency 2	Collection site descripti	ion Sile omno	QL I	DINE	e shae h	
Collected by — Person/Agency Boye, It	see oct					
	ERVATION DIVISION Office Bldg, PO Box 208 M 87501	<u></u>	Nora Mu Refs	12 pon 127, N viesy	evejo	
MUII. aashibtatadaadayta	ar	Statio well c		<i>y</i>		
SAMPLING CONDITIONS		Owne				
☐ Bailed ☐ Pump	Water level	Discharge	Sa	imple type	B	
pH (00400) 83	Conductivity (Uncorrected)  µmho	Water Temp. (00010)	°C Co	enductivity at 25	°C (00094) µmho	
Field comments	In Tarams					
	The state of the s		•		***************************************	
					······································	
No. of samples	NAME AND ADDRESS OF THE PARTY O	in field with				
No. of samples Submitted		nembrane filter	H₂SO₄/La	dded		
Submitted						
□ NA: No acid added 💢 🔾						
☐ NA: No acid added    ○	ther-specify: A HNO3					
	ther-specify: A HNO3			Units	Date analyzed	
□ NA: No acid added SOME ANALYTICAL RESULTS from □ Conductivity (Corrected)	SAMPLES Units Date analyz	zed F, NA		mg/l	Date analyzed	
NA: No acid added ANALYTICAL RESULTS from	ther-specify: A HNOS	zed F, NA  □ Calcium (00915) □ Magnesium (00925)		mg/lmg/l _	Date analyzed	
NA: No acid added  ANALYTICAL RESULTS from  Conductivity (Corrected) 25°C (00095)  Total non-filterable	SAMPLES Units Date analyz	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935)		mg/l		
NA: No acid added ANALYTICAL RESULTS from Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)	SAMPLES Units Date analyz	Calcium (00915)		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l		
NA: No acid added  ANALYTICAL RESULTS from  OCCUPATION (Corrected)  Conductivity (Corrected)  25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: JCAP SCAN	SAMPLES Units Date analyz	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)		mg/l _ mg		
NA: No acid added  ANALYTICAL RESULTS from  NF, NA F, M//VO2  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other:  Other:	SAMPLES Units Date analyz	Calcium (00915)		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l		
NA: No acid added  ANALYTICAL RESULTS from  NE, NA S. Al-IVO 2  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: JCAP SCAN	SAMPLES Units Date analyz	Calcium (00915)		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l		
NA: No acid added  ANALYTICAL RESULTS from  NF, NA F, M//VO2  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other:  Other:	SAMPLES Units Date analyz	Calcium (00915)		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l		
□ NA: No acid added SOME ANALYTICAL RESULTS from NF, NA P, NAVO 2 □ Conductivity (Corrected) 25°C (00095) □ Total non-filterable residue (suspended) (00530) □ Other: SOME SOME □ Other: □ Other: □ NF, A-H <sub>2</sub> SO <sub>4</sub> □ Nitrate-N <sup>+</sup> , Nitrate-N	ther-specify: A HNOS  SAMPLES  Units Date analyz	Calcium (00915)		mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l		
NA: No acid added  ANALYTICAL RESULTS from  NF, NA F ANAVO2  □ Conductivity (Corrected) 25°C (00095)  □ Total non-filterable residue (suspended) (00530)  Other: □ Other: □ Other: □ NF, A-H <sub>2</sub> SO <sub>4</sub> □ Nitrate-N + , Nitrate-N total (00630)	SAMPLES Units Date analyz	Calcium (00915)		mg/l _ mg		
NA: No acid added  ANALYTICAL RESULTS from  NF,NA F, NA/NO2  □ Conductivity (Corrected) 25°C (00095)  □ Total non-filterable residue (suspended) (00530)  Other: JCAP SCAN  □ Other: □ Other: □ Other: □ NF, A-H₂SO4 □ Nitrate-N + Nitrate-N total (00630) □ Ammonia-N total (00610) □ Total Kjeldahi-N	ther-specify: A HNOS  SAMPLES  Units Date analyz	Calcium (00915)		mg/l _ mg		
NA: No acid added ANALYTICAL RESULTS from NF, NA P. AHVO 2  □ Conductivity (Corrected) 25°C (00095) □ Total non-filterable residue (suspended) (00530) □ Other: JCAP SCAP □ Other: □ O	ther-specify: A HNOS  SAMPLES  Units Date analyz	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631)		mg/l _ mg		
NA: No acid added NO:  ANALYTICAL RESULTS from  NF, NA F, AHVO2  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other:  NF, A-H₂SO₄  Nitrate-N + , Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahi-N () Chemical oxygen demand (00340)	ther-specify: A HNOS  SAMPLES  Units Date analyz	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (006031)  Ammonia-N dissolved (00608)  Total Kjeldahl-N		mg/l _ mg		
NA: No acid added ANALYTICAL RESULTS from NF, NA P. AFNO 2  □ Conductivity (Corrected) 25°C (00095) □ Total non-filterable residue (suspended) (00530) □ Other: SCAP SCAP □ Other: □ O	ther-specify: A HNOS  SAMPLES  Units Date analyz	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N		mg/l _ mg		
NA: No acid added  ANALYTICAL RESULTS from  NF, NA	ther-specify: A HNOS  SAMPLES  Units Date analyz	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (006031)  Ammonia-N dissolved (00608)  Total Kjeldahl-N		mg/l _ mg	ved by	
NA: No acid added ANALYTICAL RESULTS from NF, NA P. AFNO 2  □ Conductivity (Corrected) 25°C (00095) □ Total non-filterable residue (suspended) (00530) □ Other: SCAP SCAP □ Other: □ O	ther-specify: A HNOS  SAMPLES  Units Date analyz	Calcium (00915)		mg/l _ mg		
NA: No acid added  ANALYTICAL RESULTS from  NF, NA	ther-specify: A HNOS  SAMPLES  Units Date analyz	Calcium (00915)	Date Repo	mg/l _ mg	ved by	

#### ICAP ·SCREEN

Lab Number: HM693	Sample Code: Pecoo River at NW #7
Date Submitted: 4/12/85	Date Reported: 6/17/85
By: Boyer/Baea	By: J. Ashly
<u>Determination</u>	Concentration (μg/ml)
A1:um1num	<u> </u>
Barlum	4.10
Berylllum	4.10
Boron	.59
Cadm.Lum	<.16
Calelum	740.
Chrom1um	4.10
Cobalt	<.10
Copper	<.16
Iron	, <.10
Lead	<.10
Magnes1um	250.
Manganese	.15
Molybdenum	<.10
Nickel	4.10
S111con	2.3
Silver	۷.۱۵
Stront1um	11.
Tin	<.10
Vanadium	<u> </u>
Yttrium	4.10
Zinc	۷.10
WEILC	

### ATOMIC ABSORPTION ANALYSES

Arsenic	ng/ml
Belenium	
11	110/m1



# Pand/Ditch Sampling

TO MEDOS

Pond/Dith Sumpling



#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

#### **ANALYSIS REQUEST FORM**

Contract Lab_	AN	LAB			_ Contract No			
OCD Sample	No. <b>25</b> 0	272615	15				•	
Collection Date	Collection Time		<del> </del>				<del></del>	
7 26 89	1545	Boy	er					/OCD
SITE INFORM	ATION							
Sample location		NAVAJ	U R	EFINE	RY: P	PE C	utlet	
Collection Site De	escription						<del></del>	
76		0 0	7	<u> </u>	Towns	ship, Range, Sect	ion, Tract:	
- Caren	from	and of gov			11	7/5+2/0	6 5+1 2+2	1-1-
	IRONMENTA							
	DIL CONSEI Box 2088	RVATION DIVISION	ł	SAMPLE	FIELD TREATMEN	IT— Checkp	proper boxes	
Sant	a Fe, NM 87	504-2088		No. of sam	ples submitted:			
SAMPLING C	ONDITIONS	Water level		NF.	: Whole sample (Non Filtered in field with	•	ne filter	
☐ Bailed ☐ Pump Discharge			1 = -	□ PF: Pre-filtered w/45 /4/membrane filter				
Dipped	] Tap	Sample type		<del>- </del>				
pH(00400)	7.47	Conductivity (Upperrents	<u>4/3</u>	N/   A:	No acid added  HCL		•	
Water Temp. (000	<del></del>	Conductivity (Uncorrected) Conductivity at 25° C	870 /m	ho 🗆 A:				
4	1500	Conductivity at 25° C	m þv.		IMENTS:			
7	curbial	, no flow	ling p	soleret.	strong	odor		
		· · ·			·		· . · · · · · · · · · · · · · · · · · ·	
				· · · · · · · · · · · · · · · · · · ·		y		
LAB ANALYS	IS REQUES	TED:						
ПЕМ	DESC	METHOD	ITEM	DESC	METHOD	ITEM	DESC	METHOD
□ 001	VOA	8020	<b>□</b> 013	PHENOL	604	□ 026	Cd	7130
□ 002 □ 003	VOA VOH	602 8010	□014 □015	VOC	8240 624	□ 027 □ 028	Pb Hg(L)	7421 7470
<b> 004</b>	VOH	601	□016	SVOC	8250	031	Se	7740
<u></u> 005 □ 006	SUITE SUITE	8010-8020 601-602	□017 □018	SVOC VOC	625 8260	□ 032 □ 033	ICAP CATIONS/ANIONS	6010
□ 007	HEADSPACE		<b>□</b> 019	SVOC	8270	☐ 034	N SUITE	
□ 008 □ 008	PAH	8100	□ 020 □ 020	O&G	9070	□ 035 □ 035	NITRATE	
□ 009 □ 010	PAH PCB	610 8080	□ 022 □ 023	AS Ba	7060 7080	□ 036 □ 037	NITRITE AMMONIA	
□ 011	PCB	608	<b>□</b> 024	Cr	7190	<b>038</b>	TKN	
012	PHENOL	8040	<b>[]</b> 025	Cr6	7198		OTHER	



Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

MECEIVE

09/22/89

Environmental Bureau NM Oil D. PO Box 2088 Santa Fe, NM 87504

SEP 27 1989

OIL CONSERVATION DIV. Santa FE

Sample Identification: Pipe Outlet Navajo Ref.

Flow or other on site data: 4 Vials +1 Turbid, Strong HC

Collected by: Boyer

Date & Time Taken: 07/26/89 1545

Additional Sample Information: 175-26E-12-2 Dipped pH 9.47 Temp 45 Cond 3870 NF 8020:A 8010:NA

Lab Sample Number: 149763 Received: 07/29/89

PARAMETER:		RESULTS	QUALITY CONTROL	ON ANAL	YZED AT	ANALYST
1,1,1-Trichloroethane, t EPA Method 8010	սց/1	<b>(5</b>		08/04/89	Ø138	Bb
1,1,2,2-Tetrachloroethan	ne, ug/l	(5		08/04/89	<b>0138</b>	Bb
1,1,2-Trichloroethane, u EPA Method 8010	ug/l	(5		<b>08/04/89</b>	0138	Bb
1,1-Dichloroethane, ug/l EPA Method 8010	1	(5		08/04/89	<b>@138</b>	Bb
1,1-Dichloroethene, ug/l EPA Method 8010	1	(1		<b>08/04/89</b>	0138	Bb
1,2-Dichloroethame, ug/1 EPA Method 8010	1	<b>(</b> 5		08/04/89	Ø138	Bb
1,2-Dichloropropane, ug/ EPA Method 8010	/1	(5		08/04/89	0138	Bb
2-Chloroethylvinyl ether EPA Method 8010	r, ug/l	(10)		08/04/89	0138	Bb
Benzene, ug/l EPA Method 8020		1290		<b>08/04/89</b>	0138	ВЪ
Bromodichloromethane, up	g/1	(5		08/04/89	0138	Bb



Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

Lab Sample Number:

149763 Continued

Page 2

PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
Bromoform, ug/l EPA Method 8010	(5		08/04/89 0138	Bp
Bromomethane, ug/l EPA Method 8010	(10		08/04/89 0138	BÞ
Carbon Tetrachloride, ug/l EPA Method 8010	(5		08/04/89 0138	Bp
Chlorobenzene, ug/l EPA Method 8010	(5		08/04/89 0138	Bb
Chloroethane, ug/l EPA Wethod 8010	(10		08/04/89 0138	8p
Chloroform, ug/l EPA Method 8010	(5		08/04/89 0138	Bp
Chloromethane, ug/l EPA Method 8010	(10		@8/@4/89 @138	BÞ
Cis-1,3-Dichloropropene, ug/l EPA Method 8010	(5		08/04/89 0138	Вр
Dibromochloromethane, ug/l EPA Method 8010	<b>(5</b>		08/04/89 0138	BP
Ethyl benzene, ug/l EPA Method 8020	600		08/04/89 0138	BÞ
Freon, ug/l EPA Method 8010	<b>(</b> 5		08/04/89 0138	Bb
Methylene Chloride, ug/l EPA Method 8010	(5		08/04/89 0138	Bb
Tetrachloroethene, ug/l EPA Method 8010	(5		08/04/89 0138	BP
Toluene, ug/l EPA Method 8020	1300		08/04/89 0138	Вр

continued



Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

Lab Sample Number:

149763 Continued

Page 3

PARAMETER:	RESULTS	QUALITY ANALYZED ANALYST CONTROL ON AT
Trans-1,2-Dichloroethene, ug/l EPA Method 8010	(5	08/04/89 0138 BP
Trans-1,3-Dichloropropene, ug/1 EPA Method 8010	(5	08/04/89 0138 BP
Trichloroethene, ug/l EPA Method 8010	(5	08/04/89 0138 BP
Vinyl Chloride, ug/l EPA Method 8010	(1	08/04/89 0138 BP
Xylenes, ug/l EPA Wethod 8020	1829	08/04/89 0138 BP

C. H. Whiteside, Ph.D., President

#### SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE 754 Albuquerque, NM 87106 841-2570

ON 4		88-0796 <b>-c</b>	EXICO
pu	ENVIRON.	dosetment	

	avid Boyer SLD. No. OR- 796 A + B
	M. 0il Conservation Division 1988 DATE REC. 6-3-88
Sa	anta Fe, N.M. 87504-2008 CONSERVATION DIVISION PRIORITY
PHONE(S):	827-5812 SANTA FE USER CODE: [8 2 2 3 5
50BM111210	avid Boyer CODE: 12 16 10
	ON CODE: (YYMMDDHHMMIII)   8   8   0   6   0   1   1   1   5   5   6   6   6
6	TER , SOIL , FOOD , OTHER: CODE:
COUNTY: FX	CODE: CITY: ATTACKE CODE: CODE
1	Township-Range-Section-Tracts)
	ossible list specific compounds suspected or required.
	RGEABLE SCREENS  Purgeables (1-3 Carbons)  EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons
	2 Halogenated Purgeables (760) Organochlorine Pesticides
(765) Mass Spect	rometer Purgeables [ (755) Base/Neutral Extractables
(766) Trihalometh	
Other Spe	cific Compounds or Classes (759) Herbicides, Triazines (760) Organochlorine Pesticides
	(761) Organophosphate Pesticides
	(767) Polychlorinated Biphenyls (PCB's)
片	(764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides
Remarks: NoT	HCI preserved
PIELD DATA:	
pH=; Conduc	ctivity= 200 cm at 40°C; Chlorine Residual=mg/l
Dissolved Oxygen=	mg/l; Alkalinity=mg/l; Flow Rate
Depth to water	ft.; Depth of wellft.; Perforation Intervalft.; Casing:
1	Refinery - Pipeline outfall, Sample Strom
OUTEN 60	A Strong HIC OND, Black deposit on bank byo
activities.(signature co	sults in this block accurately reflect the results of my field analyses, observations and bllector):    Method of Shipment to the Lab:   Glass Jugs, and/or
Samples were preserve	
1 ''	Preservation; Sample stored at room temperature.
<del>                                    </del>	mple stored in an ice bath (Not Frozen).  mple Preserved with Sodium Thiosulfate to remove chlorine residual.  OY
I certify that this sa	ample was transferred from to
at (location)	on and that
the statements in thi	is block are correct. Evidentiary Seals: Not Sealed Seals Intact: Yes No
Signatures	
1	

For OCD Use: Date Owner Notified 8/19/

88 Phone of Letter

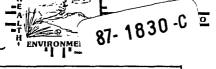
Initials//

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ning metuod(s)	cuecked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
[ (753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
	<u> </u>	(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
	····	(762) SDWA Pesticides & Herbicides	
ΔN	ΔΙ ΥΤΙζΑ	AL RESULTS	
			CONC.
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	[PPB]
1 10	PPB		11 TD
armalie surgeables	semules		
Sengue!	7440		
toluene	11440		
ethelbensene	1600		
A+ sh - Kulene	3120		
D-xulone	2180		
halogenated suspesher	11.17.		
- Mangerale purgeaver	10.11.		
	<b>!</b>		{
4	1,00 2		
* DETECTION LIMIT * *	100 47/10	+ DETECTION LIMIT +	
ABBREVIATIONS USED:		•	
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW	THE STATE	D DETECTION LIMIT (NOT CONFIRMED)	
[ RESULTS IN BRACKETS ] ARE UNCONF			
•		•	
		- //	<del></del>
LABORATORY REMARKS: Juo compos	unds ,	n the asomalie serven s	egion_
at marrier 4000 - 20 mon rate	and 1	Veren late olution come with	
- 11 03 1 + 4 + 10	_ creyr &	A CONTRACTOR OF THE PROPERTY O	
an !! All I substituted	sinzini	region al 100 - 1000 p	ges
detected by the shoton	miration	a Setector but not is	entitied.
		,	
			<u> </u>
CERTIFICA	TE OF ANAL	YTICAL PERSONNEL	
Seal(s) Intact: Yes No L. Seal(s) broken by	y: No	states date:	
I certify that I followed standard laboratory procedu			d and
that the statements on this page accurately reflect t	-		4
Date(s) of analysis: 6/11/88 . Analyst's si	gnature:	Tang Colden	
I certify that I have reviewed and concur with the	analytical resu	alts for this sample and with the statements in this	block.
Reviewers signature: Lineapenhan			

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE 154
Albuquerque, NM 87106 841-2570



REPORT TO:	David Boyer	S.L.D. No. OR- /830 - A ታቤ
	N.M. Oil Conservation Division	DATE REC. 18-16-87
,	P. O. Box 2088	DATE RES
	Santa Fe, N.M. 87504-2088	PRIORITY
DUONE(S).	827-5812	R CODE:   8   2   2   3   5
PHONE(S): SUBMITTER:	David Boyer	CODE: 12 1 6 1 0 1
	CTION CODE: (YYMMDDHHMMIII)   3   7   1   1   1	
SAMPLE TYPE:	WATER SOIL , FOOD , OTHER:	_ CODE:   _   _
COUNTY: FO	Dy ; CITY: DINESIA	CODE:
LOCATION COD	E: (Nownship-Range-Section-Tracts)	+
ANALYSES REQ	UESTED: Please check the appropriate box(es) below to indic	cate the type of analytical screens
required. Whenev	er possible list specific compounds suspected or required.	YED A CELADI E. CODEDNA
(759) Alipha		XTRACTABLE SCREENS ) Aliphatic Hydrocarbons
<u>'</u> ' ` '		) Organochlorine Pesticides
	The state of the s	Base/Neutral Extractables
(766) Trihale	-	Herbicides, Chlorophenoxy acid
· · · ·	1-1-1-1	Herbicides, Triazines
	(760	) Organochlorine Pesticides
		) Organophosphate Pesticides
		Polychlorinated Biphenyls (PCB's)
	(764	) Polynuclear Aromatic Hydrocarbons
	(762	) SDWA Pesticides & Herbicides
Remarks: NO	Than JOPP & A.L. Ypt	Hille.
FIELD DATA:		
pH= 10; Co	onductivity= 200 umho/cm at °C; Chlorine Residual	=mg/l
Dissolved Oxygen	n=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to water	ft.; Depth of wellft.; Perforation Interval	ft.; Casing:
Sampling Location	on, Methods and Remarks (i.e. odors, etc.)	
Nara	10 Referery - Pipeline EX	Mat Evappons
1	ne results in this block accurately reflect the results of my fi	
activities.(signatu This form accom	re collector): Methorpanies Septum Vials, Glass Jugs, and/or	or purpose so the Dab.
ł .	reserved as follows:	- Committee
NP:	No Preservation; Sample stored at room temperature.	الالمالي المالي المالية
P-Ice	Sample stored in an ice bath (Not Frozen).	
P-Na S O	Sample Preserved with Sodium Thiosulfate to remove chloring	ne residual.
CHAIN OF CU	STODY	DEB 3. 19. 1987
I certify that th	nis sample was transferred from	to DEB SHIPS OF
at (location)	on	to
the statements i	n this block are correct. Evidentiary Seals: Not Sealed	
Signatures		· · · · · · · · · · · · · · · · · · ·
'		

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter? \_\_\_\_ Initials

LAB. No.: OR- 1830

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ing method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	i
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	1
Other Specific Compounds or Classes		(759) Herbicides, Triazines	ŀ
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
ANA	ALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
	[PPB]		[PPB]
aromatic purquelles	see semanter	1	
Lumpasse puragui un	1		
Magene	4400		
Toluene	14000		
ethylbenzene	1780		
p syline	1080		
un-kylene	3860		
0- Suline	2120		
palogenated surgrafter	N.O.		
* DETECTION LIMIT * *	200 49/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED:			,
N D = NONE DETECTED AT OR ABOVE	THE STATE	DETECTION LIMIT	ì
T R = DETECTED AT A LEVEL BELOW		•	•
[ RESULTS IN BRACKETS ] ARE UNCONF			ĺ
·	•	•	1
	0-	- +1	
LABORATORY REMARKS: Seven early	eluting	umaturated compounds a	
200-400 AAR one land	comoran	Lat anaron 25000 - 30000 AA	6
and it the gram att		raine the of the latter	1
was in the womale of	seen re	11	luling
compounds in the C3 st	Milute	I femmene region at 200	-50b
last detected by the sh	otowning	tean detector but not ide	utilizado
approve a		(MYGALT DEDGGANATI	
CERTIFICAT	E OF ANAL	TICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken by	· Sal	Ashan portrealed date: affold	3
I certify that I followed standard laboratory procedu			and
that the statements on this page accurately reflect the	he analytical r	esults for this sample.	ĺ
Date(s) of analysis: w/18/87 . Analyst's sig	nature:	Tary C. Elan	
I certify that I have reviewed and concur with the	analytical resu	lt for this sample and with the statements in this	block.
Reviewers signature: Kmeyerhew			
	<del></del>		

SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE 754 154 Albuquerque, NM 87106 841-2570 2 7



87- 1830 -C =

REPORT TO:	David Boyer	S.L.D. No. OR/830 - A &B
REPORT TO:	N.M. Oil Conservation Division	DATE REC. 18-16-87
•	P. 0. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	327-5812 USE	R CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE: 12   6   0
	ECTION CODE: (YYMMDDHHMMIII)   3   7   1   1   1	
	: WATER SOIL [], FOOD [], OTHER:	
COUNTY: E	dry city: Diveria	CODE:
	DE: (Nownship-Range-Section-Tracts)   +	+   +     (10N06E24342)
ANALYSES RE	QUESTED: Please check the appropriate box(es) below to indi-	cate the type of analytical screens
required. Whene	ver possible list specific compounds suspected or required.	A CONTRACTOR AND TO A CONTRACTOR
(753) Aliph	<del></del>	XTRACTABLE SCREENS  1) Aliphatic Hydrocarbons
' <del>'</del> ` ` '		O) Organochlorine Pesticides
		) Base/Neutral Extractables
(766) Triha	The state of the s	Herbicides, Chlorophenoxy acid     Herbicides, Triazines
		)) Organochlorine Pesticides
		1) Organophosphate Pesticides
	(767	7) Polychlorinated Biphenyls (PCB's)
		Polynuclear Aromatic Hydrocarbons
<u> </u>	[M270] (762	2) SDWA Pesticides & Herbicides
Remarks: NO	Man 10pp b A.L. y pt	Hill
FIELD DATA:		
pH=; C	Conductivity=150umho/cm atC; Chlorine Residua	ul=mg/1
Dissolved Oxyge	m= mg/l; Alkalinity= mg/l; Flow Rate_	
Depth to water	ft.; Depth of wellft.; Perforation Interval	- ft.; Casing:
Sampling Locati	on, Methods and Remarks (i.e. odors, etc.)	
Nava	10 Refunery - Pipeline EX	IT at EUCODPONE
I certify that	the results in this block accurately reflect the results of my fi	eld analyses, observations and
activities.(signat	ure collector): Metho	od of Shipmens to the Lab:
	mpanies Septum Vials, Glass Jugs, and/or	
Samples were p	preserved as follows:  No Preservation; Sample stored at room temperature.	
	Sample stored in an ice bath (Not Frozen).	William Commence
P-Na SO	Sample Preserved with Sodium Thiosulfate to remove chloris	ne residual.
CHAIN OF C	JSTODY	
I certify that	this sample was transferred from	to
at (location) _	on	and that
the statements	in this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes No
Signatures		
Ean OCD	Use: Date Owner Notified Phone	or Letter?Initials
FOR OUD	USE. Date Owner Mourried ritone	or recognitionals

LAB. No.: OR- 1830

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ning method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triasines	
		(760) Organochlorine Pesticides	
	<del></del>	(761) Organophosphate Pesticides	I
	<del></del>	(767) Polychlorinated Biphenyls (PCB's)	,
		(764) Polynuclear Aromatic Hydrocarbons	. (
		(762) SDWA Pesticides & Herbicides	
ΔN	ALVTICA	L RESULTS	ļ
Alva	ALI. IICA	IL NESOLIO	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
	[PPB]		[PPB]
aromatie surgeoffer	sementes		
	1		
- Marine	4400		
toluen.	14000		
thy liemene	1780		
		> Valuet confirmed by	,
g- sylve.	1080	S Vicence Son Parisas 1964	
- sylene	3860	1	
0- Auline	2120	11 240 10/22/8/	
		1 25	
paloaenated surgeafter	N.D.	, , , , ,	
	1		
· DETECTION LIMIT · *	7-1-49/		
• DETECTION LIMIT • 1	200 17/1	+ DETECTION LIMIT +	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE			
T R = DETECTED AT A LEVEL BELOW	THE STATED	DETECTION LIMIT (NOT CONFIRMED)	
[ RESULTS IN BRACKETS ] ARE UNCONF	IRMED AND/	OR WITH APPROXIMATE QUANTITATION	
			ŀ
LABORATORY REMARKS: Source Carl	olution	7. +1	-
LABORATORI REMARKS: South Pasty	evulung	unaturated compounds a	
200-400 ppf one bank	compodno	at appear 25000 - 3000 pp	26
and in the comments	adem 1	rain land twelve later	01.1
· 1/2 13	D ++ 4	1	eming
Compliance in the Co	apolitule.	I semmene region at 200	-503
pal detected by the sk	otoronisa	tion detection but not ide	uliliad
CERTIFICA	TE OF ANALY	TICAL PERSONNEL	
	. 1	4.4.4	
Seal(s) Intact: Yes No Seal(s) broken by			3
I certify that I followed standard laboratory procedu that the statements on this page accurately reflect t			i and
, ,			ļ
		Tary C. Elso	
I certify that I have reviewed and concur with the	analytical resu	it for this sample and with the statements in this	block.
Reviewers signature: Kneyerhen			

CLIENT: OCD

SAMPLE ID: 8907Z61545

SITE: Pipe Outlet

LAB NO: F1817

Analysis Requested: Polynuclear aromatic hydrocarbons in water.

Parameter	Concentra	ation	Units
Acenaphthene	ND	(1.8)	ug/!
Acenaphthylene	ND	(2.3)	ug/
Anthracene	ND	(1.0)	ug/l
Benzo(a)Anthracene	ND	(1.0)	ug/l
Benzo(a)pyrene	ND	(1.0)	ug/l
Benzo(k)fluoranthene	ND	(1.0)	ug/l
Benza(g,h,i)perylene	ND	(1.0)	ug/
Dibenzo(a,h)anthracene	ND	(1.0)	ug/l
Chrysene	ND	(1.0)	l\eu
Fluoranthene	ND	(1.0)	ug/l
Fluorene	ND	(1.0)	ug/l
Indent(1,2,3-cd)pyrene	ON	(1.0)	ug/l
Naphthalene	ND	(1.8)	ug/l
Phenanthrene	ND	(1.0)	ug/l
Pyrene	ND	(1.0)	ug/
Bennu(b) fluoranthene	מא	(1.0)	ug/l
Benzo(a)fluoranthene	ND	(1.0)	ug/l
Benzo(j)fluoranthene	ND	(1.0)	ug/l
Dibenzo(a,h)acridine	ND	(1.0)	ug/1
Dibenzo(a,j)acridine	ND	(1.0)	ug/l
Dibenzo(a,h)anthracene	ND	(1.0)	ug/l
7H-dibenzo(c,g)carbazole	CIN	(1.0)	ug/l.
Dibenzo(a,e)pyrene	ND	(1.0)	ug/l
Dibenzo(a,h)pyrene	ND	(1.0)	us/l
Dibenzo(a,i)pyrene	ND	(1.0)	ug/l
3-Methylcholanthrene	ПИ	(1.0)	ug/l

#### Method:

8100 Polynuclear Aromatic Hydrocarbons, SW-846, USEPA (1982). 610 Polyaromatic Hydrocarbons, 40 CFR Part 136 (1984).

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

Senior Chemist KECEUED

SEP 25 1989

OIL CONSERVATION DIV. SANTA FE

## SCIENTIFIC LABORATORY DIVISION TO Camino de Salud NE

Albuquerque, NM 87106 841-2570

88-0805-B

EW MEXICO

	•	7 - 0
REPORT TO:	David Boyer	_ S.L.D. No. OR
	N.M. Oil Conservation Division	
•	P. O. Box 2088	
•	Santa Fe, N.M. 87504-2088	_ priority <u>3</u>
PHONE(S):	827-5812 USE	ER CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE: 12   6   0
SAMPLE COLLE	ction code: (YYMMDDHHMMIII)   8   8   0   6   0	1/1/7/5/5/4/8/
_		CODE:
	ddy ; CITY: Botesia	CODE:
LOCATION COD	E: (Township-Range-Section-Tracts)   1   7   S + 2   6	E + /  2 + 2    (10006E24342)
	UESTED: Please check the appropriate box(es) below to ind	icate the type of analytical screens
-	er possible list specific compounds suspected or required.  PURGEABLE SCREENS	EXTRACTABLE SCREENS
		1) Aliphatic Hydrocarbons
1		0) Organochlorine Pesticides
	Taraba and the same and the sam	5) Base/Neutral Extractables
(766) Trihale	langer 1	B) Herbicides, Chlorophenoxy acid  D) Herbicides, Triazines
	Toppost 1	0) Organochlorine Pesticides
		1) Organophosphate Pesticides
		7) Polychlorinated Biphenyls (PCB's)
		4) Polynuclear Aromatic Hydrocarbons
<u> </u>		2) SDWA Pesticides & Herbicides
Remarks:		
-		
FIELD DATA:		
pH= 11 ; Co	onductivity 2, 700 umho/cm at 40°C; Chlorine Residua	al=mg/l
	=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to water	ft.; Depth of wellft.; Perforation Interval	ft.; Casing:
Sampling Location	on, Methods and Remarks (i.e. odors, etc.)	11 00 0
Nam	yo Robinory-Pipeline	outsell Strong
H/C	I odd	The Harles Will
I certify that th	ne results in this block accurately reflect the results of my fi	ield analyses observations and
	re collector): Hours Meth	
This form accom	npanies Septum Vials, U Glass Jugs, and/or	
	reserved as follows:	
NP:	No Preservation; Sample stored at room temperature.	·
P-Ice P-Na S O	Sample stored in an ice bath (Not Frozen).	
CHAIN OF CU		ne residual.
	nis sample was transferred from	to
at (location)	on	and that
the statements i	n this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes No
Signatures		
For OCD U	se: Date Owner Notified 2/5/68 Phone	or Letter? Initials

#### THIS PAGE FOR LABORATORY RESULTS ONLY

				· ·
	PURGEABLE SCREENS		EXTRACTABLE SCREENS	
<b>(753)</b>	Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
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	Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
	Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
	Other Specific Compounds or Classes		(759) Herbicides, Triazines	
			(760) Organochlorine Pesticides	
闩			(761) Organophosphate Pesticides	
H			(767) Polychlorinated Biphenyls (PCB's)	
H	•		(764) Polynuclear Aromatic Hydrocarbons	
H			(762) SDWA Pesticides & Herbicides	
	ANI		<del></del>	
	COMPOUND(S) DETECTED	CONC.	L RESULTS  COMPOUND(s) DETECTED	CONC.
		[PPB]		[PPB]
L.	EXTRACT DUE TO	: :		
INTE	ENRUPTION OF COOL	ing	<b> </b>	
LLBAY	en PLEACE MECK	mpco.		
			<u> </u>	
	<u> </u>			
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		<b> </b>		
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		i l		
]				
}		}		
	. •		<u> </u>	<del></del>
	* DETECTION LIMIT * *	<u> </u>	+ DETECTION LIMIT +	
ADDDDD	ATIONS USED:			
N D T R	= NONE DETECTED AT OR ABOVE = DETECTED AT A LEVEL BELOW SULTS IN BRACKETS   ARE UNCONF		OR WITH APPROXIMATE QUANTITATION	
N D T R [ RE	= DETECTED AT A LEVEL BELOW	IRMED AND/	OR WITH APPROXIMATE QUANTITATION	
N D T R [ RE	= DETECTED AT A LEVEL BELOW SULTS IN BRACKETS ] ARE UNCONF	IRMED AND/	OR WITH APPROXIMATE QUANTITATION	
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N D T R [ RE:	= DETECTED AT A LEVEL BELOW SULTS IN BRACKETS ] ARE UNCONF	IRMED AND/	OR WITH APPROXIMATE QUANTITATION	
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N D T R [ RE:	= DETECTED AT A LEVEL BELOW SULTS IN BRACKETS   ARE UNCONF RY REMARKS:  CERTIFICAT	TE OF ANALY	OR WITH APPROXIMATE QUANTITATION	
N D T R [ RE:	= DETECTED AT A LEVEL BELOW SULTS IN BRACKETS   ARE UNCONF  RY REMARKS:  CERTIFICAT  t: Yes  No  . Seal(s) broken by	TE OF ANALY	OR WITH APPROXIMATE QUANTITATION  OTICAL PERSONNEL  Sease date:	and
N D T R [ RE:	= DETECTED AT A LEVEL BELOW SULTS IN BRACKETS   ARE UNCONF  RY REMARKS:  CERTIFICAT  t: Yes  No . Seal(s) broken by t I followed standard laboratory procedu	TE OF ANALY  res on handling	TICAL PERSONNEL  Sease date: g and analysis of this sample unless otherwise noted	and
N D T R [ RE:	EDETECTED AT A LEVEL BELOW SULTS IN BRACKETS   ARE UNCONF RY REMARKS:  CERTIFICAT  t: Yes  No  Seal(s) broken by t I followed standard laboratory procedu tements on this page accurately reflect t	TE OF ANALY  res on handling the analytical reserves.	TICAL PERSONNEL  g and analysis of this sample unless otherwise noted esults for this sample.	and
N D T R [ RE:	EDETECTED AT A LEVEL BELOW SULTS IN BRACKETS   ARE UNCONF RY REMARKS:  CERTIFICATE  t: Yes  No  Seal(s) broken by t I followed standard laboratory procedu tements on this page accurately reflect t nalysis:  Analyst's sign	TE OF ANALY  res on handling the analytical regrature:	TICAL PERSONNEL  g and analysis of this sample unless otherwise noted esults for this sample.	



2503 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

CLIENT: OCD DATE REPORTED: 08/21/89

SAMPLE ID: 8907261545

SITE: Pipe Outlet DATE RECEIVED: 07/31/89 LAB NO: F1817 DATE COLLECTED: 07/25/89

Lab pH	9.80
Lab Conductivity, umhos/cm	3467
Lab resistivity, ohm-m	2.8843
Total Dissolved Solids (180), mg/l	2140
Total Dissolved Solids (calc), mg/l.	2655
Total Alkalinity as CaCO3, mg/l	645.54
Total Acidity as CaCD3, mg/l	0.00
Total Hardness as CaCO3, mg/l	528.92
Sodium Absorption Ratio	12.41
Fluoride, mg/l	62.51

	mg/l	meq/	
Bicarbonate as HCO3	787.56	12.91	
Carbonate as CO3	0.00	0.00	
Chloride	577.18	16.28	
Sulfate	860.04	17.92	
Calcium	95.40	4.76	
Magnesium	70.74	5.82	
Potassium	8.80	0.23	
Sodium	656. <b>0</b> 0	28.53	
Major Cations		39.34	
Major Anions	. , , , , , , , , ,	47.11	
Cation/Anion Difference		8.99 % >	<del>{                                    </del>

\*\* This large ion % difference is most likely due to an abundance of metal cations which were not analyzed. All major ions were reanalyzed without significant changes.

Senior Chemist

BISCEIVED

SEP-1 1989

OIL CONSERVATION DIV. SANTA FE



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 864 F

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

" ENTROPHENT	Albuquerque, NM	1 87106 — (505) 841-2	2555				
PATE RECEIVED (	213188 H	6.WC-1972	USER CODE 59300		THER: 822		
ollection DATE	/	SITE INFORM- >	Sample location			-Pipeline	butte
illection TIME	3	ATION	Collection site description				
Person	/Agency And Do	nson/OCD		······································	······································		***
15pef4	( JANA !)	17/80 11/ 300					
•	ENVIRONMENT	TAL BUREAU			<del>                                </del>	<u> </u>	
ND	NM OIL CONS	SERVATION DIV	/ISION	•			
NAL PORT		.0ffice Bldg NM 87504-208		8	<del></del>	<u> </u>	#[]}
•			Ь		CILC	ONSERVATION ON	ESTON .
Attr	n:David_Boy	<u>ver</u>		***************************************		\$3000 FE	
Pho	ne: 827-58	312			Station/ well code		
AMPLING CO	ONDITIONS				Owner		•
XikBailedn	☐ Pump ☐ Tap	Water level	<u> </u>	Discharge		Sample type	2
H (00400)	L IAP	Conductivity (Unco	rrected)	Water Temp. (00010)	<i>a</i> >	Conductivity at 25 °C (00	<u>/()</u> 1094)
	//	8	780 µmho		10 °C	,	μmho
eld comments	Strans	y An	Block	demosit	on DD	nD bank	2 2
**********************	OsePas	es and	200		- Start for the start of	6-1-12	
		7 12 19	<u> </u>				
		T — Check prope					·
No. of samples submitted	j □ NF	Whole sample (Non-filtered)	F: Filtered in 0.45 µme	field with	? ml H₂SO₄/l	L added	
	cid added 🗆 C			5ml conc. HNO3 ad	lded ITA	4ml fuming HM	NO, added
<u> </u>		<del></del>		3			3
NALY IICAL NA	RESULTS from		Units Date analyze	d =		, D = 4 =	
Conductivity	(Corrected)			From,	NA Sampie	: Date Analyz	
25°C (00095)	)	<u>6440</u>	umho <u>6/30</u>	<u>}</u>	41		
Total non-filte				∠Calcium			
residue (susp (00530) Cothor:	oended)		mg/l	_ 🗖 Potassium _	a •	8 mg/1 7/5	11.4
Ciller La	b pH	9.79	714	_ Magnesium _	41.	,	115
Other:				Sodium	13:	<b>28</b> mg/1 7/5	
Other;				Bicarbonate		3 mg/1 7/14	
A-H₂\$O₄				Chloride _	jl.	9D mg/1 <u>6/23</u>	
Nitrate-N+, I total (00630)			mg/l	Sulfate	8	55 mg/1 6/23	,
Ammonia-N			mg/l	- ☑ Total Solid		72 mg/1 -6/2	28
Total Kjeldah			_	1 Clus	6/10 7	9,3 7/7	7,
( ) Chemical ox			mg/l	1 2 - 1000	TAIL 1 80		
demand (003	340)		mg/l	-  U <i></i>			
Total organic ( . )	carbon		mg/l	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	nion Rai	lance	
Other:				- Analyst		eported Reviewed	í
Other:				-	and the same	27 88 C	,
aboratory rema	irks	1-1 1 1-		100 11 970			
	t redomina	yell continuence	present	see ptt 7.72	7		
			<i>-</i>			·····	·····
FOR OCD III	2E D-4 6	No. 45-	1 8/19 les	Phone or Lett	972	Initale	1/2/5

ANALYT	CATIONS E MEQ.	PPM	DET.	ANALYTE	ANIONS  MEQ.	•	DET. LIMIT
Ca Mg Na K	11.18 3.41 57.76 0.20	224.00 41.50 1328.00 8.00	<3.0 <0.3 <10.0 <0.3	SO4	0.05 17.81 33.57	3.00 855.00 1190.00	
Mn Fe	0.00	0.00		CO3 NH3	0.00 4.68 0.00 0.00	0.00 281.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	72.56	1601.50			56.11	2329.00	
Total Dissolved Solids= 4392   WC No. = 8801972   Date out/By							<u>5</u> /

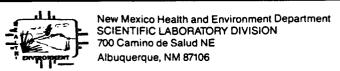


New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED //	1/6/87 1	AB O.WC-5087	USER CODE 59300	59600 XX	THER: 822	235
Collection DATE		SITE INFORM- ►	Sample location .	araia Re	Liner	y-Pipeline Exi
Collection TIME		ATION	Collection site description	0.0	1701	
Collected by - Person/	Agency Ballo	/0CD		Concre	ell K	oral per
SEND FINAL REPORT TO	State Land	SERVATION DIN Office Bldg NM 87504-208	• PO Box. 2088	3		
Pho	ne: 827-58	312			Station/ well code	
SAMPLING CO	NDITIONS				Owner	
☐ Bailed  Dipped	☐ Pump ☐ Tap	Water level		Discharge 49704	om	Sample type GRAA
pH(00400)		-Conductivity (Unco	rrected)	Water Temp. (00010)	,	Conductivity at 25°C (00094)
9.2 Meles	1,105lrcf	1	μmho		•C	4280 µmh
Field comments	/	******************************		:		
			**************************************	*********************************		
SAMDI E EIEI I	TREATMEN	T — Check prope	er hoves			
No. of samples		. Whole sample	F: Filtered in	field with	) ==   L CO: /	Loddod
submitted	1 EVI	(Non-filtered)	□ <b>F:</b> 0.45 μme	mbrane filter	2 ml H₂SO₄/ 	Ladded
AA: No ac	eid added 🗆 (	Other-specify:	□A:	5ml conc. HNO <sub>3</sub> ac	ided 🗆	A: 4ml fuming HNO <sub>3</sub> adde
ANALYTICAL I	RESULTS from					
NA Conductivity		<del>                                      </del>	Units Date analyze	From NK,	NA Sample	: Date
Conductivity ( 25°C (00095)	Corrected) 	4648 ,	umho 15	_		Analyzed
☐ Total non-filter residue (suspi (00530) ☐ Other: ☐ Other: ☐ Other:	ended)	7.98	mg/l	Calcium Potassium Magnesium Sodium	٥. ٦	mg/1
				Bicarbonate		
A-H₂SO₄	litrata N			Chloride _		
☐ Nitrate-N+, N total (00630)			mg/l	Sulfate	637	
☐ Ammonia-N to	. ,		mg/l	- Total Solid	<del> </del>	60 mg/1 11.
( )			mg/l	D Fluc	Ride	26.6 12/31
☐ Chemical oxy demand (0034			mg/l	_		
☐ Total organic						_
Other:			mg/l	Cation/A	Date R	leported Reviewed by
Laboratory remar	ks Suspec	of pre		ets Balance		
*	6°C	-, -, pre	and fifth	us orums		
	<u>ب ب</u>		• •			
FOR OCD US	E Date (	Owner Notifie		Phone or Lett	er?	Initals

ANALYT	CATIONS  E MEQ.	PPM	DET.	ANALYTI	ANIONS E MEQ.	РРМ	DET.
Ca Mg Na K		120.00 36.60 856.00 6.24	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	0.00 13.13 19.18	0.00 630.00 680.00	<10.0
Mn Fe	0.00	0.00		NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	46.39	1018.84	ļ		32.31	1310.00	
	Dissolved lance =	Solids= 143.58%	3060		C No. out/By _	= 8705087 O 1/1/k š	_



#### **HEAVY METAL ANALYSIS FORM**

Telephone: (505)841-2553

Date 11.21.09 Lab 11 AD UIV	User	\ <del></del>			
Received 0/0/87 No JCHP 446	Code	822		ther:	
COLLECTION DATE & TIME: YY mm d		•	134		DESCRIPTION
189 07 24	0 15 45		NAVAJ	<u>し /                                   </u>	BPINGRY
COLLECTED BY:			2.22	~ .d.	
BOYER IRIE	CELLY!		PIPE C	DUTTE	2, F
			OFFICE		
ro:	₽7 1 <b>~ 1</b> 006	<b>)</b>	OWNER:	•	
	CT 1 9 1989				
ENVIRONMENTAL BUREAU OH O	ALIAPRILETIAN :	8111	SITE LOCAT	TOW.	
NM OIL CONSERVATION DIVISION	CANTA FE	DIA.	County:	APR	,
State Land Office Bldg., PO			country		
SANTA FE, NM 87504-2088	DOX 2000	,	Township Rongs	Section To	act: (10N06E24342)
5ANIA FE, NM 6/304-2000				46E+1	
ATTN: DAVE BOVER			(1) 10.15	ICSP . V	16-101
TELEPHONE: 827-5812	STATION/	WELL C	ODE:	1 1 1	
				<u> </u>	<del> </del>
- LATITUDE,	, LONGITU	DE:	11111		-
SAMPLING CONDITIONS:	•	<del></del>		<del></del>	
☐ Bailed ☐ Pump   Water 1	Level:	Discha	rge:	Samp	le Type:
Dipped 🗌 Tap				51	PAB
OH(@0400)   Conductivity(Uncorr.)	Water T	emp. (00	010) Con	ductiv	ity at 25°C
9 47 243A	24		(00	094)	
9.41 3870 µmho	7	§ °c			umho
FIELD COMMENTS: burbed, no	loating	organ	ies str	ancor	dor '
sample from end of	grate				
/ /	/				
SAMPLE FIELD TREATMENT	L	AB ANAI	LYSIS REQUE	STED:	
Check proper boxes:  WPN: Water WPF: Water		TO	AP Scan		
Preserved w/HNO, Preserved w/H			ox next to		ie 22
Non-Filtered Filtered	3		mired.	merar	II AA
Non-Filtered Filtered		19 160	urreu.		
ANALYTICA	AL RESU	LTS (	MG/L)		
ELEMENT ICAP VALUE AA VAL		BLEMEN		ALUE	AA VALUE
Aluminum O.I		Silicor			
Barium < 0.1	<del>-</del>	Silver		:0,1	П
Beryllium < o, i		Stronti			<u> </u>
Boron 0.8		Tin		< 0.1	
Cadmium < o		Vanadiu		<0.1	
Calcium 59.		Zinc		0.1	
Chromium $<_{0,1}$ $<$ $< 0.005$		Arsenio			0.21
Cobalt <0.05		Seleniu			<i>o</i> d
Copper		Mercury	•		
1ron <0.1	_				
Lead <0.1 <0.00 5					<u> </u>
Magnesium 18.					<u> </u>
Manganese <0.05		<del></del>		<del></del>	<u> </u>
Molybdenum <a href="#">20.1</a>				<del></del>	Ц
Nickel <0.					Ц
LAB COMMENTS: See I wisk of 7/21/89		1 // //-	a plahar	-	DICECT
LAB COMMENTS: Sen via fant 7/31/89	mg. Bro	son by ffy	1 m 8/2/89,		DIGESTE
For OCD Use:	-	<u> </u>	Λ	<del></del>	1
Date Owner Notified:	CAP Analy	st M	// Revi	.ewer	Lin D. Allan
Phone or Letter?		- 71	<del>/ / /</del>	7	y way
Tailian -		al/ \\/	28/89	_ [ ]	- in/1/160

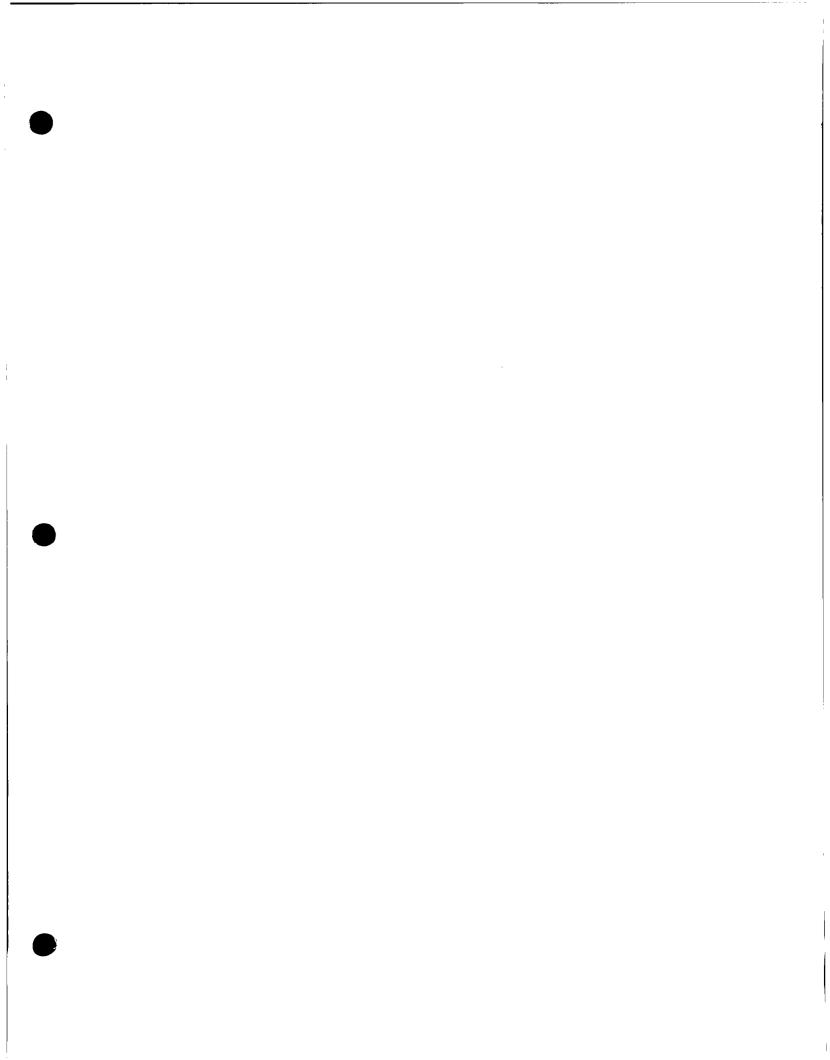


New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106

#### **HEAVY METAL ANALYSIS FORM**

Telephone: (505)841-2553

Date	Lab		User				
Received	613188 No.		Code	822		Other:	
COLLECTION	DATE & TIME:	yy mm dd	hh mm		COLLECT		DESCRIPTION
		1881040F	11//55		Dispes	ene C	Whall To
COLLECTED I	BY:	1 /	1 4		1000	sdA-	
	1500/9/1/	WONOV	1/201	1			
			7575768	HIF			
TO:	•	المياكات	27/7/2	51111	OWNER:	LONDIA	Mokenery
		11/12/10		HIII			
	NMENTAL BUREA CONSERVATION Land Office B FE. NM 8750	1015	1988	[[U]			,
ENVIRO	NMENTAL BUREA	$\mathbf{u}$ //// $\mathbf{u}$	GI,	MOISI	SITE LOC	- 0 //	
NM OIL	CONSERVATION	DINTSION	TION D	101212	County:_	& Sld v	1
State :	Land Office B	ldg. IPO	68/5088				
SANTA	NMENTAL BUREA CONSERVATION Land Office B FE, NM 8750	4-2088-00	SAIN	7			Fract: (10N06E24342)
	x 5 0				1/1/18	+216E+,	/12+21 ]
ATTN:	1),150477						
TELEPH	one: 827-5812		STATION/	WELL C	ODE:	<u> </u>	
	·						
		LATITUDE,	LONGITU	DE:			
SAMPLING C							. 1
☐ Bail	· ·	Water I	evel:	Discha	irge:	Samı	ple Type:
Dipp.			<i>[ ]</i>	- (0.0			2/9
pH(00400)	Conductivity	(Uncorr.)	Water T	emp. (00			vity at 25°C
1/	02	03		1 1 00	<u> </u>	(00094)	
PART D. COM	5)/s	De jumbo	1200		, <u>, , , , , , , , , , , , , , , , , , </u>	· <i>F</i>	umho
FIELD COMM	ENTS:	MA SOEI	0 1 1 1 0 m	Black	Ldoppo	11 T 87	1 fronx
	bonk b	Alow a	utfall		/		
CAMPIE ETE	LD TREATMENT			AD ANAT	LYSIS REC	THE COURTS	
	per boxes:		1	MD MIMI	TISTS KEY	SOFOIED.	
WPN:		WPF: Wate	<del>-     -</del>	FIZ TC	AP Scan		
Preserved		served w/H	1 1		ox next	to meta	1 if %%
Non-Filte	red Fil	tered	3		quired.	co meca.	T TT UU
TOII TIICE	164   111	CCICA		13 100	1411Cu.		
	Α	NALYTICA	L RESU	LTS (	MG/L)		
ELEMENT	ICAP VALUE	AA VALU		ELEMENT		P VALUE	AA VALUE
Aluminum	40.1		=	Silicor			
Barium	40.1			Silver		40.1	П
Beryllium	<0.1			Stronti	ium 3.		Ш
Boron	0.1			Tin		40.1	
Cadmium	40.1	П	_	Vanadiu	ım	<0.1	
Calcium	190.	<del></del>	_	Zinc		<0.1	
Chromium	40.1	X 40.00	<b>~</b>	Arsenio			NO.22
Cobalt	40.05	<u> </u>	_	Seleniu			Time I
Copper	<0.1		•	Mercury			
Iron	<0.1		_	<b>-</b>	•		, Fi
Lead	<0.1	X 40,0	<del>/</del>				
Magnesium	36.		_				
Manganese	< 0.05						
Molybdenum		,	_				
Nickel	<0.1		_				
	<del></del>						
LAB COMMEN	TS:						dicipit
For OCD Us		In look		$\wedge \Lambda$			1- ashly
	Notified:	<i>19/88</i> 10	CAP Analy	st <u>u</u>	R	eviewer_	usney
Phone	or tetter?			////	- /2-2 -	(	1 2/4/6
	Initials:	Da Da	ate Analy	zed 6	7/8 <u>8</u> D	ate Reve	jved 8/10/88





□ 011

□ 012

PCB

**PHENOL** 

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

#### **ANALYSIS REQUEST FORM**

Contract Lab An	A LAB			_ Contract No		· · · · · · · · · · · · · · · · · · ·	
OCD Sample No.	90725 182	9					
Collection Date Collection		_"					
7 25 89 183	29 Boys	R	e construire a service per				/OCD
SITE INFORMATION							
Sample location	NAVASO	REP	INGR	Y + EAS	r Pon	23	Marie 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Collection Site Description				20			
E05	1 Side appr	esite (	Xb#	7 well			
	00		No construction on the control		ship, Range, Sec	_	
	and the state of t	make in a contract that is not a part of the part of	President to the second of the second	1	7 5+26	5 5+61+	71-1-
	ENTAL BUREAU						
REPORT PO Box 208	NSERVATION DIVISION R	1	SAMPLE	FIELD TREATME	NT — Check	oroper boxes	1
TO A	M 87504-2088		No. of sam	ples submitted: 2	VIZIS	). 	
SAMPLING CONDITION	ONS Waterlevel 7.6/		NI F:			ne filter	
☐ Bailed ☐ Pump Dipped ☐ Tap		gallore	PI	F: Pre-filtered w/45	4 membrane filte	r	·
pH(00400)	Sample type GRA	B	☐ A:	A: No acid added HCL		3	
Water Temp. (00010)	Conductivity (Uncorrecte	d) / O O _ //m				A: 4ml fuming HNO <sub>3</sub>	auueu
26.5	Conductivity at 25° C	m p.c	FIELD COM	MMENTS:			
Car	water str	<del></del>	17 17	dos		<u> </u>	
	water, Mi	9 // 6	- JULKI	37X(F)		<u> </u>	What
			<del></del>	······································			
						<del></del>	
LAB ANALYSIS REQ	UESTED:						
ITEM DESC	METHOD	ITEM	DESC	METHOD	ITEM	DESC	METHOD
□ 001 VOA	8020	<b>□</b> 013	PHENOL	604	□ 026	Cd	7130
□ 002 VOA	602	<b>□</b> 014	VOC	8240	□ 027	Pb	7421
003 VOH 004 VOH	8010	□015	VOC	624	□ 028 □ 024	Hg(L)	7470
□ 005 SUITE	601 8010-8020	□016 □017	SVOC SVOC	8250 625	□ 031 □ 032	Se ICAP	7740 <b>60</b> 10
□ 006 SUITE	601-602	□017 □018	VOC	8260	☐ 033	CATIONS/ANIONS	
□ 007 HEADS	SPACE	<b>□</b> 019	SVOC	8270	034	N SUITE	
□ 008 PAH	8100	□020	O&G	9070	□ 035	NITRATE	
☐ 009 PAH ☐ 010 PCB	610 8080	□ 022 □ 023	AS Ba	7060 7080	□ 036 □ 037	NITRITE AMMONIA	

□ 024 □ 025 Cr

Cr6

7190

7198

□ 038

TKN

OTHER

608

8040



#### 2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214/984-0551

Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

08/17/89

BECTTVED

Environmental Bureau NM Oil D. PO Box 2088 Santa Fe, NM 87504

AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Sample Identification: OCD East Pond 3 Navajo Ref. Flow or other on site data: 4 Vials Clear, Strong HC Odor

149770

Collected by: Boyer

Date & Time Taken: 07/25/89 1829

Additional Sample Information: Lab Sample Number:

175-26E-01-4 Dipped NF A 6.5+ Temp 26.5 NL 7.61 Cond 7100

Received: 07/29/89

PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
1,1,1-Trichloroethane, ug/l EPA Method 8010	<b>&lt;</b> 5		<b>08/65/89 2937</b>	ВР
1,1,2,2-Tetrachloroethane, ug/1 EPA Wethod 8010	<b>(</b> 5		<b>08/05/89 2037</b>	ВР
1,1,2-Trichlorcethane, ug/l EPA Wethod 8010	<b>(</b> 5		98/95/89 2937	BP
1,1-Dichloroethane, ug/l EPA Method 8010	(5		08/05/89 2037	ВР
1,1-Dichloroethene, ug/l EPA Method 8010	(1		98/95/89 2937	BÞ
1,2-Dichloroethans, ug/l EPA Method 8010	<b>(</b> 5		98/95/89 2 <b>9</b> 37	BÞ
1,2-Dichloropropane, ug/l EPA Method 8010	(5		<b>08/05/89 2037</b>	BÞ
2-Chloroethylvinyl ether, ug/l EPA Method 8010	(10		98/ <del>8</del> 5/89 2037	Bb
Benzene, ug/l EPA Method 8020	289		<b>08/05/89 2037</b>	ВР
Browodichloromethane, ug/l EPA Method 8010	<b>(</b> 5		<b>98/95/89 2937</b>	ВР



#### 2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214/984-0551

Analytical Chemistry • Waste Treatment & Disposition Equipment

AUG 2 1 1989

Lab Sample Number:

149770 Continued

OIL CONSERVATION DIV. SANTA FE Page 2

	PARAMETER:	RESULTS	QUALITY CONTROL	ANA ON	LYZED AT	ANALYST
	Bromoform, ug/l EPA Method 8910	(5		08/65/89	2937	Bb
	Bromomethane, ug/l EPA Method 8010	(10)		08/05/89	2037	Вр
	Carbon Tetrachloride, ug/l EPA Method 8010	(5		08/95/89	2037	Bb
	Chlorobenzene, ug/l EPA Method 8010	(5		98/95/89	2037	Bb
	Chloroethane, ug/l EPA Wethod 8010	(19		08/05/89	2037	Bb
)	Chloroform, ug/l EPA Hethod 8010	(5		08/05/89	2037	BÞ
	Chloromethane, ug/l EPA Method 8010	(10		08/05/89	2037	Bb
	Cis-1,3-Dichloropropene, ug/l EPA Method 8010	<b>(</b> 5		08/65/89	2037	ВР
	Dibromochloromethane, ug/l EPA Method 8010	<b>(</b> 5		08/05/89	2037	Bb
	Ethyl benzene, ug/l EPA Hethod 8920	28		08/05/89	2037	Bb
	Freon, ug/1 EPA Method 8010	<b>(</b> 5		08/05/89	2037	BÞ
	Methylene Chloride, ug/l EPA Method 8010	(5		08/05/89	2037	BP
	Tetrachloroethene, ug/l EPA Method 8010	(5		08/65/89	2037	ВР
	Toluene, ug/l EPA Method 8020	259		08/05/89	2037	Bb



#### 2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214/984-0551

Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

OF WED

Lab Sample Number:

149770 Continued

AUG 2 1 1989	
QUALITYEDVATIANGLYZED	ANALYST

Page 3

PARAMETER:	RESULTS	QUALLITISERVATION YZED CONTROLANTA FEON AT	ANALYST
Trans-1,2-Dichloroethene, ug/l EPA Method 8010	<b>(5</b>	<b>98/95/89 2037</b>	Bb
Trans-1,3-Dichloropropene, ug/l EPA Method 8010	(5	<b>98/95/89 2937</b>	ВР
Trichloroethene, ug/l EPA Method 8010	(5	98/95/89 29 <i>3</i> 7	Bb
Vinyl Chloride, ug/l EPA Method 8010	(1	98/65/89 2937	Bb
Xylenes, ug/l EPA Method 8020	(10)	98/65/89 2937	Bb

C. H. Whiteside Ph.D. President

W MEXICO

Albuquerque, NM 87106 841-2570

54 H EN	88-	0	7	8	9	-(	

REPORT TO:	David Boyer	s.L.D. No. OR- 789 A+B
	N.M. Oil Conservation Division	DATE REC. 6-3-88
•	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY 3
PHONE(S):	827-5812 user	R CODE: 18 12 12 13 15
SUBMITTER:	David Boyer	CODE: 2 6 0
SAMPLE COLLE	ction code: (YYMMDDHHMMIII) $ 8 8 0 6 0 $	11/10/010/12/18/
		CODE:
COUNTY: EC	Gly ; CITY: DRTESTERILITEDIN	copt
LOCATION COD	E: (Township-Range-Section-Tracts)	E+O    .  (10N06E24342)
	UESTED: Please check the appropriate box(es) below to indic	ate the type of analytical screens
required. Whenev	er possible list specific compounds suspected or required ERVA	TION DIVISION XTRACTABLE SCREENS
<u> </u>	tic Purgeables (1-3 Carbons)	Aliphatic Hydrocarbons
·	-	Organochlorine Pesticides
(765) Mass (766) Trihal	· · · · · · · · · · · · · · · · · · ·	Base/Neutral Extractables Herbicides, Chlorophenoxy acid
·—·		Herbicides, Triazines
	<u> </u>	Organochlorine Pesticides
		Organophosphate Pesticides
	. (767)	Polychlorinated Biphenyls (PCB's)
		Polynuclear Aromatic Hydrocarbons
		SDWA Pesticides & Herbicides
Remarks: NO	THCI preserved	
FIELD DATA:	7/4) 7/2	
	onductivity= 1600 umho/cm at 14°C; Chlorine Residual	
	mg/l; Alkalinity=mg/l; Flow Rate	<del></del>
	ft.; Depth of wellft.; Perforation Interval	ft.; Casing:
Sampling Location	on, Methods and Remarks (i.e. odors, etc.)  (Pond 3)  (Pond 3)	te OCD#7 Well
activities.(signatu This form accon	ne results in this block accurately reflect the results of my fiere collector):  Methodopanies  Septum Vials,  Glass Jugs, and/or	d of Shipment to the Lab: Tall (A)
Samples were pr	eserved as follows:  No Preservation; Sample stored at room temperature.	
·	Sample stored in an ice bath (Not Frozen).	
<b>──</b> ¬	Sample Preserved with Sodium Thiosulfate to remove chlorin	e residual.
	nis sample was transferred from	to
at (location)	on	/ and that
the statements i	n this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes No
Signatures		
<del></del>		
For OCD U	se: Date Owner Notified	Letter?Initials

### ANALYSES PERFORMED

LAB. No.: OR- 789

#### THIS PAGE FOR LABORATORY RESULTS ONLY

PURGEABLE SCREENS  [ (753) Aliphatic Purgeables (1-3 Carbons)  [ (754) Aromatic & Halogenated Purgeables  [ (765) Mass Spectrometer Purgeables  [ (766) Trihalomethanes  Other Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (761) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides						
COMPOUND(S) DETECTED	CONG. [PPB]	COMPOUND(S) DETECTED	CONC.					
halas mated amore bles	N.D.							
aromatie husavalles	10.10.							
anomagie puraficees		·						
olysed (	T.R.							
Ylolulae	Tel							
p+ m- xylene	6.5							
o-xylene	I.R.							
		1						
* DETECTION LIMIT * *	543/4	L DETECTION LIMIT L						
* DETECTION LIMIT * 5 43/2 + DETECTION LIMIT + ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT  T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)  [ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION  LABORATORY REMARKS: Jour compounds in the assenting series region  at approx 5 pps detected by the protocological detector but not identified.								
CERTIFICATE OF ANALYTICAL PERSONNEL  Seal(s) Intact: Yes No Seal(s) broken by:  I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis:  Date(s) of analysis:  Analyst's signature:  I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.								
Reviewers signature: Klaleshon								

REPORT TO:	David G. Boye LABOTORY
A C DO	New Mexico Oil Conservation Division  LAB NUMBER OR 6-334-14-15  4/12/85
	1 P. U. BOX 2000
71.03 m12.03	Santa Fe, NM 87501 85-0334 -C SCD PRIORITY 3
ALL CONTAIN	NERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".
	CERTIFICATE OF FIELD PERSONNEL
	e: Water Soil Other
	ly and/or Code No. Poul 3. N.E. Corner
l l	nty Navajo Refinery, Artesia Eddy Cty
	(date & time) 850410/1135 By (name) 1309eg / 13600
pH= 7.6;	Conductivity= 6900 umho/cm at 19 °C; Chlorine Residual=
Dissolved (	Oxygen= mg/l; Alkalinity= ; Flow Rate=
Sampling Lo	ocation, Methods & Remarks (i.e. odors etc.)
Jomp	le opposite ### #7 et NE corner Aromatizado (NEVILO#7 Well)
Ì	A AR
I certify t	that the statements in this block accurately reflect the results of my field observations and activities. Signed
II certify i	that I witnessed these field analyses, abservations and actavities and conc
i	tatements in this block. Signed Thiligh. Boca
	Shipment to Laboratory for Carry of ACCOMPANIES a septum vials with teflon-lined discs identified as:
specimen	; duplicate ; triplicate ; blank(s)
	mber glass jug(s) with teflon-lined cap(s) identified as
Containers	are marked as follows to indicate preservation (circle):
NP:	No preservation; sample stored at room temperature (~20°C). Sample stored in an ice bath.
P-Na <sub>2</sub> 0 <sub>3</sub> S <sub>2</sub> :	Sample preserved with 3 mg $Na_2O_3S_2/40$ ml and stored at room temperature.
	CERTIFICATE(S) OF SAMPLE RECEIPT
I (we) cer	tify that this sample was transferred fromt
	at (location)o
(date & tir	me) and that the statements in this block are correct.
	n of Sample Seal(s) Intact: Yes $\square$ No $\square$ .
Signature(	s)
7 ()	tify that this cample was two forms

I (we) certify that this sample was transferred from

(date & time) \_\_\_\_ and that the statements in this block are correct.

Disposition of Sample\_\_\_\_\_. Seal(s) Intact: Yes

Signature(s)\_\_\_\_\_

\_\_\_\_\_ at (location)\_\_\_\_\_ on

to

No 🔲 .

ANALYSES REQUESTED

LAB. No.: ORG- 334

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	QUALITATIVE	QUANTITATIV	EXTRACTABLE SCREENS
a l		ALIPHATIC HYDROCARBON SCREEN	<del>  ~</del>	1 -	ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN		1	CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
	ļ		<u> </u>	<del> </del>	
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS
			<del> </del>	-	
	ļ		<del> </del>	-	
<u> </u>	ļ			╄	
DEL	I DVG		1		1
KEM	IARKS	:			

COMPOUND [PPB] COMPOUND [PPB]

Palogenated purgentles none letected | rone let

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes NO. Seal(s) broken by:

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical dat on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 28 April 18 Analyst's signature: 1 Terminal Results for this sample and

with the statements in this block. Reviewers signature:



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 864 C

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED (d 3 8 NO.11) (-/983 CODE 5930 Collection DATE SITE Sample location NATE NO.11) (Sample location NATE NO.11)	00 🗆 59600 🖎 🔿	THER: 82	
8906101 INFORM- Navae	jolond-Ea	N Sia	Copposite ox 6#7
Collection TIME ATION Collection site description	Sn / ^	7) -	
Collected by - Person/Agency/  LOCAL DAY OND /OCD		onk 5	<u>)                                     </u>
The state of the s		77.3	चारकारिकारिका
ENVIRONMENTAL BUREAU		101	10/0/2017/1
SEND NM OIL CONSERVATION DIVISION	90	<del>    </del>	<del>- Ана - в 1988 III II -</del>
FINAL State Land Office Bldg, PO Box 208 REPORT Santa Fe, NM 87504-2088	10	<del>                                      </del>	
Attn: David Boyer	·		CONSERVATION DIVISION
ATTN:PAX-LGL.DUYET	######################################		SANTA FE
Phone: 827-5812		Station/ well code	
SAMPLING CONDITIONS	•	Owner	
Skailed □ Pump Water level □ Tap	Discharge		Sample type (Dalo
pH (00400) Conductivity (Uncorrected) μmho	Water Temp. (00010)	4 °C	Conductivity at 25°C (00094)  µmho
Field comments // // // // // //		<i>F</i>   0	μιιιο
Haydrocarton of	<del>}</del> :		777 **********************************
l			
SAMPLE FIELD TREATMENT — Check proper boxes			
No. of samples Whole sample . Filtered in	n field with $\Box$ A: 2	ml H <sub>2</sub> SO <sub>4</sub> /	l added
submitted (Non-filtered) Λ 0.45 μm	emorane niter		
□ NA: No acid added □ Other-specify: □ A:	5ml conc. HNO <sub>3</sub> add	ded 🗖	A: $4m1$ fuming $HNO_3$ added
ANALYTICAL RESULTS from SAMPLES			
NA Units Date analyz	From 🗐 , N	(A Sample	: Date
Conductivity (Corrected) 9282 μmho 7/5			Analyzed
,	Calcium	28	8  mg/1 + 7/18
☐ Total non-filterable			
residue (suspended)	W\  Potaceiim		30ma/1 7/5
(00530) mg/l	_		30mg/1_7/5
	Magnesium _	104	30mg/1 7/5 7.9mg/1 7/18
(00530) COther: Lab pH 7,75 mg/l 7/15	MagnesiumSodium	]04 10	30mg/1 7/5 4.9mg/1 7/8 590 mg/1 7/5
(00530)   C Other:   4 b p + 8   7,75   7/15     Other:   Other:	Magnesium Sodium Bicarbonate	]04  10	30mg/1 7/5 1.9mg/1 7/8 590 mg/1 7/5 67 mg/1 7/15
(00530)  ☐ Other: ☐	Magnesium	]04  10   1  20	30mg/1 7/5 7.9mg/1 7/8 390 mg/1 7/5 67 mg/1 7/5 50 mg/1 7/26
(00530)   Other:   4	Magnesium Sodium Bicarbonate Chloride Sulfate	100 14 1 20	30mg/1 7/8 30mg/1 7/8 390 mg/1 7/5 67 mg/1 7/15 50 mg/1 7/26 30 mg/1 7/26
(00530)  C Other:	Magnesium	100 14 1 20	30mg/1 7/5 7.9mg/1 7/8 390 mg/1 7/5 67 mg/1 7/5 50 mg/1 7/26
(00530)  C Other:	Magnesium Sodium Bicarbonate Chloride Sulfate	100 110 100 190 190 190 190	30mg/1 7/8 30mg/1 7/8 390 mg/1 7/5 67 mg/1 7/15 50 mg/1 7/26 30 mg/1 7/26
(00530)  Other:	Magnesium Sodium Bicarbonate Chloride Sulfate	100 110 100 190 190 190 190	30 mg/1 7/3 390 mg/1 7/3 390 mg/1 7/5 67 mg/1 7/26 50 mg/1 7/26 16 mg/1 6/30
(00530) mg/l  ☐ Other: ☐ Other: ☐ Other: ☐ Other: ☐ Other: ☐ Other: ☐ Mrtrate-N + Nitrate-N total (00630) mg/l  ☐ Ammonia-N total (00610) mg/l  ☐ Total Kjeldahl-N ( ) mg/l  ☐ Chemical oxygen demand (00340) mg/l  ☐ Total organic carbon	Magnesium Sodium Bicarbonate Chloride Sulfate Total Solid	100 110 20 193 5 (6)	30mg/1 7/8 30mg/1 7/8 390mg/1 7/8 390mg/1 7/5 30mg/1 7/26 30mg/1 7/26 46mg/1 -6/30 3.6 7/22
(00530) mg/l  ☐ Other: ☐ Othe	Magnesium Sodium Bicarbonate Chloride Sulfate Total Solide Chloride	100 100 193 193 100 Ba	30mg/1 7/5 1.9mg/1 7/8 390mg/1 7/5 67 mg/1 7/5 50 mg/1 7/26 16 mg/1 6/30 1.6 7/27
(00530)	Magnesium Sodium Bicarbonate Chloride Sulfate Total Solid	John James R	30 mg/1 7/8 690 mg/1 7/8 690 mg/1 7/5 690 mg/1 7/15 50 mg/1 7/26 16 mg/1 6/30 16 7/27  lance eported Reviewed by
(00530)	Magnesium Sodium Bicarbonate Chloride Sulfate Total Solide Chloride	John James R	30mg/1 7/5 1.9mg/1 7/8 390mg/1 7/5 67 mg/1 7/5 50 mg/1 7/26 16 mg/1 6/30 1.6 7/27
(00530)	Magnesium Sodium Bicarbonate Chloride Sulfate Total Solide Chloride	John James R	30 mg/1 7/8 690 mg/1 7/8 690 mg/1 7/5 690 mg/1 7/15 50 mg/1 7/26 16 mg/1 6/30 16 7/27  lance eported Reviewed by
(00530)	Magnesium Sodium Bicarbonate Chloride Sulfate Total Solide Chloride	John James R	30 mg/1 7/8 690 mg/1 7/8 690 mg/1 7/5 690 mg/1 7/15 50 mg/1 7/26 16 mg/1 6/30 16 7/27  lance eported Reviewed by

ANALYTE	CATIONS E MEQ.	PPM	DET. LIMIT	ANALYTE	ANIONS E MEQ.	PPM	DET.
Ca Mg Na K	14.37 8.62 73.51 0.77	288.00 105.00 1690.00 30.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	2.74 41.25 57.83	167.00 1980.00 2050.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00	       	NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
	97.27 Dissolved lance =	2113.00 Solids= 95.54%	     6146	W( Date o	101.81 No. out/By	4197.00 = 8801983	



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

#### **GENERAL WATER CHEMISTRY** and NITROGEN ANALYSIS

7 1 1								
PATE RECEIVED 4	12 85 N	AB ONC-1706	USER CODE 59300	o 🗆 59600 💢 c	THER: 82	235		
Collection DATE 85 04 10		SITE INFORM- ►	Sample location	E corner	Pond 5	3 N	asa	ip Refine
Collection TIME		ATION	Collection site description	Car de a y in	0.00 1	101 4	4-7	
Collected by — Person/A	Rose R	ca orb		Correr n		(U) *	<i>f</i>	~ · \ -
	9 /1/				7 Na	reiz	TA)00	()47 DATR
!	ENVIRONMENT	TAI BURFAU					v.v.~	×
		SERVATION DIV	ISION			g		
FINAL	State Land	Office Bldg,	, PO Box 208	8			···•	
REPORT TO	Santa Fe <b>,</b> 1	NM 87501				•••••••	<del>-</del>	
Attn:	David Boy	ver						
		,			Station/		<i></i>	
					well code	=		
SAMPLING CO	NDITIONS				Owner			
☐ Bailed	☐ Pump	Water level		Discharge	<u> </u>	Sample ty	/D9/* A	<i>b</i>
Dipped	□ Тар		•				GAR	18
pH (00400)	7/	Conductivity (Unco		Water Temp. (00010)	<u>م</u>	Conductiv	ity at 25°	'/ "'23 A I
	7.6		bb μmho		<b>9</b> °C	``	J 89	400 Jumho
Field comments	Stre	ma of t	M					2 0
		The contract of the contract o				***************************************		
***************************************			******************				<b>,</b>	
SAMPLE FIELD	TREATMEN	T — Check prope	r boxes	<u></u>				
No. of samples	/ □ NF	14/h - l l -	□ F: Filtered in	field with		Loddod	•	
submitted	Į INF	(Non-filtered)		mbrane filter	2 ml H <sub>2</sub> SO <sub>4</sub> /	L added		
MNA: No ac	id added 🗆 C	Other-specify:						!
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del></del>			
ANALYTICAL F	RESULTS from			.1			14 .44	
₩F, NA			Units Date analyze			_	Units	Date analyzed
☐ Conductivity (0 25°C (00095)	Corrected)	,	ımbo	Calcium (00915)	99		_ mg/l	5/2 5/2
25 0 (00035)		·	ımho	<ul> <li>Magnesium (00925</li> <li>Sodium (00930)</li> </ul>	, dasu,	2.0 07	_ mg/l _ _ mg/l _	4/16
☐ Total non-filtera				Potassium (00935)		. 3	_ mg/l _	4/16
residue (suspe (00530)	ended)		mg/l	Bicarbonate (00440		74.9	_ mg/l _	11 6/5
Other:	- CI	.18	Élio	Chloride (00940)		037.6 -	_ mg/l _	6/5
☐ Other:	<del></del>		<del></del>	Sulfate (00945)		62.	_ mg/l _	5/8
☐ Other:				Total filterable residu (dissolved) (70300)	ie <	752	mg/l _	5/29
			····	Other:		15.1	_ 111971 _	615
NF, A-H₂SO₄				VA F		31.0		5/3
☐ Nitrate-N+, Ni	trate-N			F, A-H <sub>2</sub> SO <sub>4</sub>				
total (00630)			mg/l	─	-N			
☐ Ammonia-N to	, ,		mg/l	dissolved (00631)			_ mg/l _	
( )			mg/l	Ammonia-N dissolv (00608)	red		ma/l	
☐ Chemical oxyg				☐ Total Kjeldahl-N			_ mg/l _	
demand (0034	•		mg/l	- ( )			_ mg/l _	
☐ Total organic c	arbon		mg/l	☐ Other:			-	
☐ Other:					[ D-1- 5		I Davis	and by
☐ Other:				Analyst	1 '	eported	Review	
boratory remark	rs ·					''   55		
1								
	***************************************	***************	***************************************					



New Mexico Health and Environ t Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

#### GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

Albuquerque, NM 87106 - (505) 841-2555 LAB NO. XX OTHER: CODE 82235 **59600** 59300 SITE INFORM-ATION CANET NEAT 21 ENVIRONMENTAL BUREAU NM OIL CONSERVATION DIVISION SEND FINAL REPORT State Land Office Bldg, PO Box 2088 Santa Fe, NM 87501 TO Attn: David Bover Station/ well code Owner **SAMPLING CONDITIONS** ☐ Bailed □ Pump Water level Discharge Sample type ✓ Dipped □ Тар pH (00400) Conductivity (Uncorrected) Water Temp. (00010) Conductivity at 25°C (00094) 6700 °C **umho** µmho Field comments SAMPLE FIELD TREATMENT — Check proper boxes No. of samples Whole sample Filtered in field with A: 2 ml H<sub>2</sub>SO<sub>4</sub>/L added ☐ NF: bmitted (Non-filtered) 0.45 µmembrane filter NA: No acid added Other-specify: **ANALYTICAL RESULTS from SAMPLES** NF, NA Units Date analyzed F, NA Units Date analyzed Conductivity (Corrected) Calcium (00915) mg/l 25°C (00095) umho ☐ Magnesium (00925) mg/l ☐ Sodium (00930) mg/l Total non-filterable ☐ Potassium (00935) mg/l residue (suspended) ☐ Bicarbonate (00440) mg/l (00530)□ Chloride (00940) mg/l Other: Sulfate (00945) mg/l ☐ Other: Total filterable residue ☐ Other: (dissolved) (70300) mg/l Other: MF, A-H<sub>2</sub>SO<sub>4</sub> F, A-H<sub>2</sub> SO<sub>4</sub> Nitrate-N + , Nitrate-N total (00630) mg/l ☐ Nitrate-N +, Nitrate-N Ammonia-N total (00610) mg/l dissolved (00631) mg/l Total Kjeldahl-N ☐ Ammonia-N dissolved 10,6 mg/l (00608)mg/l Chemical oxygen 300 Total Kjeldahl-N demand (00340) mg/l mg/l Total organic carbon □ Other: C Other: Analyst Date Reported Reviewed b □ Other: 258 atory remarks



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106

#### **HEAVY METAL ANALYSIS FORM**

Telephone: (505)841-2553

Date	1.3.00	Lab -	מנו פון	User				_	
Received	<u>017188</u>	No. +	7-24/	Code		2235		her:	
COLLECTION	DATE & T	IME:	yy mm d	d hh i	nm	COTT	ECTION	SITE	DESCRIPTION
			0810610	1100	7)	<del>- 707</del>	MARY	<u> </u>	-SUST SINO
COLLECTED B	X:					<u> (P</u>	mg S)	1/100	<del>\#</del> ->
				47.34		<u> </u>	most	to C	D 4 /
ro:			2000	35741 2		OWNE	<b>D</b> • 1/0-	1210	D 1 O. /a
				3/14-7	1,111	OWNE	K. 1000	20/2	Kegiswy
		(	NEIGH	~ 1Q'	18 IIM				
ENVTRON	MENTAL B CONSERVA and Offi E, NM	TREATT	12/2	C J. 12	ON SION	STTE	LOCATI	ON:	
NM OIL	CONSERVA	TION I	Noistvic	10 - 500	Olhin.		ty:		11
State I	and Offi	ce Blo	ig. L PO	Box 20	38			S. G. J.	<del>/</del>
SANTA F	E, NM	87504-	-2088	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	•	Township	p, Range, S	ection, T	ract: (10N06E24342)
(	17		2.34	-		14	1715+2	61E+C	W+41
ATTN: _	1. Soyl	1	-						
TELEPHO	NE: 827-	5812		STATI	ON/ WELL	CODE:			
	,				_				
			LATITUDE	, LONG	ITUDE: [_				
SAMPLING CO			Water	Torrole	Dica	h a mara 4			la Memas
☐ Baile ☑ Dippe		ump ap	water	TEAGT:	DISC	harge:		Samp	le Type:
	Conducti		Incorr.)	Wate	r Temp. (	000101	Conc	uct iv	ity at 25°C
, in (00 100)					- '	•	(000		10, 40 10 0
		7/00	) umho	1	40	С	,	,	umho
FIELD COMME	ENTS: /	luda	22 1 0		2.				
	77	900 2	COURT	9000	0)				
		•							
SAMPLE FIEL					LAB AN	alysis	REQUE	STED:	
Check prop			anna tach		30 TV -	<u> </u>			
☐ WPN: W			WPF: Wat			CAP Sc		ma+a1	if AA
Preserved Non-Filter	w/m/03	Filte	erved w/	TINO 3		equire		mecar	II AA
NON PITCEL	. eu	2 2 2 6 6	=		1 13 1	equite	<u> </u>		
		AN	<b>ALYTIC</b>	AL RE	SULTS	(MG/	L)		
ELEMENT	ICAP VAI		AA VAI		ELEME		ICAP V	ALUE	AA VALUE
Aluminum	<0.				Silic	on	0.9		
Barium	40.				Silve			0.1	
Beryllium	40.1				Stron	tium	4.4		
Boron	0.4				Tin	_	40		
Cadmium	20.1		□		Vanad	ium	4.		
Calcium	220.				Zinc		<	0.1	(_e
Chromium	40.		0.01	0	Arsen				0.59
Cobalt	20.0	<u>5</u> _			Selen				
Copper	1.62				Mercu	ry			□
Iron	0.1								<u> </u>
Lead Magnesium	<0.1	<del></del> .	<b>区</b> <0.0	L -					
Magnesium Manganese	97.					<del></del>			님
Molybdenum	40.1					<del></del>			片
Nickel	40.1		-	<del></del>				<del></del>	H
		<del></del>	-			· · · · · · · · · · · · · · · · · · ·			
LAB COMMENT	rs:								dicist.
									X
For OCD Use	B:	01	100		_ ^	P			711.
Date Owner	Notified	1: <u>8//</u>		ICAP An	alyst_	<u> </u>	Revi	ewer 👤	- wary
Pnone (	or Letter Initials		- 15 Per	<b>1</b> 242	alvzeď '	1/2/00	<b>70</b>	<b>D</b>	ved 8/10/187
	- init.1819	>= ルフル	1 / 1	MIP AT	a I VZPO	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	uate	KEVE]	. ven / /////////////////////////////////



New Mexico Health and Environ SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque. NM 87106 — (505) 841-2555



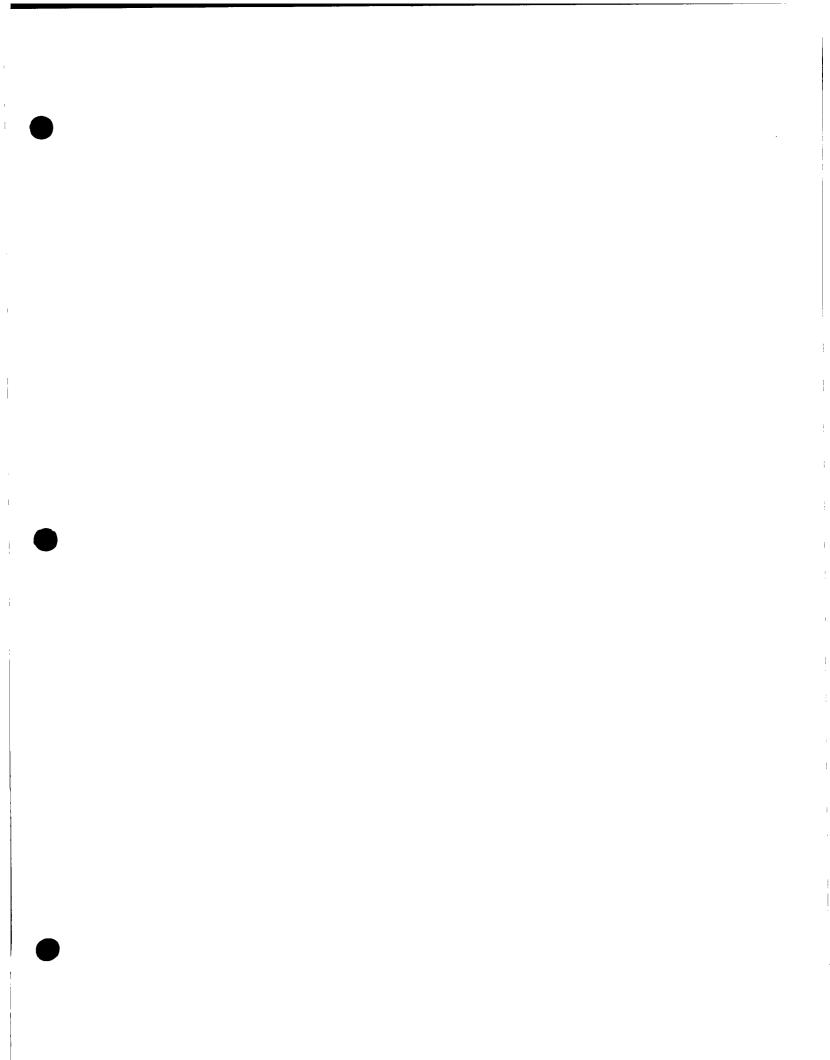
DATE	117	AR .	LISER					
	12 85 NO	O. /4m - 0694	ODE 5930		. 0111211	32235		
SION DATE		SITE INFORM- ▶	Sample location	VE corner	Ponk	75	Nava	po Refu
ollection TIME		ATION	Collection site descripti				10-0	
ollected by — Person/Ag	Bry /D	ica orb		on Corner	rear.	HU	7/	
	30 Let 10	ca u o	L					
F	NVTRONMENT	TAL BUREAU				***************************************	***************************************	
END N	M OIL CONS	SERVATION DI			***************************************			
			g, PO Box 208	38			******************************	
, 5	anta Fe, N				***************************************	***************************************		
Attn: _	David Boy	yer				***************************************		
					Station/ well code			
AMPLING CON	DITIONS				Owner			
	□ Pump	Water level		Discharge		Sampl	e type	
	□ Tap	-	_	Discharge		Sampl	"'GR)	0 R
oH (00400)	7.6	Conductivity (Unc	corrected)	Water Temp. (00010)	<i>I</i> C •	Condu	ctivity at 25	
			900 µmho		<u>/</u> 9 °			$\mu$ mh
ield comments	Stre	me od	07	******************************		***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		J	,					
	***************************************		**************************************				***************************************	
		T	ane havan					
	IHEAIMEN	<del> </del>						
No. of samples	TREATMEN	. Whole sample	Filtered i	n field with A:	2 ml H₂SC	0₄/L adde	ed	
bmitted	/ □ NF	Whole sample (Non-filtered)	F: Filtered i 0.45 μm	n field with	2 ml H₂SC	0₄/L adde	ed	
No. of samples	/ □ NF	. Whole sample	F: Filtered i 0.45 μm		2 ml H₂SC	0₄/L adde	ed	
No. of samples bmitted  NA: No acid	☐ NF d added 為C ESULTS from	Whole sample (Non-filtered) Other-specify:	XF: Filtered in 0.45 µm	embrane filter	2 ml H₂S0	0₄/L adde		
No. of samples pmitted  NA: No acid  NALYTICAL RI  OF, AA	d added ≫CESULTS from	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 μm	embrane filter		0₄/L adde	Units	Date analyzed
No. of samples  mitted  NA: No acid  NALYTICAL RI  OF, SA FIND	d added ≫CESULTS from	Whole sample (Non-filtered) Other-specify:	XF: Filtered in 0.45 µm	embrane filter  ed F, NA  Calcium (00915)		0₄/L adde	Units mg/l_	Date analyzed
No. of samples bmitted NA: No acid NALYTICAL RI OF, NA FINDS Conductivity (Co 25°C (00095)	d added SC ESULTS from	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 µm  A HNOS  Units Date analyz	embrane filter		0₄/L adde	Units	Date analyzed
No. of samples  mitted  NA: No acid  NALYTICAL RI  OF, AA FINO  Conductivity (Co 25°C (00095)	d added SC ESULTS from prrected)	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 µm  A HNOS  Units Date analyz	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (0093	925)	0₄/L adde	Unitsmg/lmg/lmg/lmg/l	Date analyzed
No. of samples  mitted  NA: No acid  NALYTICAL RI  OF, AA FINO:  Conductivity (Co 25°C (00095)  Total non-filterat residue (suspen	d added SC ESULTS from corrected)	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 µm  A HNOS  Units Date analyz	embrane filter  ed F, NA  Calcium (00915)  Magnesium (00930)  Sodium (00930)  Potassium (00930)  Bicarbonate (00	925) 95)		Units mg/lmg/lmg/lmg/l	Date analyzed
No. of samples bmitted  NA: No acid  NALYTICAL RI  OF, NA FINE  Conductivity (Co 25°C (00095)  Total non-filterat residue (suspen (00530)  Other:	in added Some Corrected)  Display and the state of the st	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 µm  A HNO3  Units Date analyz  _µmho mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00930) Bicarbonate (00940) Chloride (00945)	925) 35) 440)	D₄/L adde	Unitsmg/lmg/lmg/lmg/l	Date analyzed
No. of samples bmitted  NA: No acid  NALYTICAL RI  OF, NA FINO  Conductivity (Co 25°C (00095)  Total non-filterate residue (suspen (00530)  Other: Other:	in added Some Corrected)  Display and the state of the st	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 µm  A HNO3  Units Date analyz  _µmho	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Bicarbonate (00940) Chloride (00945) Gulfate (00945) Total filterable res	925) 95) 440) )		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed
No. of samples bmitted  NA: No acid NALYTICAL RI OF, NA HIVE Conductivity (Co 25°C (00095)  Total non-filterat residue (suspen (00530) Other: Other: Other:	in added Some Corrected)  Display and the state of the st	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 µm  A HNO3  Units Date analyz  _µmho mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable residussolved) (7036	925) 95) 440) )		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Date analyzed
No. of samples  mitted  NA: No acid  NALYTICAL RI  OF, AA FAVO:  Conductivity (Co 25°C (00095)  Total non-filterate residue (suspen (00530)  Other:  Other:  Other:  Other:  IF, A-H <sub>2</sub> SO <sub>4</sub>	added SC ESULTS from Corrected)	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 µm  A HNO3  Units Date analyz  _µmho mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable recedissolved) (7036) Other:	925) 95) 440) )		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed
No. of samples  bmitted  NA: No acid  NALYTICAL RI  OF, AA FINE  Conductivity (Co 25°C (00095)  Total non-filterat residue (suspen (00530)  Other: Other: Other: Other:  IF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitr	added SC ESULTS from Corrected)	Whole sample (Non-filtered) Other-specify:	F: Filtered i 0.45 µm  A HNOS  Units Date analyz  µmho  mg/l  s//7	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Potassium (00930) Bicarbonate (00940) Chloride (00940) Sulfate (00945) Total filterable reid (dissolved) (7036) Other: F, A-H <sub>2</sub> SO <sub>4</sub>	925)		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed
No. of samples    NA: No acid   NA: No acid   NALYTICAL RI   OF, NA FIND:   Conductivity (Co   25°C (00095)   Total non-filterate   residue (suspen   (00530)   Other:   Other:   Other:   Other:   IF, A-H <sub>2</sub> SO <sub>4</sub>   Nitrate-N + Nitr   total (00630)	added Notes of the content of the co	Whole sample (Non-filtered) Other-specify:  SAMPLES	F: Filtered i 0.45 µm  A HNO3  Units Date analyz  _µmho mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable residissolved) (7036) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitr	925) 35) 440) ) sidue 90)		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed
No. of samples  Demitted  NA: No acid  NALYTICAL RI  OF, NA FINO  Conductivity (Co 25°C (00095)  Total non-filterate residue (suspen (00530)  Other: Other: Other: Other:  Nitrate-N + Nitr total (00630)  Ammonia-N total	added SC ESULTS from Porrected) Die dedd) SCAN O	Whole sample (Non-filtered) Other-specify:  SAMPLES	F: Filtered i 0.45 µm  A HNOS  Units Date analyz  µmho  mg/l  s//7  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable res (dissolved) (7036) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitratics (10963) Ammonia-N dissolved (1063)	925) 35) 440) sidue 90) ate-N		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed
No. of samples bmitted  NA: No acid  NALYTICAL RI  OF, NA FINO  Conductivity (Co 25°C (00095)  Total non-filterate residue (suspen (00530)  Other: Other: Other: Other:  Nitrate-N + Nitr total (00630)  Ammonia-N total Total Kjeldahl-N (	added SC ESULTS from Corrected)  Die (ded)  SAN O	Whole sample (Non-filtered) Other-specify:  SAMPLES	F: Filtered i 0.45 µm  A HNOS  Units Date analyz  µmho  mg/l  s//7  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Potassium (00930) Bicarbonate (00940) Chloride (00945) Total filterable rese (dissolved) (7036) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitration dissolved (0063) Ammonia-N dissolved (0068)	925) 35) 440) sidue 90) ate-N		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed
No. of samples  Demitted  NA: No acid  NALYTICAL RI  OF, NA FINA  Conductivity (Co 25°C (00095)  Total non-filterate residue (suspen (00530)  Other:  Other:  Other:  IF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, Nitr total (00630)  Ammonia-N total Total Kjeldahl-N ()  Chemical oxyge demand (00340)	added SC ESULTS from Corrected)  Die dedd)  Saw O	Whole sample (Non-filtered) Other-specify:  SAMPLES	F: Filtered i 0.45 µm  A HNOS  Units Date analyz  µmho  mg/l  s//7  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable res (dissolved) (7036) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitratics (10963) Ammonia-N dissolved (1063)	925) 35) 440) sidue 90) ate-N		Units	Date analyzed
No. of samples  Demitted  NA: No acid  NALYTICAL RI  OF, NA FINA  Conductivity (Co 25°C (00095)  Total non-filterate residue (suspen (00530)  Other:  Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitr total (00630)  Ammonia-N total Total Kjeldahl-N ()  Chemical oxyge demand (00340	added SC ESULTS from Corrected)  Die dedd)  Saw O	Whole sample (Non-filtered) Other-specify:  SAMPLES	F: Filtered i 0.45 µm  A HNOS  Units Date analyz  µmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable reserved (dissolved) (7030) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitr	925) 35) 440) sidue 90) ate-N		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed
No. of samples  Demitted  NA: No acid  NALYTICAL RI  OF, NA FINA  Conductivity (Co 25°C (00095)  Total non-filterate residue (suspen (00530)  Other:  Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitr total (00630)  Ammonia-N total Total Kjeldahl-N ( )  Chemical oxyge demand (00340  Total organic ca ( ) Other:	added SC ESULTS from Corrected)  Die dedd)  Saw O	Whole sample (Non-filtered) Other-specify:  SAMPLES	F: Filtered i 0.45 µm  A HNOS  Units Date analyz  µmho  mg/l  s///  mg/l  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable reserved (dissolved) (7036) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Ni	925)		Units	
No. of samples brmitted  NA: No acid  NALYTICAL RI  OF, NA FINO  Conductivity (Co 25°C (00095)  Total non-filterat residue (suspen (00530)  Other:  Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitr total (00630)  Ammonia-N total Total Kjeldahl-N ()  Chemical oxyge demand (00340  Total organic ca ()  Other:	added SC ESULTS from Corrected)  Die dedd)  Saw O	Whole sample (Non-filtered) Other-specify:  SAMPLES	F: Filtered i 0.45 µm  A HNOS  Units Date analyz  µmho  mg/l  s///  mg/l  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable reduction (dissolved) (7036) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitration dissolved (0063) Ammonia-N dissolved (00608) Total Kjeldahl-N	925)	e Reported	Units   mg/l   mg/l	vea by
No. of samples bmitted  NA: No acid  NALYTICAL RI  OF, NA FALO  Conductivity (Co 25°C (00095)  Total non-filteratives (00530)  Other: Other: Other: Other: NF. A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitratotal (00630)  Ammonia-N total Total Kjeldahl-N (  Chemical oxygedemand (00340)  Total organic ca ( )	added SC ESULTS from Corrected)  Die deddod SCAN CORRECTED CORRECT	Whole sample (Non-filtered) Other-specify:  SAMPLES	F: Filtered i 0.45 µm  A HNOS  Units Date analyz  µmho  mg/l  s///  mg/l  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00930) Sodium (00930) Potassium (00940) Chloride (00940) Sulfate (00945) Total filterable reserved (dissolved) (7036) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Ni	925)		Units   mg/l   mg/l	

#### ICAP ·SCREEN

Lab Number: HM 694	Sample Code: NE Corner a
Date Submitted: 4/12/85	Date Reported: 6/18/85
By: Boyer/Baca	By: Jim Cably
<u>Determination</u>	Concentration (pg/ml)
A.Lum Lnum	۷,۱۵
Bartum	.11
Beryllium	<.10
Boron	.34
Cadmlum	<.10
Caletum	87.
Chromium	<.10
Cobalt	4.10
Copper	4.10
Lron	.11
Lead	4.10
Magnes Lum	62.
Mauganese	. /3
Molybdenum	<.10
Nickel	4.10
Stilcon	8.6
Silver	4.10
Strontlum	2.6
Tin	4.16
Vanadium	<.10
Yttrium	<.10
Zine	4.10

### ATOMIC ABSORPTION ANALYSES

Arsenic	.611	րց/ա <u>1</u>
Bolenium		րց/m1
Marcury		ոց/ա1



SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 841-2570

ψο
REPORT TO: David Boyer [ St.p. No. OR- 799 ATB
N.M. Oil Conservation Division DATE REC. 6-3-88
P. O. Box 2088 AUG 1 9 1980
Santa Fe, N.M. 87504-2088 DIL COMSERVATION DIVISIPATORITY
PHONE(S): 327-5812 SANTA USER CODE:   8   2   2   3   5
SUBMITTER: David Boyer CODE:  2   6   0
SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 181810161011116161019181
SAMPLE TYPE: WATER X, SOIL , FOOD , OTHER: CODE:
COUNTY: EXXY; CITY: WRJES/Q CODE:
LOCATION CODE: (Township-Range-Section-Tracts) 11715+21618+011+41 (10N06E24342)
ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.
PURGEABLE SCREENS EXTRACTABLE SCREENS
(753) Aliphatic Purgeables (1-3 Carbons) (751) Aliphatic Hydrocarbons
(754) Aromatic & Halogenated Purgeables (760) Organochlorine Pesticides  (765) Mass Spectrometer Purgeables (755) Base/Neutral Extractables
(766) Trihalomethanes (758) Herbicides, Chlorophenoxy acid
Other Specific Compounds or Classes (759) Herbicides, Triazines
(760) Organochlorine Pesticides
[ (761) Organophosphate Pesticides
[ (767) Polychlorinated Biphenyls (PCB's) [ (764) Polynuclear Aromatic Hydrocarbons
(762) SDWA Pesticides & Herbicides
Remarks: NOT HCI WESCHUES
The state of the s
FIELD DATA:
pH=; Conductivity=umho/cm atoC; Chlorine Residual=mg/l
Dissolved Oxygen= mg/l; Alkalinity= mg/l; Flow Rate
Depth to waterft.; Depth of wellft.; Perforation Intervalft.; Casing:
Sampling Location, Methods and Remarks (i.e. odors, etc.)
Novues Relinery - Poux Sample, NW Corney #5
pord by Narajo #3 well south
I certify that the results in this block accurately reflect the results of my field analyses, observations and
activities. (signature collector): Method of Shipment to the Lab: Stell (2)
This form accompanies Septum Vials, Jass Jugs, and/or
Samples were preserved as follows:  NP: No Preservation; Sample stored at room temperature.
P-Ice Sample stored in an ice bath (Not Frozen).
P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual.  CHAIN OF CUSTODY
I certify that this sample was transferred from
at (location) on and that
the statements in this block are correct. Evidentiary Seals: Not Sealed Seals Intact: Yes No

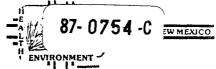
For OCD Use: Date Owner Notified

Phone or Letter?

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical scr	eening method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
[ (766) Trihalomethanes		[ (758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
	<del></del>	(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
_A	VALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
paleagnated suracables	N.D.		
grahatie purpeables		·	
Senzane 1	16		
tolune	14		
ethylbengene	T.R.		
n+m-xulene	13		
o-xulene	7		
0-sylene	<del></del>		
	1		
* DETECTION LIMIT * *	54/2	+ DETECTION LIMIT + +	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOV	E THE STATE	D DETECTION LIMIT	
		D DETECTION LIMIT (NOT CONFIRMED)	
		OR WITH APPROXIMATE QUANTITATION	
·	ŕ		
LABORATORY REMARKS:			<del></del>
			-
CERTIFIC	TATE OF ANALY	YTICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken	by: Mot	sealed date:	
		g and analysis of this sample unless otherwise note	d and
that the statements on this page accurately reflect			
Date(s) of analysis: 6/10/88 . Analyst's	signature:	Hary C. Elen	
I certify that I have reviewed and concur with the	he analytical resu	llts for this sample and with the statements in thi	s block.
Reviewers signature: A Meyerhan			

SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE



REPORT TO:	David Boyer	S.L.D. No. OR- 154-A·B
	N.M. Oil Conservation Division	DATE REC. 5-5-87
	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812 USEF	CODE: 8 2 2 3 5
SUBMITTER:	David Boyer	CODE: 12   6   0
SAMPLE COLLE	ection code: (YYMMDDHHMMIII) $ B 7 0 5 0 $	
SAMPLE TYPE:	WATER , SOIL , FOOD , OTHER:	CODE:
COUNTY: E	Loy ; CITY: DOTESTA	CODE:
f	E: (Township-Range-Section-Tracts)	+
ANALYSES REC	<b>UESTED</b> : Please check the appropriate box(es) below to indic	ate the type of analytical screens
required. Whenev	er possible list specific compounds suspected or required.  PURGEABLE SCREENS  E	XTRACTABLE SCREENS
(753) Alipha		Aliphatic Hydrocarbons
' <del></del> '. '		Organochlorine Pesticides
	Prince!	Base/Neutral Extractables
(766) Trihal	The state of the s	Herbicides, Chlorophenoxy acid
Other		Herbicides, Triazines
	(760)	Organochlorine Pesticides
	(761)	Organophosphate Pesticides
	(767)	Polychlorinated Biphenyls (PCB's)
	(764)	Polynuclear Aromatic Hydrocarbons
		SDWA Pesticides & Herbicides
Remarks:		·
FIELD DATA:		
pH=; Co	onductivity=8100umho/cm at 34,9°C; Chlorine Residual	=mg/l
Dissolved Oxyger	= mg/l; Alkalinity= mg/l; Flow Rate	
Depth to water	ft.; Depth of wellft.; Perforation Interval	ft.; Casing:
	n, Methods and Remarks (i.e. odors, etc.)	1 - A
Pond	3-North End-Navejo Refinay (3/1)	o Mile from N.E. Corner)
Dipper	2-olor, mostrees	
I certify that th	re results in this block accurately reflect the results of my fie	ld analyses, observations and
This form accon	re collector):	d of Dispinent to the Bab. 3000
	reserved as follows:	
	No Preservation; Sample stored at room temperature.	
P-Ice	Sample stored in an ice bath (Not Frozen).	
P-NaSO	Sample Preserved with Sodium Thiosulfate to remove chlorin	e residual.
CHAIN OF CU	STODY	
I certify that th	tis sample was transferred from	to
at (location)	on	: and that
the statements i	n this block are correct. Evidentiary Seals: Not Sealed 🔲 S	Seals Intact: Yes No No
Signatures		
- OCD 11	se: Date Owner Notified Phone of	or Letter? Initials

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical scre	ening method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Furgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		[ (755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
_ <u>AN</u>	IALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
arematic surgeables	remark		
The state of the s			
palogenated surgeables	$N_1D_1$		
			1
	<del>- </del>		
		•	
N.			
DETECTION LIMIT •   * Detection Limit •   *	249/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOV	E THE STATED	DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW			
[ RESULTS IN BRACKETS ] ARE UNCON			
( 1020021 11. 2121011210 ) 1222 011001	THUIDD MID,	AL WITH ALTHORNMAND COMMITTATION	
LABORATORY REMARKS: Filteen comp	ounds lat	- 2-4 AAL) and two (at 30-40 A	()
	. 12	foll of the self	<i>v</i>
no the aromodic screen sly	wo delles	ed wells the sholownession	
detector but not identify	ich. Sen	en late elutina comounds.	in
the 12 white the		in the tell the the	1
Made Co Suprimiles Fall	asine mi	fan dollered with the spire	reonizació
delector that las this	6 2-sall.	but not Medilied.	
CERTIFIC	ATE OF ANALY	TICAL PERSONNEL	
CERTIFIC.			
Seal(s) Intact: Yes No Seal(s) broken			
I certify that I followed standard laboratory process			and
that the statements on this page accurately reflect	the analytical re	sults for this sample.	
Date(s) of analysis: 5/29/87. Analyst's	signature:	ry C. Eden	
I certify that I have reviewed and concur with th			block.
Reviewers signature: Sucreal	ال	M 7 1 1987	



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 5	15  87	NOWC 1660	USER CODE 59300	59600 XX C	THER: 822	235		
Collection DATE (87) Q5 01		SITE	Sample location		Th EN	12	rain Re	Penin .
Collection TIME	†	INFORM- ► ATION		11/1/2	VU - 110	/ 1 4.QV	1000 179	NIVIL
Collected by Person/	Ingency / J.	7	Collection site description					J
Boy	J JAnd	erson/OCD			·····			
<i>).</i>	/- · · · · ·	·	-					
		NTAL BUREAU	/TCTON					
SEND FINAL	NM OIL CON	NSERVATION DI\ d Office Bldg	* BU BUX SUBS TISTON	3		***************************************		
REPORT TO	Santa Fe-	NM 87504-208	8	<del>.</del>				
	David B			mariona i ·				
Atm:		4 <del>J.C.</del> L	<del>^^+++++++++++++++++++++++++++++++++++</del>	*********************	Station	···		
Phor	ne: 827-5	812			Station/ well code			
SAMPLING CO	NDITIONS				Owner			
☐ Bailed	☐ Pump	Water level		Discharge	1	Sample type	e / / / .	4
Dipped	□ Tap	· ————				·	OKHE	ζ
pH (00400)	(strip	Conductivity (Unco	rrected)  µmho	Water Temp. (00010)	2 9 °C	Conductivity	y at 25°C (00094)	μmho
Field comments			, C F		1.7			F
	***************************************	***************************************			######################################			
				~~~~~				
SAMDI E EIEI I	TDEATME	NT — Check prope	or hoves					
No. of samples		M/h ala na mala		field with				
submitted		(Non-filtered)		mbrane filter	ml H₂SO₄/I	L added		
⊠-NA: No ac	id added $\square$	Other-specify:	□A:	5ml conc. HNO3 ad	ded 🗆 A	: 4m1 f	uming HNO,	added
L	<del> </del>			J				
ANALYTICAL F	TESULIS IN		Units Date analyzed	1			Do + -	
Conductivity (	Corrected)			From N.F.	NA Sample	:	Date Analyzed	;
25°C (00095)		8405	umho <u>5/13</u>	-} ,			, /	•
☐ Total non-filter	able			Calcium Potassium _	152	mg/1_	6/1	
residue (suspe			mall	Potassium	17.2	mg/7_	5/20	
(00530) ☑-Other:		7,25	mg/l	Magnesium _	54	mg/1	6/1	
☐ Other:				1, —3	1596	mg/1	5/翠 20	>
☐ Other:	-			Bicarbonate			5/12	
A-H <sub>2</sub> SO <sub>4</sub>				<b>-</b>			5/2	1
☐ Nitrate-N+, N	itrate-N			Chloride _		-		-
total (00630)	_		mg/l	_ Sulfate	/355		5/20	
☐ Ammonia-N to			mg/l	- Total Solid			5/27	
☐ Total Kjeldahl-	IV		mg/l	Fluor	ide 3	0.1	5/27	<del></del>
☐ Chemical oxyg							<b>,</b>	٠.
demand (0034 ☐ Total organic of			mg/l	- · <b></b>				<del></del>
( )		<del></del>	mg/l	- Cation/A	nion Bal	Lance		:
Other:				Analyst	Date Re		Reviewed by	
☐ Other:				-	6	· 1 _1	C9-	
Laboratory remark	«s	<u> </u>			<u></u>		· · · · · · · · · · · · · · · · · · ·	
<b></b>				***************************************				
	***************************************	***************************************		***************************************				
FOR OCD IIS	E Date	Owner Notifie		Phone or Lette	er?	In	itals	
LOK OCD OB	- Dare	J.711C1 110C11 #C	· -				-	

ANALYT	CATIONS E MEQ.	PPM	DET.	ANALYTI	ANIONS E MEQ.	PPM	DET. LIMIT
Ca Mg Na K	7.58 4.44 69.42 0.44	152.00 54.00 1596.00 17.20	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	2.10 28.23 52.72	128.00 1355.00 1869.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00	   	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
	81.88  Dissolved  lance =	1819.20 Solids= 98.59%	5328	W	83.05 C No.	3352.00 = 8701660	
		20,030			out/By	Q 6/2/87	_

ļ Ì ł 1

#### SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE Albuquerque, NM 87106 841-2570 75 H II ENVIRO

87-1352-C

REPORT TO:	David Boyer	SLD No OR- 1352 A9#
RELORI TO:	N.M. Oil Conservation Division	s.l.d. No. OR- 1352 A9 B DATE REC. 8-14-87
	P. 0. Box 2088	
	Santa Fe, N.M. 87504-2088	- PRIORITY
DUONE(S).		R CODE:   8   2   2   3   5
PHONE(S): SUBMITTER:	David Boyer	CODE:  2   6   0
	CCTION CODE: (YYMMDDHHMMIII)  8 7 0 8 1	· '''
ı	WATER , SOIL , FOOD , OTHER:	
	WATER 19, SOIL [, FOOD [], OTHER:	
	E: (Township-Range-Section-Tracts) 1/17/5+2/6	
	<b>QUESTED</b> : Please check the appropriate box(es) below to indic er possible list specific compounds suspected or required.	cate the type of analytical screens
		XTRACTABLE SCREENS
1		) Aliphatic Hydrocarbons
' <del>/</del> ' ` ´	-	) Organochlorine Pesticides ) Base/Neutral Extractables
(766) Trihal	-	) Herbicides, Chlorophenoxy acid
' <del>-</del> ' '	· · · · · · · · · · · · · · · · · · ·	) Herbicides, Triazines
	(760)	) Organochlorine Pesticides
		) Organophosphate Pesticides
		) Polychlorinated Biphenyls (PCB's)
<del>   </del>		) Polynuclear Aromatic Hydrocarbons
		) SDWA Pesticides & Herbicides
Remarks:	Detection limit 100, le	ss of possible
FIELD DATA:	•	
pH= <u>7</u> ; C	onductivity= <u>/0,00</u> umho/cm at <u>30</u> °C; Chlorine Residual	l=mg/l
Dissolved Oxyger	=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to water	ft.; Depth of wellft.; Perforation Interval	ft.; Casing:
Sampling Location	on, Methods and Remarks (i.e. odors, etc.)	
NEW PO	UN APPOSITE MW-7, NAVASO	REFLUERY. BIL ON
WATER	4 ON BANKS DUE TO CUT IN 7	OND DIKE
I certify that the activities (signatu	ne results in this block accurately reflect the results of my fier collector):  Methodrapanies  Septum Vials,  Glass Jugs, and/or	eld analyses, observations and
This form accom	npanies Z Septum Vials,/Glass Jugs, and/or	
Samples were pr	eserved as follows:	
( ' <del></del> '	No Preservation; Sample stored at room temperature.  Sample stored in an ice bath (Not Frozen).	
P-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		ne residual.
CHAIN OF CU		
I certify that th	nis sample was transferred from	to
at (location)	on	/ and that
the statements i	n this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes No
Signatures		
1		
For OCD U	se: Date Owner Notified Phone of	or Letter? Initials

LAB. No.: OR- 13572

#### THIS PAGE FOR LABORATORY RESULTS ONLY

Inis sample was tested using the analytical screen	ing method(s)	cnecked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		[ (755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
	<del></del>	(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
	<del></del>	(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
ANA	<u> </u>	L RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
al and a	1.29		15.27
Mamalie gurgeables			
tolueno!	TR. 37		
The same of the			
n-xylene	Fix 37		
helosomated purceables	# / 1)		
Multappar les pungables	N.D.		
			i i
		·	
		·	
* DETECTION LIMIT * *	1049/2	DETECTION I DATE	1
DETECTION DIMIT	10 7	+ DETECTION LIMIT +	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW	THE STATE	D DETECTION LIMIT (NOT CONFIRMED)	
[ RESULTS IN BRACKETS ] ARE UNCONFI	RMED AND/	OR WITH APPROXIMATE QUANTITATION	
AL D	0.4	4-21	
LABORATORY REMARKS: Fire larly	Mulsi	unasturated compounds	
at appear I not detected	Au 7	The plationing time detection	
1 colored in the	Ty.	m pro a me you a series	<del></del>
out no uterlifeed.			
			<del></del>
CERTIFICAT	E OF ANAL	YTICAL PERSONNEL	
		+	
Seal(s) Intact: Yes No Seal(s) broken by		slack date:	
I certify that I followed standard laboratory procedure			and
that the statements on this page accurately reflect the	he analytical i	results for this sample.	
Date(s) of analysis: 8/17/87. Analyst's sig	nature:	Harry la Elen	
I certify that I have reviewed and concur with the	analytical resu	ilts for this sample and with the statements in this	block.
Reviewers signature: Meyenlin			
	<del></del>		

#### SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE Albuquerque, NM 87106 841-2570

H =E	رجع).	
-A	87-076	NEW MEXICO
ENVIR	. 0/0/	<b>4</b> -C

REPORT TO:	David Boyer	S.L.D. No. OR- 764-A-B
	N.M. Oil Conservation Division	DATE REC. 5/5/87
•	P. 0. Box 2088	_
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812 USE	CR CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE: 12   6   0
SAMPLE COLLE	ECTION CODE: (YYMMDDHHMMIII)   8 7 0 4 2	91101951218121
	WATER SOIL , FOOD , OTHER:	CODE:
COUNTY:	Eddy ; CITY: Artesia	CODE:
LOCATION COL	E: (Township-Range-Section-Tracts) 1/17/5+2/6/	6+112+2114 (10N06E24342)
ANALYSES REC	QUESTED: Please check the appropriate box(es) below to ind	icate the type of analytical screens
required. Whenev	ver possible list specific compounds suspected or required.	PYTE ACT ADY B CODERNIC
(753) Alipha		EXTRACTABLE SCREENS  1) Aliphatic Hydrocarbons
(754) Aroma		O) Organochlorine Pesticides
(765) Mass	Spectrometer Purgeables [75]	b) Base/Neutral Extractables
(766) Trihal	tagent -	B) Herbicides, Chlorophenoxy acid
Other	Taggitt 1	9) Herbicides, Triazines
H —		Organochlorine Pesticides     Organophosphate Pesticides
		7) Polychlorinated Biphenyls (PCB's)
<u>'</u> '		4) Polynuclear Aromatic Hydrocarbons
<u> </u>		2) SDWA Pesticides & Herbicides
Parantes	1	
Remarks:		
PIELD DATA:		
pH=; C	onductivity= <u>7800</u> umho/cm at <u>2/5</u> °C; Chlorine Residua	al=mg/l
Dissolved Oxygen	m=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to water	ft.; Depth of wellft.; Perforation Interval	- ft.; Casing:
	on, Methods and Remarks (i.e. odors, etc.)	0-1 (11)
Viely 9	Er, Navajokebinery, New Por	12,5, bank Not well #
Water	Brownish, dear, for sheep	
I certify that t	he results in this block accurately reflect the results of my fi	ield analyses, observations and
activities.(signatu This form accor	npanies Septum Vials, Glass Jugs, and/or	od of Shipment to the Lab: Stole Car
ĺ	reserved as follows:	1
☐ NP:	No Preservation; Sample stored at room temperature.	•
P-Ice	Sample stored in an ice bath (Not Frozen).	
P-Na_S_O_ CHAIN OF CU	Sample Preserved with Sodium Thiosulfate to remove chlori	ne residual.
	his sample was transferred from	to
at (location)		/ : and that
	in this block are correct. Evidentiary Seals: Not Sealed	
Signatures		
Eas aca I	Jse: Date Owner Notified Phone	or Letter? Initials

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical sci	reening method(s)	checked below:	
PURGEABLE SCREENS	•	EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classe	8	(759) Herbicides, Triazines	
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
Ä —————		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
<u>A</u>	NALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic surgeables	semula		1
halogen flech pungable	a N.D.		<b> </b>
<b>\</b>			
	1	·	
		· ·	
* DETECTION LIMIT * *	10-49/2	+ DETECTION LIMIT +	
DETECTION DIMIT	10 90	# DETECTION DIMIT # 1	l1
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABO	VE THE STATED	DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELO	W THE STATED	DETECTION LIMIT (NOT CONFIRMED)	
[ RESULTS IN BRACKETS ] ARE UNCO	NFIRMED AND/	OR WITH APPROXIMATE QUANTITATION	
	- <del></del>		
LABORATORY REMARKS: Thrat comp	runds at	agara. 10 sas in the war	malis
arran residente	l. the	It to details to	1 4 . 4
None Fair A Market	<del>gg</del>	promonganion allien a	an mon
rolentifier.			
ומודימים	CATE OF ANALY	TICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken		Toppled date: 1	
I certify that I followed standard laboratory proc	edures on handling	and analysis of this sample unless otherwise not	ed and
that the statements on this page accurately reflect	t the analytical re	esults for this sample.	
Date(s) of analysis: 5/29/87. Analyst's	signature.	Horace C. P.D.	4
- /			
I certify that I have reviewed and concur with t	he analytical resul	ts for this sample and with the statements in thi	s block.
Reviewers signature: K. Shows	20 85 4	1007	
	JUN 1	1 1951	

REPORT TO:	David G. Boy	LAB TORY
CONTRACTOR OF THE STATE OF THE		visidn B NUMBER OR 6-33/-14,B
		85-0331 -C SUD PRIDRITY 3
1912 33	Santa Fe, NM 87501	SLD Users Code No. 82235
ALL CONTAIN	VERS WHICH THIS FORM ACCOMPANIES A	RE COLLECTIVELY REFERRED TO AS "SAMPLE".
	CERTIFICATE OF F	IELD PERSONNEL
	e: Water 🗫 Soil 🔲 Other	
Water Suppl	ly and/or Code No. Pond #4	(New Poul) Narajo Refinese
	nty Artesia, Eddy Ct	
I .	(date & time) <u>850410    1001</u>	
pH= <u>77</u> ;	Conductivity= <b>Barr</b> umho/cm at	. <u>19</u> °C; Chlorine Residual=
Dissolved C	Oxygen= mg/1; Alkalinity=	; Flow Rate=
Sampling Lo	ocation, Methods & Remarks (i.e. o	dors etc.)
Som	ple from New of were	from the second
I certify t	that the statements in this block	accurately reflect the results of my field
lanalyses, o	observations and activities. Signe	ed Asservations and activities and concur
with the st	tatements in this block. Signed_	sos, observations and activities and concur
Method of S	Shipment to Laboratory <u>Llon</u>	derried.
	ACCOMPANIESseptum via1s with ; t	teflon-lined discs identified as:
and an	mber glass jug(s) with teflon-line	ed cap(s) identified as,
and ot	ther container(s) (describe) are marked as follows to indicate	identified as
NP:	No preservation; sample stored	
MP-ICE:	Sample stored in an ice bath.	2 (10 m) and stored at years temperature
P-Na <sub>2</sub> 0332:	Sample preserved with 3 mg Na <sub>2</sub> C	$0_3$ S $_2$ /40 ml and stored at room temperature.
	CERTIFICATE(S) (	OF SAMPLE RECEIPT
I (we) cert	tify that this sample was transfer	rred from to
	at (loca	ation)on
(date & tim	me) and that t	the statements in this block are correct.
		Seal(s) Intact: Yes 🔲 No 🗖 .
Signature(	s)	
		rred fromto
		cion)on
(date & tin		ne statements in this block are correct.
1 .	n of Sample	
	s)	

		SES REQUESTED		***** ==		AB. No.: ORG-	
	EASE QUIRI	CHECK THE APPROPRIATE  ED. WHENEVER POSSIBLE				THE TYPE OF ANALYTICA SUSPECTED OR REQUIRED	
		SD. WILDING TOOOTDID	1201 01201110 0	C-1	I+1	I REQUIRED	•
QUAL ITAT IVE	QUANTITATIVE		J. –	IVE	QUANTITATIV	CVTDOOTO	<b>—</b>
LAT	ITA	PURGEAI	<b>ガレヒ</b>	QUAL ITAT IV	ITA	EXTRACTAL	<b>はした</b>
LII	INT	SCREE	NC	AL I	ANT	SCREEN	5
And	7∩Ò	SUREE	Cri	₽ B	J To	JCICELING	
		ALIPHATIC HYDROCARBON			<del>                                     </del>	ALIPHATIC HYDROCAR	
		AROMATIC HYDROCARBON HALOGENATED HYDROCARI		-		CHLORINATED HYDROC	
<b> </b>	<b></b>	GAS CHROMATOGRAPH/MAS			<del> </del>	HYDROCARBON FUEL S	
<b></b> -	<b></b>			1	<del>                                     </del>	ORGANOPHOSPHATE PE	
						POLYCHLORINATED BI	
		·				POLYNUCLEAR AROMAT	TIC HYDROCARBONS
				-	<del> </del>	TRIAZINE HERBICIDE	:S
				<del>                                     </del>			
		SPECIFIC COMP	POUNDS			SPECIFIC COMP	POUNDS
<u> </u>	<b></b>			<b> </b>	<del> </del>		· · · · · · · · · · · · · · · · · · ·
DEN	IARKS			Ш_	ــــــــــــــــــــــــــــــــــــــ		
KEI	MINKO	•		· · · · · · · · · · · · · · · · · · ·			
	<del>;</del>	А	NALYTICAL	RF	SUI	TS	
<b> </b>			<u> </u>				T
	COL	MPOUND	[PPB]	(	COMPOUND [PPB]		[LBB]
ha	loge	nated purgeables	rong detected	<u> </u>			
L	<u></u>	engelie	nonedetected				
	Zo	luene -	none detected		<del></del>		
	.07	tyl fengene	nonedetected				
	0-	Xylene	none detected				
	m-	Xylene	40				
	0-	Jylene	none detected				<u></u>
	<u> </u>	O .		*	DET	ECTION LIMIT	1 signife
	REMF	IRKS: Eleven aron	matic Top	er	EN	pounds were	also detected
1	at	were not ide	stifieds "			<u> </u>	
			<u> </u>				
			nominia de la composição	11 11==	017	DEDG ONES	
Sea	1(s)	Intact: Yes NO	ERTIFICATE OF AN . Seal(s) broke				late:
Ic	erti	fy that I followed star	ndard laboratory	proc	edur	es on handling and ar	alysis of this
sam	ıp1e	unless otherwise noted	and that the st	ateme	nts :	in this block and the	
		page accurately reflected of analysis:				ture: A Linner	, _
I c	erti	fy that I have reviewed	d and concur wit	h the	ana	lytical results for	this sample and
Wit	ii En	e statements in this b	lock. Keviewers	sign	atur	e: 12 Meyerben	
						V	,

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

	المرابع المرابع
	87
H EN	1370 -B

REPORT TO:	David Boyer	S.L.D. No. OR- 1370	B
	N.M. Oil Conservation Division	DATE REC. 8-14-	87
	P. 0. Box 2088	0.001 - 5.1507	
	Santa Fe, N.M. 87504-2088		
PHONE(S):	827-5812	USER CODE:   8   2   2   3   5	
SUBMITTER:	David Boyer	CODE: 12   6   0	
	CTION CODE: (YYMMDDHHMMIII) 1815	101811121/1/1501016131	
	WATER □, SOIL □, FOOD □, OTHE		
	CITY: ARTE		
	,	5+2 6 E+/ 2+     (10N06E243	342)
		s) below to indicate the type of analytical screens	•
required. Whenev	er possible list specific compounds suspected		
	PURGEABLE SCREENS	EXTRACTABLE SCREENS	
	tic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons	
' <del>'''                                 </del>	tic & Halogenated Purgeables	(760) Organochlorine Pesticides	
=::	Spectrometer Purgeables	(755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid	
(766) Trihale	Specific Compounds or Classes	(759) Herbicides, Chiorophenoxy acid	
Other	Specific Compounds of Classes	(760) Organochlorine Pesticides	
<u>'</u>		(761) Organophosphate Pesticides	
$\exists$		(767) Polychlorinated Biphenyls (PCB's)	
_		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
Remarks:	<del></del>		
Dissolved Oxygen Depth to water Sampling Location  WATER I certify that the activities (signature This form accomes Samples were presented to the samples we	+ ON BANKS DUE TO CU	Rate	
P-NaSO3	Sample Preserved with Sodium Thiosulfate		
		to	
at (location)			ıt
the statements i	n this block are correct. Evidentiary Seals: N		
Signatures			
	•		
For OCD U	se: Date Owner Notified	Phone or Letter? Initi	als

LAB. No.: OR- 1370

# THIS PAGE FOR LABORATORY RESULTS ONLY

(753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Classes			(761) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides	
COMPOU	ND(S) DETECTED	CONG.	COMPOUND(S) DETECTED	CONC [PPB]
Min and Oi	(00) - 100 0			IL I IDI
DIA A' MA	0C = 1000 ppB	3840/200		
FNUP W	UC = 10ggRs	10 210		
	<del></del>			<del></del>
		-		
		-		
• 1	DETECTION LIMIT . *		+ DETECTION LIMIT +	
	DETECTED AT OR ABOVE			
N D = NONE T R = DETEC [ RESULTS IN	sple 1000 s	FIRMED AND/O	R WITH APPROXIMATE QUANTITATION	
N D = NONE T R = DETEC [ RESULTS IN  Scanger SORATORY REMAI	BRACKETS   ARE UNCON	ATE OF ANALY	TICAL PERSONNEL	
T R = DETECT [ RESULTS IN Scange   SORATORY REMAid   Solution   So	BRACKETS ] ARE UNCON  ( CO A  RKS:  CERTIFICA  No . Seal(s) broken  ed standard laboratory proceed  this page accurately reflect	ATE OF ANALY: by:	TICAL PERSONNEL  Accident date:  and analysis of this sample unless otherwise noted sults for this sample.	l and
N D = NONE T R = DETECT [ RESULTS IN  SCARGE  BORATORY REMAIN  BI(s) Intact: Yes [ ertify that I followed the statements on e(s) of analysis:	CERTIFICATION CE	ATE OF ANALY: by:	TICAL PERSONNEL  Accident date:  and analysis of this sample unless otherwise noted sults for this sample.	



### New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

111					· · · · · · · · · · · · · · · · · · ·	
DATE RECEIVED 5	5 87 N	BWC1647	USER 59300	D □ 59600 🟋 (	OTHER: 82	235
Collection TIME.			Sample location A	ew Pond,	Naraj	io Refinery
Collected by — Person/A	nedcy /		Collection site description	1	<i>(</i> /	
Boyes	TAnden	100 /OCD			Neu	r Augustal pond.
F		. '				# 6
	ENVIRONMENT	TAL BUREAU SERVATION DIV	TSTON		100	ull Kank
FINAL	State Land	Office Bldg,	PO Box 208	8		***************************************
		NM 87504-2088				
Attn:	David Boy	yer			<u> </u>	······································
5.					Station/	
	e: 827-58	312			well code Owner	
SAMPLING COI		<b>1</b>		Y .		
D/Dipped	☐ Pump ☐ Tap	Water level		Discharge		Sample type GRAB
pH (00400)	フ	Conductivity (Uncor	rected) 3 800 jumbo	Water Temp. (00010)	1.5°€	Conductivity at 25°C (00094)  µmho
Field comments	See 1	roc cho	of Co	comment	:	
		V - )/W	w( ) = )	C VI VICEIVO		
SAMPLE FIELD	TREATMENT	T — Check prope	rboxes			· · · · · · · · · · · · · · · · · · ·
No. of samples	/   N	F: Whole sample	F: Filtered in 0.45 µme	field with	2 ml H <sub>2</sub> SO <sub>4</sub> /	L added
submitted	/	(Non-filtered)		· · · · · · · · · · · · · · · · · · ·		
☐ NA: No aci	d added 🗆 C	Other-specify:	□A:	5ml conc. HNO <sub>3</sub> ac	ided 🗖	A: 4ml fuming HNO <sub>3</sub> added
ANALYTICAL R	ESULTS from	n SAMPLES				,
NA NA			Jnits Date analyze	From,	NA Sample	: Date
Conductivity (C 25°C (00095)	orrected)	8372	umho <u>5//3</u> -		•	Analyzed
			7	Drealcium	164	mg/1 6//
☐ Total non-filtera residue (susper				CalciumPotassium _	17.5	2 mg/1 5/19
(00530)		7.80	mg/l			
Other:	-	7.60	5/12	Magnesium _		mg/1 5/19
☐ Other:				Sodium		
				☐ Bicarbonate	•	mg/1 5/12
A-H₂SO₄				Chloride _		$\frac{2 \text{ mg/1}}{5/26}$
☐ Nitrate-N+, Nit total (00630)	rrate-N		mg/l	_ Sulfate	1127	mg/1 5/20
☐ Ammonia-N tot	al (00610)		mg/l	Total Soli	ds <u>_                                   </u>	454mg/15/27
☐ Total Kjeldahl-N	J		mg/l	IN EJUDRE	- 17-	2.8 5/27
☐ Chemical oxyg						<del></del>
demand (0034)	D)		mg/l	_ : LJ <del></del>	· · · · · · · · · · · · · · · · · · ·	
☐ Total organic ca			mg/l	- A Cation/A	nion Ba	lance
☐ Other:				Analyst		eported Reviewed by
☐ Other:				<b>-</b>   ´		Z 87 CD
Laboratory remark	s				L	
<b></b>		~~~~				***************************************
FOR OCD USE	Date (	Owner Notifie	d	Phone or Lett	er?	Initals
TOY OUD OUT		· · · · · · · ·		_		

ANALYTI	CATIONS E MEQ.	PPM	DET.	ANALYTI	ANIONS E MEQ.	PPM	DET.
Ca Mg Na K	8.18 4.60 63.07 0.44	164.00 56.00 1450.00 17.20	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	2.82 23.48 42.79	172.00 1127.00 1517.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00	        -	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
	76.29 Dissolved lance =	1687.20 Solids= 110.43%	5454		69.09 C No. out/By	2816.00 = 8701647 \(\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texit{\$\text{\$\text{\$\texit{\$\texit{\$\}}}\$}\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texit{\$\text{\$\texi{\$\texi{\$\texi{\$	<u>}</u>



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555



DATE -1 I'-	- · · ·		LICED		•	
	5 87 N	0 ICAN 245	USER CODE 59300	o □ 59600 🛱 o	THER: 82	235
lection DATE		SITE	Sample location	rur Pond;	Narzy	io Relinery
Collection TIME		INFORM- ► ATION	/ v.	os propos	The Tay	The second second
Collected by — Person/A	Deacy C	<u> </u>	Collection site description	1		
13040	Thuder	on /0cd			IVEN	- Autorol work
. (		·		<del></del> ,		
	NVIRONMENT				501	uTh Rank
		SERVATION DIV				
REPORT		Office Bldg.		0		
		NM 87504-208			***************************************	······································
Attn:	David Boy	yer				
Phon	e: 827-58	110			Station/ well code	
		912			Owner	
SAMPLING COL		[Water to and				
	☐ Pump ☐ Tap	Water level		Discharge		Sample type GRAR
pH (00400)		Conductivity (Unco	rrected)	Water Temp. (00010)		Conductivity at 25°C (00094)
	<u>フ</u>		7800 umho	7	<u> </u>	μmho
Field comments	See 1	roc she	1 0p	comments		
	360	y O Spice	$O(1 + 12^2)$	Concord of		<del></del>
	·					
SAMPLE FIELD	TREATMENT	T — Check prope	er boxes	<u> </u>		
No. of samples		M/hala aamala	=	field with		
submitted	/   NF	(Non-filtered)	F: Filtered in 0.45 µme	mbrane filter	ml H <sub>2</sub> SO <sub>4</sub> /	Ladded
☐ NA: No aci	dadded □ C	Other-specify:	□A:	5ml conc. HNO, ad	ded A	A: 4ml fuming HNO3 added
				3	<b>V</b>	3
ANALYTICAL R	ESULTS from		Maine Date analysis	ail =		
NA NA			Units Date analyze	From,	NA Sample	e: Date
☐ Conductivity (C 25°C (00095)	Corrected)	ı	<u>.</u> پسho			Analyzed
35 6 (55555)	<del></del>	, , , , , , , , , , , , , , , , , , ,		Calcium		mg/1
☐ Total non-filtera residue (suspe						· · · · · · · · · · · · · · · · · · ·
(00530)			mg/l	Potassium _		mg/1
Other:		< 0.01		_ Magnesium _		mg/1
Other:	13997 <u>—</u>	0.013		- Sodium		mg/1
Other:	<b>P</b> —			Bicarbonate		mg/1
A-H <sub>2</sub> SO <sub>4</sub>				Chloride		
☐ Nitrate-N+, Ni	trate-N			<b>→</b> = -		•
total (00630)			mg/l	_ Sulfate		
☐ Ammonia-N to			mg/l	- ☐ Total Solid	s	mg/1
☐ Total Kjeldahl-I	· · · · · · · · · · · · · · · · · · ·		mg/l	_		
☐ Chemical oxyg			_			٠.
demand (0034			mg/l	_		
☐ Total organic c	a:0011		mg/l	- Cation/A	nion Ba	lance
☐ Other:				Analyst		eported Reviewed by
☐ Other:				-		9 187 Lin Palls
aboratory remark	'S	· · · · · · · · · · · · · · · · · · ·		•1	<u> </u>	- I - I - I - I - I - I - I - I - I - I
						$\sim$ $\sim$ $\sim$
				······		
FOR OCD US	E Date	Owner Notifie	2d	Phone or Lette	er?	Initals

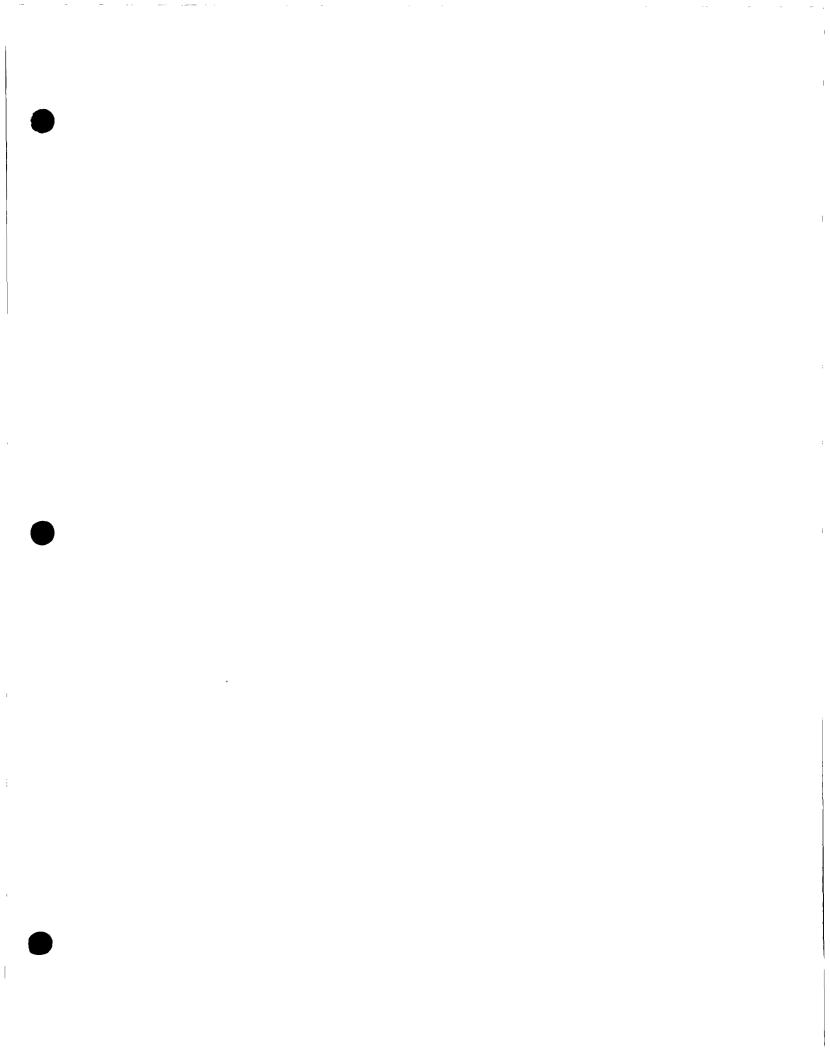
# ICAP SCAN

SLD Lab No	CCP 245
Analyst B	
Date Analyzed	5/7/87

Reviewed by: 1/9/87

Date Reported: 7/9/87

ELEMENT	ICAP VALUE(mg/l)	AA VALUE(mg/l)
Aluminum	40.1	
Barium	40.1	
Beryllium	<0.1	
Boron	D.3	
Cadmium	<0.]	**************************************
Calcium	140.	
Chromium	<0.1	0.013
Cobalt	40.05	<del>, , , , , , , , , , , , , , , , , , , </del>
Copper	40.1	
Iron	<0.1	
Lead	<u> </u>	20.01
Magnesium	60.	
Manganese	0.28	
Molybdenur	n <0.1	
Nickel	40.1	
Silicon	7.5	
Silver	<0.1	
Strontium	3.3	
Tin	40.1	
Vanadium	<0.1	
Zinc	40.1	
Arsenic		
Selenium		
Mercury		
		······································



Sampling Prior to WWTP Construction

	!		<u></u>		-	85-	0330
REPORT 7	TO:	David	G.	Boyer			

)	-C	!		
	U		- 1	٨

LAB0	RATORY	



New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

LAB NUMBER URG- 330-4.B SLD PRIORITY 3

SLD Users Code No. <u>8</u>シンス<u>5</u> FCTIVELY REFERRED TO AS "SAMPLE".

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

Sample Type: Water Soil Other	
Water Supply and/or Code No. Hower North Division APIO Wein	
City & County Navajo Refinery, Artesia, Eddy Cty.	
Collected (date & time 8504100835 By (name) Boyon Beca	
pH= <u>B.5</u> ; Conductivity= <u>3270</u> umho/cm at <u>45</u> °C; Chlorine Residual=	
Dissolved Oxygen=mg/l; Alkalinity=; Flow Rate=	
Sampling Location, Methods & Remarks (i.e. odors etc.)	
Very aromatic oder, light volatiles, little oil	ا رقا
Very aromalie over, light volables, little oil	
I certify that the statements in this block accurately reflect the results of my fie analyses, observations and activities. Signed	1d
I certify that I witnessed these field analyses, observations and activities and cor	ıcun
I certify that I witnessed these field analyses, observations and activities and corwith the statements in this block. Signed	
Method of Shipment to Laboratory Hand Carries	·
THIS FORM ACCOMPANIES septum vials with teflon-lined discs identified as: specimen; duplicate; blank(s)	,
andamber glass jug(s) with teflon-lined cap(s) identified asandidentified asidentified as	,
[Containers are marked as follows to indicate preservation (circle):	—.
NP: No preservation; sample stored at room temperature (~20°C). Sample stored in an ice bath.	
$P-Na_2O_3S_2$ : Sample preserved with 3 mg $Na_2O_3S_2/40$ ml and stored at room temperature	
CERTIFICATE(S) OF SAMPLE RECEIPT I (we) certify that this sample was transferred from	to
at (location)	on
(date & time) and that the statements in this block are correct.	
Disposition of Sample Seal(s) Intact: Yes \(\sigma\) No \(\sigma\)	
Signature(s)	
I (we) certify that this sample was transferred from	to
	on
(date & time) and that the statements in this block are correct.	
Disposition of Sample Seal(s) Intact: Yes \(\Boxed{\omega}\) No \(\Boxed{\omega}\)	
Signature(s)	

ANALYSES REQUESTED

LAB. No.: ORG-330

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

K R QUALITATIVE	K QUANTITATIVE	PURGEABLE SCREENS  ALIPHATIC HYDROCARBON SCREEN AROMATIC HYDROCARBON SCREEN HALOGENATED HYDROCARBON SCREEN GAS CHROMATOGRAPH/MASS SPECTROMETER	QUALITATIVE	QUANTITATIVE	EXTRACTABLE  SCREENS  ALIPHATIC HYDROCARBONS CHLORINATED HYDROCARBON PESTICIDES CHLOROPHENOXY ACID HERBICIDES HYDROCARBON FUEL SCREEN ORGANOPHOSPHATE PESTICIDES POLYCHLORINATED BIPHENYLS (PCB's) POLYNUCLEAR AROMATIC HYDROCARBONS
REM	ARKS	SPECIFIC COMPOUNDS  Bomone etc.			SPECIFIC COMPOUNDS

ANALYTICAL RESULTS							
COMPOUND	[PPB]	COMPOUND	[PPB]				
benzene	4165						
Lolvene	8265						
ethul bernene	1505						
0-xylene	475						
m-xylene	1730						
0-Xylene	1035						
hologenated purgeafles	none detected						
		* DETECTION LIMIT	50 mgm/2				
PEMARKS.	tis Files	Frankous de maro de	1. At 1				

REMARKS: Jour aromatic type compounds were also detected

	CERTIFICATE	OF	ANALYTICAL	PERSONNE:
--	-------------	----	------------	-----------

Seal(s) Intact: YesNO★. Seal(s) broken by:	date:
I certify that I followed standard laboratory procedures	on handling and analysis of this
sample unless otherwise noted and that the statements in	
on this page accurately reflect the analytical results for	or this sample.
Date(s) of analysis: 28 Analyst's signatur	ce it times
on this page accurately reflect the analytical results for Date(s) of analysis: 28 Analyst's signature I certify that I have reviewed and concur with the analytical results for Date(s) of analysis: 28 Analyst's signature I certify that I have reviewed and concur with the analytical results for Date(s) of analysis: 28 Analyst's signature I certify that I have reviewed and concur with the analytical results for Date(s) of analysis: 28 Analysis is a signature of the concurrence of the c	results for this sample and

with the statements in this block. Reviewers signature: K Meyerhem



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE	Luges								
ATE ECEIVED 4 12 85 NOWE-1713	USER CODE 59300	о □ 59600 <sup>ЖХ</sup> отні	<sub>ER:</sub> 822	235					
Collection DATE SITE	SITE Sample location A) Sile ADT EBELLIES T								
Collection TIME ATION	FORM- ATION								
	Collection site description	AT weir a	A SA	04 F 82	A Sie	El a-g			
Collected by — Person/Agency Borgs Race Col	<b>&gt;</b>								
The state of the s			Na	PIA-8	Rek	Linera			
ENVIRONMENTAL BUREAU									
SEND NM OIL CONSERVATION D	IVISION		pre	a to	Con	Philips			
State Land Office Bld	g <b>,</b> PO Box 208	8	,						
Santa Fe, NM 87501		ļ							
Attn: David Boyer									
/ \{\\\: ================================									
			ation/ iil code						
SAMPLING CONDITIONS		Ow	vner						
☐ Bailed ☐ Pump Water level		Discharge		Sample typ	20 0				
1 - c		Discriarge		Cample typ	~ 6di	<b>9</b> 5			
=11 (00 400)	corrected)	Water Temp. (00010)		Conductivi					
	70 µmho	45	°C	230.		AD umho			
Field comments Strang oflo	-1								
Survey out	<i>L</i>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
<u></u>						*************************			
		<del></del>							
SAMPLE FIELD TREATMENT — Check pro	<del></del>								
No. of samples Submitted NF: Whole sample (Non-filtered)		field with	IH₂SO₄/I	L added					
	0.40 µme	morane inter							
■ NA: No acid added □ Other-specify:									
■ NA: No acid added ☐ Other-specify:  ANALYTICAL RESULTS from SAMPLES  ■F, NA	Units Date analyze	d F, NA			Units	Date analyzed			
ANALYTICAL RESULTS from SAMPLES	Units Date analyze			-		5/2			
ANALYTICAL RESULTS from SAMPLES	Units Date analyze	d F, NA  Calcium (00915)  Magnesium (00925)	38	3.4	Units mg/l mg/l	5/2 5/2 8.85			
ANALYTICAL RESULTS from SAMPLES  #F, NA  Conductivity (Corrected) 25 °C (00095)		Calcium (00915) Magnesium (00925) Sodium (00930)	3g 3g	1.4 15	mg/l	5/2 5/2 8.85 4/16			
ANALYTICAL RESULTS from SAMPLES  #F, NA  Conductivity (Corrected) 25 °C (00095)  Total non-filterable		Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935)	3g 3g	1.4	mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16			
ANALYTICAL RESULTS from SAMPLES  #F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)		Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440)	3 <sub>1</sub> 3,	1.4 15 12 1.9	mg/l mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  #F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)	_μmho	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)	38 3, 3,	1.4 15 12 1.9 18.5	mg/l mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other:  Other:	_μmho	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)	3 <sub>1</sub> 3, 3,	1.4 15 1.9 1.9 18.5	mg/l mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other:	_μmho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)	3 <sub>1</sub> 3, 3,	1.4 15 12 1.9 18.5	mg/l mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other:	_μmho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	31 31, 15 8 170	1.7 12 1.9 48.5 14	mg/l mg/l mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub>	_μmho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	31 31, 15 8 170	1.4 1.5 1.7 1.9 1.8 1.9 1.9 1.9	mg/l mg/l mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub>	_µmho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub>	31 31, 15 8 170	1.7 12 1.9 48.5 14	mg/l mg/l mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25 °C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N total (00630)	_µmho _ mg/l _ mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N	31 31, 15 8 170	1.7 12 1.9 48.5 14	mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25 °C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub>	_µmho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631)	31 31, 15 8 170	1.7 12 1.9 48.5 14	mg/l mg/l mg/l mg/l mg/l mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N ()	_µmho _ mg/l _ mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N	31 31, 15 8 170	1.7 12 1.9 48.5 14	mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N () Chemical oxygen	_µmhomg/lmg/lmg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved	31 31, 15 8 170	1.7 12 1.9 48.5 14	mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)	_µmho _ mg/l _ mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	31 31, 15 8 170	1.7 12 1.9 48.5 14	mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N () Chemical oxygen	µmho mg/l mg/l mg/l mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608)  Total Kjeldahl-N	31 31, 15 8 170	1.7 12 1.9 48.5 14	mg/l	5/2 5/2 8.85 4/16 4/16 6/5			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon ( ) Other:	µmho mg/l mg/l mg/l mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N ( ) Other:	38 3, 15 8 170	1.4 (S) 12- 1.9 48.5 14 03 wone 35	mg/l	5/2 5/2 8.85 4/16 4/16 6/5 5/8 5/29 6/5 5/3			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon ( )	µmho mg/l mg/l mg/l mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	3 ( 3 ) 3 ) 15 8 17 ( 1 ) 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	3.4 (S) 12- 1.9 48.5 14 03 wone 3.5	mg/l	5/2 5/2 8.85 4/16 4/16 6/5 5/8 5/29 6/5 5/3			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon ( ) Other: Other:	µmho mg/l mg/l mg/l mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N ( ) Other:	3 ( 3 ) 3 ) 15 8 17 ( 1 ) 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	1.4 (S) 12- 1.9 48.5 14 03 wone 35	mg/l	5/2 5/2 8.85 4/16 4/16 6/5 5/8 5/29 6/5 5/3			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon ( ) Other:	µmho mg/l mg/l mg/l mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N ( ) Other:	3 ( 3 ) 3 ) 15 8 17 ( 1 ) 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	3.4 (S) 12- 1.9 48.5 14 03 wone 3.5	mg/l	5/2 5/2 8.85 4/16 4/16 6/5 5/8 5/29 6/5 5/3			
ANALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon ( ) Other: Other:	µmho mg/l mg/l mg/l mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N ( ) Other:	3 ( 3 ) 3 ) 15 8 17 ( 1 ) 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	3.4 (S) 12- 1.9 48.5 14 03 wone 3.5	mg/l	5/2 5/2 8.85 4/16 4/16 6/5 5/8 5/29 6/5 5/3			



New Mexico Health and Environment D SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE nt Department Albuquerque. NM 87106 — (505) 841-2555

# HOLY METELS GENERAL WATER CHEMISTRY WHITH HOGEN ANALYSIS

111							
CEIVED 4	12 85 NO	0. H MO697	USER _ 59300	59600 <del>X</del> X 0	THER: 82	235	
8504 11)		SITE INFORM- >	Sample location			<i>fluent</i>	
			Collection site description	AT weir	at st	17 71 A	ithat
0935 Collected by — Person/Ac	Borres Borres	Baco CCD		Ni west			
	γ				Na	rais Re	chinery
	NVIRONMENT		UTCTON			1/200	1 5/11/2 11 1 C
	M OIL CONS	SERVATION DI' Office Blda	• PO Box 208	3	122	es co co	3/wycex
	Santa Fe, N		,				
	David Boy						
, ((1)		<del></del>			Station/		
					well code		
SAMPLING CO	NDITIONS				Owner		
	☐ Pump ☐ Tap	Water level	•	Discharge		Sample type 6	105
pH (00400)	3.5	Conductivity (Unco		Water Temp. (00010) 4	5 ∘c	Conductivity at 25	°C (00094) µmho
Field comments	Stron	u otlos	, ]				
//	Source	y vaco				***************************************	***********************
d Bit and the grant of the galakes o	······································	/ .************************************				***************************************	
SAMPLE FIELD	TREATMEN	T — Check prope	er boxes	<del></del>		<del></del>	····
No. of samples	1 DNF	. Whole sample	F: Filtered in		ml H₂SO₄/	L added	
pmitted		(Non-filtered)	0.45 µme	mbrane filter			
☐ NA: No aci	d added 🕱(	Other- <i>specify:</i>	A HNOS				
ANALYTICAL R	ESULTS from	SAMPLES		<del></del>			· · · · · · · · · · · · · · · · · · ·
MF, MA HND:			Units Date analyze	d F, NA		Units	Date analyzed
☐ Conductivity (C	orrected)			☐ Calcium (00915)		mg/l	
25°C (00095)			μmho	<ul><li> — ☐ Magnesium (00925)</li><li> ☐ Sodium (00930)</li></ul>	<del></del>	mg/l _ mg/l _	
☐ Total non-filtera	-			☐ Potassium (00935)		mg/l	
residue (suspei (00530)	•		mg/l	☐ Bicarbonate (00440)	<del></del>	mg/l	<del></del>
(00530) Other:	op Seav			☐ Chloride (00940) ☐ Sulfate (00945)			
Other: AS	_0	.009 7m	g/l <u>5-17</u>	☐ Total filterable residue		mg/l _	
☐ Other:		<del></del>		(dissolved) (70300)		mg/l	
NF, A-H₂SO₄				C Other:			
☐ Nitrate-N+, Nit	trate-N			F, A-H <sub>2</sub> SO <sub>4</sub>			
total (00630)			. mg/l	─ ☐ Nitrate-N+, Nitrate-	N		
☐ Ammonia-N tot ☐ Total Kjeldahl-N	•		. mg/l	dissolved (00631)		mg/l	<del></del>
( )	<del></del>		. mg/l	Ammonia-N dissolve (00608)	<u>-</u>	mg/l	
☐ Chemical oxyg demand (0034)			. mg/l	☐ Total Kjeldahl-N	<del></del>		
☐ Total organic ca				( ) □ Other:		mg/l	
( ) □ Other:			, mg/l	-   -		-	
☐ Other:				Analyst		eported Review	
					[6]	18 85 Ju	- alby
Laporatory remark	(S					0	$\mathcal{U}$
				·			
			**************************				*************

# ICAP ·SCREEN

Lab Number: HM 697	Sample Code: N Siv. #
Date Submitted: 4/12/85	Date Reported: 6/18/85
By: Bayer/Baca	By: Jim Aslly
Determination	Concentration (µg/ml)
A.Lum Lnum	Z.10
Bartum	<.10_
Bery Ll.Lum	4.10
Boron	<.10
Cadmlum	4.10
Ca.Fc.Lum	130.
ChromLum	<.10
Cobalt	4.10
Copper	<.10
fron	. <.10
Lead	4.10
Magnes Lum	37.
Manganese	<.05
Molybdenum	<.10
NIcke1	<.10
Stilcon .	7.4
Silver	4.10
Strontium	1.5
TIn	<.10
Vanadium	<.10
Yttrium	<.10
Zinc	<.10

# ATOMIC ABSORPTION ANALYSES

Arsenic	. 009	յոց/ա1
Holenium		_րց/տ1
daraury		112/ml

	· · · =
LARO TORY	
REPORT TO: David G. Boyer LABORATORY	b 2 20 1 12
New Mexico Oil Conservation Division LAB NUMBER/ RG	- 208-1-5
P. O. Box 2088 85- 0328 -C SLD	PRIORITY 3
Santa Fe, NM 87501 SLD Users Code	
ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED T	O AS "SAMPLE".
CERTIFICATE OF FIELD PERSONNEL	
Sample Type: Water ☑ Soil ☐ Other	
Water Supply and/or Code No. Refinery Ditch at N. Div. Bo	xx Ty boundar
City & County Novis Repinery, Holesta	. 4
Collected (date & time) 8504 10 0855 By (name) Boyon	Boco
pH= 2 3; Conductivity= 7800 umho/cm at 28 °C; Chlorine Resid	ual=
Dissolved Oxygen= mg/1; Alkalinity= ; Flow Sampling Location, Methods & Remarks (i.e. odors etc.)	Rate= 300 apm
Sampling Location, Methods & Remarks (i.e. odors etc.)	, ,
Sample Grom weison N. Side of road crossing trapped oil, some lighter bractions moved	p. Wevr
Strong of some lighter brackens mores	rez wevz
I certify that the statements in this block accurately reflect the res	ults of my field
analyses, observations and activities. Signed The servations and activities of the servation of the servatio	7 Nities and concur
with the statements in this block. Signed Things. Back	violes and conce.
Method of Shipment to Laboratory Hand-Cannial	•
THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identificate ; triplicate ; blanks	
and amber glass jug(s) with teflon-lined cap(s) identified as	,
and other container(s) (describe) identified Containers are marked as follows to indicate preservation (circle):	as
to the state of th	

CERTI I (we) certify that this sample	FICATE(S) OF SAMPLE RECEIPT was transferred from	to
·		on
(date & time)	and that the statements in this block are correct.	•
Disposition of Sample	. Seal(s) Intact: Yes 🗆 No 🗖	
Signature(s)		
I (we) certify that this sample	was transferred from	to
	at (location)	on
(date & time)	and that the statements in this block are correct.	
Disposition of Sample	Seal(s) Intact: Yes 🗆 No 🗖	
Signature(s)		

No preservation; sample stored at room temperature (~20°C).

Sample preserved with 3 mg  $Na_2O_3S_2/40$  ml and stored at room temperature.

Sample stored in an ice bath.

ANALYSES	REQUESTE
	ンにないたつしたひっ

LAB. No.: ORG- 328

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

					[-]	
QUAL ITAT IVE	QUANTITATIVE	PURGEABLE SCREENS	OITAT TTATTUE		QUANTITATIV	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN				ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN				CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN				CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER				HYDROCARBON FUEL SCREEN
						ORGANOPHOSPHATE PESTICIDES
						POLYCHLORINATED BIPHENYLS (PCB's)
						POLYNUCLEAR AROMATIC HYDROCARBONS
						TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS				SPECIFIC COMPOUNDS
			$\bot$	_		
<u> </u>	<del> </del>		+			
-	-		+			
REM	IARKS	:			L	

HNHLYTICHL RESULTS									
[PPB]	COMPOUND	[PPB]							
nonesterted									
2700									
4510									
1110									
none Leterted									
1050		•							
530									
	* DETECTION LIMIT	25 ngm/l							
	[PPB] none sterted 2700 4510 1110 none setected 1050	[PPB] COMPOUND  none faterted  2700  4510  1110  pone faterted  1050  530							

REMARKS: Sixteen aromatic type compounds were also detected that were not identified.

CER	TIFICA	ATE OF	ANAI	LYTICAI	. PERS	ONNEL

Seal(s) Intact: YesNO_X. Seal(s) broken by:	date:
I certify that I followed standard laboratory procedures on handli	ng and analysis of this
sample unless otherwise noted and that the statements in this bloc	k and the analytical data
on this page accurately reflect the analytical results for this sa	imple.
Date(s) of analysis: 28 Apr. 3 May 85 Analyst's signature: 31 July 85	iner
I certify that I have reviewed and concur with the analytical resu	lts for this sample and
Date(s) of analysis: Shar 3 May S Analyst's signature: To results for this sa Date(s) of analysis: The same of the statements in this block. Reviewers signature: The same of the statements in this block. Reviewers signature:	enerten
	1



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

### **GENERAL WATER CHEMISTRY** and NITROGEN ANALYSIS

CEIVED 4 /2 85 NO.	Sample location	9300	- I -	0.1.1
ction IIME	INFORM- >	wastewale, Di	Ich, N. e.	ns of hopen
icted by — Person/Agency Boyck	Collection site descri	m Veis at B	iteh at	N END OF NA
	Buca or		not ino	y property
ENVIRONMENTA	I. BUREAU		ngmen	y property
NM OIL CONSE	RVATION DIVISION		N. Sule	ofrond
	ffice Bldg, PO Box 20	088	0-010:	11000 20
Santa Fe, NM			Mytery	o (Weer old)
Attn: <u>David Boye</u>	<u>r.</u>		blow	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			ation/	
MPLING CONDITIONS		<u>L</u>	vner	
	Vater level	Discharge	Sample ty	/ne / /
Dipped 🗆 Tap		2 300 gp	m	626
(00400)	conductivity (Uncorrected)	Water Temp. (00010)	Conductiv	vity at 25°C (00094)
	7000 µmh		°C   1460	DIS jumih
comments Strang	arometii oo	la .		
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
***************************************		^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		······································
ADI E CICLO TOCATIACNIT	- Check proper hoxes			
APLE FIELD I KEAIMEN I -	- Oncon propor boxes			
o. of samples	Whole sample Filtered	d in field with	LH <sub>2</sub> SO <sub>4</sub> /L added	
o. of samples	Whole sample Filtered	d in field with	l H₂SO₄/L added	
MPLE FIELD TREATMENT - lo. of samples	Whole sample (Non-filtered) F: Filtered 0.45 μ	( (A- ) m	I H₂SO₄/L added	
o. of samples J NF:  NA: No acid added Oth	Whole sample (Non-filtered) <b>y F</b> : Filtered 0.45 μ ner-specify:	( (A- ) m	l H₂SO₄/L added	
o. of samples phomitted ph	Whole sample (Non-filtered) <b>y F</b> : Filtered 0.45 μ ner-specify:	membrane filter	l H₂SO₄/L added	Units Date analyzed
o. of samples	Whole sample (Non-filtered) <b>F</b> : Filtered 0.45 μ ner-specify:	membrane filter	H₂SO₄/L added	mg/l _ 5/7/
o. of samples	Whole sample (Non-filtered) <b>F</b> : Filtered 0.45 μ ner-specify:	yzed F, NA  Calcium (00915)  Magnesium (00925)	208 53.5	mg/l 5/7 mg/l 5/2
o. of samples ubmitted NF:  NA: No acid added Other Conductivity (Corrected) 25°C (00095)	Whole sample (Non-filtered)  Prof: Filtered 0.45 μ  ner-specify:  AMPLES  Units Date analy	yzed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930)	208 53.5 -1175	mg/l 5/72 mg/l 5/2 mg/l 4/16
o. of samples abmitted NF:  NA: No acid added Other Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended)	Whole sample (Non-filtered)  PF: Filtered 0.45 μ  ner-specify:  MAPLES  Units Date analy  μmho	yzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)	20.8 53.5 	mg/l 5/7/ mg/l 5/2/ mg/l 4/16/ mg/l 4/16/
o. of samples bemitted	Whole sample (Non-filtered)  PF: Filtered 0.45 µ  ner-specify:  MAPLES  Units Date analy  pmo//	yzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)	208 53.5 -1175	mg/l 5/72 mg/l 5/2 mg/l 4/16
o. of samples ubmitted	Whole sample (Non-filtered)  PF: Filtered 0.45 μ  ner-specify:  MAPLES  Units Date analy  μmho	yzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)	208 53.5 -1175 8.47 1.0	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5
o. of samples abmitted NF:  NA: No acid added Other Other:  NA: No acid added Other:  NF: NA  Other: NA: No acid added Other:  NF:	Whole sample (Non-filtered)  PF: Filtered 0.45 µ  ner-specify:  MAPLES  Units Date analy  pmo//	wyzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue	208 53.5 1175 8.47 1.0 1789.6 1/62	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 5/8
o. of samples bemitted NF:  NA: No acid added Other NF:  ALYTICAL RESULTS from SIF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: OH	Whole sample (Non-filtered)  PF: Filtered 0.45 µ  ner-specify:  MAPLES  Units Date analy  pmo//	wyzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)	208 53.5 1175 8.47 1.0 1789.6 1/62 44/3	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 6/5
o. of samples ubmitted  NA: No acid added Other NF:  NA: No acid added Other:  NA: No acid added Other:  NA: No acid added Other:  NF: NA  Other: NA  NF:	Whole sample (Non-filtered)  PF: Filtered 0.45 µ  ner-specify:  MAPLES  Units Date analy  pmo//	wyzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue	208 53.5 1175 8.47 1.0 1789.6 1/62	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 5/8
O. of samples Jabmitted  NA: No acid added Other Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N	Whole sample (Non-filtered)  PF: Filtered 0.45 µ  ner-specify:  MAMPLES  Units Date analy  pmho  mg/l	wyzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)	208 53.5 475 8.47 1.0 1789.6 1/62 44/3	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5
D. of samples abmitted  NA: No acid added Other Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N total (00630)	Whole sample (Non-filtered)  PF: Filtered 0.45 \( \mu\)  Mer-specify:  SAMPLES  Units Date analy  \[ \mu\mathrm{mg/l} \]  mg/l	membrane filter  yzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:	208 53.5 475 8.47 1.0 1789.6 1/62 44/3	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5
O. of samples ubmitted  NA: No acid added Other  ALYTICAL RESULTS from S  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)  Ammonia-N total (00610)	Whole sample (Non-filtered)  PF: Filtered 0.45 µ  ner-specify:  MAMPLES  Units Date analy  pmho  mg/l	membrane filter  yzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631)	208 53.5 475 8.47 1.0 1789.6 1/62 44/3	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5
O. of samples abmitted  NA: No acid added Other  ALYTICAL RESULTS from S  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)  Ammonia-N total (00610)	Whole sample (Non-filtered)  Prince F: Filtered 0.45 µ  Inter-specify:  SAMPLES  Units Date analy  pmho  mg/l  mg/l  mg/l	yzed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved	208 53.5 475 8.47 1.0 1789.6 1/62 44/3	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5 S/20
O. of samples ubmitted  INA: No acid added Other.  ALYTICAL RESULTS from Soft, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahl-N ( )  Chemical oxygen	Whole sample (Non-filtered)  PF: Filtered 0.45 µ  mer-specify:  MAMPLES  Units Date analy  µmho  mg/l  mg/l  mg/l  mg/l	yzed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608)	208 53.5 475 8.47 1.0 1789.6 1/62 44/3	mg/l 5/7/ mg/l 5/2/ mg/l 4/16/ mg/l 4/16/ mg/l 6/5/ mg/l 5/3 mg/l 5/3 mg/l 6/5 5/20
D. of samples abmitted  NA: No acid added Other  ALYTICAL RESULTS from S  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)  Ammonia-N total (00610) Total Kjeldahl-N (  Chemical oxygen demand (00340)	Whole sample (Non-filtered)  Prince F: Filtered 0.45 µ  Inter-specify:  SAMPLES  Units Date analy  pmho  mg/l  mg/l  mg/l	yzed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved	208 53.5 475 8.47 1.0 1789.6 1/62 44/3	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5 S/20 mg/l mg/l
O. of samples ubmitted  NA: No acid added Other Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)  Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon	Whole sample (Non-filtered)  Per-specify:  SAMPLES  Units Date analy  pmho  mg/l  mg/l  mg/l  mg/l  mg/l	yzed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608)	208 53.5 475 8.47 1.0 1789.6 1/62 44/3	mg/l 5/7 mg/l 5/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5 S/20
O. of samples ubmitted  NA: No acid added Other Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( )	Whole sample (Non-filtered)  PF: Filtered 0.45 µ  mer-specify:  MAMPLES  Units Date analy  µmho  mg/l  mg/l  mg/l  mg/l	membrane filter  yzed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	208 53.5 1175 8.47 1.0 1789.6 1162 4413 23.5	mg/l 5/7 mg/l 6/2 mg/l 4/16 mg/l 4/16 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5 S/20  mg/l mg/l
o. of samples ubmitted  NA: No acid added Oth ALYTICAL RESULTS from S  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon	Whole sample (Non-filtered)  Per-specify:  SAMPLES  Units Date analy  pmho  mg/l  mg/l  mg/l  mg/l  mg/l	membrane filter  yzed F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahi-N (	208 53.5 1175 8.47 1.0 1789.6 1/62 44/3 23.5	mg/l 5/7 mg/l 6/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5 S/20  Reviewed by
O. of samples ubmitted  I NA: No acid added Other:  ALYTICAL RESULTS from S  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon ( ) Other:	Whole sample (Non-filtered)  Per-specify:  SAMPLES  Units Date analy  pmho  mg/l  mg/l  mg/l  mg/l  mg/l	membrane filter  yzed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	208 53.5 1175 8.47 1.0 1789.6 1162 4413 23.5	mg/l 5/7 mg/l 6/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 6/5 mg/l 5/3 mg/l 6/5 S/20  Reviewed by



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

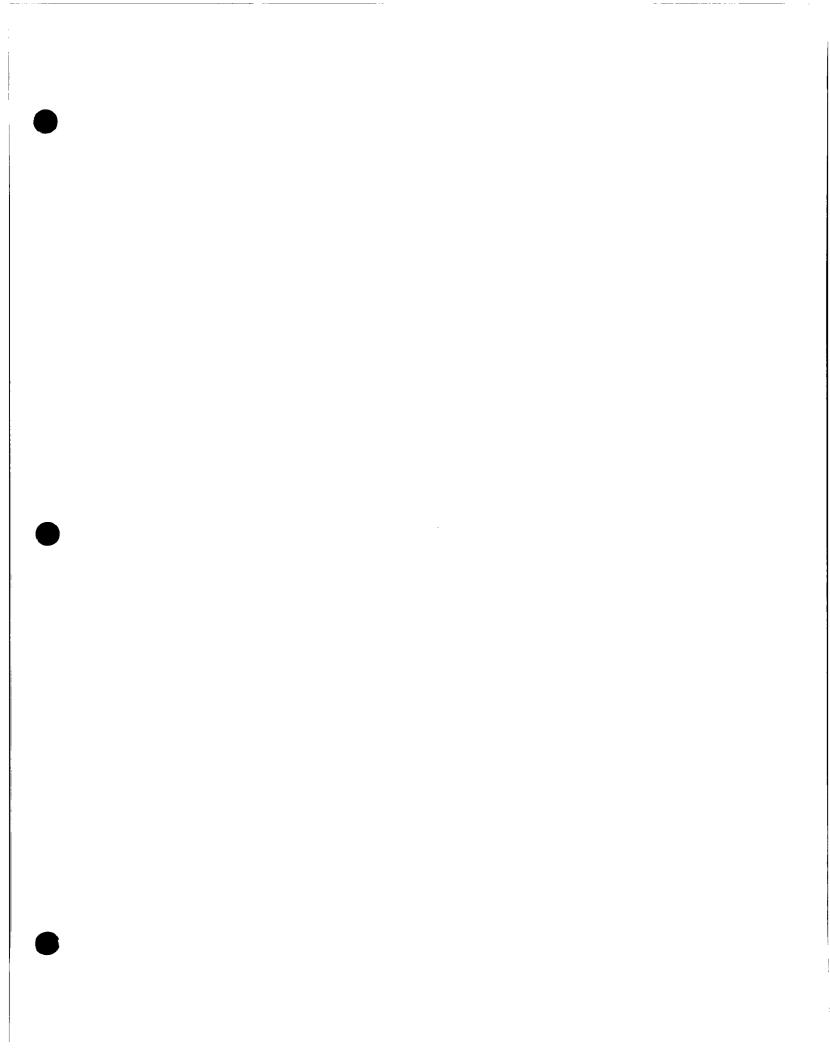
llected by Person/Agency Boye	R Roca as	site description	wein at	Sited	N. enk	ND OF NO
ND NM OIL CON				N.S Cra- Cra- Cra- Cra- Cra- Cra- Cra- Cra-	mery p isle of the Hing (Ne	reperty ron D run old
Bailed 🗀 Pump Dipped 🗀 Tap	Water level		Discharge ~ 300 g/	-111	Sample type	8-6
H (00400)	Conductivity (Uncorrected)	μmho	Water Temp. (00010)	°C	Conductivity at 25	°C (00094)
MPLE FIELD TREATMEN	IT — Check proper boxes	S				
NA: No acid added NA: No acid	Whole sample (Non-filtered)  Other-specify:	Filtered in fi	F, NA   Calcium (00915)   Magnesium (00925)   Sodium (00930)   Potassium (00935)   Bicarbonate (00440)		Units	Oate analyzed
NA: No acid added  ALYTICAL RESULTS from  F. IALYO  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Cother: TCAP SCAP	Whole sample (Non-filtered)  Other-specify:  Market Sample (Non-filtered)  Market Sample (Non-filtered)	Filtered in fi 0.45 µmem	F. NA   Calcium (00915)   Magnesium (00925)   Sodium (00930)   Potassium (00935)   Bicarbonate (00440)   Chloride (00940)   Sulfate (00945)		Units mg/l _ mg/l _ mg/l _	Oate analyzed
o. of samples pmitted NA: No acid added NA: NA: No acid added NA:	Whole sample (Non-filtered)  Other-specify:  M SAMPLES  Units Da  µmho  mg/l	Filtered in fi 0.45 µmem	F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)		Units  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	Date analyzed
NA: No acid added NA: No acid	Whole sample (Non-filtered)  Other-specify:  Market Sample (Non-filtered)  Market Sample (Non-filtered)	Filtered in fi 0.45 µmem	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:		Units	Oate analyzed
NA: No acid added  NA: No acid added  NALYTICAL RESULTS from F. IA. 100.  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: AS  Other: AS  Nitrate-N + , Nitrate-N total (00630)	Whole sample (Non-filtered)  Other-specify:  Market Sample (Non-filtered)  Market Sample (Non-filtered)	Filtered in fi 0.45 µmem	F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)		Units	Oate analyzed

# ICAP ·SCREEN

Lab Number: HM691	Sample Code: Waste Water ditch
Date Submitted: 4/12/85	Date Reported: 6/18/85
By: Boyer/Baca	By: Jin Oally
0 /	
<u>Determination</u>	Concentration (µg/ml)
Aluminum	4.10
Bartum	4.10
Bery Ll.Lum	<.10
Boron	. 20
Cadmlum	4.10
Cale Lum	150.
Chromium	4.10
Cobalt	<.1D
Copper	4.10
Fron	· <.10
Lead	4.10
Magnes Lum	56.
Manganese	. 07
Molybdenum	4.10
Niekel	<.10
Stiteon	6.6
Silver	<.10
Strontium	2.2
Tin	<.10
Vanadium	<.10
Yttrium	<.10
Zinc	<,10

# ATOMIC ABSORPTION ANALYSES

Arsenic _	.392	_րց/ա1
Bolenium _		_րց/տ1
Hercury		µg/ml



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87-	1	359	-C	,

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

	D - 11 D	12-0 11
REPORT TO:	David Boyer	S.L.D. No. OR
	N.M. Oil Conservation Division	DATE RÉC
	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	327-5812 r	JSER CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE:  2   6   0
SAMPLE COLLI	ection code: (YYMMDDHHMMIII) 181710181	11201914151914181
SAMPLE TYPE	WATER [], SOIL [], FOOD [], OTHER:	CODE:   _
	dly ; CITY: Mr Tesia	
LOCATION COI	DE: (Township-Range-Section-Tracts) $1/1715+216$	5 E+1 Q+1 1  (10N06E24342)
	QUESTED: Please check the appropriate box(es) below to i	indicate the type of analytical screens
required. Whene	ver possible list specific compounds suspected or required.  PURGEABLE SCREENS	EXTRACTABLE SCREENS
(753) Aliph:		(751) Aliphatic Hydrocarbons
) ' <del>==</del> ' ' ' '		(760) Organochlorine Pesticides
) <del>Z.                                    </del>		(755) Base/Neutral Extractables
(766) Trihal	omethanes [ ]	(758) Herbicides, Chlorophenoxy acid
Othe	r Specific Compounds or Classes	(759) Herbicides, Triazines
<u> </u>		(760) Organochlorine Pesticides
		(761) Organophosphate Pesticides
		(767) Polychlorinated Biphenyls (PCB's)
님		(764) Polynuclear Aromatic Hydrocarbons
		(762) SDWA Pesticides & Herbicides
Remarks:		
	·	
FIELD DATA:	~	·
pH=; C	conductivity= 3000 umho/cm at 32 °C; Chlorine Resi	dual=mg/l
Dissolved Oxyge	n=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to water	ft.; Depth of well ft.; Perforation Interval	ft.; Casing:
Sampling Location	on, Methods and Remarks (i.e. odors, etc.)	
Waste	en, odo, etc.	1. Or wale emulsions
I certify that t	he results in this block accurately reflect the results of my are collector):  More collector):  More collector (More accurately reflect the results of my are collector).	y field analyses, observations and
	npanies Septum Vials, Glass Jugs, and/or	eriod of Simplified to the Hab. State (%)
1	reserved as follows:	/
NP:	No Preservation; Sample stored at room temperature.	·
P-Ice	Sample stored in an ice bath (Not Frozen).	
P-Na S O 3 CHAIN OF CU		lorine residual.
	his sample was transferred from	to
at (location)	on	
the statements	in this block are correct. Evidentiary Seals: Not Sealed	<u></u>
Signatures		
	•	

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter?\_\_\_\_

Initials

LAB. No.: OR- /359

### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ing method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
[ (766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
	<del> </del>	(767) Polychlorinated Biphenyls (PCB's)	
	·····	(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
ANA	ALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
COMITOUND(3) DELECTED	[PPB]	COMI COND (5) BEIECIES	[PPB]
halogenated surgestles #	WA		
sucoumment purgunar a	see 1		
aromatic surspeller *	remerle		
Coma ha	117		ł
AN.	l <b>'</b> '' ' . l		
Moluene	418		
ethlul bensano	208		
	328		
m- syllne			
0- siylene	158	· · · · · · · · · · · · · · · · · · ·	
		ļ l	1
* DETECTION LIMIT * *	2549/2	+ DETECTION LIMIT +	Het !
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW	THE STATED	DETECTION LIMIT (NOT CONFIRMED)	
[ RESULTS IN BRACKETS ] ARE UNCONF	IRMED AND/	OR WITH APPROXIMATE QUANTITATION	
o_ 1 1-	A 1 -		****
LABORATORY REMARKS: Juelve las	Welst.	ing compounds in the C3	
_ substituted benzene ses	in at	100-200 and detected his	
The hating to		let at the the	
- me grusouminum and	con s	us mor merujies.	
CEDENTIA	TO OF AMARY	WWYGAA DEDGONNEY	
CERTIFICAT	E OF ANAL	YTICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken by	· not	seales date:	
I certify that I followed standard laboratory procedure	res on handlin	g and analysis of this sample unless otherwise noted	d and
that the statements on this page accurately reflect t	he analytical r	results for this sample.	
Date(s) of analysis: 9/15/87 . Analyst's sig	nature:	Jany C. Eden	
I certify that I have reviewed and concur with the			block.
Reviewers signature: & Meyer her			

SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570



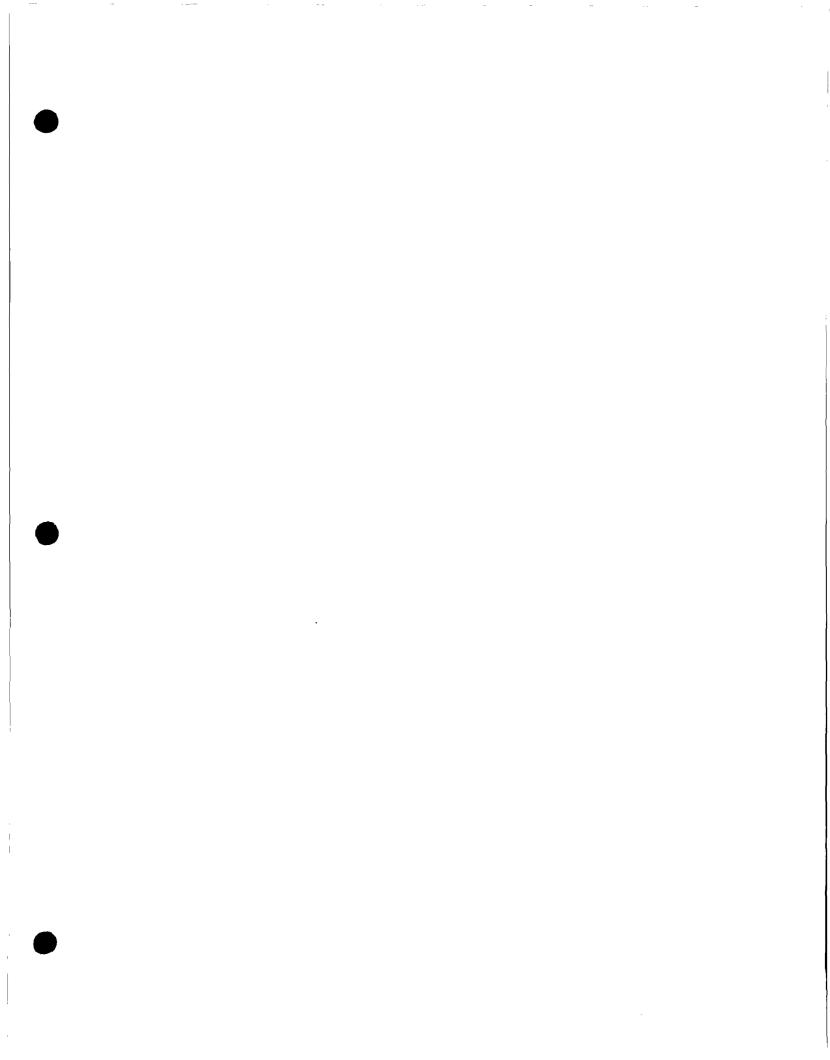
REPORT TO:	David Boyer	S.L.D. No. OR- 105 A
	N.M. Oil Conservation Division	DATE REC. 8-14-87
•	P. O. Box 2088	_
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812 USEI	R CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE:  2   6   0
SAMPLE COLLE	ection code: (YYMMDDHHMMIII)  8 7 0 8 1	20191451714181
	WATER N, SOIL , FOOD , OTHER:	
	day ; CITY: AnTesia	
LOCATION COD	E: (Township-Range-Section-Tracts) $1/1715+2161$	$E + I   \lambda + I   I   I   I   I   I   I   I   I   I$
	QUESTED: Please check the appropriate box(es) below to indic	cate the type of analytical screens
required. Whenev	ver possible list specific compounds suspected or required.  PURGEABLE SCREENS  E	XTRACTABLE SCREENS
(753) Alipha		) Aliphatic Hydrocarbons
(754) Aroma	atic & Halogenated Purgeables	) Organochlorine Pesticides
1	- · · · · · · · · · · · · · · · · · · ·	Base/Neutral Extractables
(766) Trihal		Herbicides, Chlorophenoxy acid
Otner	· · · · · · · · · · · · · · · · · · ·	Herbicides, Triazines Organochlorine Pesticides
		Organophosphate Pesticides
		Polychlorinated Biphenyls (PCB's)
	. (764)	Polynuclear Aromatic Hydrocarbons
	(762)	) SDWA Pesticides & Herbicides
Remarks:		
FIELD DATA:	· · · · · · · · · · · · · · · · · · ·	
pH=; C	onductivity=3000 umho/cm at 32 °C; Chlorine Residual	=mg/l
Dissolved Oxyger	n=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to water	ft.; Depth of wellft.; Perforation Interval	ft.; Casing:
Sampling Location	on, Methods and Remarks (i.e. odors, etc.)	
Waste	water ditely opposite MW !	
she	en, odo, ela Navigo R.	efinery
I certify that t	he results in this blook accurately reflect the results of my fie	eld analyses, observations and
	ire collector): Metho	d of Shipment to the Lab: Tale (18)
This form accor		/
NP:	reserved as follows:  No Preservation; Sample stored at room temperature.	•
''	Sample stored in an ice bath (Not Frozen).	
P-Na So	Sample Preserved with Sodium Thiosulfate to remove chlorin	e residual.
CHAIN OF CU	STODY	
I certify that t	his sample was transferred from	to
at (location)	on	//: and that
the statements	in this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes No No
Signatures		

Phone or Letter?\_\_\_\_ For OCD Use: Date Owner Notified \_\_

LAB. No.: OR- 1365

# THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical s  PURGEABLE SCREENS  (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Class	les	EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides	
COMPOUND(S) DETECTED	CONG. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
ALI PHATIC HYDROCALBONS			
GASOLINE MOL = 100000)		·	
Diesel MDL = 100000	27000 PPB	:	
Keyosens MDL = 1000	2 40 B1000		•
BOAD - DOO NEWYORKO	<b>)</b> :	-	
Many de Company de State Company de Stat	-		
•			
	K .		
* DETECTION LIMIT *		+ DETECTION LIMIT +	
	OW THE STATED	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) OR WITH APPROXIMATE QUANTITATION	
Unable to determine	PNA un	fuel oil undertex below	
10000 ABB by GAS C	GromAra	og raphy	
No Change do andre	· · ·		
<i>/-</i>	ICATE OF ANALY	TICAL PERSONNEL	
that the statements on this page accurately refle	cedures on handling		d and
Date(s) of analysis: 9/1/87. Analyst	's signature:	8 Berney	•
I certify that I have reviewed and concur with Reviewers signature: Meyerhor	the analytical resul	Its for this sample and with the statements in this	block.
			·



_		85- 0337	-C
REPORT TO:	David G. Boyer	<u> </u>	LABORATORY
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	New Mexico Oil Cons	servation Division	LAB NUMBER ORG- 339-14-B SLD PRIORITY 3
	P. O. Box 2088		4/12/85
1512	Santa Fe, NM 87	501	SLD Users Code No. 82235
ALL CONTAIN	ERS WHICH THIS FORM A	CCOMPANIES ARE COLLEC	TIVELY REFERRED TO AS "SAMPLE".
	CEDT	IFICATE OF FIELD PERS	ONNEL
	: Water 🛛 Soil 🗌	Other	ONNEL
Water Suppl	y and/or Code No	504101055	Pond #1 inlet
City & Coun	ty Novaso Ro	binera Arte	Isia, Elly Cto
Collected (	date & time) <b>8504/</b>	)/1055 By (n	name) By Rack
pH= <b>3.5</b> ;	Conductivity= <u>40<i>5</i></u>	umho/cm at 17.5°	C; Chlorine Residual=
Dissolved 0	xygen= <u>mg</u> /1; A cation, Methods & Rem	lkalinity=	; Flow Rate= 300gpm
Sampling Lo	cation, Methods & Rem	arks (i.e. odors etc.	1 = Toitch 120.
Start of	ng oromalis i	of a	ulvest at Ditch, Very
000	ng womans i		U
I certify t	hat the statements in	this block (ccurate)	y reflect the results of my field
II certify t	bservations and activ hat I witnessed these	tield analyses, dbse	ervartions and activities and concur
with the st	atements in this bloc	k. Signed	Baca
	hipment to Laboratory		ned discs identified as:
specimen	; duplicate	; triplicate	; blank(s)
and am	ber glass jug(s) with her container(s) (des	<pre>teflon-lined cap(s)</pre>	identified as ,
Containers	are marked as follows	to indicate preserva	ation (circle):
NP:	No preservation; sa	mple stored at room t	cemperature (~20°C).
P-Na <sub>2</sub> 0 <sub>3</sub> S <sub>2</sub> :	Sample stored in an Sample preserved wi		and stored at room temperature.
232			
I (we) cert	CERTI	FICATE(S) OF SAMPLE	
I (ME) CEL	ing chac chis sample	at (location)	
(date & tim	e)		nents in this block are correct.
4	of Sample		eal(s) Intact: Yes $\square$ No $\square$ .

į i

I (we) certify	that this	sample was transferred from	_ to
	***	at (location)	_ _ on
(date & time)_		and that the statements in this block are correc	t.
Disposition of	Sample	Seal(s) Intact: Yes 🗆 No 🗖	
Signature(s)	*** <u></u>		
I (we) certify	that this	sample was transferred from	to
			_ _ on
(date & time)_	·	and that the statements in this block are correct	•
Disposition of	Sample	Seal(s) Intact: Yes 🔲 No 🗖	
Signature(s)			

ANALYSES REQUESTED

LAB. No.: ORG-

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

	•				F=3	
QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS ALIPHATIC HYDROCARBON SCREEN	QUALITATIVE		QUANTITATIV	EXTRACTABLE  SCREENS  ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN	1	$\top$		CHLORINATED HYDROCARBON PESTICIDES
<b></b> -		HALOGENATED HYDROCARBON SCREEN	+	+		CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER	1	1		HYDROCARBON FUEL SCREEN
			$\top$	$\top$		ORGANOPHOSPHATE PESTICIDES
				$\top$		POLYCHLORINATED BIPHENYLS (PCB's)
			1	$\top$		POLYNUCLEAR AROMATIC HYDROCARBONS
						TRIAZINE HERBICIDES
		SPECIFIC COMPOUNDS				SPECIFIC COMPOUNDS
			-	1		
<u> </u>	ļ		1	4		
	<b></b>			4		
	1			丄		
REM	1ARKS	:				

ANALYTICAL RESULTS COMPOUND [PPB] COMPOUND [PPB] \* DETECTION LIMIT

CERTIFICATE	of	ANALYTICAL	PERSONNEI

Seal(s) Intact: Yes NO_\forall Seal(s) broken by:	date:
I certify that I followed standard laboratory procedures	on handling and analysis of this
sample unless otherwise noted and that the statements in	this block and the analytical data
on this page accurately reflect the analytical results for	or this sample.
Date(s) of analysis: 284 7 May 5. Analyst's signature	re: Of tunner
I certify that I have reviewed and concur with the analys	and the manufacture of the state of the stat

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature:



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

ATE IECEIVED 4 /2 85 N	AB IO.WC-17/2 CODE		<b>A</b> 1 A	THER: 04	235		<b>A A</b> :
ALIDE BS	SITE INFORM-ATION Collection	n site description	me # ) In	nlet,			Refiner
ollected by — Person/Agency	Paco as		curen (	SCOUS,	gloses	-	
ENVIRONMEN ND NM OIL CON NAL State Land PORT Santa Fe, Attn:David_Bo	SERVATION DIVISIO Office Bldg, PO NM 87501	N Box 2088	3	Dis H/	eş v	rlei	topon
				Station/ well code			
AMPLING CONDITIONS				Owner			
☐ Bailed ☐ Pump ☐ Dipped ☐ Tap	Water level		Discharge 300 9	0-M	Sample ty	pe 6 h	eb
oH (00400) 8.5	Conductivity (Uncorrected)	μmho	Water Temp. (00010)	•c	Conductivi	ity at 25°	C (00094)
	u armali	, ,	7)		1	// OO	MAT 105
JOHN STORES	y oromen	e Odl	(U)				<u></u>
***************************************	<u> </u>						***************************************
AMPLE FIELD TREATMEN	T — Check proper boxe	s					
	· · · · · · · · · · · · · · · · · · ·						
No. of samples	. Whole sample	Filtered in 1	🕰 - /	ml H <sub>2</sub> SO <sub>4</sub> /	L added		
No. of samples Submitted	F: Whole sample (Non-filtered)	•	field with	ml H₂SO₄/	L added	<del></del>	
No. of samples Submitted No. No. of samples No.	F: Whole sample (Non-filtered) Other-specify:	•	🕰 - /	ml H <sub>2</sub> SO <sub>4</sub> /	L added		
No. of samples Submitted No. No. of samples No.	F: Whole sample (Non-filtered) Other-specify:	0.45 μmen	mbrane filter	ml H₂SO₄/	L added	Units	Date analyzed
No. of samples Submitted No. of samples No. of samp	F: Whole sample (Non-filtered) Other-specify:	•	mbrane filter			Units ma/i	Date analyzed
No. of samples Submitted No. No. of samples No.	F: Whole sample (Non-filtered) Other-specify:	0.45 μmen	The property of the property o		64.4	Units mg/l _ mg/l _	5/2 5/2
No. of samples submitted N No. No acid added NALYTICAL RESULTS from MF, NA	F: Whole sample (Non-filtered) Other-specify: n SAMPLES Units D	0.45 μmen	The property of the property o		64.4 13	mg/l _ mg/l _ mg/l _	5/2 5/2, 4/16
No. of samples submitted N NA: No acid added NALYTICAL RESULTS from F, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES Units D	0.45 μmen	mbrane filter  F, NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935)	/ 12 / 13 	6 6 4.4 73 85	mg/l mg/l mg/l mg/l	5/2 5/2
No. of samples submitted N NA: No acid added NALYTICAL RESULTS from F, NA Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES Units D	0.45 μmen	The property of the property o	/ 12 / 13 	64.4 73 85 50.7	mg/l _ mg/l _ mg/l _	5/2 5/2, 4/16 4/16 6/6
No. of samples submitted N No. of samples submitted NA: No acid added NALYTICAL RESULTS from F, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other:	F: Whole sample (Non-filtered) Other-specify: n SAMPLES Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945)		64.4 73 85	mg/l mg/l mg/l mg/l	5/2 5/2, 4/16 4/16
No. of samples submitted N NA: No acid added NALYTICAL RESULTS from F, NA Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue	20°	64.4 73 85 50.7 7.8 980	mg/l mg/l mg/l mg/l mg/l mg/l	5/2 3/2 4/16 4/16 6/6 6/8
No. of samples submitted N NA: No acid added NALYTICAL RESULTS from F, NA Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other:	F: Whole sample (Non-filtered) Other-specify: n SAMPLES Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)	20°	64.4 54.4 50.7 7.8 980 263	mg/l _ mg	5/2 5/2, 4/16 4/16 6/6 6/8
No. of samples submitted N NA: No acid added NALYTICAL RESULTS from F, NA Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other:	F: Whole sample (Non-filtered) Other-specify: n SAMPLES Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Fotassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	20°	64.4 73 85 50.7 7.8 980	mg/l mg/l mg/l mg/l mg/l mg/l	5/2 3/2 4/16 4/16 6/6 6/8
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	20°	6 64.4 73 85 50.7 7.8 980 263	mg/l mg/l mg/l mg/l mg/l mg/l	5/2 5/2 4/16 4/16 6/6 6/8
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Nitrate-N +, Nitrate-N total (00630)	F: Whole sample (Non-filtered) Other-specify:  m SAMPLES  Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub>	20°	6 64.4 73 85 50.7 7.8 980 263	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	5/2 5/2 4/16 4/16 6/6 6/8
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from F, NA  Conductivity (Corrected) 25 °C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Nitrate-N +, Nitrate-N total (00630) Ammonia-N total (00610)	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631)	12 80 20 3	6 64.4 73 85 50.7 7.8 980 263	mg/l mg/l mg/l mg/l mg/l mg/l	5/2 3/2 4/16 4/16 6/6 6/8
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N	F: Whole sample (Non-filtered) Other-specify:  m SAMPLES  Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolve	12 80 20 3	6 64.4 73 85 50.7 7.8 980 263	mg/l _ mg	5/2 5/2 4/16 4/16 6/6 6/8
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Other: Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  Units D	0.45 µmen	mbrane filter  Discrepance	12 80 20 3	6 64.4 73 85 50.7 7.8 980 263	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	5/2 5/2 4/16 4/16 6/6 6/8
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340)	F: Whole sample (Non-filtered) Other-specify:  m SAMPLES  Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolve	12 80 20 3	6 64.4 73 85 50.7 7.8 980 263	mg/l _ mg	5/2 5/2 4/16 4/16 6/6 6/8
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Other: Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  Units D	0.45 µmen	mbrane filter  Discrepance	12 80 20 3	6 64.4 73 85 50.7 7.8 980 263	mg/l _ mg	5/2 3/2 4/16 4/16 6/6 6/8
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N () Other:	3 20°	64.4 53.7 7.8 980 263 none 3.7	mg/l _ mg	5/2 5/2 4/16 4/16 6/6 5/8 5/19 6/6 5/3
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( )	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N	(2) (N) (A) (B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	6.4.4 7.3 7.8 9.80 26.3 Menue 3.7	mg/l _ mg	5/2 5/2 4/16 4/16 6/6 5/8 5/3 6/6 5/3
No. of samples submitted  NA: No acid added  NALYTICAL RESULTS from  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Nirate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( ) Other:	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  Units D	0.45 µmen	mbrane filter  F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N () Other:	(2) (N) (A) (B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	64.4 53.7 7.8 980 263 none 3.7	mg/l _ mg	5/2 5/2 4/16 4/16 6/6 6/8 5/8 5/18



New Mexico Health and Environment Di SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

### **GENERAL WATER CHEMISTRY** and NITROGEN ANALYSIS

111	e, NM 87106 — (505) 841					
CEIVED 4 12 8	) NO. WC -1698	CODE 59300	D ☐ 59600 💢 OTH	HER: 82	235	
HID 85	SITE	Sample location D	ond #1 In	JeT.	Neras	Religion
Dilection TIME	INFORM- ► ATION				- T	
Dilected by — Person/Agency	14	Collection site description	Culvert to	lour	elsen	side a
	el Bock Ot	\$		<u> </u>		
•	7			Di	eg ince	t topon
	ENTAL BUREAU	NTSTON	-	ا ليد		***************************************
IND NM UIL U NAL State la	ONSERVATION DI nd Office Bldg	J. PO Box 2088	3	f		***************************************
	, NM 87501	,,				***************************************
	Boyer	•			***************	
//((())///(-Lub-34	######################################	******************************		itation/		
				rell code		
AMPLING CONDITIONS	5		C	wner		
☐ Bailed ☐ Pump	Water level		Discharge 300 9 P		Sample type	
Dipped 🗆 Tap				m	61	125
oH (00400) <b>2</b> 5	Conductivity (Unc		Water Temp. (00010)	۰C	Conductivity at 25	
<i>B</i> -0	40	05 Ο μmho	17.3	-0	L	μmh
Field comments	ony aron	rate od	<i>a</i>			
<b>G</b>	7					
		***************************************	*******************************			
AMPLE FIELD THEATM	ENT — Check prop	per boxes				
No. of samples	NF. Whole sample	Filtered in		nl H₂SO₄/	L added	
No. of samples bmitted	NF: Whole sample (Non-filtered)	Filtered in	field with 🙇 A: 2 n	nl H₂SO₄/	'L added	
No. of samples	NF: Whole sample (Non-filtered)	Filtered in		nl H₂SO₄/	L added	
No. of samples pomitted  NA: No acid added	NF: Whole sample (Non-filtered)  □ Other-specify:	Filtered in		nl H₂SO₄/	L added	
No. of samples bmitted	NF: Whole sample (Non-filtered)  □ Other-specify:	Filtered in	mbrane filter 🗠 A: 2 ff	nl H₂SO₄/	'L added Units	Date analyzed
No. of samples pmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected)	NF: Whole sample (Non-filtered)  □ Other-specify:	Filtered in 0.45 µmer	d F, NA	nl H₂SO₄/		Date analyzed
No. of samples pmitted  NA: No acid added  NALYTICAL RESULTS 1	NF: Whole sample (Non-filtered)  □ Other-specify:	Filtered in 0.45 µmer	d F, NA  Calcium (00915)  Magnesium (00925)	nl H₂SO₄/	Units mg/l mg/l	Date analyzed
No. of samples pmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected)	NF: Whole sample (Non-filtered)  □ Other-specify:	F: Filtered in 0.45 µmer	d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930)	nl H₂SO₄/	Units mg/l mg/l mg/l	Date analyzed
No. of samples pmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended)	NF: Whole sample (Non-filtered)  □ Other-specify:	F: Filtered in 0.45 μmen Units Date analyzed	d F, NA  Calcium (00915)  Magnesium (00925)	nl H₂SO₄/	### Units    mg/l   mg/	Date analyzed
No. of samples pmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)	NF: Whole sample (Non-filtered)  □ Other-specify:	F: Filtered in 0.45 µmer	Magnesium (00925)	nl H₂SO₄/	Units mg/l mg/l mg/l	Date analyzed
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other:	NF: Whole sample (Non-filtered)  □ Other-specify:	F: Filtered in 0.45 μmen Units Date analyzed	Magnesium (00925)	nl H₂SO₄/	### Units    mg/l     mg/l   m	Date analyzed
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other:	NF: Whole sample (Non-filtered)  □ Other-specify:	F: Filtered in 0.45 μmen Units Date analyzed	Magnesium (00915)	nl H <sub>2</sub> SO <sub>4</sub> /	Units   mg/l	Date analyzed
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other:	NF: Whole sample (Non-filtered)  □ Other-specify:	F: Filtered in 0.45 μmen Units Date analyzed	Magnesium (00925)	nl H₂SO₄/	Units   mg/l     mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l     mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l     mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l   mg/l	Date analyzed
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other:	NF: Whole sample (Non-filtered)  □ Other-specify:	F: Filtered in 0.45 μmen Units Date analyzed	d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	H₂SO₄/	Units   mg/l	Date analyzed
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Nitrate-N + Nitrate-N	NF: Whole sample (Non-filtered)  □ Other-specify:	Units Date analyzed  μmho  mg/l	d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub>	nl H <sub>2</sub> SO <sub>4</sub> /	Units   mg/l	Date analyzed
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Nitrate-N + Nitrate-N total (00630)	NF: Whole sample (Non-filtered)  □ Other-specify:	Units Date analyzed  ###################################	d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Date analyzed
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other:  Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)	NF: Whole sample (Non-filtered)  □ Other-specify:	Units Date analyzed  μmho  mg/l	d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631)		Units   mg/l	Date analyzed
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: MF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N (	NF: Whole sample (Non-filtered)  □ Other-specify:	Units Date analyzed  ###################################	mbrane filter  d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed  #123 6/28
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: MF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen	NF: Whole sample (Non-filtered)  Other-specify: rom SAMPLES	Weight Filtered in 0.45 μmen  Units Date analyzed  μmho  mg/l  mg/l  mg/l  mg/l  mg/l	d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631)		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l  mg/l mg/l	Date analyzed  ##23 6/28 5/26
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Other: TF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340)	NF: Whole sample (Non-filtered)  □ Other-specify:  rom SAMPLES	Units Date analyzed  μmho  mg/l  mg/l	mbrane filter  d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	#123 6/28 5/29
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Other: Total ron-filterable residue (suspended) (00530)  Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( )	NF: Whole sample (Non-filtered)  Other-specify: rom SAMPLES	Weight Filtered in 0.45 μmen  Units Date analyzed  μmho  mg/l  mg/l  mg/l  mg/l  mg/l	mbrane filter  d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608)		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	#23 6/28 5/29
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Other: Total ron-filterable residue (suspended) (00530)  Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( ) Other:	NF: Whole sample (Non-filtered)  □ Other-specify:  rom SAMPLES	Units Date analyzed  ###################################	mbrane filter  d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	423 6/28 5/29
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Other: Total ron-filterable residue (suspended) (00530)  Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( ) Other:	NF: Whole sample (Non-filtered)  □ Other-specify:  rom SAMPLES	Units Date analyzed  ###################################	mbrane filter  d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	/3 /5	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	4/23 6/28 5/29
No. of samples bmitted  NA: No acid added  NALYTICAL RESULTS 1  NF, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: Other: TF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340)	NF: Whole sample (Non-filtered)  □ Other-specify:  rom SAMPLES	Units Date analyzed  ###################################	mbrane filter  d F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	/3 /5	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	423 6/28 5/29



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque. NM 87106 — (505) 841-2555



EIVED 4 /2 85 N	AB O.HM-6695 CODE 5930	o	<sub>THER:</sub> 82	235	
DHID 85	SITE   Sample location			Noraps	Refinery
Collection TIME 5	ATION Collection site description	Culvert 1	Dans.	geren	15-10- 1
Collected by — Person/Agency	Boxsons	wver (		•	• (
ENVIRONMENT	΄ ΤΔΙ ΒΙΙΡΕΔΙΙ			ted inle	LABORE
SEND NM OIL CONS	SERVATION DIVISION	0	#/	***************************************	
FINAL State Land REPORT Santa Fe, 1	Office Bldg, PO Box 208 NM 87501	8			
Attn: David Boy					
			Station/ well code	···.	* W
SAMPLING CONDITIONS			Owner		
☐ Bailed ☐ Pump	Water level	Discharge 300 e	0-44	Sample type	- 4
∑ Dipped □ Tap     pH (00400)	Conductivity (Uncorrected)	Water Temp. (00010)	p-77)	Conductivity at 25	
8~5	4050 µmho	17.3	°C	Conductivity at 25	μmho
Field comments	y aromalie od	207			
	<u>/</u>	······································	**************		************************
SAMPLE FIELD TREATMEN	T — Check proper boxes				
of samples	. Whole sample . Filtered in	field with	mi H₂SO₄	/L added	
□ NA: No acid added 🙉 (					<del></del>
ANALYTICAL RESULTS from		3			
F. AA HADS	Units Date analyze	d F, NA		Units	Date analyzed
☐ Conductivity (Corrected) 25°C (00095)	μmho	☐ Calcium (00915) ☐ Magnesium (00925)		mg/l _ mg/l _	
, ,		☐ Sodium (00930)		mg/l	
☐ Total non-filterable residue (suspended)		<ul> <li>□ Potassium (00935)</li> <li>□ Bicarbonate (00440)</li> </ul>		mg/l _ mg/l _	
(00530)  Other: JCAP SCAN	mg/l	☐ Chloride (00940)		mg/l	
& Other: AS	0.399 my/l 5-17	Sulfate (00945)		mg/l	
☐ Other:		Total filterable residue (dissolved) (70300)		mg/l _	
NF, A-H₂SO₄		C Other:			
□ Nitrate-N + , Nitrate-N	ma/l	F, A-H <sub>2</sub> SO <sub>4</sub>			
total (00630)	mg/l mg/l	<ul><li>─ ☐ Nitrate-N + , Nitrate-I dissolved (00631)</li></ul>	N	ma/l	
☐ Total Kjeldahl-N	ma/l	☐ Ammonia-N dissolve	ed ———	mg/l _	
☐ Chemical oxygen	mg/l	─ (00608) □ Total Kjeldahl-N		mg/l _	<del></del>
demand (00340)	mg/l			mg/l _	
( )	mg/l	_ ☐ Other:	<del></del>		
Cother:		Analyst		Reported Review	in ashly
Laboratory remarks			6	18 85 1	in lastly
		~~~~~		V	ν

# ICAP ·SCREEN

Lab Number: #M 695	Sample Code: Fond #1
Date Submitted: 4/12/85	Date Reported: 6/18/85
By: Boyer/Baca	By: Jim Rolly
<u>Determination</u>	Concentration (Mg/ml)
A.Lum.Lnum	۷.۱۵
Bartum	4.10
Bery L1.Lum	<.10
Boron	.23
Cadmtum	<.10
Calclum	<u> 33.</u>
ChromLum	<u> </u>
Cobult	<,10
Copper	4.10
Lron	.15
Lead	<.10
Magnes Lum	<i>5</i> 6.
Manganese	. 10
Molybdenum	۷.10
Nickel	<.10
SILLcon	15
Stiver	4.10
Strontium	2,2
TIn	4.10
Vanadīum	<.10
Yttrlom	<.10
Zlne	<.10

# ATOMIC ABSORPTION ANALYSES

Arsenic	.399 µg/m1
Bolenium	
lercury	μg/ml

MIMMEISIS REQUESTY REPURT LABORATORY SECTION - HOUSTON BRANCH S. AND A. DIVISION - REGION VI - U.S.E.P.A. 1. Laboratory Number 2. Source of sample 3. Permit Number 4. Outfall Number 5. Date Collected 7. Time Collected (hrs.) 8. Collected By 15:27 Barr 10. Time | Received (hrs.) 11. Received By 12. Report Date 10:30 Requestor's Remarks 14. Requestor's Signature 15. LABORATORY DATA METHOD USED CONCENTRATION FOUND (in mg per liter unless stated PARAMETER (STORET NUMBER! otherwise) 13N FPTOX

Laboratory Remarks	•		
	 <del></del>	 	

17. Reviewed By

R6-54 (Jon. 1976)

18. Approved By

# PAGE 2 OF 5

### ORGANIC ANALYSIS DATA

6ES L SAMPLE NO.: AR0901 FIELD SAMPLE NO.(TAG NO.): SOURCE: Navajo Refinery, Pond #1 influent surface water

DATE/TIME COLLECTED: 6/25/84 1527-1529

SAMPLE TYPE: Aqueous COLLECTED BY:

		**BASE/NEUTRAL COMPOUNDS BY METHOD 625 *	*****
P₽≢	CAS#	WADROLF RED INTE COM COME S ET TIETHOU CEO W	UG/L
(1B)	83-32-9	acenathene	ND DL= 20
(5B)	92-87-5	benzidine	ND DL=200
(8B)	120-82-1	1,2,4-trichlorobenzene	ND DL= 20
(9B)	118-74-1	hexachlorobenzene	ND DL= 20
(12B)	67-72-1	hexachloroethane	ND DL= 20
(18B)	111-44-4	bis(2-chloroethyl)ether	ND DL= 20
(20E)	91-58-7	2-chloronapthalene	ND DL= 20
(25B)	95-50-1	1.2-dichlorobenzene	ND DL= 20
(26B)	541-73-1	1,3-dichlorobenzene	ND DL= 20
(27B)	106-46-7	1,4-dichlorobenzene	ND DL= 20
(58B)	91-94-1	3,3'-dichlorobenzidine	ND DL=100
(35B)	121-14-2	2,4-dinitrotoluene	ND DL= 60
(36B)	606-20-2	2.6-dinitrotoluene	ND DL= 60
(37B)	122-66-7	1,2-diphenylhydrazine	ND DL= 40
(39B)	206-44-0	fluoranthene	ND DL= 20
(401)	7005-72-3	4-chlorophenyl phenyl ether	ND DL = 40
(45	101-55-3	4-bromophenyl phenyl ether	ND DL= 40
(42B)	39638-32-9	bis(2-chloroisopropyl)ether	ND DL= 20
(43B)	111-91-1	bis(2-chloroethoxy)methane	ND DL= 20
(52B)	87-68-3	hexachlorobutadiene	ND DL= 20
(53B)	77-47-4	hexachlorocyclopentadiene	ND DL=100
(54B)	78-59-1	isophorone	ND DL= 40
(55B)	91-20-3	napthalene nitrobenzene	64
(56B)	98-95-3		ND DL= 20
(62B)	86-30-6	N-nitrosodiphenylamine	ND DL= 40
(63B)	621-64-7	N-nitrosodipropylamine	ND DL= 60
(66B)	117-81-7	bis(2-ethylhexyl)phthalate	< 40 ND DL= 40
(67B)	85-68-7	butyl benzy phthalate	ND DL= 40
(69B)	84-74-2 117-84-0	di-n-butyl phthalatedi-n-octyl phthalate	ND DL= 20
(70B)	84-66-2	diethyl phthalate	ND DL= 40
(71B)	131-11-3	dimethyl phthalate	ND DL= 20
(72B)	56-55-3	benzo(a)anthracene	ND DL= 80
(73B)	50-33-8	benzo(a)pyrene	ND DL= 80
(73B)	205-99-2	benzo(b)fluoranthene	ND DL= 80
(75B)	207-08-9	benzo(k)fluoranthene	ND DL= 80
(76B)	218-01-9	chrysene	⟨ 80
(77B)	208-96-8	acenapthylene	ND DL= 20
(78H)	120-12-7	anthracene	250
(79B)	191-24-2	benzo(g,h,i)perylene	ND DL= 80
(80=0)	86-73-7	fluorene	46
(8)	85-01-8	phenanthrene	ND DL= 20
(82B)	53-70-3	dibenzo(a,h)anthracene	ND DL= 80
(83E)	193-39-5	indeno(1,2,3-c,d)pyrene	ND DL= 80
(84H)	120-00-0	pyrene	120

# PAGE 3 OF 5

# ORGANIC ANALYSIS DATA

AL SAMPLE NO.: AR0901 FIELD SAMPLE NO. (TAG NO.) : SOURCE: Navajo Refinery, Pong #1 influent surface water

DATE/TIKE COLLECTED: 6/25/84 1527-1529

SAMPLE TYPE: Aqueous

COLLECTED BY:

		**ACID COMPOUNDS BY METHOD 625 ******	*****
PP#	CAS#		UG/L
(21A)	88-06-2	2,4,6 trichlorophenol	ND DL= 60
(22A)	59-50-7	p-chloro-m-cresol	ND DL= 80
24A)	95-57-8	2-chlorophenol	ND DL= 40
(31A)	120-83-2	2,4-dichlorophenol	ND DL= 60
(34A)	105-67-9	2,4-dimethylphenol	2300
(57A)	88-75-5	2-nitrophenol	ND DL=100
58A)	100-02-7	4-nitrophenol	ND DL=200
(59A)	51-28-5	2,4-dinitrophenol	ND DL=300
(60A)	534-52-1	4,6-dinitro-2-methylphenol	ND DL=200
(64A)	87-86-5	pentachlorophenol	ND DL=150
(65A)	108-95-2	phenol	31200
		*****DIOXINS*****	
PP	CAS#		UG/L

(1.....) 1746-01-6 2,3,7,8-tetrachlorodibenzo-p-dioxin --- Not Analyzed

# PAGE 4 OF 5

### ORGANIC ANALYSIS DATA

SOURCE: Navajo Refinery, Pond \$1 influent surface water

DATE/TIME COLLECTED: 6/25/84 1527-1529

SAMPLE TYPE: Aqueous COLLECTED BY:

### HAZARDOUS SUBSTANCE LIST COUMPOUNDS

	H/	
		**VOLATILE COMPOUNDS BY METHOD 625*************
	CAS#	UG/L
	67-64-1	acetone Not Analyzed
	78-93-3	2-butanone Not Analyzed
	75-15-0	carbondisulfide Not Analyzed
	519-78-6	2-hexanone Not Analyzed 4-methyl-2-pentanone Not Analyzed
	108-10-1	4-methyl-2-pentanone Not Analyzed
	100-42-5	sturene Not Analuzed
	108-05-4	vinyl acetate Not Analyzed m-xylene Not Analyzed
	108-38-3	m-xylene Not Analyzed
	95-47-6	o-xylene and/or
	106-42-3	p-xylene Not Analyzed
	CAS# 62-53-3 100-51-6 106-47-8 132-64-9 91-57-6 88-74-4 99-09-2 100-01-6	***BASE/NEUTRAL COMPOUNDS BY METHOD 625*       UG/L         aniline
·	CAS+ 65-85-0 95-48-7 108-39-4 95-95-4	**ACID COMPOUNDS BY METHOD 625************ UG/L benzoic acid

# PAGE 5 OF 5

### ORGANIC ANALYSIS DATA

FIELD SAMPLE NO. (TAG NO.) : 6ES-HL SAMPLE NO.: AR0901

SOURCE: Navajo Refinery, Pond #1 influent surface water

SAMPLE TYPE: Aqueous

DATE/TIME COLLECTED: 6/25/84 1527-1529

COLLECTED BY:

### \*\*\*\*TENATIVELY IDENTIFIED COMPOUNDS\*\*\*\*

CAS#	COMPOUND NAME	FRACTION	SCAN≢ OR	MATCH	ESTIMATED
			RET.T.		UG/L
======	=======================================	========	=====	=====	========
	Phenol, ethyl	BNA	640	92	480
	Phenol, ethyl	BNA	682	96	1700
95-65-8	Phenol, 3,4-dimethyl	BNA	713	92	290
3855-26-3	Phenol, 2-ethyl-4-methyl	BNA	794	64	190
!	Napthalene, dimethyl	BNA	229		170
	Unidentified Hydrocarbon	BNA	943		200
	Napthalene, dimethyl	BNA	960	95	210
	Unidentified Hydrocarbon	BNA	1041		230
	Unidentified hydrocarbon	BNA	1132		180
	Unidentified Hydrocarbon	BNA	1218		190
	Unidentified Hydrocarbon	BNA	1298		200
	Unidentified Hydrocarbon	BNA	1375		200
7372-88-5	Dibenzothiophen, 3-methyl	BNA	1350	87	170
	Phenanthrene/Anthracene,				
	methyl	BNA	1401	83	180
1	Unidentified Hydrocarbon	BNA	1448		290
1	Phenanthrene, dimethyl	BNA	1499	86	270
-	Unidentified Hydrocarbon	BNA	1518		220
	Unidentified Hydrocarbon	BNA	1584		280
	Unidentified Hydrocarbon	BNA	1648		200

Report Prepared 34: L. Garner, B. Morey, K. Young

Date: 9/13/84

*	Environmental Improveir P.O. Box 968	ient Division	LAB NUMBER <u>H</u>	M/54
	Santa Fe, New Mexico 87		DATE RECEIVED	1/25/0-
		4555~	_	
	SLD USEŘ CODE NUMBER	53300	DATE REPORTED _	4/2/85 on's
ample Numb	ber: #1Locat	ion: NAVASO E	VAP POND ME INF	WENT NORTH SIDE
ample Type:	water soil	sediment 🔀 sludg	eother	
ollected (da	te & time) 1/24/85	9:00 AM by:	: ANN CLASSE	:W
emperature	: celcius	conductivity:	umhos/	cm pH:
ample conta	ainer: 🔲 1-liter cubitaine	er(s) 1-quart gl	ass jar(s) other	
eatment:	Filtered 2 ml HNO3	ice other	JONE	
				RECEIVED
WATERA	NALYSIS FOR  dissolved	suspended 🔲 to	tal	ADD 0 magn
OILANA	LYSIS FOR  supernatant	☐ total digestion	EP Toxicity	APR 0 5 1985
		- · · · · ·		HAZARDOUS WASTE SECTION
ICAP SCAI	N UG/MLORUG/G DATE	ANALYZED		- MOOS MASTE SECTION
- Juminum		Copper		Silicon
arium		Iron		Silver
errylium		Lead		Strontium
oron .		Magnesium		Tin
admium		Manganese		Vanadium
alcium		Molybdenum		Yttrium
hromium		Nickel		Zinc
lobalt				
ATOMIC	ABSORPTION UG/ML OR U	G/G DATE ANALYZE	D	
Arsenic		Selenium		Mercury
EP TOXIC	TITY MG/D DATE ANALYZ	ED		
Arsenic	0.058	Chromium *_	13.5	Selenium <u> </u>
arium	0.38	Lead	0.017	Silver <u>&lt;0.001</u>
admium	<0.001	Mercury <u>&lt;</u>	0.001	
			h. P	
ANALYST	me go mo	RE	VIEWER ON	
COMMENTS	, 0( )			
	* > 5,0 ppm.	Therefore r	equires Apec	eation for Cr+6
	U	U	0	V
	Cr+6 105	toom (Mu	Durd 3060 /719	<i>96</i> ) .

MET - S ANALYSIS REQUEST

REPORT-TO:

Hazardous Waste Sections

Environmental Improvement Division

	Environmental Improv P.O. Box 968	ient Division	LAB NUMBER _	HM 155
	Santa Fe, New Mexico	87504		1 /-
	Attn: Ann Cu	ASSEA)	DATE RECEIVED	
	SLD USER CODE NUMB		DATE REPORTE	0 4/2/85
Sample Nur	mber: # 2 Lo	cation: NAM30 2	VAP POND, N:	SIDE DREDGED MATURIAL
	e: water soil		•	
Collected (c	date & time) <u>1/24/\$5</u>	- 9:00 AM by	: ANN CLANS	3(~/
Temperatur	re: celci	us conductivity:	umh	os/cm pH:
Sample cor	ntainer: 🔲 1-liter cubita	iner(s) 1-quart gl	ass jar(s) other	
Treatment:	Filtered 2 ml HNC	3 🔲 ice 📋 other 👱	NONE	
	•			RECEIVED
☐ WATER	ANALYSIS FOR dissolve	d 🔲 suspended 🔲 to	otal	APR 0 5 1985
	IALYSIS FOR  supernata			
				HAZARDOUS WASTE SECTION
[] ICAP SC	AN UG/MLORUG/G DA	TE ANALYZED		ore sectión.
— Aluminum		Copper		Silicon
Barium		lron		Silver
Berrylium		Lead		Strontium
oron		Magnesium		Tin
Cadmium		Manganese		Vanadium
Calcium		Molybdenum		Yttrium
Chromium		Nickel		Zinc
Cobalt				
Патоміс	CABSORPTION UG/ML OR	UG/G DATE ANALYZE	D	
Arsenic		Selenium		Mercury
EP TOX	CICITY MG/L DATE ANAL	YZED		
Arsenic	0.096		2.66	Selenium < 0.005
Barium	0.48	Lead	0.41	Silver < 0.001
Cadmium	0.001	· —	(0.001	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		· D	·
ANALYST	hik, Je mo	RE	VIEWER IN J	
COMMENT			<del></del>	

METALS ANALYSIS REQUEST

REPORT TO: Hazardous Waste Section

Environmental Improvatient Division

REPORT TO:	Hazardous Waste Section		METALS A	NALYSIS RE	QUEST
	Environmental Improv P.O. Box 968	ent Division	LAB NUMBER	HM 1	56
	Santa Fe, New Mexico 87		DATE RECEIVED		
	Attn: ANN CLAR	558~			
	SLD USER CODE NUMBER	53300	DATE REPORTED _	4/2/8	3.7
Sample Numb	per: #3 Locat	ion: NAVASO \$1	IMP POND NEINF	FLUINT, S	BOUTH SIDE
	water soil				
Collected (da	te & time) 1/24/85	9:30 Am by	•		
Temperature	: celcius	conductivity:	umhos/	cm pH:	
Sample conta	ainer: 🔲 1-liter cubitaine	er(s) 1-quart gl	ass jar(s) other		
Treatment:	Filtered 2 ml HNO3	ice other	VONE		
					RECEIVED
WATER A	NALYSIS FOR  dissolved	suspended 🗌 to	otal		
SOIL ANA	LYSIS FOR  supernatant	total digestion [	EP Toxicity		APR 0 5 1985
[] :CARSCAL	N UG/MLORUG/G DATE	ΔΝΔΙ ΥΖΕΝ		HAZA	RDOUS WASTE SECTION
Aluminum		Copper			
Barium		Iron ·			
Berrylium		Lead			
ron		Magnesium			
Cadmium		Manganese			
Calcium		Molybdenum		_	
Chromium		Nickel			
Cobalt					
☐ ATOMIC A	ABSORPTION UG/ML OR U	G/G DATE ANALYZE	D		-
Arsenic		Selenium		Mercury	
					<del></del>
_/					
EP TOXIC	TITY MG/L DATE ANALYZ		·-7 .1a		10.00
Arsenic	0.138	<del></del>	7.40		(0.805
Barium	0.530	Lead	0.010	Silver	<0.001
Cadmium	<u> </u>	Mercury	(0.001		
ANALYST	mk JB and	RF	viewer MJ		
COMMENTS	. / Ol'				
<u>Granding</u>	* > 5.00 from . [	Sherefore, res	jures Specie	ation.	for Cr.
	G+6 <0.5	gymi (Met	thad 3060/7196	)	

ن	P.O. Box 968	ant Division	LAB NUMBER	HM 157
	Santa Fe, New Mexico	87504		1/25/25
	Attn: ANN Co	1A55E~	DATE RECEIVED _	11 1 1
	SLD USER CODE NUMB	ER 53300	DATE REPORTED	4/2-/85
Sample Num	nber: #4Loc	cation: NAVATO A	PI PITCH AT HWY	'82 BH PASS
	e: 🔲 water 🔲 soil 📗			
Collected (da	ate & time) 124/8	5 10:00 Am by	: ANN CLAASS	iew
Temperatur	e: celcio	us conductivity:	umhos/	/cm pH:
Sample con	tainer: 🔲 1-liter cubitai	iner(s) 1-quart gl	ass jar(s) other	
Treatment:	☐ Filtered ☐ 2 ml HNO	3 ice other		
				RECEIVED
☐ WATER A	ANALYSIS FOR 🔲 dissolve	d 🔲 suspended 🔲 to	otal	RECEIVED
SOILANA	ALYSIS FOR 🔲 supernata	nt 🔲 total digestion 🖺	EP Toxicity	APR 0 5 1985
		•		•
icap sca	N UG/ML OR UG/G DAT	TE ANALYZED		HAZARDOUS WASTE SECTION
Aluminum		Copper	•	Silicon
Barium		Iron		Silver
Berrylium		Lead		Strontium
ron		Magnesium	·	Tin
Cadmium		Manganese	·	Vanadium
Calcium		Molybdenum	· · · · · · · · · · · · · · · · · · ·	Yttrium
Chromium		Nickel		Zinc
Cobalt		•		
ПАТОМІС	ABSORPTION UG/ML OR	UG/G DATE ANALYZE	D	
Arsenic		Selenium		Mercury
EP TOXI	CITY MG/L DATE ANAL	YZED		•
Arsenic	0.044	Chromium	3.86	Selenium <u> </u>
Barium	0.53	Lead	0. 22	Silver < 0.001
Cadmium	LC.001	Mercury <u></u>	0.001	
			in P	·
ANALYST	my no a	RE	VIEWER	
COMMENT	<u>s:</u>			

METALS ANALYSIS REQUEST

REPORT TO:

Hazardous Waste Section

Environmental Improv ant Division

* *	Environmental Improvente P.O. Box 968		LAB NUMBER	HM	152
•	Santa Fe, New Mexico 8750		DATÉ RECEIVED	1/25	5/25
	Attn: ANN (CAAS		_	11	
	SLD UŠER CODE NUMBER 5	3300	DATE REPORTED	4/2/	87
Sample Num	iber: #5Locatio	n: NAVA 30	API DITCHES NI	50'BLW (	CONFLURNCE
	e: 🔲 water 🔲 soil 🔲 se	_			
Collected (d	ate & time) 1/24/85	10: 20 AM by:	ANN CLAA	359~	
Temperatur	e: celcius	conductivity:	umhos	/cm pH:	
Sample con	tainer: 1-liter cubitainer(	s) 1-quart gl	ass jar(s) other _		
Treatment:	Filtered 2 ml HNO3	ice 🔲 other			
	·	1			
☐ WATER A	ANALYSIS FOR  dissolved	] suspended 🔲 to	tal		RECEIVED
SOIL AN	ALYSIS FOR 🔲 supernatant 📗	total digestion	EP Toxicity		100 t = 100=
		•		•	APR 0 5 1985
[] ICAP SCA	N UG/ML OR UG/G DATE AF	NALYZED		—— HAZAF	RDOUS WASTE SECTION
Aluminum		Copper	•	Silicon	PODS MASIE SECTION
Barium		Iron		Silver	
Berrylium		Lead		Strontium_	
pron		Magnesium		Tin	
Cadmium		Manganese		Vanadium_	
Calcium		Molybdenum		Títrium	
Chromium		Nickel	· · · · · · · · · · · · · · · · · · ·	Zinc	
Cobalt			•		
ATOMIC	ABSORPTION UG/ML OR UG/	G DATE ANALYZE	D		-
Arsenic		Selenium		Mercury	
EP TOX	ICITY (MG/L) DATE ANALYZE		. 7 , -		/0 -5
Arsenic	0.124		k7.60 D.13		20.005
Barium	<u>c.830</u>			Silver	<u> </u>
Cadmium	<u>&lt;0.001</u>	Mercury <u></u>	$O. \infty I$		•
	mt OB Dia		mt		
ANALYST	mk JB mo				
COMMENT	<u>s:</u>	boca	ures Stains	Line do	Ch+6
	5: + > 5.00 fgm. The	refore /	The state of the s		, ,
	A +6				
		/ n	0.01/017	011	

REPORT TO: Hazardous Waste Section

METALS ANALYSIS REQUEST

- -

REPORT TO:	: David G. Boy	
THE STATE	New Mexico Oil Conservation Division LAB NUMBERORG	0 333- 12.B
	P 0 Box 2088	4/12/85 PRIDRITY 3
1912 03	Santa Fe, NM 87501 85-0333 -C sers Code	PRIORITY 3
ALL CONTAIN	INERS WHICH THIS FORM ACCOMPANIES ARE COLLECTION REFERRED T	TO AS "SAMPLE".
	CERTIFICATE OF FIFE DEPCONNEL	
Sample Type	CERTIFICATE OF FIELD PERSONNEL  (pe: Water Soil Other	
	oply and/or Code No. Pond 1 outles	
City & Cour	ounty Napays Robinson - Arteria, Edd	y Ay
Collected (	d (date & time) 850418/1914 By (name) Boyes /	Roca
pH = 9.7;	; Conductivity= <u>5500</u> umho/cm at <u>19</u> °C; Chlorine Resid	lua1=
Dissolved (	i Oxygen= mg/l; Alkalinity= ; Flow Location, Methods & Remarks (i.e. odors etc.)	
Sampling Lo	Location, Methods & Remarks (i.e. odors etc.)  Mes Grom poul loutlet pipe downstres  Hery aromatic olor	m of man Ode Al
	The grown point towner pope and notice	A lastrocké
8		
I certify t	that the statements in this block accurately reflect the res	sults of my field
I contify t	that I witnessed these field analyses observations and act	ivities and concur
with the s	statements in this block. Signed This S. Baca	
Method of S	f Shipment to Laboratory <b>Hand connie</b> M ACCOMPANIES septum vials with teflon-lined discs identi-	fied as:
specimen	; duplicate ; triplicate ; blan	nk(s),
	<pre>amber glass jug(s) with teflon-lined cap(s) identified as other container(s) (describe) identified</pre>	as .
Containers	rs are marked as follows to indicate preservation (circle):	
NP:	No preservation; sample stored at room temperature (~20°0 Sample stored in an ice bath.	
P-Na <sub>2</sub> 0 <sub>3</sub> S <sub>2</sub> :	Sample preserved with 3 mg $Na_2O_3S_2/40$ ml and stored at re	oom temperature.
I (we) cer	CERTIFICATE(S) OF SAMPLE RECEIPT ertify that this sample was transferred from	to
	at (location)	
(date & tir	time) and that the statements in this block	
Disposition	ion of Sample Seal(s) Intact: Ye	es 🔲 No 🔲 .
Signature(	e(s)	
I (we) cer	ertify that this sample was transferred from	to
	at (location)	
(date & tir	time) and that the statements in this bloc	
į	ion of Sample Seal(s) Intact: Yo	

Signature(s)\_\_\_\_\_

ANALY	SES E	REQUI	EST	ED
1 31 41 1 - 1 -	JLJ I	/L 40		

LAB. 40.: ORG- 333

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

	<u> </u>		[-]	15	
QUAL ITAT IVE	TTATIVE	PURGEABLE	ITATIVE	QUANTITATIV	EXTRACTABLE
QUALI	QUANTI	SCREENS	QUAL ]	QUAN	SCREENS
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN			CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN			CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
					POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
					TRIAZINE HERBICIDES
L	<b> </b>			<del> </del> -	
		SPECIFIC ,COMPOUNDS			SPECIFIC COMPOUNDS
				-	
	<del> </del>		+		
<del> </del>	<del> </del>		+-	<del>                                     </del>	
REN	IARKS	:		<del></del>	<u></u>

ANALYTICAL RESULTS

	1111211120112	1120210	
COMPOUND	[PPB]	COMPOUND	[PPB]
halogenated purgentles	roneletected		
bennede	50		
tolnene	290		
ethyloennane	none detected		
p-yelene	6	·	
m-xylene	70		
0-Xylane	9	-	
	,	* DETECTION LIMIT	1 nam/

REMARKS: Twenty-Six aromatic tappe compounds were also detected that were not identified.

CERTIFICATE OF ANALYTICAL PERSONNEL	
Seal(s) Intact: YesNO_X. Seal(s) broken by:	date:
I certify that I followed standard laboratory procedures on handling	g and analysis of this
sample unless otherwise noted and that the statements in this block	and the analytical dat
on this page accurately reflect, the analytical results for this samp	ple.
Date(s) of analysis: 28 Apr & 3 May 55. Analyst's signature: Africa	sien
I certify that I have reviewed and concur with the analytical result	ts for this sample and
with the statements in this block. Reviewers signature: A ma.	. e. 1 0.



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

RECEIVED 4/ 12 85 NO. WE-1711	USER 59300 Sample location	□ 59600 XX OTHI		235	Λ .	
SITE INFORM-		on & #1 Or	Ale	T, No	erapo ko	sing
III 4 Illected by — Person/Agency	Collection site description	Downstra	n 21	mille	let walve	PA
Bren Boca			10			<i></i>
CHAT DONMENTAL DIEDEAU	•				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
ENVIRONMENTAL BUREAU  NM OIL CONSERVATION DI	VISION					***********
NAL State Land Office Bidg		<b></b>	***************************************	***************************************		
Santa Fe, NM 8/501				*******************		
Attn: <u>David Boyer</u>	*************************					
			ation/ Il code			
AMPLING CONDITIONS		Ow	ner			
☐ Bailed ☐ Pump Water level	D	ischarge		Sample typ	pe lonb	
Dipped Tap		300 (	gpm	O - m ad constituti	OKNO	
pH (00400) 9. 7 Conductivity (Unc	μmho W	Vater Temp. (00010)	°C	Conductivi	ity at 25°C (96094)	umho
Field comments Strong or		DA.			J 31 1 3	
wing an	iiiana o c	ov f				
<u>J</u>				***************************************		
AMPLE FIELD TREATMENT — Check prop	er boxes					
No. of samples No. Whole sample	Filtered in fiel	44 -   101	H <sub>2</sub> SO <sub>4</sub> /	L added	· · · · · · · · · · · · · · · · · · ·	
No. of samples submitted NF: Whole sample (Non-filtered)		44 -   101	H₂SO₄/	L added		
No. of samples Whole sample	Filtered in fiel	44 -   101	IH₂SO₄/	L added		
No. of samples submitted	F: Filtered in fiel 0.45 µmemb	orane filter A: 2 mi	IH₂SO₄/	L added		
No. of samples submitted	Filtered in fiel 0.45 µmemb	F, NA			Units Date ana	lyzed
No. of samples Submitted	Filtered in fiel 0.45 µmemb	orane filter A: 2 mi	<u></u>		$mg/l = \frac{5/2}{5/2}$	
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)	Filtered in fiel 0.45 μmemb  Units Date analyzed  μmho	F. NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)	44. 6 (.3	6 7.2	mg/l 5/2 mg/l 5/2 mg/l 4//0	2
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  OF, NA  Conductivity (Corrected) 25 °C (00095)  Total non-filterable residue (suspended)	Filtered in fiel 0.45 μmemb  Units Date analyzed  μmho	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935)		6 7.2 18 5.2	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6	
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)	Units Date analyzed  μmho  mg/l	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940)		6 7.2 1.8 5.2 57.7	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6 mg/l 6/5	/5
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: DF 6.5	Units Date analyzed  μmho  mg/l	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945)		2.2 18 3.2 57.7 20.7	mg/l 5/2 mg/l 5/2 mg/l 4//0 mg/l 4//0 mg/l 6/5 mg/l 6/5	/5
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: PH 6.5  Other:	Units Date analyzed  _  _  _  _  _  _  _  _  _  _  _  _  _	F. NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)	- 44. 6	6 7.2 1.8 5.2 57.7 20.7 73	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 6/5 mg/l 5/8 ma/l 5/29	15
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: 6.5  Other: Other:	Units Date analyzed  _  _  _  _  _  _  _  _  _  _  _  _  _	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	- 44. 6 . 1.3 - 1. - 1.2 - 1.2 - 1.2 - M.	6 7.2 18 5.2 51.7 20.7 73	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 6/5 mg/l 5/8 ma/l 5/29	/5
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: 6.5  Other: Other:	Units Date analyzed  μmho  mg/l	F. NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)	- 44. 6 . 1.3 - 1. - 1.2 - 1.2 - 1.2 - M.	6 7.2 1.8 5.2 57.7 20.7 73	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 6/5 mg/l 5/8 ma/l 5/29	15
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: 6.5  Other: Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)	Units Date analyzed  _  _  _  _  _  _  _  _  _  _  _  _  _	F. NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	- 44. 6 . 1.3 - 1. - 1.2 - 1.2 - 1.2 - M.	6 7.2 18 5.2 51.7 20.7 73	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 6/5 mg/l 5/8 ma/l 5/29	15
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: 6.5  Other: Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N total (00630)  Ammonia-N total (00610)	Units Date analyzed	F. NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631)	- 44. 6 . 1.3 - 1. - 1.2 - 1.2 - 1.2 - M.	6 7.2 18 5.2 51.7 20.7 73	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 6/5 mg/l 5/8 ma/l 5/29	15
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: 6.5  Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahl-N (	Units Date analyzed	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N	- 44. 6 . 1.3 - 1. - 1.2 - 1.2 - 1.2 - M.	6 7.2 18 5.2 51.7 20.7 73	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 5/8 mg/l 5/8 mg/l 5/8	15
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen	Units Date analyzed mmho	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved	- 44. 6 . 1.3 - 1. - 1.2 - 1.2 - 1.2 - M.	6 7.2 18 5.2 51.7 20.7 73	mg/l 5/2 mg/l /5/2 mg/l /5/2 mg/l /4//0 mg/l /4//0 mg/l /6/5 mg/l /5/8 mg/l /5/8 mg/l /5/9 mg/l /6/5 mg/l /5/8	15
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahl-N ( )  Chemical oxygen demand (00340)  Total organic carbon	Units Date analyzed  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	- 44. 6 . 1.3 - 1. - 1.2 - 1.2 - 1.2 - M.	6 7.2 18 5.2 51.7 20.7 73	mg/l 5/2 mg/l 5/2 mg/l 4//6 mg/l 4//6 mg/l 6/5 mg/l 5/8 mg/l 5/8 mg/l 5/8	15
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added	Units Date analyzed  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N ( ) Other:	44. 6 1.3 1. 1.42 1.2 1.2 1.6	6 7.2 1.8 5.2 51.7 20.7 73 73 74.6	mg/l 5/2 mg/l /5/2 mg/l /5/2 mg/l /4//0 mg/l /4//0 mg/l /6/5 mg/l /5/8 mg/l /5/8 mg/l /6/5	15
submitted (Non-filtered)  NA: No acid added Other-specify:  NALYTICAL RESULTS from SAMPLES  F, NA  Conductivity (Corrected) 25°C (00095)  Total non-filterable residue (suspended) (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N () Chemical oxygen demand (00340)  Total organic carbon	Units Date analyzed  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N		6 7.2 18 5.2 51.7 20.7 73	mg/l 5/2 mg/l /5/2 mg/l /5/2 mg/l /4//0 mg/l /4//0 mg/l /6/5 mg/l /5/8 mg/l /5/8 mg/l /5/9 mg/l /6/5 mg/l /5/8	15



New Mexico Health and Environ SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 t Department

### GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

	100 - (303) 041-2333		
DATE CEIVED 4 12 85	LAB NO. WC -169 CODE 59	300 ☐ 59600 <u>XX</u> OTHER: 82	235
ection DATE	SITE Sample location		t, Narago Refin
Collection TIME	INFORM- ► ATION		
Collected by — Person/Agency	Collection site descrip	Downstream I	outlet valve/p
	1/Boco		
TAINT DONME	ATAL DUDEALL		
SEND NM OIL COI	NTAL BUREAU NSERVATION DIVISION		
FINAL State Land	d Office Bldg, PO Box 20	088 () ()	
santa re,	NM 87501		***************************************
Attn: <u>David B</u>	oyer		·
		Station/	
		well code Owner	
SAMPLING CONDITIONS  Bailed Pump	I Motor Invol	I Disabase	I Samula tuna
Dipped Tap	Water level	Discharge ~ 300 90m	Sample type 6R96
pH (00400) 9, 7	Conductivity (Uncorrected)	Water Temp. (00010)	Conductivity at 25 °C (00094)
	55 00 μmh		μmho
Field comments	oup aromatic	odo	
,		······································	
***************************************			
SAMPLE FIELD TREATME			
No. of samples	VP' / N.P'	d in field with $\mathbf{A}$ : 2 ml H <sub>2</sub> SO <sub>4</sub> /	'L added
☐ NA: No acid added ☐	Other-specify:	· · · · · · · · · · · · · · · · · · ·	
ANALYTICAL RESULTS fro			
NF, NA	Units Date analy		Units Date analyzed
Conductivity (Corrected) 25°C (00095)	µmho	☐ Calcium (00915) ☐ Magnesium (00925)	mg/l
		☐ Sodium (00930)	mg/l
<ul> <li>Total non-filterable residue (suspended)</li> </ul>		☐ Potassium (00935)	mg/l
(00530)	mg/l	☐ Bicarbonate (00440) ☐ Chloride (00940) ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	mg/l mg/l
☐ Other:		□ Sulfate (00945)	mg/l
Cother:		☐ Total filterable residue	
		(dissolved) (70300)	mg/l
#F, A-H <sub>2</sub> SO <sub>4</sub> ·		· · · · · · · · · · · · · · · · · · ·	
Nitrate-N + , Nitrate-N total (00630)	0.24 mg/1 4/23	F, A-H <sub>2</sub> SO <sub>4</sub>	
Ammonia-N total (00610)	10.66 mg/1 15/1	Nitrate-N +, Nitrate-N dissolved (00631)	ma /l
Total Kjeldahl-N	13.9 mg/1 5/29	☐ Ammonia-N dissolved	mg/l
Chemical oxygen		(00608)	mg/l
demand (00340)	<u>554</u> mg/l <u>5/1</u>	7 □ Total Kjeldahl-N	mg/l
Total organic carbon	<u>119</u> mg/1 <u>7/25</u>	Other:	
□ Other:	9/	Applied	Danadad   Danada
Other:			Reviewed by 29 55 Can
Laboratory remarks		1/_1	-110-1 Culin
	194^99444444		
•			



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555



DEIVED 4	12 85 N	C.HM-0696	USER 59300	o	THER: 82	235	
8500 ID		SITE INFORM- ►	Sample location	Pone #1 C	Jutle	t, Nara	go Refin
Collection TIME 4		ATION	Collection site description				<i>V</i>
Collected by — Person/Ac	gency Rocas	Roca		Downstra	am z	oulles	valve/p,
SEND N	NVIRONMENT		/ISION 208	8			
	Santa Fe, 1		, 10 000 200		***************************************		
-	David Boy						
,			********************		Station/ well code		
SAMPLING COM	NOITIONS				Owner		
□ Bailed	□ Pump □ Tap	Water level		Discharge ~ 36	0 5000	Sample type	206
pH (00400)	2.7	Conductivity (Unco	rrected) μmho	Water Temp. (00010)	9 °C	Conductivity at 25	°C (00094) µmho
Field comments	Stra	ug ord	matel 1	-la			
***************************************	ULG	7 200	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
***************************************	***************************************	- <u></u>	***************************************			************************	, .
SAMPLE FIELD	TREATMENT	Г — Check prope					
No. of samples omitted	/ □ NF	Whole sample (Non-filtered)	F: Filtered in 0.45 µme	field with A: 2 mbrane filter	? ml H₂SO₄/	L added	
□ NA: No aci	d added 🔼 🤇	Other-specify:	AHNDZ				
ANALYTICAL R			Units Date analyze	d F NA		Units	Date analyzed
☐ Conductivity (C	<del>,                                      </del>			☐ Calcium (00915)		mg/l	- Outc Bridiy200
25°C (00095)			umho	_	)	mg/l	
☐ Total non-filtera	ble			☐ Sodium (00930) ☐ Potassium (00935)		mg/l _	
residue (suspei	nded)		ma/l	☐ Bicarbonate (00440	)	mg/l _ mg/l _	
(00530)  Other:	W SOAN		mg/l	☐ Chloride (00940)		mg/l .	
& Other: AS		0.49	ng/R 5-17	Sulfate (00945)		mg/l _	<del></del>
☐ Other:			,	Total filterable residu (dissolved) (70300)		mg/l	
NF, A-H₂SO₄				☐ Other:			
Nr, A-H₂SO₄  ☐ Nitrate-N + Nit	rate-N			F, A-H <sub>2</sub> SO <sub>4</sub>			· · · · · · · · · · · · · · · · · · ·
total (00630)	<del></del>		mg/l	□ Nitrate-N + Nitrate-	·N		
☐ Ammonia-N tot			mg/l	dissolved (00631)		mg/l	
☐ Total Kjeldahl-N	ı		mg/l	☐ Ammonia-N dissolv	ed		
☐ Chemical oxyg demand (00340			mg/l	─ (00608) □ Total Kjeldahl-N		mg/l	
☐ Total organic ca			mg/l	( )		mg/l	
☐ Other:				Applyed	0-1-0		
Cther:	-			Analyst	Date H	eported Review	wed by hely
Laboratory remark	s					10 10 1	
			***************************************		*****************		
			,	***************************************			

# ICAP -SCREEN

Lab Number: # N # 696	Sample Code: Pond #1 Outlet
Date Submitted: 4/12/85	Date Reported: 6/18/85
By: Boyes / Baca)	By: (im Robby
m,	The state of
Determination	Concentration (µg/ml)
A.Lum Lnum	<.10
Barlum	4.10
Bery Llium	<.10
Boron	. 27
CadmLum	۷.10
Cale Lum	6 O.
Chromtum	<u> </u>
Cobalt	<.10
Copper	4.10
Lron	· < .ID
Lend	4,10
Magnes Lum	73.
Nanganese	. 05
Molybdenum	<u></u>
Nickel	<.10
SIIIcon	8.0
Silver	<.10
Strontium	<u> </u>
Tin	<u></u>
Vanadium	<.10
Yttrium	4.10
Zinc	<.10

# ATOMIC ABSORPTION ANALYSES

Arsenic	0.49	_րց/ա1
lolenium		_րց/տ1
lercury	•	ng/ml

# Refinery Sampling

"MCO"

Residenty Sample

# SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

TE OF NEW MEXICO

Albuquerque, NM 87106 841-2570

87-0738-C

REPORT TO:	David Boyer SILD. No. OR- 738-A-B
	N.M. Oil Conservation Division UN 261937 DATE REC. 5/5/87
	P. O. Box 2088
	Santa Fe, N.M. 87504-2088 PRIORITY
DUONE(C).	827-5812 USER CODE:   8   2   2   3   5
PHONE(S):	David Pavan
SUBMITTER:	\(\frac{1}{2}\)
1	ECTION CODE: (YYMMDDHHMMIII)  8/1/0/4/2/8/1/4/10/A/7/6
1	: WATER . SOIL ., FOOD ., OTHER: CODE: .
1	Eddy ; CITY: Arlesia CODE:
LOCATION COI	DE: (Township-Range-Section-Tracts) $1/7/5+26/E+0/9+3/1/(10N06E24342)$
1	QUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens
required. Whenev	ver possible list specific compounds suspected or required.  PURGEABLE SCREENS  EXTRACTABLE SCREENS
(753) Alipha	atic Purgeables (1-3 Carbons) [ (751) Aliphatic Hydrocarbons
(754) Aroma	atic & Halogenated Purgeables (760) Organochlorine Pesticides
(765) Mass	Spectrometer Purgeables (755) Base/Neutral Extractables
(766) Trihal	
Othe	r Specific Compounds or Classes (759) Herbicides, Triazines
	(760) Organochlorine Pesticides
	(761) Organophosphate Pesticides
	(764) Polychlorinated Biphenyls (PCB's)
	(762) SDWA Pesticides & Herbicides
Remarks:	
PIELD DATA:	
pH= C	Conductivity=5760 umho/cm at 23 % C; Chlorine Residual=mg/l
Dissolved Oxygen	n=mg/l; Alkalinity=mg/l; Flow Rate
Depth to water	ft.; Depth of wellft.; Perforation Intervalft.; Casing:
Sampling Location	on, Methods and Remarks (i.e. ostore, etc.)
Nava	of Refinery Fire Pond - From Romp of North
End	1- Receives Soiler effluent
I certify that t	he results in this block accurately reflect the results of my field analyses, observations and
	ire collector): A Rough Method of Shipment to the Lab: State (2)
This form accor	mpanies Septum Vials, Glass Jugs, and/or
Samples were p	reserved as follows:
NP:	No Preservation; Sample stored at room temperature.
P-Ice	Sample stored in an ice bath (Not Frozen).
CHAIN OF CU	Sample Preserved with Sodium Thiosulfate to remove chlorine residual.
1	his sample was transferred from to
at (location)	on : and that
the statements	in this block are correct. Evidentiary Seals: Not Sealed Seals Intact: Yes No
Signatures	

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter? \_\_\_\_ Initials

LAB. No.: OR- 738

# THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen  PURGEABLE SCREENS  (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Classes	ning method(s)	EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides	
AN	ALYTICAL	RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
arguetie surgeables	N.D.		
- Milwigenia fest Upunglables	N.D.		
* DETECTION LIMIT * *	1-48/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONE	THE STATED	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED)	
LABORATORY REMARKS:			
			<u> </u>
	-D .	FICAL PERSONNEL	
Seal(s) Intact: Yes   No  . Seal(s) broken b I certify that I followed standard laboratory procedu that the statements on this page accurately reflect	res on handling		l and
, ,	•	Eny l-blen	
I certify that I have reviewed and concur with the Reviewers signature:	analytical result		block.

	85-1320
REPORT TO:	David G. Boyer 85-0336 -C BORATORY
	New Mexico Oil Conservation Division LAB NUMBER $ORG-336-14-B$
	P. O. Box 2088  SLD PRIDRITY 3
100000000000000000000000000000000000000	Santa Fe, NM 87501 SLD Users Code No. 82235
ALL CONTAIN	IERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".
	CERTIFICATE OF FIELD PERSONNEL
· I	e: Water Soil Other
	y and/or Code No. Fire Pork, Narajo Referencing
City & Cour	ity Artesia Navajo Ropinery
Collected (	(date & time) \$5041D/0937 By (name) Boyen Boxen
pH= 11.8;	Conductivity= 6000 umho/cm at 16.5 °C; Chlorine Residual=
Dissolved (	Dxygen=mg/l; Alkalinity=; Flow Rate= ocation, Methods & Remarks (i.e. odors etc.)
samp	le Gram poul ramp, N. endofpoul, Little odos
I certify t	that the statements in this block accurately reflect the results of my field
I certify	that I witnessed these field analyses, observations and activities and concur
with the s	observations and activities. Signed that I witnessed these field analyses, observations and activities and concurtatements in this block. Signed
Method of S	Shipment to Laboratory <b>Head Carry</b> ACCOMPANIES <b>2</b> septum vials with teflon-lined discs identified as:
IHIS FURM A	accompanies septum viais with terion-imed discs identified as:  triplicate ; triplicate ; blank(s)
and ar	nber glass jug(s) with teflon-lined cap(s) identified as ,
Containers	; duplicate ; triplicate ; blank(s) , mber glass jug(s) with teflon-lined cap(s) identified as , ther container(s) (describe) identified as . are marked as follows to indicate preservation (circle):
INP:	No preservation; sample stored at room temperature (~20°C).
P-ICE:	Sample stored in an ice bath. Sample preserved with 3 mg Na <sub>2</sub> 0 <sub>3</sub> S <sub>2</sub> /40 ml and stored at room temperature.
2 3 2	232, 10
T (1.10)	CERTIFICATE(S) OF SAMPLE RECEIPT
i (we) cer	tify that this sample was transferred from to
	at (location) on
i	me) and that the statements in this block are correct.
	n of Sample Seal(s) Intact: Yes \( \simeg \) No \( \simeg \) .
Signature(	s)

I (we) certify that this sample was transferred from

Disposition of Sample\_\_\_\_\_\_. Seal(s) Intact: Yes 🗖

Signature(s)

(date & time) and that the statements in this block are correct.

No 🔲

ANALYSES REQUESTED

LAB. No.: ORG- 336

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

<u> </u>		·			[-]	
QUALITATIVE	QUANTITATIVE	PURGEABLE SCREENS	711 T T T T T T T T T T T T T T T T T T	QUALITATIVE	QUANTITATIV	EXTRACTABLE SCREENS
		ALIPHATIC HYDROCARBON SCREEN				ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN				CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN				CHLOROPHENOXY ACID HERBICIDES
		GAS CHROMATOGRAPH/MASS SPECTROMETER				HYDROCARBON FUEL SCREEN
						ORGANOPHOSPHATE PESTICIDES
						POLYCHLORINATED BIPHENYLS (PCB's)
						POLYNUCLEAR AROMATIC HYDROCARBONS
						TRIAZINE HERBICIDES
						2
-		SPECIFIC COMPOUNDS				SPECIFIC COMPOUNDS
-			+			
-			-			
			+		<u> </u>	
REM	IARKS	:	<u> </u>		<b>1</b>	

ANALYTICAL	RESULTS	
[PPB]	COMPOUND	[PPB]
Ales none detected		
hove detected		
more detected		0
- desected		
allesea		
- acuella		
none detected		
	* DETECTION LIMIT	Indulo
	[PPB]  Also none feterted  prove feterted  prove feterted  prove detected  prove detected  prove detected  prove feterted  prove feterted	Als none letected rone letected

that was not identil'

CERTIFICATE		
		PERSONNEL

Seal(s) Intact: Yes\_\_\_NO\_X. Seal(s) broken by: I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 28 April . Analyst's signature 25 France
I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature:



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 5	5 187 K	1B WC-1663	USER 59300	C soons (XX)	THER: 822	235
allection DATE	- 10/ NO	SITE	Sample location Sample	59600 \( \triangle \)	MEH: OL	jo Refinery
Collection TIME		INFORM- ► ATION	018.50	re Popo	Nora	prepinery
l 14-1/2 i			Collection site description	· · · · · · · · · · · · · · · · · · ·		, ,
Collected by — Person/Ac	Hukerso	/0CD				
·-V·)"						
	NVIRONMENT					
SEND FINAL	M OIL CONS	SERVATION DIV	1151UN PO Box 2088	3		
		M 87504-208				
	David Boy					
Aun		(	***************************************		Station	
Phon	e: 827-58	12			Station/ well code	
SAMPLING CO	NDITIONS				Owner	•
☐ Bailed	☐ Pump	Water level		Discharge	·	Sample type / C n P
DH (00400)	□ Tap	Conductivity (Unco	rmotod)	Motor Town (00010)		CRAB.
pri (00400)	1.5	5	700 µmho	Water Temp. (00010)	13,5°c	Conductivity at 25°C (00094)
Field comments	See Vi	ac sheet	(Son Con	nmont		
***************************************	OR VO	ac succ	(XD)	Ringing		
		······			<del></del>	
SAMPLE FIELD	TREATMENT	Г — Check prope	er boxes			
No. of samples	) □ NF	M/h ala a a sa a la	F: Filtered in	field with	ml H <sub>2</sub> SO <sub>4</sub> /	Laddad
submitted		(Non-filtered)	0.45 μmei	mbrane filter	1111 112304/	Ladded
NA: No aci	d added 🗆 C	Other-specify:	' □A:	5ml conc. HNO3 ad	ded 🗆 A	4: 4ml fuming HNO <sub>3</sub> added
ANALYTICAL R	ESULTS from	SAMPLES	· · · · · · · · · · · · · · · · · · ·			
NA NA			Units Date analyze	From F,	NA Sample	: Date
Conductivity (C 25°C (00095)	orrected)	5778	umho 5/13 +	, , , , , ,	Janpi	Analyzed
25 0 (00093)	<del>-,, ,,,,</del>	<del></del>	ZIIIIO	🔯 Calcium	< 1	mg/1 6//
☐ Total non-filtera residue (susper						
(00530)	—— <u> </u>		mg/1	Potassium _		
Cother: pH		1,29	5/19	_ Magnesium _		mg/1 <i>6//</i>
☐ Other:				- Sodium	1281	mg/1 <i>5/2</i> 6
Onler.				🗌 🔯 Bicarbonate	interfere	mcemg/1
A-H₂SO₄				Chloride	321	mg/1
☐ Nitrate-N+, Nit	trate-N			Sulfate	1718	$mg/1 \frac{5}{20}$
total (00630)  Ammonia-N tot	al (00610)		mg/l	☐ ▼ Total Solid		<del></del>
☐ Total Kjeldahl-N			9/	1. ~ ·	77	3 0 3
( )			mg/l	N Fluor	ICK 3	.36 5/27
☐ Chemical oxyg demand (0034			mg/l			
☐ Total organic ca	arbon		mail	<del>                                    </del>		
( )			mg/l	Cation/A		
☐ Other:				Analyst	Date Re	
Laboratory					161	2 87 CD
Laboratory remark	s T=24	٠٤ . (٠	OH® inter	terance w/ H	CO, D	fermination)
<b>T</b>					<u></u>	
FOR OCD USE	E Date 0	wner Notifie	ed.	Phone or Lette	er?	Initals

ANALYTE	CATIONS MEQ.	PPM	DET.	ANALYTE	ANIONS MEQ.	PPM	DET. LIMIT
Ca Mg Na K	0.00 0.00 55.72 0.10	0.00 0.00 1281.00 3.90	<3.0 <0.3 <10.0 <0.3	SO4	10.98 35.79 9.06	670.00 1 <del>718.0</del> 0 321.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00	       	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
	55.82 Dissolved Lance =	1284.90 Solids= 99.99%	;       3538	WC Date c	55.83 C No. out/By	2709.00 = 8701663 6/2/67	_



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE LACTURE TO S	TIAR	LISED	VV				
RECEIVED 4 /2 83	LAB NO.412 -1714	USER 5930			235		
Collection DATE  SOLUTION TO SERVICE TO SERV	SITE INFORM- ►	Sample location	Novaja Rog	snery	fun	z Pô	rs.
	ATION	Collection site description	Can A-in	at N	1 One SI	D 1	m. (2)
Collected by — Person/Agency	Para CCD		3000 ROSING	ar iv	o PISK	By.	
9777							***************************************
FNVTRON	MENTAL BUREAU			***************************************			
SEND NM OIL	CONSERVATION DI	VISION					
FINAL State L	and Office Bldg	, PO Box 208	8			***************************************	
REPORT Santa F	e, NM 87501			*********			
Attn:David	Bover			***************************************		***************************************	
/ (((1),		********************		N-011			
				station/ vell code			
SAMPLING CONDITION	s		G	)wner			
☐ Bailed ☐ Pump	Water level		Discharge		Sample to	100	"T yet waren
Dipped			- Sistinarye		Jumpio		AR
pH (00400)	Conductivity (Unc	orrected)	Water Temp. (00010)	•	Conducti	vity at 25	C (00094)
ph (00400) 11. B	60	μmho	Water remp. (cools)	. <b>S</b> °C	72	<u> </u>	1 Pumho
Field comments	Tight on m	a page				J	, ,
	) fi Java 0 1 4 8 8		***************************************	***************************************			
***************************************			7776708086664471147777786688868884511477777747474				
SAMPLE FIELD TREAT	AENT Chock prop	or boyos	<del></del>				
- No of complex	\A/hala aamala	Filtered in	field with				
submitted	□ NF: Whole sample (Non-filtered)	78 1	mbrane filter	nl H₂SO₄/	L added		
	<del></del>	<u>'</u>					
NA: No acid added	□ Other-specify:						
ANALYTICAL RESULTS	from SAMPLES						
<b>M</b> F, NA		Units Date analyze	d F, NA			Units	Date analyzed
☐ Conductivity (Corrected)			@ Calcium (00915)			_ mg/l _	5/2
25°C (00095)	<del> </del>	μmho	🗕 🖋 Magnesium (00925) 🖔		. 1	_ mg/l _	5/2 .07
☐ Total non-filterable			Sodium (00930)		30	_ mg/l _	4/16
residue (suspended)		·	Potassium (00935) Bicarbonate (00440)		ne, et = 11.	_ mg/l _ ///mg/l	4/16
(00530)		mg/l	Chloride (00940)		5.9	_ mg/i _	6/5
S Other: p# ///0	•	-	Sulfate (00945)		983	_ mg/l _	5/8
☐ Other: ☐ Other:		<del></del>	Total filterable residue		ind		/
U Other.			(dissolved) (70300)		1628 425.2	_ mg/l _	. ,,
NF, A-H <sub>2</sub> SO <sub>4</sub>		·	Other:		425°2 , 48		5/3/85
☐ Nitrate-N + , Nitrate-N			F, A-H <sub>2</sub> SO <sub>4</sub>		<del>, , , , , , , , , , , , , , , , , , , </del>	•	77
total (00630)		-	□ Nitrate-N + , Nitrate-N				
☐ Ammonia-N total (00610)		mg/l	dissolved (00631)			_ mg/l _	
☐ Total Kjeldahl-N		ma/l	☐ Ammonia-N dissolved				
( )  Chemical oxygen		. mg/l	(00608)			_ mg/l _	
demand (00340)		mg/l	☐ Total Kjeldahl-N				
☐ Total organic carbon		-	( ) □ Other:			_ mg/I _	
( )		mg/l	-	-			· · · · · · · · · · · · · · · · · · ·
☐ Other:		<del></del>	Analyst	Date R	eported	Reviev	ved by
Char:			7 11101751		•	1	
☐ Other:			-	6	10 8		
aboratory remarks				6			
aboratory remarks	Tesforance				10 8	5 (	
aboratory remarks	Terforence				10 8	5 (	



New Mexico Health and Environ and Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

### **GENERAL WATER CHEMISTRY** and NITROGEN ANALYSIS

CEIVED 4 12 85 NO	AB WC -/695 USER ☐ 593	00 □ 59600 <del>X</del> X 0	THER: 822	235	
RSIGAI /O	SITE INFORM- > Sample location	Narajo Ra			R
6931	Collection site description	ion Eron Dama	at N.	end or Da	re l
Boyer / Box	s ab	3/1/14   5011-9	·····	0	
ENVIRONMENT SEND NM OIL CONS FINAL State Land REPORT Santa Fe, N Attn: David Boy	SERVATION DIVISION Office B1dg, PO Box 208 NM 87501	88			
			Station/ well code		
SAMPLING CONDITIONS			Owner		
☐ Bailed ☐ Pump	Water level	Discharge	L'	Sample type	
© Dipped		-		6RH	B
pH (00400) 11. B	Conductivity (Uncorrected)  µmho	Water Temp. (00010)	.5 00	Conductivity at 25°C	(00094) µmho
Field comments	Mo no olos				
J.1.9	an orino vaco)				
***************************************	***************************************		***************************************	***************************************	
SAMPLE FIELD TREATMENT	Г — Check proper boxes				
No. of samples  mitted		in field with A: 2	ml H₂SO₄/I	L added	
	<del></del>	iombiane inter			
□ NA: No acid added □ C					
ANALYTICAL RESULTS from	برخت کے برانے کے برانے کے بات کے	rod S NA		Units	Data analyzad
	Units Date analyz				Date analyzed
Conductivity (Corrected) 25°C (00095)	μmho	☐ Calcium (00915) ☐ Magnesium (00925)		mg/l mg/l	
☐ Total non-filterable		☐ Sodium (00930)		mg/l	
residue (suspended)	·	<ul> <li>Potassium (00935)</li> </ul>			
(00530)	•	□ Bicarbonate (00440)		mg/l	
	mg/l	— ☐ Bicarbonate (00440) ☐ Chloride (00940)		mg/l	
Other:	mg/l	☐ Bicarbonate (00440) ☐ Chloride (00940) ☐ Sulfate (00945)			
☐ Other:	mg/l	☐ Chloride (00940) ☐ Sulfate (00945) ☐ Total filterable residue	)	mg/l mg/l mg/l	
Other:	mg/l	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)	)	mg/l mg/l	
☐ Other: ☐ Other: <b>ØF</b> , A-H <sub>2</sub> SO <sub>4</sub>	mg/l	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	)	mg/l mg/l mg/l	
☐ Other: ☐ Other: ☐ Other: ☐ Nitrate-N +, Nitrate-N		Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub>	)	mg/l mg/l mg/l	
Other: Other:	mg/1 /23 /0.06 mg/1 /23	☐ Chloride (00940) ☐ Sulfate (00945) ☐ Total filterable residue (dissolved) (70300) ☐ Other:  F, A-H₂ SO₄ ☐ Nitrate-N +, Nitrate-	)	mg/lmg/l mg/l mg/l ma/l	
Other: Other: Nitrate-N +, Nitrate-N total (00630)	10.06 mg/1 423 10.06 mg/1 15/14	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub>	N	mg/l mg/l mg/l	
☐ Other: ☐ Other: ☐ Other: ☐ Other: ☐ WF, A-H₂SO₄  Nitrate-N +, Nitrate-N total (00630) ☑ Ammonia-N total (00610) ☐ Total Kjeldahl-N ( ) ☐ Chemical oxygen	10.06 mg/l 423 10.06 mg/l 115/14 10.0 mg/l 5/29	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-dissolved (00631) Ammonia-N dissolved (00608)	N	mg/lmg/l mg/l mg/l ma/l	
Other: Other: Other: Nitrate-N +, Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340)	10.06 mg/1 423 10.06 mg/1 115/14 10.0 mg/1 5/29 120 mg/1 5/17	Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-dissolved (00631)  Ammonia-N dissolved	N	mg/lmg/lmg/lmg/lmg/lmg/l	
Other: Other: Other: Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon ( )	10.06 mg/l 1/23 10.06 mg/l 1/5/14 10.0 mg/l 5/29	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-dissolved (00631) Ammonia-N dissolved (00608)	N	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	
Other: Other: Other: Nitrate-N +, Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( Chemical oxygen demand (00340) Total organic carbon ( Other:	10.06 mg/l 1/23 10.06 mg/l 1/5/14 10.0 mg/l 5/17 120 mg/l 5/17	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	N ed	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Į by
Other: Other: Other: Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-N total (00630)  Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340)  Total organic carbon ( )	10.06 mg/l 1/23 10.06 mg/l 1/5/14 10.0 mg/l 5/17 120 mg/l 5/17	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	N ed	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	by
Other: Other: Other: Nitrate-N +, Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( Chemical oxygen demand (00340) Total organic carbon ( Other:	10.06 mg/l 1/23 10.06 mg/l 1/5/14 10.0 mg/l 5/29 120 mg/l 5/17	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	N ed	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	1 by Can
Other: Other: Other: Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610)  Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( ) Other: Other:	10.06 mg/l 1/23 10.06 mg/l 1/5/14 10.0 mg/l 5/29 120 mg/l 5/17	Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, Nitrate-dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	N ed	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	by

ICP7- 0247

w Mexico is alth and Environment Department
SENTIFIC LABORATORY DIVISION
SCAMINO de Salud NE

INCRAEWATER CHEMISTRY and NITROGEN ANALYSIS

Albuquerque, NM 87106 -- (505) 841-2555

	كالمستا السمال	ND MACLES   USER -		02	235	
DATE RECEIVED S	15 187 K		300 🗆 59600 🖎	01.12.1.		<u>.                                    </u>
BOILDAI 2	ic ic	INFORM- Sample location	vie Pond	Nova	10 Repipery	
Collection TIME	1 .	ATION				
Collected by — Person/	Agency ()	Collection site descrip	otion		/	
132014	Thrifere	7, /OCD		7		
- V J	140 FT 151 BALLEY		122.00° *			
	ENVIRONMENT	TAL BUREAU				
END INAL	NM OIL CONS	SERVATION DIVISION Office Bldg, PO Box 20	188			
EPORI	Santa Fo	NM 87504-2088	,00			<del></del>
0						
Attn	: _David_Boy	yer				
Pho	ne: 827-58	812	•	Station/ well code		
AMPLING CO		,		Owner		
Bailed	□ Pump	Water level	Discharge		Comple tune	
Dipped	☐ Tap	Andrea level	Discharge		Sample type	
pH (00400)	11 /	Conductivity (Uncorrected)	Water Temp. (00010)	22 5	Conductivity at 25°C (0009	4)
	11.5	5700 µmh	0	23.5°c	· ·	<u>μ</u> mho
Field comments	5ec 17	oc sheet for co	mmenti			
	0 22 1	CC Space Sc Sc	" realized	<del>,</del>		
			•	<del></del>		
AMPLE FIEL	D TREATMEN	T — Check proper boxes				
No. of samples			in field with	0-111 00	//	
submitted	NF	F' '   M F'	membrane filter	2 ml H₂SO₄/	L added	•
□ NA: No ac	id added 🗆 C	Other-specify:		dded 🔽	A: 4ml fuming HNO.	addeo
	cid added 🗆 C			dded 📐	A: 4ml fuming HNO	added
NALYTICAL	eid added   RESULTS from	n SAMPLES	5ml conc. HNO <sub>3</sub> a	dded	A: 4ml fuming HNO	addec
NALYTICAL I	RESULTS from		5ml conc. HNO <sub>3</sub> a		e: Date	
NALYTICAL	RESULTS from	n SAMPLES Units Date analy	5ml conc. HNO <sub>3</sub> a		<i>3</i>	
NALYTICAL I	RESULTS from	n SAMPLES	5ml conc. HNO <sub>3</sub> a	NA Sample	e: Date Analyzed	
Conductivity ( 25°C (00095)	Corrected)	n SAMPLES Units Date analy	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium	NA Sample	e: Date Analyzed mg/l_	
Conductivity ( 25°C (00095)  Total non-filter residue (susp (00530)	Corrected)	n SAMPLES Units Date analy	5ml conc. HNO <sub>3</sub> a	NA Sample	e: Date Analyzed mg/lmg/l	
Conductivity ( 25°C (00095)  Total non-filter residue (susp (00530)  Other:	RESULTS from Corrected)  rable ended)	n SAMPLES  Units Date analy  μmho  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium	NA Sample	e: Date Analyzed mg/l_	
Conductivity (25°C (00095)  Total non-filter residue (susp (00530)  Other:	Corrected)  rable ended)	n SAMPLES Units Date analy μmho mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium	NA Sample	e: Date Analyzed mg/lmg/l	<del></del>
Conductivity (25°C (00095)  Total non-filter residue (susp (00530)  Other:	Corrected)  rable ended)	n SAMPLES  Units Date analy  μmho  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium	NA Sample	e: Date	<del></del>
Conductivity ( 25°C (00095)  Total non-filter residue (susp	Corrected)  rable ended)	n SAMPLES Units Date analy μmho mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat	NA Sample	mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (25°C (00095)  Total non-filter residue (susp (00530)  Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub>	RESULTS from Corrected)  rable ended)  A P	n SAMPLES Units Date analy μmho mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride	NA Sample	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	<del></del>
Conductivity (25°C (00095)  Total non-filter residue (susp (00530)) Other: Other:	RESULTS from Corrected)  rable ended)  A P  Ly AA   Ly AA	m SAMPLES  Units Date analy	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate	NA Sample	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity ( 25°C (00095)  Total non-filter residue (susp (00530)  Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630)  Ammonia-N to	RESULTS from Corrected)  rable ended)  A P A A   Litrate-N  otal (00610)	m SAMPLES  Units Date analy  µmho  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride	NA Sample	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
□ Conductivity ( 25°C (00095) □ Total non-filter residue (susp (00530) □ Other: □ O	RESULTS from Corrected)  rable ended)  A P A A   Litrate-N  otal (00610)	m SAMPLES  Units Date analy	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate	NA Sample	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (25°C (00095)  Total non-filter residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630)  Ammonia-N to Total Kjeldahl (	RESULTS from Corrected)  rable ended)  A A S  Litrate-N  otal (00610)  -N  gen	m SAMPLES  Units Date analy	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate	NA Sample	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	<del></del>
Conductivity (25°C (00095)  Total non-filter residue (susp (00530)  Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630)  Ammonia-N to Total Kjeldahl (1)  Chemical oxy demand (003	RESULTS from Corrected)  rable ended)  A A A S  A A S  A A S  A A S  A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A A	m SAMPLES  Units Date analy	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate	NA Sample	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	<del></del>
Conductivity (25°C (00095)  Total non-filter residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630)  Ammonia-N to Total Kjeldahl (	RESULTS from Corrected)  rable ended)  A A A S  A A S  A A S  A A S  A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A A	m SAMPLES  Units Date analy  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate Total Soli	NA Sample	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	<del></del>
Conductivity (25°C (00095)  Total non-filter residue (susp (00530)  Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630)  Ammonia-N to Total Kjeldahl (1)  Chemical oxy demand (003	RESULTS from Corrected)  rable ended)  A A A S  A A S  A A S  A A S  A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A A	m SAMPLES  Units Date analy	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate Total Soli	NA Sample  e  ds	## Date ### Analyzed  ###################################	
Conductivity (25°C (00095)  Total non-filter residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630) Ammonia-N to Total Kjeldahl ( ) Chemical oxy demand (003 Total organic ( )	RESULTS from Corrected)  rable ended)  A A A S  A A S  A A S  A A S  A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A S  A A A A	m SAMPLES  Units Date analy  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate Total Soli	NA Sample  e  anion Ba  Date R	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	<del></del>
NALYTICAL  Total non-filter residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630) Ammonia-N to Total Kjeldahl ( ) Chemical oxy demand (003 Total organic ( ) Other: Other:	RESULTS from Corrected)  rable ended)  A P A A S  litrate-N  otal (00610)  -N  gen 40) carbon	m SAMPLES  Units Date analy  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate Total Soli	NA Sample  e  ds	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	<del></del>
Conductivity (25°C (00095)  Total non-filter residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630) Ammonia-N to Total Kjeldahl ( ) Chemical oxy demand (003 Total organic ( ) Other:	RESULTS from Corrected)  rable ended)  A P A A S  litrate-N  otal (00610)  -N  gen 40) carbon	m SAMPLES  Units Date analy  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate Total Soli	NA Sample  e  anion Ba  Date R	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
Conductivity (25°C (00095)  Total non-filter residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630) Ammonia-N to Total Kjeldahl ( ) Chemical oxy demand (003 Total organic ( ) Other: Other:	RESULTS from Corrected)  rable ended)  A P A A S  litrate-N  otal (00610)  -N  gen 40) carbon	m SAMPLES  Units Date analy  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate Total Soli	NA Sample  e  anion Ba  Date R	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	<del></del>
NALYTICAL  Total non-filter residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, N total (00630) Ammonia-N to Total Kjeldahl ( ) Chemical oxy demand (003 Total organic ( ) Other: Other:	RESULTS from Corrected)  rable ended)  A P A A S  litrate-N  otal (00610)  -N  gen 40) carbon	m SAMPLES  Units Date analy  μmho  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	5ml conc. HNO <sub>3</sub> a  zed From,  Calcium Potassium Magnesium Sodium Bicarbonat Chloride Sulfate Total Soli	NA Sample  e  anion Ba  Date R	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	

# ICAP SCAN

SLD Lab No	TCP 247
Analyst 0B	/ OK
Date Analyze	a 5/7/87

Reviewed by: 1/9/87

Date Reported: 7/9/87

<u>ement</u> <u> </u>	CAP VALUE (mg/l)	AA VALUE (mg
Aluminum	20.1	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
Barium	<0.1	
Beryllium	<0.1	
Boron	0.1	
Cadmium	<0.1	
Calcium	3.0	
Chromium	40.1	<0.005
Cobalt	< 0.05	
Copper	<0.1	-
Iron	0.2	· <del></del>
Lead	40.1	<0.01
Magnesium	0.4	
Manganese	40.05	
Molybdenum	40.1	
Nickel	<u> </u>	
Silicon	23.	
Silver	40.1	
Strontium	<0.1	
Tin	<0.1	
Vanadium	<0.1	
Zinc	<0.1	
Arsenic		
Selenium		
Mercury		

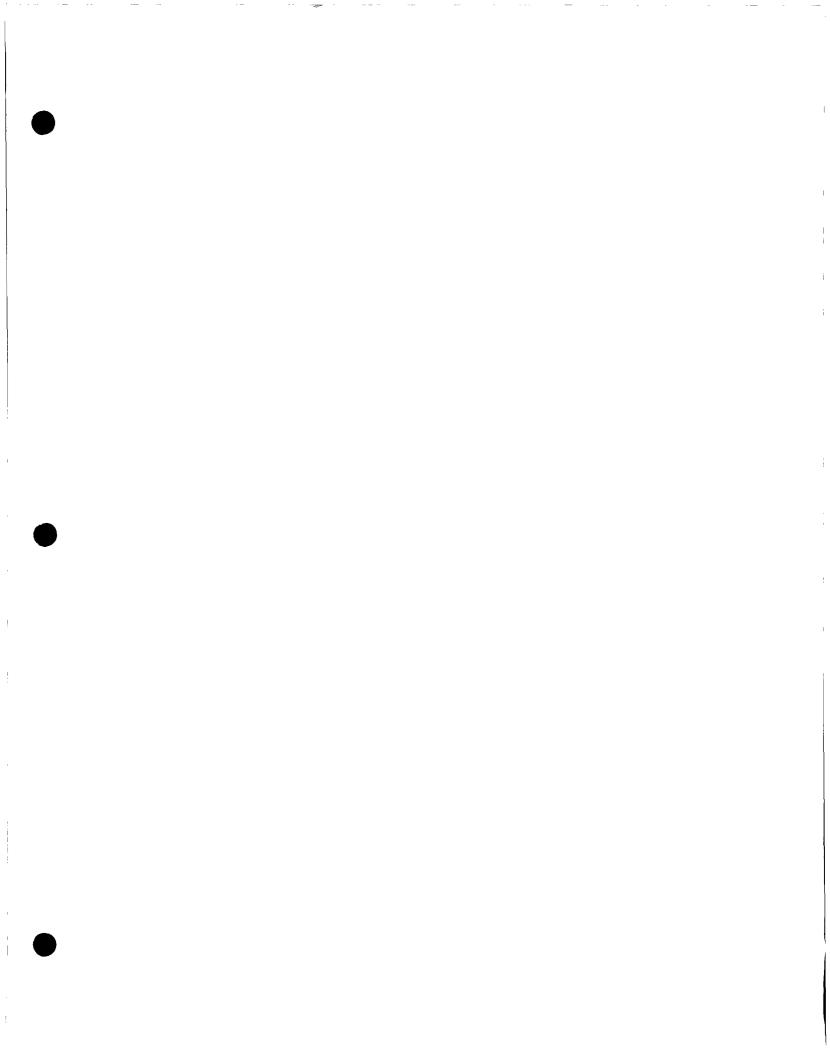


New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

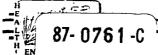
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35104 10		SITE	Sample location	Narrio Ro	Lines	Fire Po.	ne de
Collection TIME		INFORM- ► ATION	***************************************	The Type 19	June	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
<u> </u>			Collection site description	on Lagran Davis	EATN	end or	Park
Collected by — Person/Ac	CHAN / ROC	a OCS		37 MM KON199		5	
F	NVIRONMEN	TAL BUREAU					
SEND N	M OIL CONS	SERVATION DIV	ISION	_		***************************************	
FINAL S		Office Bldg,	PO Box 208	38			***************************************
io S	Santa Fe, I	NM 87501					
Attn:	David Boy	yer				<u> </u>	
	•	,			Station/		
					well code		
SAMPLING CON	NDITIONS				Owner		
	☐ Pump	Water level	<del></del>	Discharge	<del></del>	Sample type	
Dipped	□ Tap			<b>-</b> 6.		6K	AB
pH (00400)	1.8	Conductivity (Uncor		Water Temp. (00010)	6.5° °C	Conductivity at 25	
<del></del>	1.0	600	μmho		8-7 0	<u> </u>	μmho
Field comments	5/2	the on mi	DOROT				
***************************************		M. Madesans Vancaria carata Singia	,			***************************************	
***************************************	***************************************		,#************************************				
SAMPLE FIELD	TREATMEN	T — Check proper	rboxes				
No. of samples		T — Check proper		n field with	2 - 1 - 1 - 2 - 2	(Loddod	<u> </u>
	TREATMEN	M/hala samala	Filtered i	n field with	2 ml H₂SO₄/	'L added	
No. of samples pmitted	∫ □ NE	Whole sample (Non-filtered)	F: Filtered i		2 ml H₂SO₄ <i>i</i>	'L added	
No. of samples omitted	d added &	F: Whole sample (Non-filtered) Other-specify:	Filtered i		2 ml H₂SO₄/	/L added	
No. of samples omitted  NA: No acid	d added &	F: Whole sample (Non-filtered) Other-specify:	F: Filtered in 0.45 µm	embrane filter A: 2	2 ml H₂SO₄/		
No. of samples omitted  NA: No acid  ANALYTICAL R  F, FA HAND	d added &C	F: Whole sample (Non-filtered) Other-specify:	F: Filtered i	embrane filter A:	2 ml H₂SO₄ <i>i</i>	L added	Date analyzed
No. of samples omitted  NA: No acid  NALYTICAL R  F, FA HAND  Conductivity (C	d added &C	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered i 0.45 µm  AMNOS  Units Date analyz	embrane filter  ed F, NA  Calcium (00915)		Units mg/l	Date analyzed
No. of samples omitted  NA: No acid  ANALYTICAL R  F, FA HAND	d added &C	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered in 0.45 µm	embrane filter  ed F, NA  Calcium (00915)  Magnesium (00925		Units mg/l mg/l	Date analyzed
No. of samples omitted  NA: No acid  NALYTICAL R  F, FA HAD  Conductivity (C 25°C (00095)	d added AC	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered i 0.45 µm  AMNOS  Units Date analyz	embrane filter  ed F, NA  Calcium (00915)		Units mg/l	Date analyzed
No. of samples bmitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA HNO  Conductivity (C 25°C (00095)  Total non-filtera residue (susper	d added SC ESULTS from Scorrected)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered i 0.45 µm  ANUS  Units Date analyz	embrane filter  ed F, NA  Calcium (00915)  Magnesium (00925) Sodium (00930)	)	Units mg/l mg/l mg/l	Date analyzed
No. of samples bmitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA HNO  Conductivity (C 25°C (00095)  Total non-filtera residue (susper	d added SC ESULTS from Scorrected)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered i 0.45 µm  AMNOS  Units Date analyz	embrane filter  ed F, NA  Calcium (00915)  Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940)	)	### Units    mg/l     mg/l     mg/l     mg/l     mg/l     mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA HAVI  Conductivity (C 25°C (00095)  Total non-filteral residue (suspen (00530))  Other:	d added SC ESULTS from Scorrected)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered i 0.45 µm  ANUS  Units Date analyz  umho	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945)	)	### Units    mg/l     mg/l     mg/l     mg/l     mg/l     mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA HAVI  Conductivity (C 25°C (00095)  Total non-filteral residue (suspen (00530))  Other:	d added SC ESULTS from Scorrected)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered i 0.45 µm  ANUS  Units Date analyz  umho	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu	))	Units   mg/l   mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F. FA HAVI  Conductivity (C 25°C (00095)  Total non-filtera residue (susper (00530)  Other: AC  Other: AC  Other: AC  Other:	d added SC ESULTS from Scorrected)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered i 0.45 µm  ANUS  Units Date analyz  umho	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945)	))	### Units    mg/l     mg/l     mg/l     mg/l     mg/l     mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F. FA HAND  Conductivity (C 25°C (00095)  Total non-filtera residue (susper (00530)  Other: AS	d added SC ESULTS from Scorrected)	F: Whole sample (Non-filtered) Other-specify: n SAMPLES	F: Filtered i 0.45 µm  ANUS  Units Date analyz  umho	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other:	))	Units   mg/l   mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA FOR  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nit	d added SC ESULTS from Corrected)	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES	F: Filtered i 0.45 µm  ANNOS  Units Date analyz  umho  mg/l  S//7/8:	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub>	)	Units   mg/l   mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA FANO  Conductivity (C 25°C (00095)  Total non-filteral residue (suspendo (00530)  Other: Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N + , Nitrate (00630)	d added AC ESULTS from Corrected)  ible inded)  SCAN  trate-N	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES	F: Filtered i 0.45 µm  A ANOS  Units Date analyz  umho  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate	)	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F. FA FARIA  Conductivity (C 25°C (00095)  Total non-filtera residue (susper (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrotal (00630)  Ammonia-N tot	d added Acceptance of the contracted of the cont	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES	F: Filtered i 0.45 µm  ANNOS  Units Date analyz  umho  mg/l  S//7/8:	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate dissolved (00631)	)	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	
No. of samples bmitted  NA: No acid  NA: No acid  ANALYTICAL R  OF, FA HAND  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrotal (00630)  Ammonia-N tot  Total Kjeldahl-N	d added AC ESULTS from Corrected)  ble inded)  trate-N  al (00610)	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  U	F: Filtered i 0.45 µm  A ANOS  Units Date analyz  umho  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolved	)	Units   mg/l   mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA FARIL  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrotal (00630)  Ammonia-N tot  Total Kjeldahl-N ()  Chemical oxyg	d added AC ESULTS from Corrected)  ble inded)  trate-N  cal (00610)  n	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  U	F: Filtered i 0.45 µm  A ANOS  Units Date analyz  umho  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate dissolved (00631)	)	Units   mg/l   mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F. FA FARE  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530))  Other:  Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrotal (00630)  Ammonia-N tot  Total Kjeldahl-N ()  Chemical oxygdemand (00340)	d added Acceptance of the corrected of t	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  U	F: Filtered i 0.45 µm  A ANOS  Units Date analyz  umho  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	)	Units   mg/l   mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA FARIL  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrotal (00630)  Ammonia-N tot  Total Kjeldahl-N ()  Chemical oxyg	d added Acceptance of the corrected of t	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  U  Oo OD Mylo	F: Filtered i 0.45 µm  A ANOS  Units Date analyz  umho  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	)	Units   mg/l   mg/l	
No. of samples omitted  NA: No acid  NA: No acid  ANALYTICAL R  F, FA FOOD  Conductivity (C 25°C (00095)  Total non-filtera residue (susper (00530)  Other:  Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrotal (00630)  Ammonia-N tot  Total Kjeldahl-N ( )  Chemical oxyg demand (00344)  Total organic ca ( )  Other:	d added Acceptance of the corrected of t	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  U  Oo OD Mylo	F: Filtered i 0.45 µm  A ANOS  Units Date analyz  unho  mg/l  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:	-N		
No. of samples bmitted  NA: No acid  NA: No acid  ANALYTICAL R  OF, FA ANO  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other:  Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrotal (00630)  Ammonia-N total (00630)  Ammonia-N total (00630)  Chemical oxygodemand (00340)  Chemical oxygodemand (00340)  Total organic call (00630)	d added Acceptance of the corrected of t	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  U  Oo OD Mylo	F: Filtered i 0.45 µm  A ANOS  Units Date analyz  unho  mg/l  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N	) ————————————————————————————————————	Units   mg/l   mg/l	ved by
No. of samples bmitted  NA: No acid  No. AnalyTical R  F, FA FOO  Conductivity (C 25°C (00095)  Total non-filteral residue (susper (00530)  Other:  Other:  NF, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrotal (00630)  Ammonia-N tot  Total Kjeldahl-N ( )  Chemical oxyg demand (00344)  Total organic ca ( )  Other:	d added screeted)  ESULTS from  Corrected)  Itale (00610)	F: Whole sample (Non-filtered) Other-specify:  n SAMPLES  Oo Oo May In	F: Filtered i 0.45 µm  A ANOS  Units Date analyz  unho  mg/l  mg/l  mg/l  mg/l  mg/l	embrane filter  ed F, NA  Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N () Other:  Analyst	) ————————————————————————————————————		

### ICAP SCREEN

Date Submitted: 4/12/85	Date Reported: 6/17/85
By: Boyer/Baco	By: Jim ashly
	Date Analyzed: 4/12/85
*	
Determination	Concentration (jig/ml)
	1 V 1 TO THE TOTAL OF THE TOTAL
Aluminum 3 131 8	1985 < 0.10
Bar1um A	40.10
Berylllum OL CONSERVA	TION DIVISION 40.10
Boron	0.19
Cadmium	20.16
Calcium	3.4
ChromLum	40.10
Cobalt	4 0.10
Copper	40.10
Iron	0.10
Lead	40.10
Magneslum	0.35
Manganese	20.05
Molybdenum	
Nickel	<0.10
S111con	30.
Silver	20.10
Stront1um	<0.10
TIn	40.10
Vanadium	40.10
Yttrlom	<0.10
Zine	40.10
	ORPTION ANALYSES
Determination	Concentration (µg/m)
Arsen1c	0.02
Selenium	V
Mercury	**************************************



SCIENTIFIC LABORATORY DIVISION TO Camino de Salud NE Albuquerque, NM 87106 841-2570



REPORT TO:	David Boyer	S.L.D. No. OR- 761-A-B
	N.M. Oil Conservation Division	DATE REC. 5-5-87
	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812	USER CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE:  2   6   0
SAMPLE COLLE	CTION CODE: (YYMMDDHHMMIII)   8   7   0   4	12181/1412151 1281
SAMPLE TYPE:	WATER , SOIL , FOOD , OTHER:	CODE:
COUNTY: 50	U GODY ; CITY: ARTESIA	CODE:
LOCATION COD	E: (Township-Range-Section-Tracts) 1/17 5+21	6 E + / 2 + 3 /   / (10N06E24342)
	UESTED: Please check the appropriate box(es) below to	
_	er possible list specific compounds suspected or required.  PURGEABLE SCREENS	EXTRACTABLE SCREENS
(753) Alipha	tic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons
	tic & Halogenated Purgeables	(760) Organochlorine Pesticides
l '='	Spectrometer Purgeables	(755) Base/Neutral Extractables
(766) Trihalo	<u> </u>	[ (758) Herbicides, Chlorophenoxy acid
Other	Specific Compounds or Classes	759) Herbicides, Triazines 7(760) Organochlorine Pesticides
		(761) Organophosphate Pesticides
		(767) Polychlorinated Biphenyls (PCB's)
		764) Polynuclear Aromatic Hydrocarbons
		] (762) SDWA Pesticides & Herbicides
Remarks: NA	VAJO REFINERY	
Product K	YAJO REFINERY BECOVERY WELL 4	
FIELD DATA:	·	
pH=; Co	onductivity= 2300 umho/cm at 2/°C; Chlorine Re	esidual=mg/l
Dissolved Oxygen	=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to water	ft.; Depth of well ft.; Perforation Interva	alft.; Casing:
	n, Methods and Remarks (i.e. odors, etc.)	
Resp	very well, hydrocarlor	7 0007
		,
I certify that th	e results in this block accurately reflect the results of	my field analyses, observations and
activities.(signatur	re collector):	Method of Shipment to the Lab: How Camp
This form accom	panies Septum Vials, Glass Jugs, and/or	
	eserved as follows:	
NP:	No Preservation; Sample stored at room temperature.  Sample stored in an ice bath (Not Frozen).	
· —	Sample Preserved with Sodium Thiosulfate to remove	chlorine regiduel
CHAIN OF CUS		The Action of th
I certify that th	is sample was transferred from	to
at (location)	on	and that
the statements in	n this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes No
Signatures		
I <u></u> _		

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter?\_\_\_\_ Initials

### THIS PAGE FOR LABORATORY RESULTS ONLY

PURGEABLE SCREENS  [ (753) Aliphatic Purgeables (1-3 Carbons)  [ (754) Aromatic & Halogenated Furgeables  [ (765) Mass Spectrometer Purgeables  [ (766) Trihalomethanes  Other Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons  (760) Organochlorine Pesticides  (755) Base/Neutral Extractables  (758) Herbicides, Chlorophenoxy acid  (759) Herbicides, Triazines  (760) Organochlorine Pesticides  (761) Organophosphate Pesticides  (767) Polychlorinated Biphenyls (PCB's)  (764) Polynuclear Aromatic Hydrocarbons  (762) SDWA Pesticides & Herbicides	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
gromatic surreafter	remarks	halogenated surgeables	
- fengenk	3600	1, 2 - Dieholoethane	T.R.
Toluene	2100		
ethylkengene	200		
S-xulene	125		
m-lx.lane	175		
o-xhlene	125		
metry - It- buty ether	3700		
* DETECTION LIMIT * *	25 9/2	+ DETECTION LIMIT + +	
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONF  LABORATORY REMARKS:	THE STATED	DETECTION LIMIT (NOT CONFIRMED)	,
		TICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken by I certify that I followed standard laboratory procedure that the statements on this page accurately reflect to	res on handling		and
, ,	<del>-</del>	Hary C. Elen	
/ '			11 1
I certify that I have reviewed and concur with the Reviewers signature:	anaiyucai resu	Its for this sample and with the statements in this	Dlock.
			<del></del>

REPORT TO:	David G. Boyer	85- <b>0335</b> -c	LABORATORY	,—_Arr
Care I	New Mexico Oil Conserv	ation Division	LAB NUMBER ORG - 335-H-	B
	P. O. Box 2088		SLD PRIDEITH 3	( <del>5</del>
1012	Santa Fe, NM 87501		SLD Users Code No. 35235	<u> </u>
ALL CONTAIN	ERS WHICH THIS FORM ACCOM	IPANIES ARE COLLECT	IVELY REFERRED TO AS "SAMPLE".	
		ATE OF FIELD PERSO		
	e: Water 🚨 Soil 🗌	Other		
Water Suppl	y and/or Code No Rec	overy well	2 * 4	
City & Coun	ty Navajo Refu	ners, Antes	ie Eddy Ty.	
Collected (	ty Navajo Pefi date & time) 850410	#9.55 By (na	ame) Roey Boco	
рH= <u>6,В</u> ;	Conductivity= 2380 um	nho/cm at 19 °C	C; Chlorine Residual=	
Dissolved C	xygen= mg/1; Alkal cation, Methods & Remarks	inity=	; Flow Rate=	
Sampling Lo	ocation, Methods & Remarks	(i.e. odors etc.)	1 - 2 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	ļ
WEEK	at producto le . Westewates di	rexuments	, sample from pro	2
of s	. Wastewales di	lly arona	tie alor	i
I certify t	hat the statements in thi	is block accurately	reflect the results of my fi	eld
analyses, c	bservations and activitie	es. Signed	- Carone	
with the st	tatements in this block.	Signed Signed	yations and activities and co	ncui
	Chipment to LaboratoryACCOMPANIES			•
THIS FORM A	ACCOMPANIES septum via	ils with teflon-lin	ned discs identified as:	
and an	duplicate hber glass jug(s) with ter	Ton-lined cap(s)	identified as	' '
and of	ther container(s) (describ are marked as follows to	oe)	identified as	
Containers NP:	No preservation; sample	indicate preservat stored at room to	tion (circle): emperature (~20°C)	
P-ICE:	Sample stored in an ice	e bath.	, , , ,	
P-Na <sub>2</sub> 0 <sub>3</sub> S <sub>2</sub> :	Sample preserved with 3	$3 \text{ mg Na}_2 \text{O}_3 \text{S}_2 / 40 \text{ m}$	and stored at room temperature	е.
		ATE(S) OF SAMPLE F		
I (we) cert	tify that this sample was	transferred from		to
	· · · · · · · · · · · · · · · · · · ·	at (location)		on
			ents in this block are correct	
			al(s) Intact: Yes 🗆 No 🗖	
•	5)			- <del>-</del>
				to
(date & tim			nts in this block are correct.	

Disposition of Sample\_\_\_\_\_\_. Seal(s) Intact: Yes 🗆 No 🗖 .

Signature(s)

-		· · · · · · · · · · · · · · · · · · ·	. <del></del> . <del>_</del>				
AH.	VAL'	YSES REQUESTED			L	AB. No.: ORG-	335
1	EASE QUIR	CHECK THE APPROPRIATE ED. WHENEVER POSSIBLE				HE TYPE OF ANALYTICAL SUSPECTED OR REQUIRED	
IVE	TIVE			IVE	TIVE		
TAT	rita'	PURGEAI	BLE	ITAT	r i ta	EXTRACTAB	ILE
QUAL ITAT IVE	QUANTITATIVE	SCREE	NS	QUAL ITAT IVE	QUANTITATIV	SCREENS	5
		ALIPHATIC HYDROCARBON	N SCREEN			ALIPHATIC HYDROCAR	BONS
		AROMATIC HYDROCARBON	1			CHLORINATED HYDROCA	
		HALOGENATED HYDROCARI	1			CHLOROPHENOXY ACID	
		GAS CHROMATOGRAPH/MAS	SS SPECTROMETER		<u> </u>	HYDROCARBON FUEL SO	
<u> </u>	<b>}</b>			<del> </del>		ORGANOPHOSPHATE PE	
				╂		POLYCHLORINATED BIT POLYNUCLEAR AROMAT	
-	<del> </del> -			+	<del> </del> -	TRIAZINE HERBICIDES	
	<del> </del>				<del>                                     </del>	INTACINE READICIDE.	
		SPECIFIC COMF	POUNDS			SPECIFIC COMP	OUNDS
	<del>                                     </del>			<del>                                     </del>	<b> </b>		
	<del>                                     </del>		······································				
REN	1ARKS	•					
		A	NALYTICAL	RE	SUL	_TS	
		MPOUND	[PPB]	C	OMI	POUND	[PPB]
	2-0	ichloroethane	20				
	ls	emene	3285				
	7	oliene	2845				
	L.	thyl- femane	390				
	D.	Mileno	200			•	
	m	- Allene	120				
	<u></u> @.	- Yalene	90				
				*	DETE	ECTION LIMIT	10 rignie

REMARKS: Fourteen aromatic type compounds were also detected that were not identified

CERTIFICA	TE OF ANALYTICAL PERSONNEL	
Seal(s) Intact: YesNO_X. Seal(	(s) broken by:	date:
I certify that I followed standard la	boratory procedures on handling	and analysis of this
sample unless otherwise noted and that	at the statements in this block a	nd the analytical data
on this page accurately reflect the a	malytical results for this <u>s</u> ampl	.e.
Date(s) of analysis: 28 Apr \$3/lay &	Analyst's signature:	nen_
Date(s) of analysis: 28/21/3/May I certify that I have reviewed and co	oncur with the analytical results	for this sample and
with the statements in this block R	Reviewers signature: 8 m.	



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 465 WN N

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 8	14 87 K	BWC3705	USER 59300	D 59600 [XX C	THER: 82	235	
Collection DATE  08   12   87  Collection TIME		SITE INFORM- > ATION	Sample location NAVAJO REFINERY .				
Collected by — Person/A	делсу	/OCD	Collection site description  RECOVERY WELL #4				
BOXER		7000			]		
SEND FINAL SREPORT TO	State Land	SERVATION DIN Office Bldg NM 87504-208	, PO Box 2088	3			
Phon	e: 827-58	312			Station/ well code		
SAMPLING COL					Owner		
	⊠ Pump □ Tap	Water level		Discharge		Sample type  GRAB	
pH (00400)		Conductivity (Unco		Water Temp. (00010)	22 ℃	Conductivity at 25°C (00094)	
Field comments					<u>.                                      </u>	<del> </del>	
***************************************		7 <b>8</b> 4 7 7 7 7 7 8 8 7 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			***************************************		
CAMPI E CIEL D	TOEATMENT	Г — Check prope	- havaa				
No. of samples	/ XNF	144	□ E. Filtered in	field with A: 2	ml H₂SO₄/	L added	
submitted  NA: No aci	d added □ C	<del></del>		morane inter		A: 4ml fuming HNO <sub>3</sub> added	
ANALYTICAL R				3		- 3	
NA			Units Date analyze	From <u>WF</u> ,	NA Sample	: Date	
Conductivity (C 25°C (00095)	orrected)	2206	umho 10/1	,	nn oumpre	Analyzed	
□ Total non-filtera residue (susper (00530)  ☑ Other: □ Other: □ Other:	nded)	7.76	mg/l	Calcium Potassium Magnesium Sodium Bicarbonate	144	mg/1 9//8	
A-H <sub>2</sub> SO <sub>4</sub>	=======================================		<del></del>	Chloride _	253	mg/19/2	
□ Nitrate-N +, Nitotal (00630) □ Ammonia-N tot □ Total Kjeldahl-N ( ) □ Chemical oxyg demand (00340	al (00610) N en O)		mg/lmg/lmg/l	Sulfate Total Solid		6 mg/1 10/2	
( )		<del></del>	mg/l	- X Cation/A	nion Ba	lance	
☐ Other:				Analyst	Date Re	eported Reviewed by	
aboratory remark	s				17	1   81  00	
	***************************************	***************************************					
					,,,,,		

FOR OCD USE -- Date Owner Notified Phone or Letter? Initals

ANALYT	CATIONS E MEQ.	PPM	DET.	ANALYI	ANIONS E MEQ.	PPM	DET.
Ca Mg Na K	9.18 11.83 8.53 0.02	184.00 144.00 196.00 0.78	<3.0   <0.3   <10.0   <0.3	HC03 SO4 CL	13.18 12.19 7.14	804.00 585.00 253.00	
Mn Fe	0.00	0.00	       	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	29.55	524.78			32.50	1642.00	
	Dissolved lance =	Solids= 90.94%	1706		NC No. out/By _	= 8703705	167



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

Collection Time Collection Time Collection Time Collected by — Person Agency Collected by — Person Agency Collected by — Person Agency Collection site description Collect	DATE		ΛΩ	Lucen			
Contector by — Sample your Considerable — Considera	PATE AECEIVED 9	12 85 N	0.41e-1710			HER: 82235	
ENVIRONMENTAL BUREAU  ENVIRONMENTAL BUREAU  ENVIRONMENTAL BUREAU  IN OIL CONSERVATION DIVISION  IN OIL CONSERVATION DIVISION  Attn: David Boyer.    Disped   Tap	Collection TIME		INFORM- ►			stem #4,	Narnja Pefine
ENVIRONMENTAL BUREAU  SEND  NM OIL CONSERVATION DIVISION  NM OIL CONSERVATION DIVISION  State Land Office Bldg, P0 Box 2088  Santa Fe, NM 87501  Attn: _David_Boyer.  Bailed	/ Yes 1 May 160	ancy for		Collection site description	Pine Sing	al les tes	umn wrien
ENVIRONMENTAL BUREAU  SEND NM 01L CONSERVATION DIVISION  Attn: Daxid Boyer  Bailed Schump  Dipped Tap  Water level  Dipped Tap  Water level  Dipped Tap  Water level  Dipped Tap  PH (00400)  L 7 5 Conductivity (Incorrected)  Diventable  SAMPLE FIELD TREATMENT — Check proper boxes  No. of samples  No. o	50	48 1RAG	ea Octo			-	
ENVIRONMENTAL BUREAU  NO 01 L CONSERVATION DIVISION  No 10 L CONSERVATION DIVISION  Santa Fe, NM 87501  Attn:Bayid Boyer.  Bailed			~		·	todisco	heree b
SAMPLING CONDITIONS    Bailed   Tap   Water level   Discharge   Sample type   Conductivity Uncorregated   Jumbo   Water Temp. (00010)   P C   Conductivity 25°C (00094)   Jumbo   Jumbo   Conductivity 25°C (00094)   Jumbo   Conductivity 25°C (00095)   Jumbo   Jumbo   Conductivity 25°C (00095)   Jumbo   Jumbo   Jumbo   Conductivity 25°C (00095)   Jumbo	Ei	NVIRONMEN	TAL BUREAU		* **		
Attn:David Boyer.    Sample   Dipped   Tap   Water level   Discharge   Sample type   Dipped   Tap   Water level   Dipped   Tap   Dipped   Tap   Dipped   Dipped   Tap   Dipped   Di	SEND N	N OIL CON	SERVATION DI	VISION		ditty	.,
Attn: _David_Boyer   SampLing Conditions   Sample type   Discharge   Discharge   Sample type   Discharge   Discharge   Sample type   Discharge   Disch				, PU BOX 200	0		
SAMPLING CONDITIONS    Salied   SEPump   Water level   Discharge   Sample type   Conductivity at 25 °C (00094)   Japan	<b>&gt;</b>	-			er em	***************************************	
Bailed   Conner   Water level   Discharge   Sample type   Conductivity (Uncorrected)   Land	Attn:	David Boy	yer			***************************************	
Bailed SCPump   Water level   Discharge   Sample type   Conductivity (Uncorrected)   pH (00400)   Conductivity (Uncorrected)   pmh (00400)   Conductivity (Uncorrected)   pmh (00400)   Conductivity (Uncorrected)   pmh (00400)   Conductivity (Uncorrected)   pmh (00400)   Conductivity at 25 °C (00094)   pmh (00400)   Conductivity at 25 °C (00094)   pmh (00400)   Conductivity at 25 °C (00094)   pmh (00400)   Conductivity (Conserved)   Conserved (Conserved)   Conser							<u> </u>
Bailed □ Dipped □ Tap Water level □ Discharge □ Discharge □ Conductivity (Uncorrected) □ Dipped □ Tap □ Conductivity (Uncorrected) □ Discharge □ Conductivity at 25°C (00094) □ Discharge □					<u> </u>		
Dipped   Tap   PH (00400)   1 Tap   PH (00400)   2 Tap   PH (00400)   PH (00400)   2 Tap   PH (00400)   PH (0040					<b>,</b>		_
PH (00400)    Conductivity (Uncorrected)   pmho   Water Temp. (00010)   P   C   Conductivity at 25°C (00084)   pmho   P   C   C   C   C   C   C   C   C   C			Water level	_	Discharge	Sample t	Type (Jas)
SAMPLE FIELD TREATMENT - Check proper boxes	nH (00400)		Conductivity (Unc	orrected)	Water Temp (00010)	Conducti	
SAMPLE FIELD TREATMENT — Check proper boxes  No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  ANALYTICAL RESULTS from SAMPLES  NA: No acid added  Other-specify:  ANALYTICAL RESULTS from SAMPLES  NA: No acid added  Other-specify:  ANALYTICAL RESULTS from SAMPLES  NA: No acid added  Nother-specify:  ANALYTICAL RESULTS from SAMPLES  NA: Calcium (00915)	6.	75			19	°C	$\mu$ mho
SAMPLE FIELD TREATMENT — Check proper boxes  No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added  Other-specify:  ANALYTICAL RESULTS from SAMPLES  F. NA  Units Date analyzed  Conductivity (Corrected) 25°C (00095)    mmho   Sodium (00935)   L/3 mg/l 5/2 mg/l	Field comments	BA Q.	1 + 0 0	000 100	0016	a . Dot	0 0 0 0
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added		- I W	muse o		tull or so	an auc	4000)
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added	***************************************	***************************************				***************************************	
No. of samples submitted  NF: Whole sample (Non-filtered)  NA: No acid added	SAMDI E EIEI D	TOE ATMEN	T Chack prop	or hoves			
Submitted   NP: (Non-filtered)   NP: 0.45 μmembrane filter   A: 2 III H <sub>2</sub> SO <sub>4</sub> /L added   Non-filtered   A: 2 III H <sub>2</sub> SO <sub>4</sub> /L added   Non-filtered   Non-		T T	14/5 - La		field with		
ANALYTICAL RESULTS from SAMPLES   F. NA		/ DN		DIA E	1 4 7	ml H₂SO₄/L added	
ANALYTICAL RESULTS from SAMPLES   F. NA	NAMA: No acid	added [] (	Other-specific				<del>- 11 </del>
F, NA	11A. 110 acid	added - C	other-specify.				
Conductivity (Corrected)		SULTS from	SAMPLES				
Second (00095)   μmho   Magnesium (00925)   1-18   mg/l   5/2   mg/l   4/16   mg/l   4/16   mg/l   4/16   mg/l	₽F, NA	<u> </u>	_======================================	Units Date analyze		<del></del>	Units Date analyzed
□ Total non-filterable residue (suspended) (00530)         mg/l         4/16           (00530)         mg/l         4/16           Potassium (00935)         mg/l         4/16           © Other:         mg/l         4/16           © Other:         mg/l         mg/l           © Other:         mg/l         mg/l           © Other:         mg/l         mg/l           Nitrate-N + Nitrate-N total (00630)         mg/l         mg/l           □ Nitrate-N + Nitrate-N total (00630)         mg/l         mg/l         mg/l           □ Chemical oxygen demand (00340)         mg/l         mg/l         mg/l           □ Chemical oxygen demand (00340)         mg/l         mg/l         mg/l           □ Other:         mg/l         mg/l         mg/l           □ Chemical oxygen demand (00340)         mg/l         mg/l         mg/l           □ Other:         mg/l         mg/l         mg/l           □ Other:         mg/l         mg/l         mg/l           □ Other:		rrected)		umba			
Total non-filterable residue (suspended)   Mg/l	25 0 (00093)			μιιιιο		T man	<del>-                                    </del>
Bicarbonate (00440)					h = -		— — — — — — — — — — — — — — — — — — —
Other:   O	(00530)	ded)		ma/l	Bicarbonate (00440)		ma/l 81/
Other:   Total filterable residue (dissolved) (70300)   26700   mg/l	Other:		6,14		1 -		
Other:	☐ Other:			<del></del>			_ mg/l
Nitrate-N + , Nitrate-N	☐ Other:				<i>B</i>	** 26700	mg/l
Nitrate-N + Nitrate-N total (00630)	NE A H SO	·			Other:		<del></del>
total (00630)				<del></del>		0.39	$\frac{5/3}{}$
Ammonia-N total (00610)   mg/l   dissolved (00631)   mg/l     Total Kjeldahl-N (00608)   mg/l   demand (00340)   mg/l       Total organic carbon (00608)   mg/l   mg/l     Total organic carbon (00608)   mg/l     Other:   Analyst   Date Reported   Reviewed by   mg/l     Amalyst   Date Reported   Reviewed by   mg/l   mg/l     Analyst   Date Reported   Reviewed by   mg/l   mg/l     Analyst   Date Reported   Reviewed by   mg/l		ate-N 		mg/l		<del> </del>	
□ Total Kjeldahl-N (		(00610)					ma/l
Chemical oxygen demand (00340) mg/l Total Kjeldahl-N mg/l Other:  Other:  Analyst Date Reported Reviewed by Column State	☐ Total Kjeldahl-N				1	d	_ '''9''
demand (00340)	( )				1 '		
Total organic carbon  ( )			<del></del>	mg/l	☐ Total Kjeldahl-N		
Other:  Other:  Analyst  Date Reported  Reviewed by  Analyst  Analyst  Date Reported  School School  Analyst		bon		_	Other:		mg/i
aboratory remarks From Chry Dean SLA:  Analyst  Date Reported Reviewed by Green  Analyst	1 ` ′				-		
aboratory remarks from CHris Dean ELD:		<del></del> -	<del></del>		Analyst	Date Reported	
trom com bean or o						18 1 8	> Colem
	aboratory remarks	Cram	CHRIALO	Pan SLA:			
	`	1) 1			03 = 11=	()2/D a	toto
- 4 1001 WHE THE A 4 0670,0 VIN 695 SAVED 11/185			" MEDICAL	454 mm	The state of the s		117718



New Mexico Health and Environment Department. SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 SERVY METAL SERVER CHEMISTRY AND ANALYSIS

ATE RECEIVED 5	15187 N	AB JCAP246 CODE 59	300 🗆 59600 💢 (	OTHER: 82	235
lection DATE		SITE INFORM- > ATION			Nargo Refinery
ollected by — Personi	Agency	Collection site descrip	ption		
130401	Ankern	/pm /OCD	-	7	
END NAL EPORT	State Land	TAL BUREAU SERVATION DIVISION Office Bldg, PO Box 20 NM 87504-2088	088		
) 	David Boy				
Atti		· · · · · · · · · · · · · · · · · · ·		Station/	
Pho	ne: 827-58	12		well code Re	covery #4
AMPLING CO	ONDITIONS			Owner	
☐ Bailed ☐ Dipped	✓ Pump □ Tap	Water level	Discharge		Sample type (Sna 6
H (00400)	フ・・	Conductivity (Uncorrected) スプロルmh	Water Temp. (00010)	⇒/ °c	Conductivity at 25°C (00094)  µmh
ield comments	See Vi	or sheet for con	nments		
			•		
	<del></del>	- Check proper boxes			
No. of samples submitted	/     NF		in field with A: 2	2 ml H₂SO₄/	L added
□ NA: No a	cid added 🗆 C			dded 🚧	4ml fuming HNO3 adde
			3 3 3		3 220
NALYTICAL	RESULTS from	SAMPLES Units Date analy	rand T		
Conductivity	(Corrected)		From,	NA Sample	: Date
☐ Conductivity ( 25°C (00095)		µmho	From,	NA Sample	Date Analyzed
25°C (00095)		·	From	NA Sample	: Date Analyzed mg/l
25°C (00095)  Total non-filte residue (susp	rable	µmho	Calcium	NA Sample	Anal yzed .
25°C (00095)  Total non-filte residue (susp	erable pended)	·	Calcium		
25°C (00095)  Total non-filte residue (susp (00530) Other:	prable pended)	mg/l	From, Calcium Potassium Magnesium _		mg/lmg/l
25°C (00095)  Total non-filte residue (susp (00530) Other: Other:	prable pended)	µmho mg/l	Calcium Potassium Magnesium Sodium		
25°C (00095)  Total non-filte residue (susp (00530)  Other: Other: Other:	prable pended)	mg/l	Calcium Potassium Magnesium Sodium Bicarbonate		Malyzed mg/1 mg/1 mg/1 mg/1 mg/1 mg/1
25°C (00095)  Total non-filte residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub>	erable pended)  AP  Ly AA	mg/l	From, Calcium Potassium Magnesium Sodium Bicarbonate Chloride	2	### Analyzed    mg/1
25°C (00095)  Total non-filte residue (susp (00530)  Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub>	erable pended)  AP  Ly AA	mg/l	Calcium Potassium Magnesium Sodium Bicarbonate	2	Malyzed mg/1 mg/1 mg/1 mg/1 mg/1 mg/1
25°C (00095)  Total non-filte residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, I total (00630)	erable pended)  AP  Ly AA	mg/img/i	From, Calcium Potassium Magnesium Sodium Bicarbonate Chloride		### Analyzed    mg/1
25°C (00095)  Total non-filte residue (susp (00530)) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , I total (00630) Ammonia-N t	Prable pended)  AP  Nitrate-N  sotal (00610)	mg/lmg/lmg/lmg/l	Calcium Calcium Potassium Magnesium Sodium Chloride Sulfate		### Analyzed    mg/1
25°C (00095)  Total non-filte residue (susp (00530)  Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, I total (00630)  Ammonia-N t  Total Kjeldahi	Prable pended)  Nitrate-N  total (00610)	mg/lmg/lmg/lmg/lmg/lmg/l	Calcium Calcium Potassium Magnesium Sodium Chloride Sulfate		### Analyzed    mg/1
25°C (00095)  Total non-filte residue (susp (00530)) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , I total (00630) Ammonia-N t Total Kjeldahl ( ) Chemical oxydemand (003	Nitrate-N sotal (00610)	mg/lmg/lmg/lmg/l	Calcium Calcium Potassium Magnesium Sodium Chloride Sulfate		### Analyzed    mg/1
25°C (00095)  Total non-filte residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, I total (00630) Ammonia-N total (00630) Chemical oxy demand (003 Total organic	Nitrate-N total (00610) I-N carbon	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Calcium Potassium Magnesium Sodium Bicarbonate Chloride Sulfate Total Solid	ds	### Analyzed    mg/1
25°C (00095)  Total non-filte residue (susp (00530)  Other: Other: Other:  A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N+, I total (00630)  Ammonia-N total (00630)  Chemical oxy demand (003  Total organic (	Nitrate-N total (00610) I-N carbon	mg/lmg/lmg/lmg/lmg/lmg/l	Calcium Potassium Magnesium Sodium Sodium Chloride Sulfate Total Solid	ds	### Analyzed    mg/1
25°C (00095)  Total non-filte residue (susp (00530)) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , I total (00630) Ammonia-N t Total Kjeldahl ( ) Chernical oxy demand (003 Total organic ( ) Other:	Nitrate-N total (00610) I-N carbon	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Calcium Potassium Magnesium Sodium Bicarbonate Chloride Sulfate Total Solid	nion Ba	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1
Total non-filte residue (susp (00530) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N +, I total (00630) Ammonia-N total Kjeldahl ( ) Chemical oxy demand (003 Total organic ( ) Other: Other:	Nitrate-N  sotal (00610)  I-N  carbon	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Calcium Potassium Magnesium Sodium Sodium Chloride Sulfate Total Solid	nion Ba	### Analyzed    mg/1
25°C (00095)  Total non-filte residue (susp (00530)) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , I total (00630) Ammonia-N t Total Kjeldahl ( ) Chernical oxy demand (003 Total organic ( ) Other:	Nitrate-N  sotal (00610)  I-N  carbon	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Calcium Potassium Magnesium Sodium Sodium Chloride Sulfate Total Solid	nion Ba	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1
25°C (00095)  Total non-filte residue (susp (00530)) Other: Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , I total (00630) Ammonia-N t Total Kjeldahl ( ) Chemical oxydemand (003 Total organic ( ) Other: Other:	Nitrate-N  sotal (00610)  I-N  carbon	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Calcium Potassium Magnesium Sodium Sodium Chloride Sulfate Total Solid	nion Ba	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1

#### ICAP SCAN

SLD Lab No. ICP 246	Reviewed by:
Analyst B/W	Date Reported:
Date Analyzed 5/7/87	

Aluminum	40.1	
Barium	0.1	
Beryllium	40.1	
Boron	0.3	
Cadmium	< 0.1	
Calcium	260.	
Chromium	<0.1	<0.005
Cobalt	<0.05	
Copper	<0.1	
Iron	<0./	
Lead	<0.1	<0.01
Magnesium	140.	
Manganese	0.39	
Molybdenum	40.	
Nickel	40.1	
Silicon	42.	
Silver	40.1	
Strontium	5.0	
Tin	0.1	
Vanadium	<0.1	
Zinc	<0.1	
Arsenic	_	
Selenium		
Mercury		



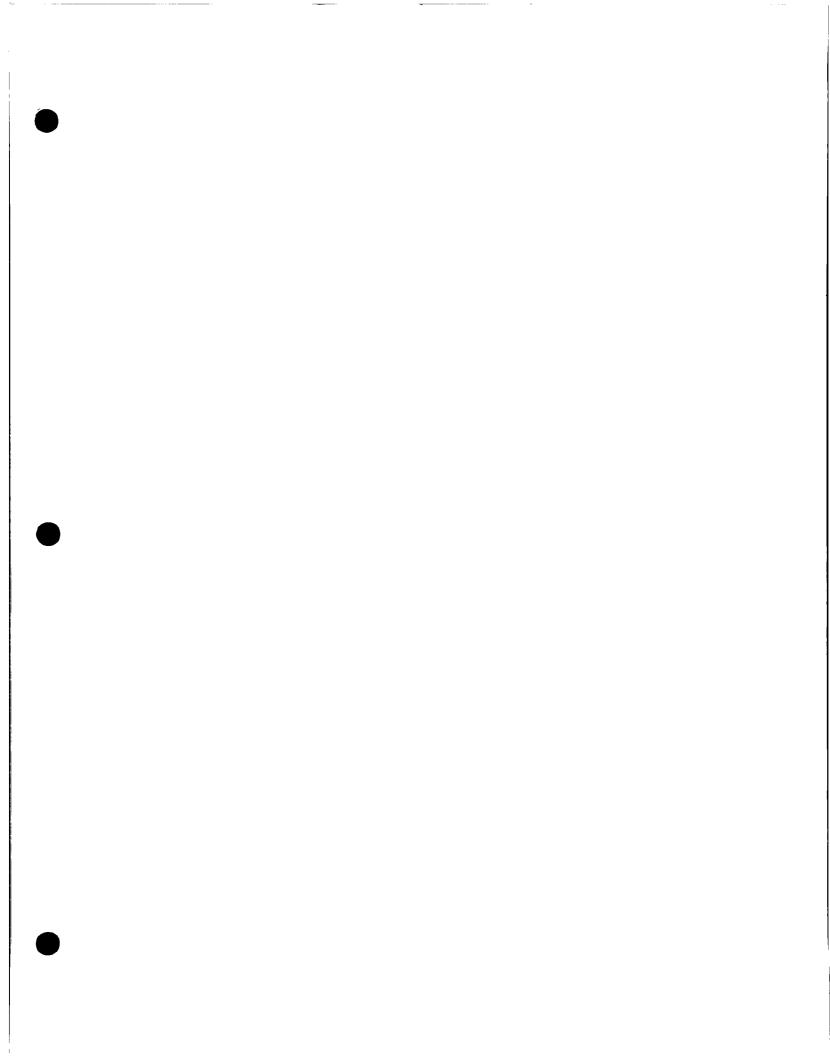
New Mexico Health and Environ Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555



DATE #	13 85 N	BHM -0692	USER 5930	o	THER: 82	235	
Tion DATE		SITE INFORM- >	Sample location	acovery Sy	stem		ala Reline
Collection TIME		ATION	Collection site description	ocovery sy		*	
Collected by — Person	PAGENCY BAC	a ab	Collection site description	e, Pipe Sno	m wa	les pum	bush
	1.7				too	lischery	el B
	ENVIRONMENT	TAL BUREAU SERVATION DIV	ISION		dia	P. L.	
SEND FINAL REPORT	State Land	Office Bldg,	PO Box 208	8		<u> </u>	
ro •	Santa Fe, I						
Attn	: _David_Boy	/er		************************			
					Station/ well code		
SAMPLING CO	ONDITIONS				Owner		
☐ Bailed ☐ Dipped	Pump  Tap	Water level		Discharge		Sample type	nab
pH (00400)	-75	Conductivity (Uncor		Water Temp. (00010)	<b>→</b> °C	Conductivity at 25°	
Field comments		ratic o		0010	2-1	OFFE OF	0.3
		me of	uv	russ de 30	CON CE	uega	<del>50</del> )
***************************************	***************************************		*****************				***********************
		Г — Check prope					
No. of samples	i / 🗆 NF	Whole sample (Non-filtered)	F: Filtered in 0.45 µme	field with	ml H <sub>2</sub> SO <sub>4</sub> /	L added	
□ NA: No a	cid added 🔼	Other-specify:	AHNOZ	· · · · · · · · · · · · · · · · · · ·			
	RESULTS from		111003				
AF, VA NA			Jnits Date analyze	d F, NA		Units	Date analyzed
☐ Conductivity				☐ Calcium (00915)		mg/l _	
25°C (00095)	)		imho	— ☐ Magnesium (00925) ☐ Sodium (00930)		mg/l _ mg/l _	
☐ Total non-filte residue (susp				☐ Potassium (00935)		mg/l _	
(00530) Other:			mg/l	☐ Bicarbonate (00440) ☐ Chloride (00940)	)	mg/l _ mg/l _	
Other: A		.03 mg/	L 5-17	☐ Sulfate (00945)		mg/l _	
☐ Other:		7/		Total filterable residue (dissolved) (70300)	e 	mg/l _	
NF, A-H <sub>2</sub> SO <sub>4</sub>				Cother:			
□ Nitrate-N + , I	Nitrate-N		<del></del>	F, A-H <sub>2</sub> SO <sub>4</sub>			
total (00630)			mg/l	─ □ Nitrate-N +, Nitrate-	N		
<ul><li>Ammonia-N t</li><li>Total Kjeldah</li></ul>	, ,		mg/l	dissolved (00631)		mg/l _	
( )			mg/l	Ammonia-N dissolve (00608)	ed	mg/l _	
Chemical oxydemand (003)			mg/l	☐ Total Kjeldanl-N			
☐ Total organic	carbon		mg/l	C Other:		mg/l _ =	
Cother:			g/'	Analyst	155		
☐ Other:	<del></del>			Analyst		eported Review	in Alba
ratory rema	arks				161	18 10, 1 Ju	m usany
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		***************************************		<i>V</i>
				******************************			

#### ICAP SCREEN

Lab Number: #M692	Sample Code: Recovery
Date Submitted: 4/12/85	Date Reported: 6/18/85
By: Boner/Baca	By: Jim Rolly
<u>Determination</u>	Concentration (pg/ml)
Alum1num	4.10
Barlum	.13
Berylllum	4.10
Boron	.20
Cadmlum	<., <i>1</i> 6
Ca.l e Lun	260.
Chromlum	<.10
Cobalt	<.10
Copper	4.10
Iron	. 4.10
Lead	4.10
Magnes Lum	140.
Manganese	. 42
Molybdenum	4.10
N1cke1	<.10
Stiteon	43.
Silver	<.10
StrontLum	4.8
Tin	<.10
Variadtum	4.10
Yttrlum	4.10
Zfue	4.10



REPORT TO: LABORATORY
New Mexico Oil Conservation Division  P. O. Box 2088  New Mexico Oil Conservation Division  LAB NUMBER ORG - 333 - H-B  4/12/85
Santa Fe, NM 87501  85- 0332 C SUD PRIORITY 3  ers Code No. 83235
ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".
CERTIFICATE OF FIELD PERSONNEL
Sample Type: Water Soil Other
Water Supply and/or Code No. Bore Hole A.T. Navajo Repenierraj
City & County Artesia, Elly Cly
Collected (date & time) 9504100915 By (name) Bough Reca
pH=; Conductivity= 6900 umho/cm at 17 °C; Chlorine Residual=
Dissolved Oxygen= mg/l; Alkalinity= ; Flow Rate= Sampling Location, Methods & Remarks (i.e. odgrs etc.)
Sampling Location, Methods & Remarks (i.e. odors etc.)
18 ST bophole drilled on 4/9, on 4/10 had 2 seet to
4 ST products. Hole on N. Siele of tenh 439
I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Harris & Roya
I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed
Mathed of Chimnest to Labourtons Man Regards (2011)

Method of Shipment to Laboratory **Mendern sell**THIS FORM ACCOMPANIES **2** septum vials with teflon-lined discs identified as:

Sample stored in an ice bath.

specimen ; duplicate ; triplicate ; blank(s)
and amber glass jug(s) with teflon-lined cap(s) identified as
and other container(s) (describe) identified as

Containers are marked as follows to indicate preservation (circle):

No preservation; sample stored at room temperature (~20°C).

Sample preserved with 3 mg  $Na_2O_3S_2/40$  ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from \_\_\_\_\_\_ at (location)\_\_\_\_\_\_ on \_\_\_\_ and that the statements in this block are correct.

Disposition of Sample \_\_\_\_\_\_ . Seal(s) Intact: Yes \_\_\_\_ No \_\_\_\_ .

Signature(s) \_\_\_\_\_\_ to \_\_\_\_\_ at (location)\_\_\_\_\_\_ on \_\_\_\_\_ on \_\_\_\_\_ and that the statements in this block are correct.

Disposition of Sample \_\_\_\_\_\_ and that the statements in this block are correct.

Disposition of Sample \_\_\_\_\_\_ . Seal(s) Intact: Yes \_\_\_\_\_ No \_\_\_\_ .

Signature(s) \_\_\_\_\_\_ . Seal(s) Intact: Yes \_\_\_\_\_ No \_\_\_\_ .

ANALYSES REQUESTED PLEASE CHECK THE APPROPRIATE BOXES BELOW TO					ATE T		SCREENS \
		ED. WHENEVER POSSIBLE LIST SPECIFIC CO			[+]	EXTRACTAB	
QUAL ITAT IVE	QUANTITATIVE	SCREENS			QUANT ITAT IV	SCREENS	5
		ALIPHATIC HYDROCARBON				ALIPHATIC HYDROCARE	
		AROMATIC HYDROCARBON		<del> </del>		CHLORINATED HYDROCA	
		HALOGENATED HYDROCARE	i	<del> </del>		CHLOROPHENOXY ACID	
		GAS CHROMATOGRAPH/MAS	S SPECTROMETER	<del></del>		HYDROCARBON FUEL SO ORGANOPHOSPHATE PES	
				+		POLYCHLORINATED BIF	
				+		POLYNUCLEAR AROMATI	
				+		TRIAZINE HERBICIDES	
				<del>                                     </del>		TRIBIND INDROTOTORS	,
SPECIFIC COMPOUNDS				SPECIFIC COMPO	อนทธิ์ร		
					L		
				-	<u> </u>		
	ļ	·		<del>- </del>	ļ		
L	IA DWG				<u> </u>		
REMARKS:					<del></del>	<del></del>	
		Al	VALYTICAL	RE	SUL	TS	
	C01	1POUND	[PPB]	C	OMI	POUND	[PPB]
pa	loge	nated burgeables	nonedetected	ᆚ			:
	W.	make	62360				
Folisene 18950							
Atril-bermane 1440							
	D-	Selene-	400	1	· · · · · · · · · · · · · · · · · · ·		
	do-	Sulane	· 830		<del></del>		
	<u> </u>	Vis Pene	460	1			
				*	DETF	CTION LIMIT	100 mgm/o
PEMORIES C. / L							

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes NO . Seal(s) broken by: date:

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: April May Analyst's signature for this sample and with the statements in this block. Reviewers signature:



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIV 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

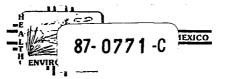
### GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 4	12 85 N	AB O.WC - 1704	USER 59300	o □ 59600 💢 o	THER: 822	235		
Callection DATE 10		SITE INFORM- ►	Sample location	Hole AJ,	Novaj	o Ref	inegy	
Collection TIME		ATION	Collection site description	Hole Loga	Tail 1	11-11-	Tank	439
Collected by — Person/Age	Boyes/E	aca ab		NOCE LONGE	1	Vog:	ione	7.)7
	1 "	TAL BUREAU					***************************************	*****************************
SEND N	M OIL CONS	SERVATION DI	VISION		***************************************			***************************************
REPORT	tate Land anta Fe, I		, PO Box 208	8	 	***************************************		
<b>&gt;</b>	David Boy						,	
/tt//				1-11	Station/	<del></del>		
241451 1110 0011	DITIONS				well code Owner			
SAMPLING CON  Bailed	Pump	Water level		Discharge	<u></u>	Sample ty	oe /	
	□ Tap			-			ORAL	
pH (00400)	•	Conductivity (Unc		Water Temp. (00010)	7 ∘c	Conductiv	ity at 25°C (	00094) /// µmho
Field comments	Prade	ut in h	Pla					
	· · · · · · · · · · · · · · · · · · ·	un II		<del></del>		**************		
No. of samples				field with			·	
submitted	OKNE	(Non-filtered)		mbrane filter	ml H₂SO₄/	L added		
NA: No acid	added 🗆 C	Other-specify:						
ANALYTICAL RE	SULTS from	SAMPLES						
NF, NA			Units Date analyze		- : :			Date analyzed
☐ Conductivity (Co 25°C (00095)	rrected)		μmho	<ul><li>Calcium (00915)</li><li>Magnesium (00925)</li></ul>	46 5	59 	9	5/2 71.6
☐ Total non-filterab	le			Sodium (00930)  Output  Description:  Solution:  Soluti	<u>63</u>	78	mg/l	4/16
residue (suspend (00530)	-		. mg/l	Bicarbonate (00440)		442.2	mg/l	615
<b>★</b> Other: /0 <b>♣</b>	7.0	>	g/i	Chloride (00940)		99	mg/l	5/8
☐ Other:	·			Sulfate (00945)  Notal filterable residue			mg/l	7
☐ Other:				(dissolved) (70300)	<u> 54</u>		mg/l	5/29
NF, A-H <sub>2</sub> SO <sub>4</sub>				Other: CO3		. 5 8		5/3
☐ Nitrate-N+, Nitra	ate-N		(1	F, A-H₂ SO₄				
total (00630)  Ammonia-N total	I (00610)		. mg/l . mg/l	□ Nitrate-N+, Nitrate-I	N		ma/l	
☐ Total Kjeldahl-N	. ,		_	dissolved (00631)  Ammonia-N dissolve	ed		mg/l	
( )  Chemical oxyge	n		. mg/l	─ (00608) □ Total Kjeldahl-N	<del></del>		mg/l	
demand (00340)  Total organic car			mg/l	<b>-</b> ( )			mg/l	····
( )			mg/l	Other:	<del></del> -			
☐ Other: ☐ Other:				Analyst		eported	Reviewed	by
				<u></u>	6	10 85	رنع)	·
Soratory remarks								
		·						

Groundwater East of Refinery

## SCIENTIFIC LABORATORY DIVISION 2 700 Camino de Salud NE

Albuquerque, NM 87106 841-2570



David Boyer       S.L.D. No. OR- 77/-7         N.M. Oil Conservation Division       DATE REC. 5/5         P. O. Box 2088       Santa Fe, N.M. 87504-2088       PRIORITY					
Santa Fo. N.M. 87504-2088	187				
Santa Fe, N.M. 87504-2088 PRIORITY					
PHONE(S): 827-5812 USER CODE: 8 2 1 3 5	_				
SUBMITTER: David Boyer CODE:  2   6   0	•				
SAMPLE COLLECTION CODE: (YYMMDDHHMMIII)   8 7 0 5 0 1 1 1 0 2 0 2 0	ŽI				
SAMPLE TYPE: WATER 🔀 SOIL 🔲, FOOD 🔲, OTHER: CODE:					
COUNTY: Eddy; CITY: Actesia CODE:	_				
	N06E24342)				
ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screen	ns				
required. Whenever possible list specific compounds suspected or required.  PURGEABLE SCREENS  EXTRACTABLE SCREENS					
(753) Aliphatic Purgeables (1-3 Carbons) (751) Aliphatic Hydrocarbons					
(754) Aromatic & Halogenated Purgeables (760) Organochlorine Pesticides					
[ (755) Mass Spectrometer Purgeables [ (755) Base/Neutral Extractables	1				
[ (766) Trihalomethanes [ (758) Herbicides, Chlorophenoxy acid					
Other Specific Compounds or Classes (759) Herbicides, Triazines					
[ (760) Organochlorine Pesticides					
[ (761) Organophosphate Pesticides					
[ (767) Polychlorinated Biphenyls (PCE	•				
(764) Polynuclear Aromatic Hydrocar					
[ (762) SDWA Pesticides & Herbicides					
Remarks:					
pH=; Conductivity= 2/50 umho/cm at C; Chlorine Residual= mg/l					
Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate/					
Double to make the Double of mall to the Double of the Dou					
Depth to waterft.; Depth of wellft.; Perforation Intervalft.; Casing:					
Sampling Location, Methods and Remarks (i.e. odors, etc.)	·				
Sampling Location, Methods and Remarks (i.e. odors, etc.)					
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Repeat Sampling					
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Replat Sampling  I certify that the results in this block accurately reflect the results of my field analyses, observations and	Tecan				
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Replat Sampling  I certify that the results in this block accurately reflect the results of my field analyses, observations and	tocan				
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Repeat Sampling  I certify that the results in this block accurately reflect the results of my field analyses, observations and	Caz				
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Replact Sampling  I certify that the results in this block accurately reflect the results of my field analyses, observations and activities (signature collector):  This form accompanies 2 Septum Vials, Glass Jugs, and/or Samples were preserved as follows:  NP: No Preservation; Sample stored at room temperature.	to can				
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Replact Sampling  I certify that the results in this block accurately reflect the results of my field analyses, observations and activities (signature collector):  This form accompanies 2 Septum Vials, Glass Jugs, and/or Samples were preserved as follows:  NP: No Preservation; Sample stored at room temperature.  P-Ice Sample stored in an ice bath (Not Frogen).	Caz				
Sampling Location, Methods and Remarks (i.e. odors, etc.)    3304   Windmill - Replact Sampling	Caz				
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Replact Sampling  I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):  This form accompanies Septum Vials, Glass Juga, and/or Samples were preserved as follows:  NP: No Preservation; Sample stored at room temperature.  P-Ice Sample stored in an ice bath (Not Frozen).  P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual.	Cay				
Sampling Location, Methods and Remarks (i.e. odors, etc.)    3304   Windmill - Replact Sampling	Can				
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Replact Sampling  I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):  This form accompanies Septum Vials, Glass Juga, and/or Samples were preserved as follows:  NP: No Preservation; Sample stored at room temperature.  P-Ice Sample stored in an ice bath (Not Frozen).  P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual.					
Sampling Location, Methods and Remarks (i.e. odors, etc.)    304 Windmill - Repeat Sampling					
Sampling Location, Methods and Remarks (i.e. odors, etc.)  3304 Windmill - Repeat Sampling  I certify that the results in this clock accurately reflect the results of my field analyses, observations and activities (signature collector):  This form accompanies Septum Vials, Glass Jugs, and/or  Samples were preserved as follows:  NP: No Preservation; Sample stored at room temperature.  P-Ice Sample stored in an ice bath (Not Frozen).  P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual.  CHAIN OF CUSTODY  I certify that this sample was transferred from					

LAB. No.: OR- フフ/

This sample was tested using the analytical scr	eening method(s)	checked below:	
PURGEABLE SCREENS  (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons  (760) Organochlorine Pesticides  (755) Base/Neutral Extractables  (758) Herbicides, Chlorophenoxy acid  (759) Herbicides, Triazines	
		(760) Organochlorine Pesticides  (761) Organophosphate Pesticides  (767) Polychlorinated Biphenyls (PCB's)  (764) Polynuclear Aromatic Hydrocarbons  (762) SDWA Pesticides & Herbicides	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
aromatic purgealler	N.D.		
Salvaena ted Gaurgeablea	A.O.		
* DETECTION LIMIT * *	1-49/2	+ DETECTION LIMIT + +	
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOV T R = DETECTED AT A LEVEL BELOV	/E THE STATED W THE STATED		
LABORATORY REMARKS:			·
		TICAL PERSONNEL	
that the statements on this page accurately reflect	dures on handling the analytical re		l and
Date(s) of analysis: 6/1/87. Analyst's  I certify that I have reviewed and concur with the		ts for this sample and with the statements in this	block
Reviewers signature: 5. Sharas	AI II	1 1 1 100	J.50.A.
	<del></del>	<del>- 1 - 1 - 1987</del>	

## SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

Albuquerque, NM 87106 841-2570

1.4	- 4-5	
1/1/2		'EW MEXICO
EN	87-0746-C	L <u></u>

REPORT TO:	David Boyer	S.L.D. No. OR- 746-A-B
	N.M. Oil Conservation Division	DATE REC. 5/5/87
•	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812	USER CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE: 12 16 10 1
SAMPLE COLLE	CTION CODE: (YYMMDDHHMMIII)   9   7   0	4219111831012418
	WATER [N, SOIL ], FOOD , OTHER:	CODE:
	ldy ; CITY: Protesia	CODE:
LOCATION COD	E: (Township-Range-Section-Tracts)	7/6/8+1/2+3/1/ ((10N06E24342)
ANALYSES REQ	UESTED: Please check the appropriate box(es) belo	v to indicate the type of analytical screens
required. Whenev	er possible list specific compounds suspected or requ	•
(753) Alinha	PURGEABLE SCREENS tic Purgeables (1-3 Carbons)	EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons
· · ·	tic & Halogenated Purgeables	(760) Organochlorine Pesticides
-,	Spectrometer Purgeables	[ (755) Base/Neutral Extractables
(766) Tribale	omethanes	(758) Herbicides, Chlorophenoxy acid
Other	Specific Compounds or Classes	(759) Herbicides, Triazines
□ —		(760) Organochlorine Pesticides
<u> </u>		(761) Organophosphate Pesticides
<u></u>		(767) Polychlorinated Biphenyls (PCB's)
님		(764) Polynuclesr Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides
<u> </u>		[_] (102) 5D WA Pesticides & nerpicides
Remarks:		· · · · · · · · · · · · · · · · · · ·
FIELD DATA:		
pH=; Co	onductivity= 540 umho/cm at 19°C; Chlorin	e Residual=mg/l
	mg/l; Alkalinity= mg/l; Flow Rate	
Depth to water	4/2/2 ft.; Depth of well 3 ft.; Perforation In	ervalft.; Casing: **Xeel
	on, Methods and Remarks (i.e. odors, etc.)	0 0 1
33041	Vindmill, try of Casing	volume, sampled during
- reco	very (Primped 25 gallon	<del>4)</del>
I certify that th	ne results in this block accurately reflect the results	of my field analyses, observations and
This form accord	re collector): South Glass Jugs, and	/or
	reserved as follows:	
☐ NP:	No Preservation; Sample stored at room temperatu	re.
P-Ice	Sample stored in an ice bath (Not Frozen).	·
P-Na,SO	Sample Preserved with Sodium Thiosulfate to remo	ve chlorine residual.
CHAIN OF CU	STODY	
I certify that th	nis sample was transferred from	to
at (location)		on and that
the statements i		
	n this block are correct. Evidentiary Seals: Not Seal	ed   Seals Intact: Yes   No
Signatures	n this block are correct. Evidentiary Seals: Not Seal	ed   Seals Intact: Yes   No
	se: Date Owner Notified	

LAB. No.: OR- 746

This sample was tested using the analytical scre	ening method(s)	checked below:	_
PURGEABLE SCREENS  (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides	
		L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
arrmatic surgeabler	N.17.		
holosennted anunaealler	N.D.		
	•		
·			
* DETECTION LIMIT * *	199/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOV  T R = DETECTED AT A LEVEL BELOV  [ RESULTS IN BRACKETS ] ARE UNCON	V THE STATED	DETECTION LIMIT	'
LABORATORY REMARKS:			
CERTIFIC	ATE OF ANALY	TICAL PERSONNEL	
Seal(s) Intact: Yes No Q. Seal(s) broken	by: not	saclad date:	
I certify that I followed standard laboratory proceed	lures on handling		and
that the statements on this page accurately reflect	•		_
Date(s) of analysis: 5/25/87 . Analyst's			
I certify that I have reviewed and concur with the Reviewers signature:	e analytical resul	Its for this sample and with the statements in this	block.
	<u>`</u>	1 1.71	



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

### GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

-1	· · · · · · · · · · · · · · · · · · ·	4.00		<del></del>		· · · · · · · · · · · · · · · · · · ·
DATE RECEIVED 5	15  87 N	ABWC/641	USER 59300	□ 59600 💢 C	THER: 82	235
Collection DATE 8/05/01		SITE	Sample location		ndmi	Ol-Repeat Somple
Collection TIME	-	INFORM- ► ATION			JIM JIM	e ogom ompe
Collected by Person	Agonova		Collection site description		. =	
Collected by — Person/	TANKER	180 / OCD			_	
		_		••		
	ENVIRONMENT	TAL BUREAU				
SEND	NM OIL CONS	SERVATION DIV	ISION			
FINAL REPORT	State Land	Office Bldg,	, PU BOX 2088	3		
ТО	Santa Fe, I	NM 87504-2088	3			
Attn	<u>David Bo</u>	yer				
Di	007 50				Station/	
Pho	ne: 827-58	312	•		well code Owner	
SAMPLING CO					Owner.	
☐ Bailed	Ø Pump	Water level		Discharge		Sample type
Dipped	□ Тар	Conductivity // Inc	roated)	Motor Town (00040)	·····	Conductivity of 25 20 (2022 1)
pH (00400)		Conductivity (Uncor	7/50) µmho	Water Temp. (00010)	16°C	Conductivity at 25°C (00094)  µmho
Field comments			~		183	
		T — Check prope				
No. of samples submitted	] QNI	F: Whole sample (Non-filtered)	F: Filtered in	field with $\qed$ A: 2 mbrane filter	ml H <sub>2</sub> SO <sub>4</sub> /	L added
	· · · · · · · · · · · · · · · · · · ·			<del></del>		
MA: No ac	id added 🗆 (	Other-specity:	□A: !	omi conc. HNO3 ad	lded 🗀 A	4: 4ml fuming HNO <sub>3</sub> added
ANALYTICAL	RESULTS from	n SAMPLES				,
NA			Units Date analyzed	From NF,	NA Sample	: Date
Conductivity (	Corrected)	2678	mho <u>5/13 ·</u>	770	in oumpic	Analyzed
25°C (00095)		0010 p	imho	-	2 -	
☐ Total non-filter	able			Calcium		mg/1 <i>5/29</i>
residue (susp (00530)	ended)		mg/l	Potassium _	10.1	mg/1
(00550)	<del>//</del>	7.56	5/12	Magnesium _	122	mg/1 <u>5/29</u>
☐ Other:				Sodium	136	mg/1
☐ Other:			<del></del>			
			<u> </u>	Bicarbonate		
A-H₂SO₄				Chloride _	36	69  mg/1 = 6/26
☐ Nitrate-N+, N total (00630)	litrate-N		mg/l	Sulfate	767	mg/1 <i>5/20</i> =
□ Ammonia-N t	otal (00610)		mg/l	Total Solid		
☐ Total Kjeldahl				THE STUDIES	17	
( ')			mg/l	- HU - 1 / WIRE	a o	.50 _ 5/27
☐ Chemical oxy demand (003			mg/l			
☐ Total organic			J			
( )			mg/l	- 🔯 Cation/A	nion Bal	lance
☐ Other:	-			Analyst		eported Reviewed by
☐ Other:				-	61:	
Laboratory rema	rks	······································		<u> </u>		
ļ		***************************************				
		***************************************		***************************************		***************************************
L						
FOR OCD US	SE Date	Owner Notifie	.d	Phone or Lette	er?	Initals

ANALYTI	CATIONS  E MEQ.	PPM	DET.	ANALYTI	ANIONS  E MEQ.	PPM	DET. LIMIT
Ca Mg Na K	15.97 10.02 5.92 0.26	320.00 122.00 136.00 10.10	<3.0   <0.3   <10.0   <0.3	HC03 SO4 CL	2.85 15.98 10.41	174.00 767.00 369.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00		NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	32.16	588.10	į		29.24	1310.00	
	Dissolved lance =	Solids= 110.00%	2114		C No.	= 8701641 Q6hh7	

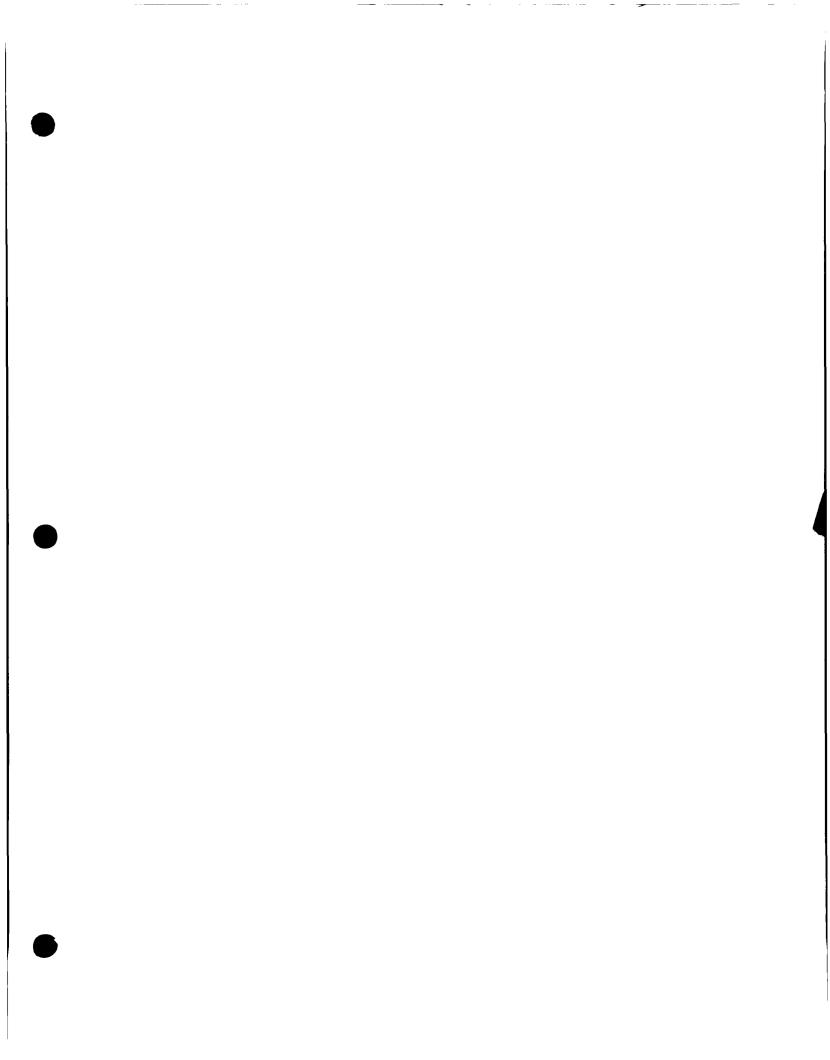


New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555

### GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

111		45			·		
DATE RECEIVED .5	5 87 N	8.WC11,49	USER 59300	D 59600 🕅 C	THER: 822	235	
Collection DATE 87 04 29		INFORM- ►	Sample location U 3	304" Win	Smill	Novaje	References
Collection TIME		ATION	Collection site description			/	
Collected by — Person/A	gengy Ander	son /OCD			7		
				and a part		·····	
	ENVIRONMENT	TAL BUREAU SERVATION DIV	MOT 2 T				
FINAL	State Land	Office Bldg.	PO Box 2088	3			***************************************
		NM 87504-2088					
Attn:	David Boy	yer					**************************************
Disease	007.50				Station/		
Phon		312			well code Owner		<del></del>
SAMPLING COI		Motor level		Diocharea		Samula tura	
☐ Dipped	D Pump □ Tap	Water level		Discharge		Sample type GA	RAZ-
pH (00400)	7	Conductivity (Unco	rrected) µmho	Water Temp. (00010)	<i>}</i> •c	Conductivity at 25°	°C (00094) µmho
Field comments	Seal	1500 00				<del></del>	
	xe!	voc she	es suje	omment			
						***************************************	
SAMPLE FIELD	TREATMEN	T — Check prope	r boxes				
No. of samples	ÿ .□ NI	F: Whole sample	F: Filtered in	field with	ml H <sub>2</sub> SO <sub>4</sub> /I	L added	
submitted	<u>/                                    </u>	(Non-filtered)	·	norane inter			
NA: No aci	d added 🗆 (	Other- <i>specify:</i>	LIA:	5ml conc. HNO <sub>3</sub> ad	lded 🗆 A	: 4ml fumin	g HNO <sub>3</sub> added
ANALYTICAL R	ESULTS from						·
NA NA	\\		Units Date analyzed	From <u>£</u> ,	NA Sample	: D	ate
Conductivity (C 25°C (00095)		649 p	ımho <u>5/13 ·</u>	-  ,		Ana	lyzed
☐ Total non-filtera	ble			Calcium	42	mg/1	6/1
residue (suspe			ma/l	Potassium	16.8	mg/1	5/19
(00530) Cother: 1) H	<del></del>	8.46	mg/l	_    /		mg/1	6/1
☐ Other: '				Sodium	40		5/19
☐ Other:				Bicarbonate			5/12
A-H₂SO₄	**************************************			Chloride		mg/1	5/26
☐ Nitrate-N+, Ni	trate-N			Sulfate	21	mg/1	5/20
total (00630)  Ammonia-N tot			mg/l	-li —			5/27
☐ Total Kjeldahl-N			g/i	Total Solid			5/27
( ) ☐ Chemical oxyg			mg/l	1 SINDA	ve O	50	3/27
demand (0034)	0)		mg/l	.  🗆			
☐ Total organic ca	arbon		mg/l	NC2+:22/3		Langs	
☐ Other:				Cation/A		eported Review	and by
☐ Other:				-   Anaiyst		2   87 CD	
Laboratory remark	s (co <sub>2</sub>	\ - C	10			1- 1- 100	
<i>)</i>	(0)3	) = & my	<u> </u>				
		<u> </u>				***************************************	
FOR OCD USE	E Date (	Owner Notifie	d	Phone or Lette	er?	Initals	s
				-			

ANALYT	CATIONS  E MEQ.	PPM	DET.	ANALYTI	ANIONS  E MEQ.	PPM	DET.
Ca Mg Na K	2.10 1.07 2.00 0.43	42.00 13.00 46.00 16.80	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	4.38 0.44 1.75	267.00 21.00 62.00	
Mn Fe	0.00	0.00	     	NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	5.59	117.80	   		6.56	350.00	
	Dissolved lance =	Solids= 85.25%	384		C No.	= 8701649	



Memo

From

DAVID G. BOYER

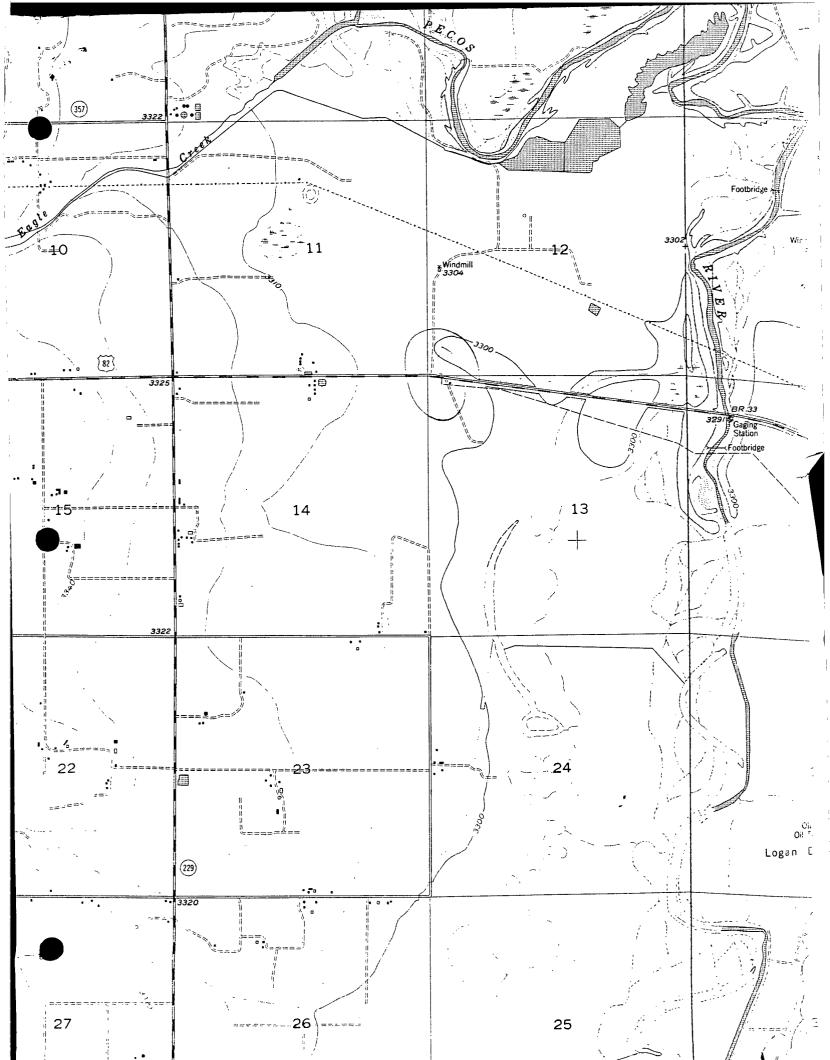
Forth Side of Highway
Pipeline -

Bill board by

Wolmost bridge

Highway side of Padulas seule section

Lelo 84 18,000TDS



#### SCIENTIFIC LABORATORY DIV

David Boyer

P. O. Box 2088

N.M. Oil Conservation Division

REPORT TO:

XICO

700 Camino de Salud NE Albuquerque, NM 87106 841-2570

/ISION = 87- 1360 -C FNEW ME
75 war " .1
S.L.D. No. OR- 1360 A,B DATE REC. 8-14-87
PRIORITY
CODE:  2  6  0    2  1  4  4  0  D  6  B
CODE:
+ 1 8 + 1 1 / (10N06E24342)  The the type of analytical screens
Aliphatic Hydrocarbons Organochlorine Pesticides Base/Neutral Extractables Herbicides, Chlorophenoxy acid Herbicides, Triazines Organochlorine Pesticides Organophosphate Pesticides Polychlorinated Biphenyls (PCB's) Polynuclear Aromatic Hydrocarbons SDWA Pesticides & Herbicides
mg/l ft.; Casing: GAL, STEEL
BEFINERY BAILED

	Santa Fe, N.M. 87504-2088		PRIORITY
PHONE(S):	327-5812	USER	CODE: 8 2 2 3 5
SUBMITTER:	David Boyer		CODE:  2   6   0
SAMPLE COLLEC	ction code: (yymmddhhmmiii)   8   7   0   8	1/1	2114141010181
SAMPLE TYPE:	water 🟹, soil 🔲, food 🔲, other:		CODE:
COUNTY: EDD	Y CITY: ARTESIA		CODE:
LOÇATION CODE	C: (Township-Range-Section-Tracts) 11 17 15+2	161	E + 1   8 + 1   1   1   (10N06E24342)
	DESTED: Please check the appropriate box(es) below t		ate the type of analytical screens
required. Wheneve	r possible list specific compounds suspected or required		
	PURGEABLE SCREENS	<u>E</u>	KTRACTABLE SCREENS
'	ic Purgeables (1-3 Carbons)		Aliphatic Hydrocarbons
(754) Aromati	ic & Halogenated Purgeables	<b>_  (760)</b>	Organochlorine Pesticides
(765) Mass S	pectrometer Purgeables	755)	Base/Neutral Extractables
[ (766) Trihalor	methanes	<b>]</b> (758)	Herbicides, Chlorophenoxy acid
Other	Specific Compounds or Classes	759)	Herbicides, Triazines
		760)	Organochlorine Pesticides
		7 (761)	Organophosphate Pesticides
		<b>-</b>	Polychlorinated Biphenyls (PCB's)
<b></b>	<u> </u>	<b>-:</b> : :	Polynuclear Aromatic Hydrocarbons
			SDWA Resticides & Herbicides
<u></u>	+ + · 0 · · + · · · · · · · · · · · · ·		1 1
Remarks:	etection limit 10 or Cess	#	possible
FIELD DATA:		U	
	nductivity= 14,000 umho/cm at 24°C; Chlorine F	Residual:	= mg/l
	=mg/l; Alkalinity=mg/l; Flow Rate		<b>S</b>
	10.45 ft.; Depth of well 14.67 ft.; Perforation Interv		_
	, Methods and Remarks (i.e. odors, etc.)		
	PIEZOMETER HP-1, NAVAJ	v i	REFLUERY BALLED
	, SAMPLES ON 2d CASE V		1
	e results in this block accurately reflect the results of		ld analyses observations and
activities (simple)	results in this block accurately reflect the results of	Matha	d as Chiamant to the Table To D
activities.(signature	e collector):  Septum Vials,  Glass Jugs, and/or	Method	of Snipment to the Lab:
Inis form accomp	Septum viais, Glass Jugs, and/or		
Samples were pre	served as follows:		•
NP:	No Preservation; Sample stored at room temperature.		·
	Sample stored in an ice bath (Not Frozen).		,
	Sample Preserved with Sodium Thiosulfate to remove	chlorin	e residual.
CHAIN OF CUS	TODY		
I certify that thi	s sample was transferred from		to
at (location)	on		: and that
the statements in	this block are correct. Evidentiary Seals: Not Sealed	s	eals Intact: Yes No
Signatures			

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter? \_\_\_\_ Initials

LAB. No.: OR- 1360

This sample was tested using the analytical se	creening mernod(s)		4
PURGEABLE SCREENS		EXTRACTABLE SCREENS	•
[ (753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		[ (758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Class	es	(759) Herbicides, Triazines	
		(760) Organochlorine Pesticides	
<u></u>		(761) Organophosphate Pesticides	
''	<del></del>	(767) Polychlorinated Biphenyls (PCB's)	
	<del></del>	(764) Polynuclear Aromatic Hydrocarbons	
 		(762) SDWA Pesticides & Herbicides	
Α	NALYTICA	AL RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
aromatic suranalles	PPB see		[FFB]
anomuna gunganas	* segmenter		
halosensted surgeables	* NID		
9		. 1	
	<del>  </del>		
1	j		
	P		
		·	
			<del></del>
			,
			·
* DETECTION LINES	K 1-48/1	PETER CITION LINES +	
* DETECTION LIMIT * 1	11/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED:	OVE THE STATE	D DETECTION LIMIT	
		D DETECTION LIMIT (NOT CONFIRMED) OR WITH APPROXIMATE QUANTITATION	
T R = DETECTED AT A LEVEL BELG [ RESULTS IN BRACKETS ] ARE UNC	ONFIRMED AND/	OR WITH APPROXIMATE QUANTITATION	· · · · · · · · · · · · · · · · · · ·
T R = DETECTED AT A LEVEL BELG [ RESULTS IN BRACKETS ] ARE UNC	ONFIRMED AND/		gion
T R = DETECTED AT A LEVEL BELG [ RESULTS IN BRACKETS ] ARE UNC	ONFIRMED AND/	or with approximate quantitation	egion
T R = DETECTED AT A LEVEL BELG [ RESULTS IN BRACKETS ] ARE UNC	ONFIRMED AND/	OR WITH APPROXIMATE QUANTITATION	egion or
T R = DETECTED AT A LEVEL BELG [ RESULTS IN BRACKETS ] ARE UNC	ONFIRMED AND/	or with approximate quantitation	gion
T R = DETECTED AT A LEVEL BELG [ RESULTS IN BRACKETS ] ARE UNC	ONFIRMED AND/	or with approximate quantitation	lg ion
T R = DETECTED AT A LEVEL BELG [ RESULTS IN BRACKETS ] ARE UNC	ONFIRMED AND/	or with approximate quantitation	gion or
T R = DETECTED AT A LEVEL BELG [ RESULTS IN BRACKETS ] ARE UNC	ONFIRMED AND/	or with approximate quantitation	gion
TR = DETECTED AT A LEVEL BELO [ RESULTS IN BRACKETS ] ARE UNC  LABORATORY REMARKS: Fire Comp  at less than 1 set delle  but not identified.	onfirmed and/	or with approximate quantitation	egion or
TR = DETECTED AT A LEVEL BELG [RESULTS IN BRACKETS] ARE UNC  LABORATORY REMARKS: First Comp  at less than I self dell  but not identified.  CERTIF	ONFIRMED AND/	or with approximate quantitation  the asymptic general solution of the photosinization details  YTICAL PERSONNEL	gion
TR = DETECTED AT A LEVEL BELO [ RESULTS IN BRACKETS ] ARE UNC  LABORATORY REMARKS: Fine Comp  at less than I per delle  Land Mark Mark Mark Mark Mark Mark Mark Mark	ONFIRMED AND/	or with approximate quantitation  on the asymptic general so  the photoionization details  YTICAL PERSONNEL  Tables  date:	Ø2
TR = DETECTED AT A LEVEL BELO [ RESULTS IN BRACKETS ] ARE UNC  LABORATORY REMARKS: Fire Comp  that set than I see different than I see that the set than I see that the set than I see that the set that I see that I followed standard laboratory pro-	ICATE OF ANALY	or with approximate quantitation  The asympton form of the photosinique of the photosi	Ø2
TR = DETECTED AT A LEVEL BELL [ RESULTS IN BRACKETS ] ARE UNC.  LABORATORY REMARKS: Tive Comp  at less than I selectified.  CERTIF:  Seal(s) Intact: Yes No Seal(s) brokes I certify that I followed standard laboratory prothat the statements on this page accurately refle	ICATE OF ANALY cedures on handling the analytical in	The asympton seems of the photoconigotism deltally  YTICAL PERSONNEL  g and analysis of this sample unless otherwise notes  results for this sample.	<i>S</i> 2
TR = DETECTED AT A LEVEL BELL [ RESULTS IN BRACKETS ] ARE UNC.  LABORATORY REMARKS: First Comp  at less than I selectified.  CERTIF:  Seal(s) Intact: Yes No Seal(s) brokes I certify that I followed standard laboratory prothat the statements on this page accurately refle	ICATE OF ANALY cedures on handling the analytical in	The asympton seems of the photoconigotism deltally  YTICAL PERSONNEL  g and analysis of this sample unless otherwise notes  results for this sample.	Ø2.
TR = DETECTED AT A LEVEL BELL [ RESULTS IN BRACKETS ] ARE UNC  LABORATORY REMARKS: First Comp  at less than I selected from the statements on this page accurately reflected by the statements of analysis: 9/4/87. Analyst.	ICATE OF ANALY cedures on handling it the analytical is signature:	The asympton seems of the photoconigotism deltally  YTICAL PERSONNEL  g and analysis of this sample unless otherwise notes  results for this sample.	d and
TR = DETECTED AT A LEVEL BELL [ RESULTS IN BRACKETS ] ARE UNC  LABORATORY REMARKS: Tive Comp  at less than I sell all  Lat mot interpreted to the statements on this page accurately reflected to the statements of analysis: 9/4/87. Analyst	ICATE OF ANALY cedures on handling it the analytical is signature:	The aromatic seems of the photoconigotism deltally  YTICAL PERSONNEL  g and analysis of this sample unless otherwise notes  Tany C. Glen	d and

## SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

Albuquerque, NM 87106 841-2570

REPORT TO:	David Boyer	_ S.L.D. No. OR- 907 A+B
	N.M. Oil Conservation Division	DATE REC. 6-1-87
	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812 us	ER CODE: [8   2   2   3   5
SUBMITTER:	David Boyer	CODE: 12   6   0
SAMPLE COLLE	ection code: (YYMMDDHHMMIII)   8   7   0   5   3	461/1/1015 A 1813-
SAMPLE TYPE:	WATER ⊠, SOIL □, FOOD □, OTHER:	CODE:
COUNTY: E	lay ; CITY: Artesia	CODE:
LOCATION COL	E: (Township-Range-Section-Tracts) 117 15+217	E+ 1 8 + 1 1 1 (10N06E24342)
1	QUESTED: Please check the appropriate box(es) below to in-	· · · · · · · · · · · · · · · · · · ·
required. Whenev	ver possible list specific compounds suspected or required.  PURGEABLE SCREENS	EXTRACTABLE SCREENS
(753) Alipha		51) Aliphatic Hydrocarbons
' <del></del> ', ' '	atic & Halogenated Purgeables	60) Organochlorine Pesticides
	• • • • • • • • • • • • • • • • • • • •	55) Base/Neutral Extractables
(766) Trihal	omethanes (7	58) Herbicides, Chlorophenoxy acid
Other	Specific Compounds or Classes	59) Herbicides, Triazines
		60) Organochlorine Pesticides
I □		61) Organophosphate Pesticides
		67) Polychlorinated Biphenyls (PCB's)
<b>│</b>		64) Polynuclear Aromatic Hydrocarbons
	1 (7)	62) SDWA Pesticides & Herbicides
Remarks:	the Committee of the Co	
Remarks:	CHECON CONTROL	
Remarks:  FIELD DATA:	CHECON CONTROL OF THE PARTY OF	
PIELD DATA:	onductivity= 14,600 mmho/cm at 19,5°C; Chlorine Residu	nal=mg/l
FIELD DATA:	onductivity= 14,600 mmho/cm at 19,0°C; Chlorine Residu	ual=mg/l
FIELD DATA:	·	nal=mg/l
PIELD DATA:  pH=; C  Dissolved Oxyget  Depth to water	mg/l; Alkalinity=mg/l; Flow Rate	
PIELD DATA:  pH=; C  Dissolved Oxyget  Depth to water	mg/l; Alkalinity= mg/l; Flow Rate ft.; Depth of well ft.; Perforation Interval	ft.; Casing:
PIELD DATA:  pH=; C  Dissolved Oxyget  Depth to water	mg/l; Alkalinity=mg/l; Flow Rate ft.; Depth of wellft.; Perforation Interval_  on, Methods and Remarks (i.e. odors, etc.)  Navaja  Navaja	
FIELD DATA:  pH=; C  Dissolved Oxygen  Depth to water  Sampling Location  (C)  (C)  I certify that the	memg/l; Alkalinity=mg/l; Flow Rate  ft.; Depth of wellft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.) Navaya  Signature HP-/ Band  then took sample : No  the results in this block accurately reflect the results of my	ft.; Casing: ft.; Casing: ft.; Casing: ft.; Casing: ft.; Casing:
FIELD DATA:  pH=; C  Dissolved Oxyger  Depth to water  Sampling Location  LL & C  C C  I certify that the activities. (signature)	mg/l; Alkalinity=mg/l; Flow Rate  ft.; Depth of wellft.; Perforation Interval_  on, Methods and Remarks (i.e. odors, etc.)  Navaya  the months hample. No  the results in this block accurately reflect the results of my  are collector): Many Methods  Methods and Remarks (i.e. odors, etc.)  Methods and Remarks (i.e. odors, etc.)  Navaya  Methods and Remarks (i.e. odors, etc.)	ft.; Casing:  Refinery,  es 3 carry Volumes  Odo; Sheen From descripp  field analyses, observations and partifle  hod of Shipment to the Lab: StateCar
FIELD DATA:  pH=; C  Dissolved Oxygen  Depth to water  Sampling Location  (S Q)  I certify that the activities (signature)  This form accommoders	mg/l; Alkalinity= mg/l; Flow Rate  ft.; Depth of well ft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.)  Navara  the Dock Methods with the source of the results of my  are collector): Many Methods and Remarks (i.e. odors, etc.)  May and Methods and Remarks (i.e. odors, etc.)  Navara  Methods and Remarks (i.e. odors, etc.)  Navara  Remarks (i.e. odors, etc.)	ft.; Casing:  Refinery,  es 3 carry Volumes  Odo; Sheen From descripp  field analyses, observations and partifle  hod of Shipment to the Lab: StateCar
FIELD DATA:  pH=; C  Dissolved Oxygen  Depth to water  Sampling Location  (C)  I certify that the activities (signature This form accompany)	mg/l; Alkalinity= mg/l; Flow Rate  ft.; Depth of well ft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.)  New 2017  Such then the sample No  the results in this block accurately reflect the results of my  are collector):  Septum Vials, Glass Jugs, and/or  reserved as follows:	ft.; Casing:  Refinery,  es 3 carry Volumes  Odo; Sheen From descripp  field analyses, observations and partifle  hod of Shipment to the Lab: StateCar
FIELD DATA:  pH=; C  Dissolved Oxygen  Depth to water  Sampling Location  (C)  I certify that the activities (signature of the company of	mg/l; Alkalinity= mg/l; Flow Rate  ft.; Depth of well ft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.)  Novaria  The months of the results of my  are collector):  Methods accurately reflect the results of my  are collector):  Methods accurately reflect the results of my  are collector):  Methods accurately reflect the results of my  are collector):  Methods accurately reflect the results of my  are collector):  Methods and Remarks (i.e. odors, etc.)	ft.; Casing:  Refinery,  es 3 carry Volumes  Odo; Sheen From descripp  field analyses, observations and partifle  hod of Shipment to the Lab: StateCar
FIELD DATA:  pH=; C  Dissolved Oxygen  Depth to water  Sampling Location  (C)  I certify that the activities (signature of the company of	mg/l; Alkalinity= mg/l; Flow Rate  ft.; Depth of well ft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.)  Novanta  the marks (i.e. odors, etc.)  Novanta  the results in this block accurately reflect the results of my  are collector):  Septum Vials, Glass Jugs, and/or  reserved as follows:  No Preservation; Sample stored at room temperature.  Sample stored in an ice bath (Not Frozen).	ft.; Casing: ft.; Casing:
FIELD DATA:  pH=; C  Dissolved Oxyger  Depth to water  Sampling Location  (C)  I certify that the activities (signature This form accomples were properties.  P-Ice  P-Na S O 3	mg/l; Alkalinity= mg/l; Flow Rate  ft.; Depth of well ft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.)  November 1  Control of Well ft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.)  November 1  No Preservation; Sample stored at room temperature.  Sample Preserved with Sodium Thiosulfate to remove chlo	ft.; Casing: ft.; Casing:
FIELD DATA:  pH=; C  Dissolved Oxygen  Depth to water  Sampling Location  I certify that the activities (signature of the constitution of the	mg/l; Alkalinity= mg/l; Flow Rate  ft.; Depth of well ft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.)  Normalia  the Difference of the control of the results of my  are collector):  Septum Vials, Glass Jugg, and/or  reserved as follows:  No Preservation; Sample stored at room temperature.  Sample stored in an ice bath (Not Frozen).  Sample Preserved with Sodium Thiosulfate to remove chloserody.	ft.; Casing:
FIELD DATA:  pH=; C  Dissolved Oxygen  Depth to water  Sampling Location  I certify that the activities (signature of the constitution of the	mg/l; Alkalinity=mg/l; Flow Rate	ft.; Casing:
FIELD DATA:  pH=; C  Dissolved Oxyger  Depth to water  Sampling Location  I certify that the activities. (signature this form accomes to the second samples were proposed in the second samples were proposed	mg/l; Alkalinity= mg/l; Flow Rate  ft.; Depth of well ft.; Perforation Interval  on, Methods and Remarks (i.e. odors, etc.)  Normalia  the Double Hours wantle work  the results in this block accurately reflect the results of my  are collector): Many Methods  mpanies Septum Vials, Glass Juge, and/or reserved as follows:  No Preservation; Sample stored at room temperature.  Sample stored in an ice bath (Not Frozen).  Sample Preserved with Sodium Thiosulfate to remove chlosomore.	rine residual.
FIELD DATA:  pH=; C  Dissolved Oxyger  Depth to water  Sampling Location  I certify that the activities. (signature this form accomes to the second samples were proposed in the second samples were proposed	mg/l; Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Intervalon, Methods and Remarks (i.e. odors, etc.)    Companies   Remarks   Rem	rine residual.

For OCD Use: Date Owner Notified \_\_

Phone or Letter?\_\_\_\_\_ Initials

LAB. No.: OR- 9/17

PURGEABLE SCREENS  [ (753) Aliphatic Purgeables (1-3 Carbons)  [ (754) Aromatic & Halogenated Furgeables  [ (765) Mass Spectrometer Purgeables  [ (766) Trihalomethanes  Other Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons  (760) Organochlorine Pesticides  (755) Base/Neutral Extractables  (758) Herbicides, Chlorophenoxy acid  (759) Herbicides, Triazines  (760) Organochlorine Pesticides  (761) Organophosphate Pesticides  (767) Polychlorinated Biphenyls (PCB's)  (764) Polynuclear Aromatic Hydrocarbons  (762) SDWA Pesticides & Herbicides	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
to the second	[PPB]		ILI DI
arimplie surgeables	$N,D_i$		
palizenated surgerlles	N.D.		
* DETECTION LIMIT * *	10-49/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED:			······································
N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONF	THE STATED	DETECTION LIMIT (NOT CONFIRMED)	:
LABORATORY REMARKS:			
·			
CERTIFICAT	TE OF ANALY	TICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken by I certify that I followed standard laboratory procedu that the statements on this page accurately reflect t	res on handling		anci
	-	.1 .00	
Date(s) of analysis: 6/19/87. Analyst's sign I certify that I have reviewed and concur with the		<i>'</i> //	block
Reviewers signature: Myenhem			DIOCK.
<i>V</i>			



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 860 wrr

### GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE	٠ ا ا ا ا	AD A	HEED		<del></del>	
DATE RECEIVED	0 187 N	8 WC-1982	USER CODE 59300	<u>□ 59600 🕅 c</u>	THER: 822	235
Collection DATE	1	SITE INFORM- ▶	Sample location		mêre	HP-1
Collection TIME	1	ATION			7	
Collected by - Person/	Agency / 1. /	/000	Collection site description	U	565	Well Point
Boy	3 And	1/60m/OCD			] <del></del>	
V				-	***************************************	
	ENVIRONMEN"		/TCTON			***************************************
SEND FINAL	NM UIL CUNS	SERVATION DI\ Office Bldg	PO Box 208	3		
		NM 87504-208		-		
<u> </u>	David Boy			·		
Auti	والمالىلىسىلىلىلىقىلىلىلىلىلىلىلىلىلىلىلىلىلى	<del>}</del>	<del></del>	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	Station	· · · · · · · · · · · · · · · · · · ·
Pho	ne: 827-58	312			Station/ well code	
SAMPLING CO	•				Owner	
⊠′ Bailed	☐ Pump	Water level		Discharge		Sample type
☐ Dipped	☐ Tap					GRAR
pH (00400)	_	Conductivity (Unco	rrected)	Water Temp. (00010)	19.5°C	Conductivity at 25°C (00094)
Field comments	7		DOO μmho		7	μmho
	<u>Jez</u>	roc 8	heel so	of comme	enls	, 
			-	•		
	D TREATMEN	T — Check prope				and the second s
No. of samples submitted	/ ANI	Whole sample (Non-filtered)	F: Filtered in	field with $\Box$ A: 2 mbrane filter	ml H <sub>2</sub> SO <sub>4</sub> /	L added
	<u>/                                    </u>	<del></del>				
MA: No ac	id added 🗆 (	Jiner-specify:	□A:	our conc. HNO3 ad	laed $\square A$	4: 4ml fuming HNO <sub>3</sub> added
ANALYTICAL I	RESULTS from	SAMPLES				,
NA			Units Date analyze	From NP,	NA Sample	: Date
Conductivity (0 25°C (00095)	Corrected)	16,020	umho <u>6/19°</u>	, , , , , ,		Analyzed
23 0 (00095)	•		инпо <u>— <i>2711</i> /     </u>	TVT 0-3-4	izon	ma/1 / / /->
☐ Total non-filter	-			Calcium		mg/16//7
residue (suspe (00530)			mg/l	Potassium _		
Other: p &	/Lab	6.99	6/10	Magnesium _	566	mg/16//7
To Outer.	/			- 🛛 Sodium	2/83	mg/1 <u>6//</u> 5
☐ Other:	<del></del> .		•	☐ Bicarbonate		mg/1 6/10
A-H <sub>2</sub> SO <sub>4</sub>				Chloride _		
☐ Nitrate-N+, N	itrate-N			<del></del> ;		
total (00630)			mg/l	Sulfate		
☐ Ammonia-N to ☐ Total Kjeldahl-			mg/l	- ⊠_Total Solid		
( )			mg/l	Q CLUOK	ide o	0.78 6/18
☐ Chemical oxy				<b>∏</b>		٠.
demand (0034	-		mg/l	-  <del></del>		
( )			mg/l	- A Cation/A	nion Bal	lance
☐ Other:				Analyst		eported Reviewed by
☐ Other:			<del></del>	-		19 87 CQ
Laboratory remar	ks	<del></del>		<u> </u>		
7						
				Dhorn or Tabb	or?	Tnitala
FOR OCD US	E Date (	Owner Notifie	20	Phone or Lett	er:	Initals

ANALYTI	CATIONS  E MEQ.	PPM	DET.	ANALYTI	ANIONS  E MEQ.	РРМ	DET.
Ca Mg Na K	50.90 46.49 94.95 0.27	1020.00 566.00 2183.00 10.50	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	5.10 71.94 119.44	311.00 3453.00 4234.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00		NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	192.61	3779.50			196.47	7998.00	
	Dissolved lance =	Solids= 98.04%	13188		C No. out/By _	= 8701982 c9 6/14/57	_

SCIENTIFIC LABORATORY DIVISION TO Camino de Salud NE Albuquerque, NM 87106 841-2570

REPORT TO:	David Boyer	S.L.D. No. OR- 1356 AB					
	N.M. Oil Conservation Division	DATE REC. 8-14-87					
	P. O. Box 2088						
	Santa Fe, N.M. 87504-2088	PRIORITY					
PHONE(S):	327-5812 <sub>118</sub>	SER CODE:   8   2   2   3   5					
SUBMITTER:	David Boyer	CODE: 12   6   0					
	CTION CODE: (YYMMDDHHMMIII)   8   7   0   8   1						
	WATER , SOIL , FOOD , OTHER:						
COUNTY: E-O	9 ; CITY: ARTES 14	CODE: 1 1 1 1					
LOCATION COD	E: (Township-Range-Section-Tracts) 1/17/5+2/6	1E+ / 13 + 2121 / (10N06E24342)					
	UESTED: Please check the appropriate box(es) below to in						
	er possible list specific compounds suspected or required.	· · · · · · · · · · · · · · · · · · ·					
	PURGEABLE SCREENS	EXTRACTABLE SCREENS					
		51) Aliphatic Hydrocarbons					
<b>Z</b>		60) Organochlorine Pesticides					
(766) Trihale	-	55) Base/Neutral Extractables 58) Herbicides, Chlorophenoxy acid					
·	: <del></del>	59) Herbicides, Triazines					
		60) Organochlorine Pesticides					
		61) Organophosphate Pesticides					
		67) Polychlorinated Biphenyls (PCB's)					
		64) Polynuclear Aromatic Hydrocarbons					
		62) SDWA Pesticides & Herbicides					
Remarks:	Setection Limit 1000le	est if passe belo					
	December 19	as y free states					
	· · · · · · · · · · · · · · · · · · ·						
FIELD DATA:							
	onductivity= 24 600 umho/cm at 20,5 °C; Chlorine Resid						
Y	mg/l; Alkalinity=mg/l; Flow Rate						
	9.59 ft.; Depth of well 15,65ft.; Perforation Interval	ft.; Casing: GAL, SIEKL					
	on, Methods and Remarks (i.e. odors, etc.)	,					
<u> </u>	USGS PIEZOMETER HP-2 PURGED ICSG VOL SLOW						
RECOVERY							
I certify that the results in this block accurately reflect the results of my field analyses, observations and activities (signature collector):  This form accompanies  Septum Vials,  Glass Jugs, and/or							
activities.(signatu	re collector): Met	hod of Shipment to the Lab: XALO (1)					
	reserved as follows:						
NP:	No Preservation; Sample stored at room temperature.	•					
NZ P-Ice	Sample stored in an ice bath (Not Freezen)						
P-Na SO	Sample Preserved with Sodium Thiosulfate to remove chlo	rine residual.					
CHAIN OF CU	STODY						
I certify that th	nis sample was transferred from	to					
at (location) on ; and that							
the statements in this block are correct. Evidentiary Seals: Not Sealed Seals Intact: Yes No							
Signatures							
ī							

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter? \_\_\_\_ Initials \_\_\_\_

LAB. No.: OR- 1356

This sample was tested using the analytical screen	ning method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
[ (753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
	<del></del>	(762) SDWA Pesticides & Herbicides	
AN	ALYTICA	AL RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic surgeables *			
The total second	200		
acesone J	200		
Toluene	2/		
	1		
halosenated surveibles #	NI		
The state of the s			
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	1 1		Ž
	} <u> </u>		
·	1		
* DETECTION LIMIT * *	19/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW			•
		OR WITH APPROXIMATE QUANTITATION	
( ADDODAG III DIGIONDIG ) INCD ON CONT	MUNDO AND	on will Althornall Constitution	
			·· <del>······</del>
LABORATORY REMARKS:			
CERTIFICA	TE OF ANAL	YTICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken by		Scolled date:	
I certify that I followed standard laboratory procedu		•	l and
that the statements on this page accurately reflect t	•		
Date(s) of analysis: 9/14/87. Analyst's si	gnature:	Hary Cilden	
I certify that I have reviewed and concur with the	analytical resu	ults for this sample and with the statements in this	block.
Reviewers signature: Kmeyerblin			

## SCIENTIFIC LABORATORY DIVISION 2 700 Camino de Salud NE

87- 0905-C MEXICO

Initials

Albuquerque, NM 87106 841-2570

REPORT TO:	David Boyer	S.L.D. No. OR- 905 A4B				
	N.M. Oil Conservation Division	DATE REC. 6-1-87				
	P. O. Box 2088					
	Santa Fe, N.M. 87504-2088	PRIORITY				
PHONE(S):	827-5812	USER CODE:   8   2   2   3   5				
SUBMITTER:	David Boyer	CODE: 12 16 10 1				
	ECTION CODE: (YYMMDDHHMMIII)   8   7   0					
SAMPLE TYPE:	WATER K SOIL , FOOD , OTHER:	CODE:				
COUNTY:	Eddy ; CITY: hortesia	CODE:				
J	DE: (Township-Range-Section-Tracts) 1775+					
ANALYSES REC	QUESTED: Please check the appropriate box(es) below	w to indicate the type of analytical screens				
required. Whenev	ver possible list specific compounds suspected or requi					
(753) Alipha	PURGEABLE SCREENS atic Purgeables (1-3 Carbons)	EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons				
·—· , · · · · · · · · · · · · · · · · ·	atic & Halogenated Purgeables	(760) Organochlorine Pesticides				
	Spectrometer Purgeables	(755) Base/Neutral Extractables				
(766) Trihale	1	(758) Herbicides, Chlorophenoxy acid				
Other	r Specific Compounds or Classes	(759) Herbicides, Triagines				
		(760) Organochlorine Pesticides				
	- are called the leading	(761) Organophosphate Pesticides				
	5. 价格证据证据的	(767) Polychlorinated Biphenyls (PCB's)				
		(764) Polynuclear Aromatic Hydrocarbons				
	100 - 3 100 - 1101	(762) SDWA Pesticides & Herbicides				
Remarks:	Marie Town					
ICEIIIAI AB.	Of the state of th					
FIELD DATA:	Chie Contraction Contraction					
i	onductivity= 4,800 umho/cm at 55 °C; Chlorine	e Residual= mg/l				
	m=mg/l; Alkalinity=mg/l; Flow Rate_					
Depth to water	,					
1160	Dianomoter UP-2 Sample	alle one objectible and warn				
TSGNT 6	Sampling Location, Methods and Remarks (i.e. odors, etc.) Navajo Refinieris  1865 Pianometer HP-2. Sample after one casing voluma pringo  [Start of In) due to slever cionery. No odor, sheen som desorpring					
I certify that the results in this block accurately reflect the results of my field analyses, observations and Particles						
activities.(signature collector): Landy Roy Method of Shipment to the Lab: State Car						
This form accompanies Septum Vials, Glass Jugs, and/or						
Samples were preserved as follows:						
NP: No Preservation; Sample stored at room temperature.						
P-Ice Sample stored in an ice bath (Not Frozen).						
P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual.						
CHAIN OF CUSTODY						
I certify that this sample was transferred from to						
at (location) on on = and that						
the statements i	the statements in this block are correct. Evidentiary Seals: Not Sealed Seals Intact: Yes No					
Signatures						

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter?

LAB. No.: OR- 905

ANALYTICAL RESULTS  COMPOUND(S) DETECTED  COMC. COMPOUND(S) DETECTED  CONC. [PPB]  Alloggnated analytical N.D.  Detection limit *   PD   + Detection limit + +    ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT  T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)  [ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION  LABORATORY REMARKS:  CERTIFICATE OF ANALYTICAL PERSONNEL  Seal(s) Intact: Yes  No Seal(s) broken by: Manalytical results for this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analytics: Apple Analytics analytical results for this sample.  I certify that I have reversed and concupy with the analytical results for this sample and with the statements in this block.	PURGEABLE SCREENS  [ (753) Aliphatic Purgeables (1-3 Carbons)  [ (754) Aromatic & Halogenated Furgeables  [ (765) Mass Spectrometer Purgeables  [ (766) Trihalomethanes  Other Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides		
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* DETECTION LIMIT * * * * * * * * * * * * * * * * * * *	- Salogenaled purgatles				
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT  T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)  [ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION  LABORATORY REMARKS:  CERTIFICATE OF ANALYTICAL PERSONNEL  Seal(s) Intact: Yes  No Seal(s) broken by:  I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis: CAMPRO Analyst's signature: Many C. Maln	aromolie fulgeables	1/1/1/			
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CERTIFICATE OF ANALYTICAL PERSONNEL  Seal(s) Intact: Yes No Seal(s) broken by:  I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis:  Date(s) of analysis:  Analyst's signature:  Analyst's signature:	N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)				
Seal(s) Intact: Yes No E. Seal(s) broken by:  I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis:  Analyst's signature:  MANY C. Follow	LABORATORY REMARKS:				
Seal(s) Intact: Yes No E. Seal(s) broken by:  I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis:  Analyst's signature:  MANY C. Follow					
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Seal(s) Intact: Yes No E. Seal(s) broken by:  I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis: Analyst's signature:  MANY C. Follow					
Seal(s) Intact: Yes No E. Seal(s) broken by:  I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis: Analyst's signature:  MANY C. Follow				<del></del>	
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis: 6/19/87 . Analyst's signature: 6. Follow	CERTIFICAT	TE OF ANALY	TICAL PERSONNEL		
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.  Date(s) of analysis: 6/19/87 . Analyst's signature: 6. Follow	Seal(s) Intact: Yes No P. Seal(s) broken by	r:	not sealed date:		
Date(s) of analysis: 6/19/87 . Analyst's signature: Jany C. Talin	I certify that I followed standard laboratory procedu	res on handling		and	
		•	- 1		
	Date(s) of analysis: 6/19/87 Analyst's sig	gnature:	Hary C. Yallen		
$\sim$					
Reviewers signature:	- ilyanan				



New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

Wy 4 by

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

.1 1		(000)					
DATE RECEIVED &	114 187	NO. WE 3704	USER CODE _ 5930	o □ 59600 💢X	OTHER: 822	235	
Collection DATE		SITE INFORM- ►	Sample location	PAUASU RE	FINERY		
Collection TIME		ATION	Collection site description				
Collected by - Perso		/OCD		USGS	#P-	2	
BOYE	<u> </u>	7000			<b>–</b>		
	FNVTRONMEN	NTAL BUREAU					
SEND	NM OIL CON	SERVATION DIV	ISION				
FINAL REPORT		Office Bldg,		8 -			
TO •	_	NM 87504-2088	3				
Att	n:David_Bo	yer					
Ph	one: 827-5	812			Station/ well code		
SAMPLING C		OIL			Owner		
⊠ Bailed	□ Pump	Water level		Discharge		Sample type	
Dipped	🗆 Тар	9,	59			GRAB	
pH (00400)	2,5	Conductivity (Unco	rrected) <i>b00</i> μmho	Water Temp. (00010)	20,5°C	Conductivity at 25°C (00094)  µmho	
Field comments					×0,0 0	μιιιιο.	
	PURCIE	n 105G	VOL - V	BRY SLOW	RECOVI	BRY	
		***************************************	•	************************************			
SAMDI E EIE	I D TREATMEN	NT — Check prope	r hoves				
No. of sample	"T.		F: Filtered in	field with	0 111 00 1		
submitted	s / ×N	(Non-filtered)	0.45 μme	mbrane filter	2 ml H₂SO₄/	_ added	
NA: No a	acid added 🗆	Other-specify:	□A:	5ml conc. HNO <sub>3</sub> a	dded □A	4: 4ml fuming HNO <sub>3</sub> added	
	RESULTS from						
NA C-/			Units Date analyze	From NF,	NA Sample	: Date	
Conductivity 25°C (0009	y (Corrected) 5)	33619 	<sub>Imho</sub> 10/1	_		Analyzed	
Tatal non 614		·	•	X Calcium	568	mg/1 9.//8	
Total non-filt residue (sus				Potassium	. 3/	mg/1 9.//8 2 mg/1 8/3/	
(00530) Other: /	1 1	7.75	mg/l	Magnesium	2582	mg/1 9/(8	
Other:	-			Sodium -		,	
☐ Other:	_			1			
A-H <sub>2</sub> SO <sub>4</sub>				Bicarbonat			
☐ Nitrate-N+,	Nitrate-N			Chloride _		<del></del>	
total (00630)			mg/l	_ Sulfate _	18,10	<del></del>	
☐ Ammonia-N			mg/l	- Total Soli		000mg/1 10/2	
☐ Total Kjeldal (	) <u> </u>		mg/l	A Fluo	ude i	1.58 9/18/87	
☐ Chemical or demand (00			ma/l				
☐ Total organic			mg/l				
(	)		mg/l	- Cation/A	nion Bal	lance	
☐ Other:	<del></del> -			Analyst	Date Re	eported Reviewed by	
					10	6 87 69	
Laboratory rema	arks						
***************************************				***************************************			
FOR OCD U	SE Date	Owner Notifie	d	Phone or Lett	er?	Initals	

ANALYTI	CATIONS E MEQ.	PPM	DET. LIMIT	ANALYTE	ANIONS MEQ.	PPM	DET.
Ca Mg Na K	28.34 212.07 689.30 0.80	568.00 2582.00 15847.00 31.20	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	16.91 377.08 207.33	1032.00 18100.00 7350.00	<10.0
Mn Fe	0.00	0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	930.51	19028.20			601.33	26482.00	
	Dissolved lance =	l Solids= 154.74%	40000	W( Date o	C No.	= (8703704   10 17 2	4

#### SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE

Albuquerque, NM 87106 841-2570

87- 1350 -C NEW MEXICO

Initials

S.L.D. No. OR-\_/350 David Boyer REPORT TO: N.M. Oil Conservation Division DATE REC. P. O. Box 2088 Santa Fe, N.M. 87504-2088 PRIORITY USER CODE: | 8 | 2 | 2 | 3 | 5 | 327-5812 PHONE(S): David Boyer \_\_\_\_\_ CODE: |2 |6 |0 | SUBMITTER: SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) | 8 | 7 | 0 | 8 | 1 | 2 | 1 | 5 | 2 | 5 | D | 6 | B | SAMPLE TYPE: WATER X, SOIL , FOOD , OTHER: CODE: | | COUNTY: FORY ; CITY: HRTESIA CODE: | | | LOCATION CODE: (Township-Range-Section-Tracts) |1|2|5+2|6|E+1|3+1|2|2 (10N06E24342) ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required. PURGEABLE SCREENS EXTRACTABLE SCREENS (753) Aliphatic Purgeables (1-3 Carbons) [ (751) Aliphatic Hydrocarbons (754) Aromatic & Halogenated Purgeables [ (760) Organochlorine Pesticides (765) Mass Spectrometer Purgeables (755) Base/Neutral Extractables (766) Trihalomethanes (758) Herbicides, Chlorophenoxy acid Other Specific Compounds or Classes (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) [ (764) Polynuclear Aromatic Hydrocarbons [ (762) SDWA Pesticides & Herbicides FIELD DATA: pH= ; Conductivity= 7600 umho/cm at 2 1 °C; Chlorine Residual= mg/l Dissolved Oxygen= mg/l; Alkalinity= mg/l; Flow Rate \_\_\_\_\_\_ Depth to water 6,10 ft.; Depth of well 13,24ft.; Perforation Interval \_\_\_\_\_ ft.; Casing: GAL GTEEL Sampling Location, Methods and Remarks (i.e. odors, etc.) USGS PIEZOMETER HP-3, NAVATO REFINERY, PURGED 3 OSG VOL - SHEEN ON WATER, ODOR I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):

Method of Shipment to the Lab: V Class Jugs, and/or This form accompanies 2 Septum Vials, Samples were preserved as follows: NP: No Preservation; Sample stored at room temperature. Sample stored in an ice bath (Not Frozen). P-Ice P-Na\_S\_O\_ Sample Preserved with Sodium Thiosulfate to remove chlorine residual. CHAIN OF CUSTODY I certify that this sample was transferred from to at (location) \_\_ \_\_\_\_\_\_on \_\_\_\_\_\_ on \_\_\_\_\_\_\_ - :\_\_\_ and that the statements in this block are correct. Evidentiary Seals: Not Sealed | Seals Intact: Yes | No |

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter?\_\_\_\_

LAB. No.: OR- 1350

This sample was tested using the analytical screening method(s) checked below:					
PURGEABLE SCREENS		EXTRACTABLE SCREENS			
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons			
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides			
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables			
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid			
· <del></del> -					
Other Specific Compounds or Classes		(759) Herbicides, Triazines			
		(760) Organochlorine Pesticides			
		(761) Organophosphate Pesticides			
		(767) Polychlorinated Biphenyls (PCB's)			
	<del></del>	(764) Polynuclear Aromatic Hydrocarbons			
		(762) SDWA Pesticides & Herbicides			
AN	ALYTICA	AL RESULTS			
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.		
	[PPB]		[PPB]		
aromatic surgeables	N.D.				
halar attil hugaalla	N.D.				
The artiful the Marie of the services	1 70				
	ļ				
	}				
	1	1			
			·		
		·			
4					
* DETECTION LIMIT * * 1 193/2 + DETECTION LIMIT + +					
ABBREVIATIONS USED:					
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT			
T R = DETECTED AT A LEVEL BELOW	THE STATE	DETECTION LIMIT (NOT CONFIRMED)			
[ RESULTS IN BRACKETS ] ARE UNCONF	FIRMED AND/	OR WITH APPROXIMATE QUANTITATION			
LABORATORY REMARKS:					
			· · · · · · · · · · · · · · · · · · ·		
CERTIFICA	TE OF ANAL	YTICAL PERSONNEL			
Seal(s) Intact: Yes No 2. Seal(s) broken by:					
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and					
that the statements on this page accurately reflect the analytical results for this sample.					
Date(s) of analysis: 8/17/87 . Analyst's signature: Keny C. Polen					
I certify that I have reviewed and conjur, with the analytical results for this sample and with the statements in this block.					
Reviewers signature:					

For OCD Use: Date Owner Notified

# SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 841-2570 87-090

87-0906-C FNEW MEXICO

REPORT TO:	David Boyer	S.L.D. No. OR- 906 A+B				
	N.M. Oil Conservation Division	DATE REC. 6-1-87				
	P. O. Box 2088					
	Santa Fe, N.M. 87504-2088	PRIORITY				
PHONE(S):	827-5812 USER	CODE:   8   2   2   3   5				
SUBMITTER:	David Boyer	CODE:  2   6   0				
	ection code: (YYMMDDHHMMIII)   8 7 0 5 2					
	WATER A SOIL , FOOD , OTHER:					
COUNTY:	day ; CITY: Detelia	CODE:				
	E: (Township-Range-Section-Tracts) 1715+2161					
	UESTED: Please check the appropriate box(es) below to indic	ate the type of analytical screens				
required. Whenev	er possible list specific compounds suspected or required.  PURGEABLE SCREENS	KTRACTABLE SCREENS				
(753) Alipha		Aliphatic Hydrocarbons				
(754) Aroma	tic & Halogenated Purgeables (760)	Organochlorine Pesticides				
(765) Mass	Spectrometer Purgeables (755)	Base/Neutral Extractables				
(766) Trihale		Herbicides, Chlorophenoxy acid				
Other		Herbicides, Triazines				
<u> -</u>   ·		Organochlorine Pesticides				
		Organophosphate Pesticides Polychlorinated Biphenyls (PCB's)				
	1997	Polynuclear Aromatic Hydrocarbons				
	(762)	SDWA Pesticides & Herbicides				
''	CONSTRUCTION DIVISION					
Remarks:	CIL CO. CANTA FE					
	16%					
FIELD DATA:	onductivity= <u>7800</u> umho/cm at 6°C; Chlorine Residual	- ma/l				
}						
	mg/l; Alkalinity= mg/l; Flow Rate ft.; Depth of well ft.; Perforation Interval					
!						
Sampling Location	on, Methods and Remarks (i.e. odors, etc.) Navajo	a in in				
4565 Pienomeles HP-3. Slight HC odo, poinbour sheen						
Track (Losationnear of pipeling leah), Bailed 3 casing						
!	he results in this block accurately reflect the results of my fie	d analyses, observations and				
activities.(signatu	re collector): Methodological Method					
1						
Samples were preserved as follows:  NP:  No Preservation; Sample stored at room temperature.						
P-Ice Sample stored in an ice bath (Not Frozen).						
P-Na S O	Sample Preserved with Sodium Thiosulfate to remove chlorin	e residual.				
CHAIN OF CU	STODY					
I certify that th	nis sample was transferred from	to				
at (location)	on	: and that				
the statements i	n this block are correct. Evidentiary Seals: Not Sealed S	Seals Intact: Yes No				
Signatures						

Phone or Letter?\_

Initials

# ANALYSES PERFORMED

LAB. No.: OR- 907 906

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ning method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
ANA	ALYTIC!	AL RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic surarables	N.D.		
halvaenattal husavalles	N.D.	1	Ì
Justing true of the Japan and san con-			
///			
	1		
	<del> </del>		
	1 1		
	1	1	Ì
* DETECTION LIMIT * *	1048/2	+ DETECTION LIMIT +	Į.
	·		
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE			
T R = DETECTED AT A LEVEL BELOW			
[ RESULTS IN BRACKETS ] ARE UNCONF	IRMED AND/	OR WITH APPROXIMATE QUANTITATION	
LABORATORY REMARKS:			
DADORATORT REMARKS.			
		· ·	<u> </u>
CERTIFICAT	re of anal	YTICAL PERSONNEL	
Seal(s) Intact: Yes No L. Seal(s) broken by	r:	ot sealed date:	
I certify that I followed standard laboratory procedu	- 0	ng and analysis of this sample unless otherwise noted	and
that the statements on this page accurately reflect t	he analytical	results for this sample.	4
Date(s) of analysis: 6/19/87. Analyst's sign	gnature:	Hary Co Polen	•
I certify that I have reviewed and concur with the			block.
Reviewers signature:			
			<del></del>



865 N

DATE RECEIVED 8	114 187 1	AB WC 3703	USER CODE _ 59300	D □ 59600 💢 (	OTHER: 822	235
Collection DATE 08   12   8つ	2	SITE INFORM- ►	Sample location	AVAJU REF	NERY	,
Collection TIME 1525	<u> </u>	ATION	Collection site description	" U363 /	110 3	
Collected by — Person/	Agency	/0CD		<u> </u>	<del>~</del> /- 3	
SEND FINAL REPORT TO	State Land	SERVATION DIV Office Bldg NM 87504-208	<b>,</b> PO Box 208	8 ·		
	ne: 827-58	•			Station/ well code	
SAMPLING CO		J 1 tm			Owner	· · · · · · · · · · · · · · · · · · ·
Bailed Dipped	☐ Pump ☐ Tap	Water level	· /	Discharge	···· <del>·······</del>	Sample type GRAB
pH (00400)		Conductivity (Unco	prrected)	Water Temp. (00010)	<b>A</b> 2 20	Conductivity at 25°C (00094)
Field comments		7600	,		21°C	μmho
	PURBED	3 C56	Vor - 2	SHEEN ON	WATE	e-opon
SAMPLE FIEL	D TREATMEN	T — Check prope				
No. of samples submitted	/ ×N	F: Whole sample (Non-filtered)	□ <b>F:</b> Filtered in 0.45 μme	field with	2 ml H₂SO₄/	L added
XNA: No ac	id added 🗆	Other-specify:			dded □A	A: 4ml fuming HNO <sub>3</sub> added
ANALYTICAL	RESULTS from					
NA Conductivity ( 25°C (00095)			umho	From <u>NF</u> ,	_	Analyzed
☐ Total non-filter residue (susp (00530) ☐ Other: ☐ Other: ☐ Other:	ended)	7.68	mg/l	Calcium Potassium Magnesium Sodium Bicarbonate	12 732 1/5	
A-H₂SO₄				🛶 💢 Chloride _	124	<u>0</u> mg/1 9/29
│ Nitrate-N + , N total (00630) │ Ammonia-N t │ Total Kjeldahl │ ( ) │ □ Chemical (000	otal (00610) -N gen		mg/l	Sulfate Sulfate		9 mg/1 4/79 40 mg/1 10/2 2.40 9/8
demand (003)  Total organic (	·		mg/l	Cation/A	nion Ra	lance
☐ Other: ☐ Other: Laboratory reman	ks			Analyst		eported Reviewed by
FOR OCD US	E Date	Owner Notifie	ed	Phone or Lett	er?	Initals

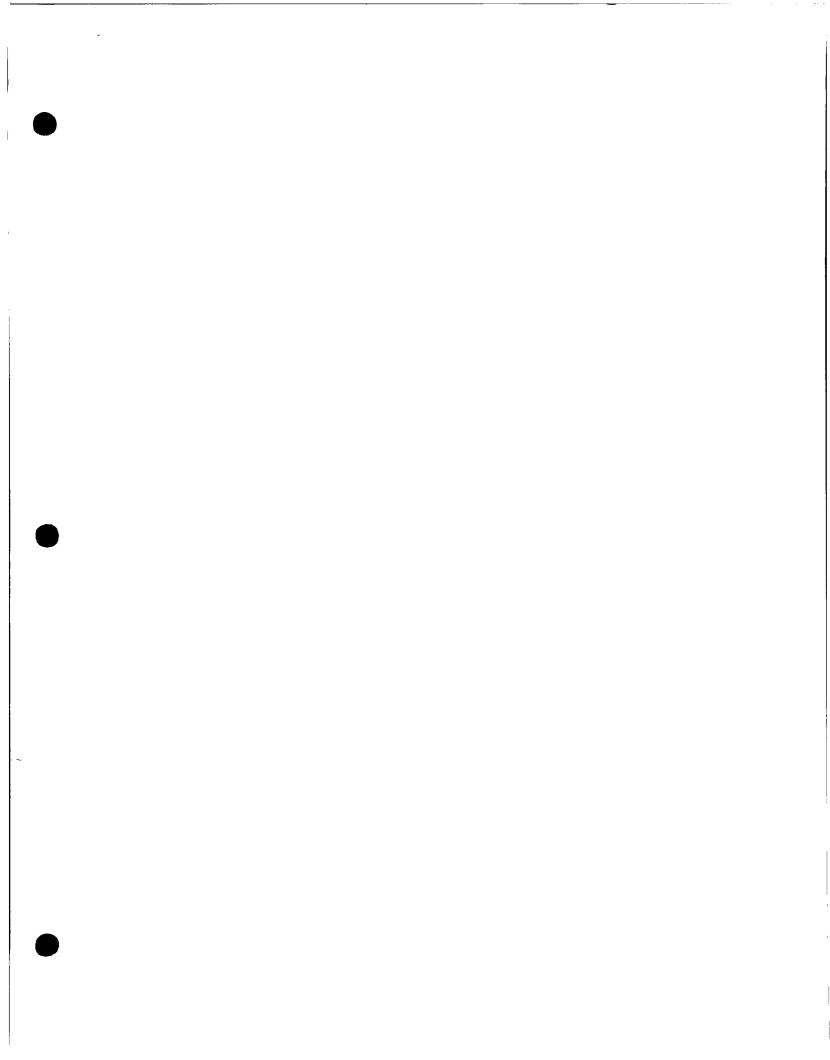
ANALYT	CATIONS E MEQ.	PPM	DET.	ANALYT	ANIONS  E MEQ.	PPM	DET.
Ca Mg Na K	28.94 60.12 50.24 0.32	580.00 732.00 1155.00 12.50	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	12.93 101.67 34.98	789.00 4880.00 1240.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00	       	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	139.62	2479.50			149.58	6909.00	
	Dissolved lance =	Solids= 93.35%	9540		C No. = out/By _(	9703703, 10/1/8	7



860 w nr

,!								
DATE RECEIVED (	0 187 K	6 WC-1981	USER CODE 59300	o □ 59600 🖎 C	THER: 822	235		
Collection DATE 67 05 2	6	SITE INFORM- ▶	Sample location Na	٠ ١ ١	/	112-3		
Collection TIME	5	ATION		$\mathcal{A} = \mathcal{A}$				
Collected by Perso	nn/Agency/	/000	Collection site description	1565 L	sell p	oint		
1500	9 / Hnda	MON/OCD			ז <del></del> ר			
2	CNATRONMENT	EAL DUDEALL						<del></del>
CEND	ENVIRONMENT	SERVATION DIV	/ISION					
SEND FINAL	State Land	Office Bldg	PO Box. 208	8				
REPORT TO	Santa Fe, 1	NM 87504-208	8	,				
Att	n: David Boy	ver				<del></del>		
ъ.					Station/			
	one: 827-58	312			well code Owner			
SAMPLING C				r				
	☐ Pump ☐ Tap	Water level	•	Discharge		Sample type	GRab	
pH (00400)		Conductivity (Unco	rrected)	Water Temp. (00010)	, /	Conductivity	at 25°C (00094)	
	·	م ۱	OO μmho		16 °C			mho
Field comments	See VZ	c sheet	For Con	nments				
				in the second se	**************	**************	***************************************	
SAMPLE FIE	LD TREATMENT	T — Check prope						
No. of sample:	s / DKNF	Whole sample (Non-filtered)	F: Filtered in	field with	ml H₂SO₄/	L added		
				<del></del>		/_1 6		1.1 - 3
NA: NO a	acid added 🗆 C	Jiner-specity:	□A:	5ml conc. HNO <sub>3</sub> ad	ided     F	4m1 I	uming HNU <sub>3</sub> ac	ıaea
	RESULTS from							<u> </u>
NE NA			Units Date analyze	From NE,	NA Sample	:	Date	:
Conductivity 25°C (00095	y (Corrected) 5)	7985	umho <u>6/19</u>				Analyzed	٠
Takal and Elle			· · · · · · · · · · · · · · · · · · ·	🛮 Calcium	560	mg/1_	6/17	
☐ Total non-filt residue (sus						mg/7_	6/18	
(00530)	#//-	7.50	mg/l	_   🔯 Magnesium _	719	mg/1_	6/17	
Other:	11,46 -	7.30	-91-	H	909		777	
☐ Other:				Sodium		mg/1_	-/	
A-H₂SO₄				Bicarbonate			<u>e/10</u>	
Nitrate-N+,	Nia-a- M			🚽 🔯 Chloride _	1062	mg/1_	6/10	<del></del> •
total (00630)			mg/l	_ Sulfate	4512	mg/1_	6/12	
☐ Ammonia-N			mg/l	_ ☑ Total Solid	ls <u>860</u>	<u>5</u> _mg/1_	-6/14	
☐ Total Kjeldal	ni-N )		mg/l	M Flour	ile 2	. <u>38</u>	6/18	•
☐ Chemical or	xygen						, ===	
demand (00 ☐ Total organic			mg/l	-	_			
(	)		mg/l	- Cation/A	nion Ba	lance _		
☐ Other:				Analyst			Reviewed by	
u Outer.				_	6	19 87	<i>c</i> 9	
Laboratory rema	arks							
7					*********************			
FOR OCD U	ISE Date C	)wner Notifie	ed	Phone or Lett	er?	Ini	itals	

ANALYI	CATIONS E MEQ.	PPM	DET.	ANALYT	ANIONS  E MEQ.	PPM	DET.
Ca Mg Na K	27.94 63.16 39.54 0.28	560.00 769.00 909.00 10.90	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	7.46 94.00 29.96	455.00 4512.00 1062.00	<10.0
Mn Fe	0.00	0.00	     	NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	130.92	2248.90			131.41	6029.00	
	Dissolved alance =	Solids= 99.63%	8605		C No. = out/By <u>(</u>	= 8701981 D 6/24/57	_



#### SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

H (		
-E	97 07CC 0	`
—L	87- 0766 -C	N MEXICO
H		
ENVIR	OUMENI -	

REPORT TO:	David Boyer	s.l.d. No. OR- 766-A-B
	N.M. Oil Conservation Division	DATE REC. 5-5-87
,	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812 usa	ER CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE:  2   6   0
SAMPLE COLLE	ection code: (чүммрднимий) $187043$	10/1/81215/40/181
SAMPLE TYPE:	WATER X, SOIL , FOOD , OTHER:	CODE:
COUNTY:	day; city: Notesia	CODE:
LOCATION COL	E: (Township-Range-Section-Tracts) 11715+2161	E+0 3+3 3 (10N06E24342)
	QUESTED: Please check the appropriate box(es) below to ind	icate the type of analytical screens
required. Whenev	er possible list specific compounds suspected or required.  PURGEABLE SCREENS	EXTRACTABLE SCREENS
(753) Alipha		1) Aliphatic Hydrocarbons
		0) Organochlorine Pesticides
(765) Mass	Spectrometer Purgeables [ ] (75	5) Base/Neutral Extractables
(766) Trihal		8) Herbicides, Chlorophenoxy acid
Other		9) Herbicides, Triazines
		0) Organochlorine Pesticides
		1) Organophosphate Pesticides
님		7) Polychlorinated Biphenyls (PCB's)
님 —		4) Polynuclear Aromatic Hydrocarbons 2) SDWA Pesticides & Herbicides
·		2) 3DWA Festicides & Reroicides
Remarks:		
FIELD DATA:	22.2	
	onductivity=3280umho/cm at 18,5°C; Chlorine Residu	
	n=mg/l; Alkalinity=mg/l; Flow Rate	
	ft.; Depth of wellft.; Perforation Interval	ft.; Casing:
	on, Methods and Remarks (i.e. odórs, etc.)  Nan Well to Pond. Said to be sha	Mo Dunnie - Tool
116 Yalen	ne pump sailly leaking oil T	2 a sur O (Settier 3)
	' " ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
activities (signate	he results in this block accurately reflect the results of my fure collector):	and of Shipment to the Lah. Hall Con -
This form accor	npanies Septum Vials, Glass Jugs, and/or	I suprisons so site hab. White the
	reserved as follows:	
☐ NP:	No Preservation; Sample stored at room temperature.	
	Sample stored in an ice bath (Not Frozen).	
P-Na SO	Sample Preserved with Sodium Thiosulfate to remove chlor	ine residual.
CHAIN OF CU		
	his sample was transferred from	
	on	and that
	in this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes   No
Signatures		
For OCD t	Jse: Date Owner Notified Phone	or Letter? Initials

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ing method(s)	checked below:	
PURGEABLE SCREENS  (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides	
	AI YTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
- gromstie surgeables - palazeotate of purgeables	N.D.		
* DETECTION LIMIT * *	1-43/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONFI	THE STATED	DETECTION LIMIT (NOT CONFIRMED)	
CERTIFICAT	E OF ANALY	TICAL PERSONNEL	
Seal(s) Intact: Yes No L. Seal(s) broken by I certify that I followed standard laboratory procedur that the statements on this page accurately reflect the Date(s) of analysis: 5/30/67. Analyst's significant controls are sealed as a seal of the statements of the st	es on handling ne analytical re	sults for this sample.	l and
I certify that I have reviewed and concur with the Reviewers signature:		s for this sample and with the statements in this	block.



-1 [		CA	LUCED			
DATE RECEIVED 5	5 87 N	20C1667	USER CODE 59300	<u> </u>	THER: 822	235
Collection DATE 30		SITE	Sample location			rigation well
Collection TIME		INFORM- ► ATION				Ligarun Lex
Collected by — Person/Ag	nency /a /	<del></del>	Collection site description			· ·
Roys	gency Anker	Hon /OCD			_	Array (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
					}	
E	NVIRONMENT	TAL BUREAU				
		SERVATION DIV		_		
		Office Bldg		3		
10	Santa Fe, 1	MM 87504-208	8		ļ	
Attn:	David Boy	ver				
_					Station/	
Phon	e: 827-58	312			well code	
SAMPLING CO	NDITIONS				Owner Va	ne Hældeman
1	□ Pump	Water level		Discharge		Sample type
1/	□ Тар					GRAR
PH (00400)	trip	Conductivity (Unco	prrected)  µmho	Water Temp. (00010)	3- 3 °C	Conductivity at 25°C (00094)  µmho
Field comments		0. C. a	1 00	1 Dina	15	20 C/ 1 Ch
	Sample	O TOMM	PMA D	J Pype - Se	PUL	Sheer SU
	olh	es Com	men Ø			***************************************
SAMPLE FIELD	TREATMENT	T — Check prope	er boxes			
No. of samples	/ ØNF	. Whole sample	☐ F: Filtered in	field with	mi H₂SO₄/	l added
submitted	, , ,	(Iton-intered)	0.45 µme	mbrane filter		
NA: No aci	d added 🗆 C	Other-specify:	□A:	$5m1$ conc. $HNO_3$ ac	lded 🗆 A	4ml fuming HNO <sub>3</sub> added
ANALYTICAL R	ESULTS from	SAMPLES				· ·
NA			Units Date analyze	From NF,	NA Sample	: Date :
25°C (00095)	Corrected)	3887	umho 5/13 ·	, , , , , , , , , , , , , , , , , , , ,		Analyzed
25 0 (00000)		····		[Al Calcium	560	mg/1 $6/2$
☐ Total non-filtera				Calcium Potassium	100	
residue (suspe (00530)	•		mg/l			mg/15/20
Other:	Н	7.79	5/19	_ Magnesium _	171	mg/1 $6/2$
☐ Other:				Sodium	198	mg/1 5/20
☐ Other:				☐ Bicarbonate		
A-H <sub>2</sub> SO <sub>4</sub>			<del></del>			
	itrata N			🚽 📈 Chloride _	241	
☐ Nitrate-N+, Ni total (00630)	ale-14		mg/l	_ Sulfate	2154	
☐ Ammonia-N to	tal (00610)		mg/l	- Total Solid	is 364	4 mg/1 5/27
☐ Total Kjeldahl-1	N			Fluor.		1.86 5/27
( ) ☐ Chemical oxyg	en		mg/l	- KI - TAURA		<del></del>
demand (0034			mg/l	_		
☐ Total organic c	arbon		ma/l	1_		
Other:			mg/l	- Cation/A		
Other:				Analyst		eported Reviewed by
					6	4 87 00
Laboratory remark	(S					
7		*************		**************************************		
		·/····································		***************************************		
EUD UCD IICI	E Note	Owner Notifie		Phone or Lette	er?	Initals
LOW OOD OD	u Date	U			·	

ANALYT	CATIONS E MEQ.	PPM	DET. LIMIT	ANALYTE	ANIONS MEQ.	PPM	DET. LIMIT
Ca Mg Na K	27.94 14.05 8.61 0.05	560.00 171.00 198.00 1.95	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	3.72 44.88 6.80	227.00 2154.00 241.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00	       	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
	50.65 Dissolved lance =	930.95 Solids= 91.44%	384		55.39 C No.	2622.00 = 8701667	

#### SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE Albuquerque, NM 87106 841-2570 87-0748-C

OF NEW MEXICO

S.L.D. No. OR- 748-A-B David Boyer REPORT TO: N.M. Oil Conservation Division DATE REC. P. O. Box 2088 Santa Fe, N.M. 87504-2088 PRIORITY \_\_\_\_\_ USER CODE: | 8 | 2 | 2 | 3 | 5 | 827-5812 PHONE(S): David Boyer CODE: |2 |6|0 SUBMITTER: SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 1917 014 31011 B1315 P SAMPLE TYPE: WATER [7], SOIL [7], FOOD [7], OTHER: \_\_\_\_\_ CODE: |\_\_\_\_ ; CITY: Nortesia COUNTY: CODE: | | | LOCATION CODE: (Township-Range-Section-Tracts) 1/17/5+21/18+/10+21/13 (10N06E24342) ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required. PURGEABLE SCREENS EXTRACTABLE SCREENS (753) Aliphatic Purgeables (1-3 Carbons) (751) Aliphatic Hydrocarbons (754) Aromatic & Halogenated Purgeables (760) Organochlorine Pesticides (765) Mass Spectrometer Purgeables (755) Base/Neutral Extractables (766) Trihalomethanes (758) Herbicides, Chlorophenoxy acid Other Specific Compounds or Classes 759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) 7 (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides Remarks: FIELD DATA: \_\_; Conductivity=3350umho/cm at 185°C; Chlorine Residual= \_\_mg/l Dissolved Oxygen= mg/l; Alkalinity= mg/l; Flow Rate \_\_\_\_\_ Depth to water \_\_\_\_ft.; Depth of well \_\_\_\_ft.; Perforation Interval \_\_\_\_\_ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) eman Domestin Well-Sextian 10. Nest to house Used for domestis use except drinking, Said dolper than virigation well I certify that the results in this block accurately reflect the results of my field analyses, observations and Method of Shipment to the Labs late Co activities.(signature collector):\_\_\_\_ This form accompanies \_\_\_\_ Septum Vials, \_\_ Glass Jugs, and/or Samples were preserved as follows: NP: No Preservation; Sample stored at room temperature. P-Ice Sample stored in an ice bath (Not Frozen). P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual. CHAIN OF CUSTODY I certify that this sample was transferred from on \_\_\_\_\_\_ and that the statements in this block are correct. Evidentiary Seals: Not Sealed \_\_\_ Seals Intact: Yes \_\_\_ No Signatures

For OCD Use: Date Owner Notified Phone or Letter?

LAB. No.: OR- 748

## THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen  PURGEABLE SCREENS  (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Classes		[751] Aliphatic Hydrocarbons [760] Organochlorine Pesticides [755] Base/Neutral Extractables [758] Herbicides, Chlorophenoxy acid [759] Herbicides, Triazines [760] Organochlorine Pesticides [761] Organophosphate Pesticides [767] Polychlorinated Biphenyls (PCB's) [764] Polynuclear Aromatic Hydrocarbons [762] SDWA Pesticides & Herbicides	
COMPOUND(S) DETECTED	CONC. [PPB]	L RESULTS  COMPOUND(S) DETECTED	CONC.
ciromatir surgeables halogenatical (spurgeables	N.D.		
* DETECTION LIMIT * *	. 44.1		
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW	THE STATED		
CERTIFICAT	FR OF ANALY	TICAL PERSONNEL	
Seal(s) Intact: Yes No . Seal(s) broken by I certify that I followed standard laboratory procedure that the statements on this page accurately reflect to	res on handling	date:date:date:	and
I certify that I have reviewed and concur with the Reviewers signature:	- /		block.



DATE RECEIVED	5 5	87 NO	SWC1662	USER 59300	<u> □ 59600 🛣 </u>	OTHER: 82	235	
Collection TIME	30		SITE INFORM- ► ATION	Sample location	Palelenen,	bones	n lie	ell-Sec 10
Collected by — Pers	on/Apprima	7	7	Collection site description				
13019	7 / H2	Ler	ton 10CD			<b>–</b>		,
SEND FINAL REPORT TO	NM OI State	L CONS Land	TAL BUREAU SERVATION DI Office Bldg NM 87504-208	<b>,</b> PO Box. 2088	3			
	tn:Dav				<del></del> -			
7.10		. 6.000	<del>                                     </del>			Station/		
Pł	none: 8	327-58	12			well code		
SAMPLING (	CONDITIO	ONS				Owner Va	nee h	laldeman
☐ Bailed ☐ Dipped	☐ Purr Ø Tap	ıρ	Water level		Discharge		Sample typ	RAB
pH (00400)	<b>)</b>		Conductivity (Unc	orrected) 3 50 µmho	Water Temp. (00010)	8-5 °C	Conductivit	ty at 25°C (00094) µmho
Field comment	ts See	e Vo	oc shee	Thomas	mmento			
				V				
SAMDI E EIE	I D TOE	TMENT	Г — Check prop	er hoves				
No. of sample		ZXNF	. Whole sample	F: Filtered in	field with	2 ml H <sub>2</sub> SO <sub>4</sub> /	Laddad	
submitted		10	(Non-tiltered)	0.45 μme	mbrane filter		<del>-, -, -, -, -, -, -, -, -, -, -, -, -, -</del>	
NA: No	acid adde	ed 🗆 C	Other-specify:	□A:	5ml conc. HNO <sub>3</sub> a	dded 🗖	A: 4m1	fuming HNO <sub>3</sub> added
ANALYTICA	L RESUL	TS from	SAMPLES		· · · · · · · · · · · · · · · · · · ·			
Conductivi 25°C (0009		d)	3 <i>887</i>	Units Date analyze	From NF,	NA Sample	::	Date Analyzed
☐ Total non-firesidue (su (00530)  ☐ Other: ☐ Other: ☐ Other:	Iterable ispended)		7.96	. mg/l	Calcium Potassium Magnesium Sodium Bicarbonate	1.95 98 173	mg/1 mg/1 mg/1 mg/1 mg/1	6/1 5/20 6/1 5/20
A-H <sub>2</sub> SO <sub>4</sub>					Chloride	480	mg/l	5/26
☐ Nitrate-N + total (0063) ☐ Ammonia-I ☐ Total Kjelda	0) N total (0061 ahl-N )	0)		mg/l mg/l	Sulfate Total Solid		mg/1 <u>26_</u> mg/1 9,67	
☐ Chemical of demand (0				mg/l				·
☐ Total organ	ic carbon				Cation/A	nion Pr	lango	 ; *
☐ Other:	•			-	- Analyst		eported	Reviewed by
☐ Other:					-	6		(C)
Laboratory ren	narks							
			v <del>7778/v</del> 9verververesensensensensen					***************************************
								B477824782488888888888888888888888888888
FOR OCD	USE	Date C	Owner Notifi	ed	Phone or Lett	er?	In	itals

ANALYT	CATIONS E MEQ.	PPM	DET.	ANALYTE	ANIONS MEQ.	PPM	DET.
Ca Mg Na K	33.93 8.05 7.53 0.05	680.00 98.00 173.00 1.95	<3.0 <0.3 <10.0 <0.3	SO4	3.23 38.33 13.54	197.00 1840.00 480.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00 0.00		C03	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
	49.56 Dissolved alance =	952.95 Solids= 89.94%	3606	 	55.10 No.	2517.00 = 8701662 CO 6/4/57	

#### SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE

مرسور	4:0	
	87- 0755-C	WMEXICO
ENV'	9, 50 0	

Albuquerque, NM 87106 841-2570 S.L.D. No. OR- 755-A-B David Boyer REPORT TO: N.M. Oil Conservation Division DATE REC. P. 0. Box 2088 Santa Fe, N.M. 87504-2088 PRIORITY USER CODE: |8 |2 |2 827-5812 PHONE(S): David Boyer CODE: |2 | 6 | 0 SUBMITTER: SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 197101413101/1814151 SAMPLE TYPE: WATER X, SOIL , FOOD , OTHER: \_\_\_\_\_; CITY: \_\_\_AIVERIA CODE: LOCATION CODE: (Township-Range-Section-Tracts) 11713+21 ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required. PURGEABLE SCREENS EXTRACTABLE SCREENS [ (751) Aliphatic Hydrocarbons (753) Aliphatic Purgeables (1-3 Carbons) (754) Aromatic & Halogenated Purgeables (760) Organochlorine Pesticides (765) Mass Spectrometer Purgeables (755) Base/Neutral Extractables (766) Trihalomethanes (758) Herbicides, Chlorophenoxy acid Other Specific Compounds or Classes (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides FIELD DATA: pH=\_\_\_\_\_\_; Conductivity=\(\frac{\frac{1}{2}\text{\$\psi}}{\psi}\) umho/cm at \(\frac{\frac{1}{9}}{\circ}\) C; Chlorine Residual= mg/l Dissolved Oxygen= mg/l; Alkalinity= mg/l; Flow Rate \_\_\_\_\_ Depth to water \_\_\_\_\_ft.; Depth of well \_\_\_\_\_ft.; Perforation Interval \_\_\_\_\_ ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) eman See ID Irriation Well (shallower than boones, on water-oil may leak from turbine pump. Palatuell base I certify that the results in this block accurately reflect the results of my field analyses, observations and activities. (signature collector): Method of Shipment to the Lab: Stale activities.(signature collector): This form accompanies \_\_\_\_ Septum Vials, \_\_\_ \_\_Glass Jugs, and/or \_ Samples were preserved as follows: NP: No Preservation; Sample stored at room temperature. 🔂 P-Ice Sample stored in an ice bath (Not Frozen). Sample Preserved with Sodium Thiosulfate to remove chlorine residual. CHAIN OF CUSTODY I certify that this sample was transferred from \_\_\_\_\_ on \_\_\_\_\_\_\_\_ - \_\_\_\_ : \_\_\_ and that the statements in this block are correct. Evidentiary Seals: Not Sealed Seals Intact: Yes No

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter?\_\_\_\_\_ Initials

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ning method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	. "
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	, l
	<del></del>	(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
ANA	ALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
asamatia surpeables	remarks		
halannated Annagalla	N.D.		11
- SUNDERFORMENT LINEINSPERCENT	14.100		
	ļ		
	<b>.</b>		
	<del> </del>		
	1		
	<del></del>		
			1
*	1 40 1		
* DETECTION LIMIT * *	1-18/4	+ DETECTION LIMIT +	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATED	DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW	THE STATED	DETECTION LIMIT (NOT CONFIRMED)	j
[ RESULTS IN BRACKETS ] ARE UNCONF	IRMED AND/C	OR WITH APPROXIMATE QUANTITATION	
LABORATORY REMARKS: One campoun	dat in	rat in the aromatic serien	session
detected with the abotioning	ation del	tector but not identified	Four
and sunda in the co	1+++1	land of land 7	-/
Charles In the Co But	on willer	Maryon Search an live of	700
I say detected with the she	lvionigal	ion detectsto but not electif	liech .
CERTIFICA	TE OF ANALY	TICAL PERSONNEL	
		- / /	
Seal(s) Intact: Yes No Q. Seal(s) broken by		geckeed date:	
I certify that I followed standard laboratory procedu			land
that the statements on this page accurately reflect t		.1	Į
Date(s) of analysis: 5/29/87 . Analyst's significant	gnature:	Jary C. Ellen	
I certify that I have reviewed and concur with the	b. s.	1007	block.
Reviewers signature:	Jui	<u> </u>	



<u> </u>	<u> </u>					
DATE	5   5   87	1 HOWC 1666	USER CODE 59300	59600 XX	OTHER: 82	235
Collection DATE Collection TIME	30	SITE INFORM- ► ATION	Sample location			Irrigotion Well
Collection TIME		A.10N	Collection site description	1		<b>J</b>
Collected by - Pa	49 Mad	erton 1000				
	V 1/2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			-		
	ENVIRONM	IENTAL BUREAU	/TCTON			
SEND FINAL		CONSERVATION DIV and Office Bldg		8		
REPORT TO		NM 87504-208		-		
	Attn: David			-		
·					Station/	
1	Phone: 827	-5812			well code	, , ,
SAMPLING	CONDITIONS	3			Owner Va	ince Haldeman
☐ Bailed	☐ Pump ☐ Tap	Water level		Discharge		Sample type SRAR
pH (00400)	C (ap	Conductivity (Unco	prected)	Water Temp. (00010)		Conductivity at 25°C (00094)
p(00.120)	•		$\mu$ mho	, viale, (000,0)	°C	$\mu$ mho
Field comme	ents GRAL	g France	Pine in	to concre	To Di	teh-See
	1/	OS Sheet	600 0Th	00- 00-00 100	OL TI	
		o conserv	50 DIM	er (mynn	ENXI)	
SAMPLE F	IELD TREATM	ENT — Check prope	er boxes			
No. of same	ples /	NF: Whole sample (Non-filtered)	F: Filtered in	field with A: 2	2 ml H <sub>2</sub> SO <sub>4</sub> /	L added
		(Non-intered)				
NA: N	o acia added	☐ Other-specify:	□A:	omi conc. HNO3 a	dded $\square$	4: 4ml fuming HNO <sub>3</sub> added
	AL RESULTS	rom SAMPLES				
NA NA			Units Date analyze	$\Rightarrow$ From $1/1/2$ ,	NA Sample	: Date
25°C (00	ivity (Corrected) 1095)	4728	umho <u>5//3-</u>	_		Analyzed
☐ Total non	-filterable		·	Calcium	640	mg/1 $6/2$
residue (	suspended)			✓ Potassium	2.73	mg/1 5/20
(00530) Other: /	oH =	7.65	mg/l	Magnesium _		mg/16/2
☐ Other:				Sodium		mg/1 5/20
☐ Other:	-			Bicarbonate		mg/1 5/19
A-H <sub>2</sub> SO	4		<del></del>	Chloride		
	I + , Nitrate-N				1919	— — — — ·
total (006	530) _		mg/l	Sulfate		<del></del>
☐ Total Kjel	a-N total (00610) Idahi-N		mg/l	- Total Solid		<del></del>
(	) -		mg/l	- DI-TUOR	ide o	·62 <u>5/27</u>
☐ Chemica demand			mg/l			
☐ Total org	anic carbon					
( Other:	) -		mg/l	- Cation/A		
☐ Other:				Analyst	1 .	eported Reviewed by
Laboratania	omarke			1		2 87 65
Laboratory r	errial NS		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
T						
FOR OCD	USE Dat	e Owner Notifie	ed	Phone or Lett	er?	Initals

ANALYI	CATIONS  TE MEQ.	PPM	DET.	ANALYTE	ANIONS E MEQ.	PPM	DET.
Ca Mg Na K	31.94 18.07 14.09 0.07	640.00 220.00 324.00 2.73	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	4.08 39.98 15.71	249.00 1919.00 557.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00	   	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
	64.17 Dissolved	1186.73   Solids=   107.36%	4158		59.77 C No.	2725.00 = 8701666 \( \ightarrow 6 z z\frac{1}{2}	

T

\_ \_ \_

# SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

Albuquerque, NM 87106 841-2570

1	165	
	87- 0760 -C	W MEXICO

REPORT TO: David Boyer	s.l.d. No. Or- 760-A-B
N.M. Oil Conservation Division	DATE REC. 5-5-87
P. O. Box 2088	-
Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(s): 827-5812 USER	CODE: [8   2   2   3   5
SUBMITTER: David Boyer	CODE:  2   6   0
sample collection code: (YYMMDDHHMMIII)   8 7 0 4 3	D111311151ABB
SAMPLE TYPE: WATER X, SOIL, FOOD, OTHER:	_ CODE:   _
COUNTY: Eddin ; CITY: Holesta	CODE:
LOCATION CODE: (Township-Range-Section-Tracts) 11715+71614	(+) + 3 / 1 / (10006E24342)
ANALYSES REQUESTED: Please check the appropriate box(es) below to indic	ate the type of analytical screens
required. Whenever possible list specific compounds suspected or required.  PURGEABLE SCREENS	XTRACTABLE SCREENS
	Aliphatic Hydrocarbons
	Organochlorine Pesticides
	Base/Neutral Extractables
	Herbicides, Chlorophenoxy acid Herbicides, Triazines
	Organochlorine Pesticides
	Organophosphate Pesticides
	Polychlorinated Biphenyls (PCB's)
	Polynuclear Aromatic Hydrocarbons
[ (762)	SDWA Pesticides & Herbicides
Remarks:	
PIELD DATA:	
pH=; Conductivity=4000umho/cm at 18°C; Chlorine Residual	
Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to waterft.; Depth of wellft.; Perforation Interval	
Sampling Location, Methods and Remarks (i.e. odors, etc.)	nanx/b)
Haldeman Water Well - For oil indu	. 1/- 3/\
primping from about '00' (Se	clon II)
I certify that the results in this block accurately reflect the results of my fie	eld analyses, observations and
activities.(signature collector): Method This form accompanies Septum Vials, Glass Jugs, and/or	d of Shipment to the Lab: Male Cal
Samples were preserved as follows:	
NP: No Preservation; Sample stored at room temperature.	
P-Ice Sample stored in an ice bath (Not Frozen).	
P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorin	e residual.
CHAIN OF CUSTODY  I certify that this sample was transferred from	to
at (location) on	/ / - : and that
the statements in this block are correct. Evidentiary Seals: Not Sealed	
Signatures	

For OCD Use: Date Owner Notified \_\_\_\_\_ Phone or Letter? \_\_\_\_ Initials

LAB. No.: OR- 760

#### THIS PAGE FOR LABORATORY RESULTS ONLY

	PURGEABLE SCREENS		EXTRACTABLE SCREENS	
[[ (753)	Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754)	Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
	Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766)	Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
1	Other Specific Compounds or Classe	8	(759) Herbicides, Triazines	
	•		(760) Organochlorine Pesticides	
Ä			(761) Organophosphate Pesticides	
Ħ			(767) Polychlorinated Biphenyls (PCB's)	
Ħ			(764) Polynuclear Aromatic Hydrocarbons	
		1 11 N	(762) SDWA Pesticides & Herbicides	
	Α	NALYTICA	L_RESULTS_	
	COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
an	matie surcealler	N.D.		
Ace	lasenattal Cauranalle.	N.D.		
	rade was one showing when	- /v / // · ·		
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	• npmnamov rvam • *	1-49/		
A DDD DV	* DETECTION LIMIT * *	1-13/2	+ DETECTION LIMIT +	
N D T R	ATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO	VE THE STATED		
N D T R [ RE	IATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO SULTS IN BRACKETS ] ARE UNCO	VE THE STATED	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) DR WITH APPROXIMATE QUANTITATION	
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N D T R [ RE	IATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO  SULTS IN BRACKETS   ARE UNCO	VE THE STATED OW THE STATED ONFIRMED AND/	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) DR WITH APPROXIMATE QUANTITATION	
N D T R [ RE	ATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO SULTS IN BRACKETS ] ARE UNCO  RY REMARKS:  CERTIFIC	VE THE STATED ON THE STATED ONFIRMED AND/	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) DR WITH APPROXIMATE QUANTITATION  TICAL PERSONNEL	
N D T R [ RE:	ATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO SULTS IN BRACKETS   ARE UNCO  RY REMARKS:  CERTIFIC  t: Yes No Seal(s) broken	VE THE STATED WE THE STATED ONFIRMED AND/O	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) DR WITH APPROXIMATE QUANTITATION  TICAL PERSONNEL  date:	and
N D T R [ RE:	ATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO  SULTS IN BRACKETS   ARE UNCO  RY REMARKS:  CERTIFIC  t: Yes  No  Seal(s) broken  at I followed standard laboratory process	VE THE STATED W THE STATED ONFIRMED AND/O	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) OR WITH APPROXIMATE QUANTITATION  TICAL PERSONNEL  date:  and analysis of this sample unless otherwise noted	and
N D T R [ RE:  ABORATOR  al(s) Intaccertify tha at the sta	ATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO SULTS IN BRACKETS   ARE UNCO  RY REMARKS:  CERTIFIC  At: Yes No Seal(s) broken  at I followed standard laboratory process  Attenuates on this page accurately reflective.	VE THE STATED OW THE STATED ONFIRMED AND/O	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) OR WITH APPROXIMATE QUANTITATION  TICAL PERSONNEL  date:  and analysis of this sample unless otherwise noted esults for this sample.	and
N D T R [ RE:  ABORATOR  al(s) Intaccertify tha at the sta	ATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO  SULTS IN BRACKETS   ARE UNCO  RY REMARKS:  CERTIFIC  t: Yes  No  Seal(s) broken  at I followed standard laboratory process	VE THE STATED OW THE STATED ONFIRMED AND/O	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) OR WITH APPROXIMATE QUANTITATION  TICAL PERSONNEL  date:  and analysis of this sample unless otherwise noted esults for this sample.	and
N D T R [ RE:  ABORATOF  ABORATOF  certify that the state ate(s) of an	ATIONS USED:  = NONE DETECTED AT OR ABO  = DETECTED AT A LEVEL BELO  SULTS IN BRACKETS   ARE UNCO  RY REMARKS:  CERTIFIC  t: Yes  No  Seal(s) broken at I followed standard laboratory procutements on this page accurately reflect  analysis:  Seal(s) Analyst's  at I have reviewed and concur with the seal of	VE THE STATED OW THE STATED ONFIRMED AND/O CATE OF ANALY by:	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) OR WITH APPROXIMATE QUANTITATION  TICAL PERSONNEL  date:  and analysis of this sample unless otherwise noted essults for this sample.  Sang C. Eller  ts for this sample and with the statements in this	



DATE RECEIVED 5	15 187 N	AB WC 1643	USER CODE 59300	D □ 59600 🖎	OTHER: 82	235
Collection DATE		SITE	Sample location	Man VI	Terri	gationwell
Collection TIME		INFORM- ► ATION		carn,	10000	ga arprieex
Collected by — Person/A		Person OCD	Collection site description	)	***************************************	
1579	y And	···		_	<b></b>	***************************************
SEND FINAL REPORT TO	State Land Santa Fe, I	SERVATION DIV Office Bldg, NM 87504-2088	PO Box. 2088	3	715	5, R26E, See 11.31
Attn:	David Boy	yer				
Phor	ie: 827-58	312			Station/ well code	
SAMPLING CO	NDITIONS				Owner V	ance the Ideman
☐ Bailed☐ Dipped	☐ Pump ☑ <tap< td=""><td>Water level</td><td></td><td>Discharge</td><td></td><td>Sample type GRAK</td></tap<>	Water level		Discharge		Sample type GRAK
oH (00400)	String)	Conductivity (Unco	rrected)	Water Temp. (00010)	10 ∘c	Conductivity at 25°C (00094)
Field comments	SOUNT)	100 0	T/		<i>y</i>	μmho
	Jee 1	100 Shee	1 (8)	Comment	<u> </u>	11-29 <sup>1-1</sup> -20-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
				***************************************	<del></del>	
SAMPLE FIELD	TREATMEN	T — Check prope	r boxes			
No. of samples submitted	1 NF	Whole sample (Non-filtered)	☐ F: Filtered in 0.45 µme	field with A: 2	2 ml H₂SO₄/	L added
NA: No ac	d added 🗆 C				ided 🗖	A: 4ml fuming HNO <sub>3</sub> added
ANALYTICAL F	ESULTS from	SAMPLES				
NA			Units Date analyze	From NF,	NA Sample	: Date
Conductivity (0 25°C (00095)	Corrected)	4635	umho <u>5/13 -</u>	110111 200	in. Jampi J	Analyzed
□ Total non-filtera residue (suspe (00530) □ Other: □ Other: □ Other:	nded)	7.88	mg/l	Calcium Potassium Magnesium Sodium Bicarbonate	273 327	mg/1 6// mg/1 s/zz mg/1 s/zz mg/1 s/zz
A-H₂SO₄				Chloride _	306	mg/1 5/26
☐ Nitrate-N+, Nitrotal (00630) ☐ Ammonia-N to			mg/l	Sulfate Total Solid	2479	mg/1 <u>5/20</u>
☐ Total Kjeldahl-I			mg/l	1 <del></del>	ide o.	<del></del>
☐ Chemical oxyg			mg/l			
☐ Total organic c	arbon		mg/l			
☐ Other: ☐ Other:				Cation/A Analyst	Date R	eported Reviewed by
Laboratory remark	s .					
<b></b>	***************************************	*******************************		***************************************		***************************************
	***************************************					
, FOR OCD US	E Date (	Owner Notifie	d	Phone or Lett	er?	Initals

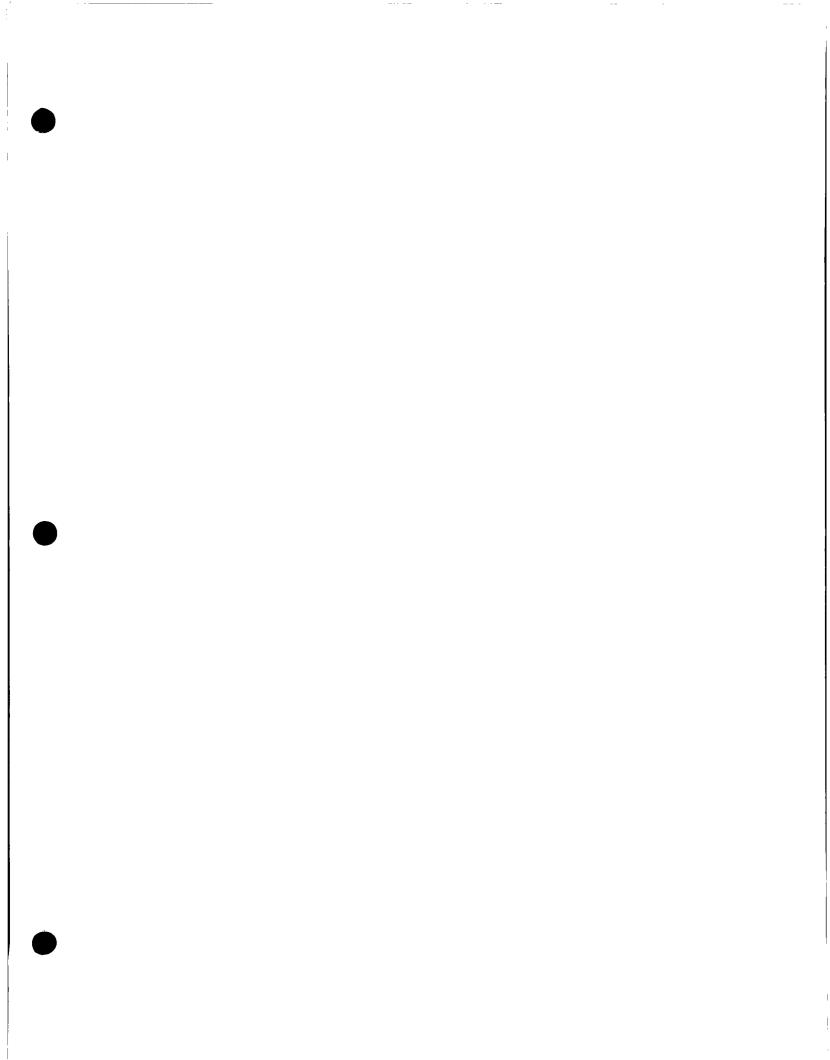
ANALYTI	CATIONS  E MEQ.	PPM	DET. LIMIT	ANALYTE	ANIONS MEQ.	PPM	DET.
Ca Mg Na K	28.94 22.42 14.22 0.06	580.00 273.00 327.00 2.34	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	4.93 51.65 8.63	301.00 2479.00 306.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00		NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
	65.65 Dissolved lance =	1182.34 Solids= 100.67%	4534	W( Date o	65.21 C No. out/By	3086.00 = 8701643 \$\ightarrow\$ 6/2/\$\tau\$	-



DATE	17-1000	AB 10 (JOS) 541 255	SER _		000	25	
DATE RECEIVED 5	5 87 N	10.	SER 59300	59600	OTHER: 822		
Collection DATE 32	4	INFORM-		Hatajk See	tron!	4 1	rrigation i
Collection TIME	k	ATION	lection site description				
Collected by Person/	Agendy Ambe	Non /OCD -			FOS	nan-	Tot hondo
	1			~ ·	7	1 Vago	aq wwy
	ENVIRONMEN]				127	upe o	et well her
SEND FINAL	NM OIL CONS	SERVATION DIVIS Office Bldg, F	SIUN O Ros 200	R	1	<u>//</u>	***************************************
REPORT		UTTICE BIOG, P NM 87504-2088	U DUA. 2000		T 193	1 R.S.	E 14.11
	David Boy			·		,	
Aun:		<del></del>			Station/		<del></del>
Phoi	ne: 827-58	312			well code		
SAMPLING CO	NDITIONS			···	Owner Va	nel 1	Heldeman
☐ Bailed ☐ Dinned	☐ Pump	Water level		Discharge		Sample type	
☐ Dipped pH (00400)	Tap	Conductivity (Uncorrec	ter!\	Water Town (00040)		Conduction	( ) K/Y / 0
pr (00400)	7 (strip		20) µmho	Water Temp. (00010)	7,5 ℃	- on auctivity	y at 25°C (00094) µmho
Field comments	So m	1 M 1008	l mi	20 1. Di	S. La	nne	DN 11501
***************************************	Total Sold		010	w Jan C	e spec	gyrus	100
***************************************	· 30	1 4 1:3 MB	oca.		·		
SAMPLE FIELD	TREATMEN	Г — Check proper b					· · · · · · · · · · · · · · · · · · ·
No. of samples	/ XNI	. Whole sample	F. Filtered in	field with	ml H₂SO₄/L	added	
submitted		(Non-filtered)	0.45 μme	mbrane filter	<del></del>	· · · · · · · · · · · · · · · · · · ·	
✓ ✓ NA: No ac	id added 🗆 C	Other-specify:	□A:	5ml conc. HNO <sub>3</sub> ac	lded	4m1 f	uming HNO <sub>3</sub> added
ANALYTICAL I	RESULTS from				<u> </u>		
NA NA		Uni	ts Date analyze	From NF,	NA Sample:		Date
Conductivity (0 25°C (00095)	Corrected)	3399 umb	5/13-	400			Analyzed .
				Calcium	412	mg/1_	6/1
☐ Total non-filter residue (suspe				Potassium_	1.95	mg/1_	5/19
(00530)		<u> </u>	11	- A rocassium _	129		6/1
Other:		11 TT	3/12	Magnesium _		mg/1_	5/19
☐ Other:				Sodium	212	mg/1_	<del></del>
A 11 00				Bicarbonate		mg/1_	5/12
A-H <sub>2</sub> SO <sub>4</sub>	literata At			Chloride _	381	mg/1_	5/26
☐ Nitrate-N+, N total (00630)	intrate-N ———	mg	/l	_ Sulfate	1297	mg/1_	5/20
☐ Ammonia-N to			/I	_ ☑ Total Solid	is <u>2957</u>	mg/1_	5h7
☐ Total Kjeldahl- ( )	-N	mg	//	X 6/40A	ido o.	<u>44</u>	5/27
☐ Chemical oxy							<del></del>
demand (0034		mg	//	-			
( )		mg	//	- Cation/A	nion Bal	ance	
☐ Other:	-			Analyst	Date Rep		Reviewed by
☐ Other:				<b>-</b>		187	CD
Laboratory remark	ks						
<b>7</b>	·····			***************************************		<del>-</del>	***************************************
*			***************************************				***************************************
FOR OCD US	E Date (	Owner Notified		Phone or Lett	er?	In	itals
				-			

CYLANA	CATIONS E MEQ.	РРМ	DET.	ANALYT	ANIONS E MEQ.		DET.
Ca Mg Na K	20.56 11.42 9.22 0.05	412.00 139.00 212.00 1.95	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	3.72 27.02 10.75	227.00 1297.00 381.00	<10.0
Mn Fe	0.00	0.00		NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	41.25	764.95			41.49	1905.00	
	Dissolved alance =	Solids=   99.42%	2952		C No.	= 8701642 B 6/1/87	_

and the second s

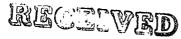


# Field blanks Chain Cust.



#### 2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214/984-0551

Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales



08/17/89

AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Environmental Bureau NM Oil D. PO Box 2088 Santa Fe, NM 87504

Sample Identification: Feild Blank Navajo Ref.

Flow or other on site data: 2 Vials

Collected by: Boyer

Date & Time Taken: 07/25/89 1200

Additional Sample Information:

Lab Sample Number:

Received:

07/29/89

PARAMETER:	RESULTS	GUALITY CONTROL	ANALYZED ON AT	ANALYST
1,1,1-Trichloroethane, ug/l EPA Hethod 8010	(5		<b>08/04/89 0453</b>	ВР
1,1,2,2-Tetrachloroethane, ug/l EPA Method 8010	(5		08/04/89 0453	ВР
1,1,2-Trichloroethane, ug/l EPA Method 8010	(5		<b>08/04/89 0453</b>	Bb
1,1-Dichloroethane, ug/l EPA Method 8010	(5		08/04/89 0453	Bb
1,1-Dichloroethene, ug/l EPA Method 8010	(1		<b>88/84/89 8453</b>	ВР
1,2-Dichloroethane, ug/l EPA Method 8010	₹5		08/04/89 0453	ВР
1,2-Dichloropropane, ug/l EPA Method 8010	₹5		08/04/89 0453	Bp
2-Chloroethylvinyl ether, ug/l EPA Method 8010	(10		98/94/89 9453	ВР
Benzene, ug/l EPA Method 8020	⟨5		<b>98/94/89 9453</b>	<b>B</b> P
Bromodichloromethane, ug/l EPA Method 8010	₹5		<b>98/94/89 9453</b>	Bb



#### 2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214/984-0551

Analytical Chemistry • Waste Treatment Disposal Report Sales

AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Lab Sample Number: 149768 Continued

Page 2

	PARAMETER:	RESULTS	GUALITY CONTROL	ANALYZED ON AT	ANALYST
	Bromoform, ug/l EPA Method 8010	<b>(</b> 5		08/04/89 0453	Bb
	Bromomethane, ug/l EPA Wethod 8010	(10)		<b>68/04/89 0453</b>	Вр
	Carbon Tetrachloride, ug/l EPA Method 8010	(5		08/04/89 0453	BP
	Chlorobenzens, ug/l EPA Method 8010	(5		08/04/89 0453	Вр
	Chloroethane, ug/l EPA Hethod 8010	(19		08/04/89 0453	Вр
ŀ	Chloroform, ug/l EPA Method 8010	(5		<b>08/04/89 0453</b>	BP
	Chloromethans, ug/l EPA Method 8010	(10)		<b>08/04/89 0453</b>	ВР
	Cis-1,3-Dichloropropene, ug/l EPA Method 8910	<b>(</b> 5		<b>98/94/89 9453</b>	Bb
	Dibromochloromethane, ug/l EPA Method 8910	<b>(</b> 5		08/04/89 0453	ВР
	Ethyl benzene, ug/l EPA Method 8920	<b>(</b> 5		<b>08/04/89 0453</b>	ВР
	Freon, ug/l EPA Method 8010	<b>(</b> 5		08/04/89 0453	ВР
	Methylene Chloride, ug/l EPA Method 8010	<b>(</b> 5		08/04/89 0453	Bb
	Tetrachloroethene, ug/l EPA Hethod 8910	(5		<b>08/04/89 0453</b>	₿Þ
ı	Toluene, ug/l EPA Method 8020	(5		<b>98/94/89 9453</b>	Вр



## 2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214 (98

Analytical Chemistry O Waste Treatment Disposal Equipment Sales

AUG 2 1 1989

OIL CONSERVATION DIV. SANTA FE

Lab Sample Number:

149768 Continued

Page 3

PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
Trans-1,2-Dichloroethene, ug/l EPA Wethod 8010	(5	<b>98</b>	/04/89 0453	Bb
Trans-1,3-Dichloropropene, ug/l EPA Method 8010	(5	<del>0</del> 8	/04/89 0453	Bb
Trichloroethene, ug/l EPA Method 8010	<b>(</b> 5	<b>98</b>	/04/89 0453	BP
Vinyl Chloride, ug/l EPA Method 8010	(1	<b>08</b>	/04/89 0453	BP
Xylenes, ug/l EPA Method 8020	₹1⊕	<del>0</del> 8	/04/89 0453	ВР



#### 2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214/984-0551

Analytical Chemistry o Waste Treatment & Disposal o Equipment Sales

08/17/89

Environmental Bureau NM Oil D. PO Box 2088 Santa Fe, NM 87504 BECELVED

AUG 21 1989

OIL CONSERVATION DIV. SANTA FE

Sample Identification: Trip Blank Navajo Ref. Flow or other on site data: 4 Vials

Collected by: Boyer, Englert

Date & Time Taken: 07/28/89 1111

Additional Sample Information:

Lab Sample Number:

769 Received:

07/29/89

PARAMETER:	RESULTS	GUALITY CONTROL	ANALYZED ON AT	ANALYST	
1,1,1-Trichloroethane, ug/l EPA Method 8010	<b>(</b> 5		98/94/89 2033	BP	
1,1,2,2-Tetrachloroethame, ug/l EPA Method 8010	(5		08/04/89 2033	BP	
1,1,2-Trichloroethane, ug/l EPA Method 8010	(5		<b>08/04/89</b> 2033	BÞ	
1,1-Dichloroethane, ug/l EPA Method 8018	(5		<b>98/94/89 2933</b>	Bb	
1,1-Dichloroethene, ug/l EPA Method 8010	(1		<b>08/04/89 2033</b>	Bb	
1,2-Dichloroethane, ug/l EPA Method 8010	(5		<del>08/04/89 2033</del>	BÞ	
1,2-Dichloropropane, ug/l EPA Method 8010	⟨5		<b>08/04/89 2033</b>	BP	
2-Chloroethylvinyl ether, ug/l EPA Method 8010	(10		<b>08/04/89 2033</b>	BP	
Benzene, ug/l EPA Method 8020	<b>(5</b>		<b>08/94/89 2033</b>	Bb	
Bromodichloromethane, ug/l EPA Method 8010	⟨5		98/94/89 2 <b>9</b> 33	BÞ	



# 2600 DUDLEY ROAD - KILGORE, TEXAS 25662 214 98 1

Analytical Chemistry • Waste Treatment & Disposal • Equipment Sales AUG 2 1 1989

#### OIL CONSERVATION DIV. SANTA FE

Lab Sample Number:

149769 Continued

Page 2

	PARAMETER:	RESULTS	QUALITY CONTROL	ANALYZED ON AT	ANALYST
	Bromoform, ug/l EPA Method 8010	(5		08/04/89 2033	Bb
	Bromomethane, ug/l EPA Method 8010	(10)		08/04/89 2033	Bb
	Carbon Tetrachloride, ug/l EPA Hethod 8010	(5		98/94/89 2933	BP
	Chlorobenzene, ug/l EPA Method 8010	(5		08/04/89 2033	ВР
	Chloroethane, ug/l EPA Method 8010	(10		98/94/89 2933	BP
)	Chloroform, ug/l EPA Method 8010	(5		<b>88/94/89 2033</b>	Bb
	Chloromethane, ug/l EPA Method 8010	(19		08/04/89 2033	Bb
	Cis-1,3-Dichloropropene, ug/l EPA Method 8010	(5		98/94/89 2033	Bb
	Dibromochloromethane, ug/l EPA Method 8010	(5		08/04/89 2033	Bb
	Ethyl benzene, ug/l EPA Method 8020	(5		08/04/89 2033	Bb
	Freon, ug/l EPA Method 8010	(5		98/94/89 2933	Bb
	Methylene Chloride, ug/l EPA Method 8910	(5		08/04/89 2033	Bb
	Tetrachloroethene, ug/l EPA Method 8010	(5		08/94/89 2033	₿Þ
)	Toluene, ug/l EPA Nethod 8929	(5		98/94/89 2933	Bb



#### 2600 DUDLEY ROAD - KILGORE, TEXAS 75662 - 214/984-0551

Analytical Chemistry • Waste Treatment & Disposal Equipment Sales

# AUG 2 1 1989

Lab Sample Number:	149769 Continued	OIL CONSERVATION DIV. SANTA FE	Page 3
PARAMETER:	RESULTS	QUALITY ANALYZED CONTROL ON AT	ANALYST
Trans-1,2-Dichloroethene, ug/l EPA Wethod 8010	(5	<del>0</del> 8/04/89 2033	Bb
Trans-1,3-Dichloropropene, ug/l EPA Method 8010	⟨5	98/94/89 2933	Bb
Trichloroethene, ug/l EPA Method 8010	(5	08/04/89 2033	Вр
Vinyl Chloride, ug/l EPA Method 8010	(1	08/94/89 2933	Bb
Xylenes, ug/l EPA Method 8 <i>020</i>	⟨19	<b>08/04/89</b> 2033	Bb

C. H. Whiteside, Ph.D., President



2503 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

CLIENT:	OCD	DATE REPORTED:	08/22/89
ID:	890725 Field Blank	DATE EXTRACTED:	08/08/89
SITE:	N/A	DATE RECEIVED:	08/02/89
LAB NO:	F1833	DATE COLLECTED:	07/25/89

Analysis Requested: Purgeable aromatics in water.

Parameter	Concentration	Units
Benzene Ethylbenzene	0.32 (0.2) 0.52 (0.2)	ug/l
Taluene	0.26 (0.2)	l\eu
1,2-Dichlorobenzene	ND (0.2)	ug/l
1,3-Dichlorobenzene	ND (0.2)	ug/l
1,4-Dichlorobenzene	ND (0.2)	ug/l
Chlorobenzene	ND (0.2)	ug/l
m-Xylene	0.33 (0.2)	ug/l
a-Xylene	0.19 (0.2)	ug/l
p-Xylene	0.13 (0.2)	ug/l

Method:

8020 Aromatic Volatile Organics, SW-846, USEPA (1982)

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schadffer Senior Chemist

MECHUED

SEP - 1 1989

2503 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

 CLIENT:
 OCD
 DATE REPORTED:
 08/22/89

 ID:
 890725 Field Blank
 DATE EXTRACTED:
 08/07/89

 SITE:
 N/A
 DATE RECEIVED:
 08/02/89

 LAB NO:
 F1833
 DATE COLLECTED:
 07/25/89

Analysis Requested: Purgeable halocarbons in water.

Parameter	Concentr	ation	Units
Bromobenzene	ПИ	(1.0)	ug/l
Bromodichloromethane	ND	(1.0)	ug/l
Bromoform	CIM	(1.0)	ug/l
Carbon Tetrachloride	ND	(1.0)	ug/l
Chlorobenzene	ND	(1.0)	ug/
Chloroethane	ND	(1.0)	ug/l
Chloroform	ND	(1.0)	น9/1
Chioromethane	ND	(1.0)	ug/
Dibromochloromethane	ND	(1.0)	ug/l
Dibromomethane	ND	(1.0)	ug/l
1,2-Dichlorobenzene	ND	(1.0)	ug/l
1,3-Dichlorobenzene	ND	(1.0)	ug/l
1,4-Dichlorobenzene	ND	(1.0)	ug/l
Dichlorodifluoromethane	ND	(1.0)	ug/l
1,1-Dichloroethane	ND	(1.0)	ug/
1,2-Dichloroethane	ND	(1.0)	ug/i
1,1-Dichlaraethene	ND	(1.0)	ug/l
trans-1,2-Dichloroethene	ND	(1.0)	ug/l
1,2-Dichloropropane	ND	(1.0)	ug/l
1,3-Dichloropropylene	ND	(1.0)	ug/l
2,2-Dichloropropane	ND	(1.0)	ug/l
Dichloromethane	ND	(1.0)	ug/\
1,1,1,2-Tetrachloroethane	ND	(1.0)	ug/l
1,1,2,2-Tetrachloroethane	ND	(1.0)	ug/l
Tetrachloroethene	ND	(1.0)	ug/l
1,1,1-Trichloroethane	ND	(1.0)	ug/l
1,1,2-Trichloroethane	ND	(1.0)	l\eu
Trichlaraethene	ND	(1.0)	ug/
Trichlorofluoromethane	ND	(1.0)	ug/l
1,2,3-Trichloropropane	ND	(1.0)	ug/

# KIBCEUVED

SEP - 1 1989



2503 West Main Street Farmington, New Mexico 87401 Tel. (503) 326-4737

Benzyl Chloride	ND	(1.0)	
•	IND		ug/l
bis(2-chloroethoxy)methane	ND	(1.0)	ug/l
bis(2-Cloroisopropyl)ether	ПN	(1.0)	ug/l
Bromomethane	ND	(1.0)	ug/l
Chloracetaldehyde:	ND	(1.0)	ug/l
1-Chlorohexane	ND	(1.0)	ug/l
1-Chloroethyl Vinyl Ether	ПN	(1.0)	ug/l
Chloromethyl methyl ether	ND	(1.0)	ug/l
Chlorotoluene	ND	(1.0)	ug/l
1,3-Dichloropropene	ND	(1.0)	ца/ 1

#### Method:

8010 Halogenated Volatile Organics, SW-846, USEPA (1982).

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schae∜fer Senior Chemist

SEP-1 1989

CLIENT: OCD DATE REPORTED: 09/11/89 SAMPLE ID: N/A DATE EXTRACTED: 08/02/89

SITE: N/A

LAB NO: Laboratory blank

DATE RECEIVED: N/A

DATE COLLECTED: N/A

Analysis Requested: Polynuclear aromatic hydrocarbons in water.

Parameter	Concentr	Concentration	
Acenaphthene	ND		ug/
Acenaphthylene	ND	(2.3)	na/
Anthracene	ND	(1.0)	ug/
Benzo(a)Anthracene	ND	(1.0)	ug/
Benzo(a)pyrene	ND	(1.0)	ug/l
Benzo(k)fluoranthene	ND	(1.0)	ug/l
Benzo(g,h,i)perylene	ND	(1.0)	ug/l
Dibenzo(a,h)anthracene	ND	(1.0)	ug/
Chrysene	ПN	(1.0)	ug/l
Fluoranthene	ND	(1.0)	ug/l
Fluorene	ПN	(1.0)	ug/l
Indeno(1,2,3-cd)pyrene	ND	(1.0)	ug/l
Naphthalene	ND	(1.8)	ug/l
Phenanthrene	ND	(1.0)	ug/l
Pyrene	CIN	(1.0)	ug/l
Benzo(b)fluoranthene	ND	(1.0)	ug/l
Benzo(a)fluoranthene	ПN	(1.0)	ug/l
Benzo(j)fluoranthene	ND	(1.0)	ug/l
Dibenzo(a,h)acridine	ND	(1.0)	ug/
Dibenzo(a,j)acridine	ND	(1.0)	ug/l
Dibenzo(a,h)anthracene	ND	(1.0)	ug/l
7H-dibenzo(c,g)carbazole	ND	(1.0)	ug/l
Dibenzo(a,e)pyrene	ПИ	(1.0)	ug/l
Dibenzo(a,h)pyrene	ND	(1.0)	ug/l
Dibenzo(a,i)pyrene	ПN	(1.0)	ug/l
3-Methylcholanthrene	ND	(1.0)	ug/
w the dry twite twittent with	, 41/	, ,, ,, ,,, /	w = / 1

#### Method:

8100 Polynuclear Aromatic Hydrocarbons, SW-846, USEPA (1982). 610 Polyaromatic Hydrocarbons, 40 CFR Part 136 (1984).

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer

Senior Chemist

SEP 25 1989

WE CELL REPORT



2508 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

CLIENT: OCD

DATE REPORTED: 09/26/89

ID:

Method blank

DATE RECEIVED: N/A

DATE EXTRACTED: 08/02/89

SITE: LAB NO: N/A N/A

DATE COLLECTED: N/A

Analysis Requested: Phenols in water.

Parameter	Concentration	n Units
4-Chloro-3-methylphenol	ND (1	.D) ug/l
Z-Chlorophenol		.D) ug/l
2,4-Dichlorophenol		.D) ug/l
2,4-Dimethylphenol		1\eu (0.
2,4-Dinitrophenol	ND (15	. D)
2-Methyl-4,6-dinitrophenol	ND (15	.D) ug/l
2-Nitrophenol	ND (1	1\eu (O.
4-Nitrophenol	E) DN	.0) ug/l
Pentachlorophenol	8)	.D) ug/l
Phenol	ND (1	1/eu (0.
2,4,6-Trichlorophenol	ND (1	.0) ug/l
2-sec-Butyl-4,6-dinitrophe	nol ND (1	1\eu (D.
Cresols (methyl phenols)	ND (1	. [] \ eu \ ( [] .
2-Cyclohexyl-4,6-dinitroph	enal ND (1	1\eu (0.
2,6-Dichlorophenol	ND (1	.D) ug/l
Tetrachlorophenols		1\eu (D.
Trichlorophenols	ND (1	.0) ug/l

#### Method:

8040 Phenois, SW-846, USEPA (1982). 604 Phenols, 40 CFR Part 136 (1984).

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

Senior Chemist

RECEIVED

SEP 2 8 1989

OIL CONSERVATION DIV. SANTA FE

# SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE Albuquerque, NM 87106 841-2570

H	4:00	
-T H ENV	87- 0768 -C	MEM MEXICO

REPORT TO:	David Boyer	S.L.D. No. OR- 768-A-B
	N.M. Oil Conservation Division	DATE REC. 5/5/87
	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812	USER CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE: 12   6   0
	CCTION CODE: (YYMMDDHHMMIII) 8 7 014	
	WATER ☒, SOIL ☐, FOOD ☐, OTHER:	
	; CITY:	
	E: (Township-Range-Section-Tracts) +	
	QUESTED: Please check the appropriate box(es) below to ver possible list specific compounds suspected or required.	indicate the type of analytical screens
	PURGEABLE SCREENS	EXTRACTABLE SCREENS
	tic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons
-	tic & Halogenated Purgeables	(760) Organochlorine Pesticides (755) Base/Neutral Extractables
(766) Trihal	·	(758) Herbicides, Chlorophenoxy acid
	· Specific Compounds or Classes	(759) Herbicides, Triazines
		(760) Organochlorine Pesticides
		(761) Organophosphate Pesticides
旦 —		(767) Polychlorinated Biphenyls (PCB's)
<u> </u>		(764) Polynuclear Aromatic Hydrocarbons
.		(762) SDWA Pesticides & Herbicides
Remarks:		
FIELD DATA:		
pH= ; C	onductivity=umho/cm atC; Chlorine Res	idual=mg/l
	n=mg/l; Alkalinity=mg/l; Flow Rate	· · · · · · · · · · · · · · · · · · ·
	ft.; Depth of well ft.; Perforation Interval	
	on, Methods and Remarks (i.e. odors, etc.)	
		vredaleohol with
_ Tills		
	einnight to to Iliter	
I certify that th	ne results in this block accurately reflect the results of m	y field analyses, observations and
activities.(signatu	npanies Septum Vials, Glass Jugs, and/or	lethod of Shipment to the Lab:
Samples were no	reserved as follows:	<del></del>
NP:	No Preservation; Sample stored at room temperature.	. /
P-Ice	Sample stored in an ice bath (Not Frozen).	
	Sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters and the sample Preserved with Sodium Thiosulfate to remove characters are sample preserved with the sample Preserv	nlorine residual.
CHAIN OF CU	his sample was transferred from	to ·
at (location)	onon	
	in this block are correct. Evidentiary Seals: Not Sealed [_	_  Jeans Meach. 165    170
Signatures		
For OCD (	Jse: Date Owner Notified Pho	ne or Letter? Initials

## THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screeni	ng method(s)	hecked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(760) Organochlorine Pesticides	
	<del></del>	(761) Organophosphate Pesticides	
<u></u>		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
	<del></del>		
ANIA	LVTICAL	DECILI TO	
AINA	LY IICAL	RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
	[PPB]	ţ	[PPB]
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anomalie surgeables	<u> Lemarka</u>		
halommattad Hansacokler	M.D.		
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	<del></del>    -		
	11	•	1
* DETECTION LIMIT * *			
* DETECTION LIMIT * 1	50 48/L	+ DETECTION LIMIT +	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATED	DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW			
[ RESULTS IN BRACKETS ] ARE UNCONFI		· · · · · · · · · · · · · · · · · · ·	
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LABORATORY REMARKS: Tonle common	wasto v	t 1-3 rad in the assmall	_
11-1-10	1 1	AA. H. A.	
somme detalled of	y The p	Andrianigalion detector a	ul_
nort idlatilical.			}
In a summing service of			
	<del></del>		
CERTIFICAT	E OF ANALYI	rical personnel	
Seal(s) Intact: Yes No L. Seal(s) broken by:	moti	sarlas date:	
I certify that I followed standard laboratory procedure			and
that the statements on this page accurately reflect th			
* .	_	i a	]
Date(s) of analysis: 6/1/87. Analyst's sign	nature:	ary l. Eller	
I certify that I have reviewed and concur with the	analytical result	s for this sample and with the statements in this	block.
Reviewers signature: & Slarro		<b></b>	
The state of the s		JUN 1 1 1987	

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE

Albuquerque NM 87106 841-2570 Albuquerque, NM 87106 841-2570

سرا	- July 62	
V	87-0749-C	NEW MEXICO

	David Boyer	S.L.D. No. OR- 749-A-B
REPORT TO:	N.M. Oil Conservation Division	
	P. O. Box 2088	DATE REC
	Santa Fe, N.M. 87504-2088	_
		PRIORITY
PHONE(S):	827-5812 USI	ER CODE: [8   2   2   3   5
SUBMITTER:	David Boyer	CODE: 12 16 10 1
	ection code: (YYMMDDHHMMIII) 1817101412	,
SAMPLE . TYPE:	water , soil , food , other:	CODE:
<del></del>	; CITY:	CODE:
LOCATION COD	E: (Township-Range-Section-Tracts)	+ +      (10N06E24342)
	QUESTED: Please check the appropriate box(es) below to ind ver possible list specific compounds suspected or required.	licate the type of analytical screens
required. Whenev		EXTRACTABLE SCREENS
(753) Alipha	atic Purgeables (1-3 Carbons) [ (75	1) Aliphatic Hydrocarbons
(754) Aroma	atic & Halogenated Purgeables (76	O) Organochlorine Pesticides
(765) Mass	Spectrometer Purgeables [75]	5) Base/Neutral Extractables
(766) Trihal	omethanes [75]	8) Herbicides, Chlorophenoxy acid
Other	r Specific Compounds or Classes [ ] (75	9) Herbicides, Triazines
	(76	0) Organochlorine Pesticides
□ —		1) Organophosphate Pesticides
		7) Polychlorinated Biphenyls (PCB's)
<u> </u>		4) Polynuclear Aromatic Hydrocarbons
<u> </u>		2) SDWA Pesticides & Herbicides
Remarks:		
FIELD DATA:		
pH=; C	onductivity=umho/cm atoC; Chlorine Residu	al=mg/l
Dissolved Oxyger	n=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to water	ft.; Depth of wellft.; Perforation Interval	ft.; Casing:
	on, Methods and Remarks (i.e. odors, etc.)	
Sull	Blank EID Deronger	Vale
I certify that th	he results in this plook ascurately reflect the results of my	field analyses, observations and
activities.(signatu	re collector):  Meth	nod of Shipment to the Lab: Nank Carne
This form accon	npanies Septum Vials,/ Gass Jugs, and/or	
Samples were pr	reserved as follows:	
☐ NP:	No Preservation; Sample stored at room temperature.	
P-Ice	Sample stored in an ice bath (Not Frozen).	
P-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> CHAIN OF CU	Sample Preserved with Sodium Thiosulfate to remove chlor	ine residual.
I certify that th	his sample was transferred from	to
	on	and that
the statements i	in this block are correct. Evidentiary Seals: Not Sealed	
Signatures	<del>'</del>	
E 000 I	Jse: Date Owner Notified Phone	or Letter?Initials

## THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ning method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Purgeables (1-3 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(760) Organochlorine Pesticides	
(765) Mass Spectrometer Purgeables		(755) Base/Neutral Extractables	
(766) Trihalomethanes		(758) Herbicides, Chlorophenoxy acid	
Other Specific Compounds or Classes			i
Other Specific Compounds or Classes		(759) Herbicides, Triazines	
		(760) Organochlorine Pesticides	
		(761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
	<del></del>	(764) Polynuclear Aromatic Hydrocarbons	
	<del></del>	(762) SDWA Pesticides & Herbicides	
			ļ
ANA	ALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
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Wicklord Samomethane	6		
Dibromochlosomethane	3		
Brownson	TR		
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DETECTION LIMIT *	1-49/	+ DETECTION LIMIT + +	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW			
[ RESULTS IN BRACKETS ] ARE UNCONF			j
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LABORATORY REMARKS:			
			İ
GPD MYDIGA 6		WAY DEDGOVER	
		YTICAL PERSONNEL	Ì
Seal(s) Intact: Yes No Seal(s) broken by		Tololog date:	
I certify that I followed standard laboratory procedu			d and
that the statements on this page accurately reflect t	-		
Date(s) of analysis: 5/28/87 . Analyst's sign	gnature:	Hary C. Elen	
I certify that I have reviewed and concur with the			block.
Reviewers signature: 14, Shored	$\mathcal{D}$	JUN 1 1 1987	Ì

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

PROJ. NO. PROJECT NAME	ME	CHAIN OF CUSTODY RECORD	JSTODY R		SOM OI	\$ 448	:
			NO.	6			•
SAMPLERS: Isignature	(		ýo		\ \ '		
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			TAINERS	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		\
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2726 /333	WAWAJO REF	0cD-5	thals			149750 ·	
0725 1354	NAVASO REF	9-doo	4VISS	7 7		125 941	
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PROTES MY	DAYPER REF	MWC		2 2 1		149764	
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			<del></del>	SEALS INTACT	INTACT	IN IN RIS	Rid Room
Relinquished by: 15.pneture/	Date / Time R	Received by: (Signature)				: (Sign	(Signature)
Relinguished by: (Sameture)	Date / Time R	Received for Laboratory by:	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Date /Time	Remarks		
-		Bigging Pary		03/12/18/100			
Dinibulian	Distribution: Original Accompanies Bhipmani; Copy to Coordinate Graid Fries	ment; Copy to Coardinates	G. 110 F. 100				

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

OIL CONSENVALION DIVISION		CHAIN OF CUSTODY RECORD	70 1	NA 648	8
PROJ. NO. PROJECT NAME		ND.			
SAMPLEAS: Isigniumi		of CON.			REMARKS
DATE TIME	STATION LOCATION	TAINERS	SUNDENT PORT		7 J. J.
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C121 2500	NAVATO REF. BORCUTION -	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2	551	Helbhi Helbhi
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890727 080C	DIS WASH WATE!	2 2 2 ray			
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896725 1829	EAST Pand 3			. A. O	Md770
Relinquished by: (Seperator)	Date / Time Received by: Signature		SEALS INTACT		Kigneral Strong No Rew
Refinquithed by: 15-metrical	Date / Time Received by: /Signature)			•	Signatural :
Relinquished by: (5-groture)	Date / Time Received for Laboratory by:	3/25		Remarks	
Distribution: Or	Destribusion: Original Accompanies Shipment; Copy to Coordinally Field Files				

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

			CHAIN OF CUSTODY RECORD	STODY RE	CORD	10	1mt	1	
PROJ. NO. PROJE	PROJECT NAME					3	\ \ !		*
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SAMPLERS: (Signature)				of	_	\$ 0 mm	40 S\$	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	REMARKS
				CON. TAINERS	/		<u>&gt;</u>		
DATE TIME	<u>w</u>	\$1.4	STATION LOCATION					IM	Sample #
890725 112	1126	NAVAJO	REF 0003	/	1			1820	
890725 1204	40	٤		ત	1			1821	
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