FILE FOLDER

DESCRIPTION ON TAB:

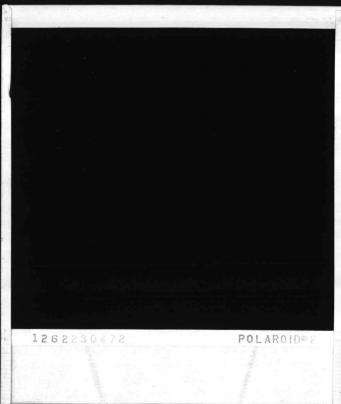
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Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08





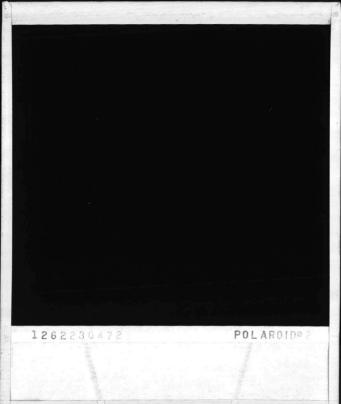
























PNAV 5216/144A (Rev. 8-81)

DEC 1 4 1987

Memorandum

6280/9 FAC

ATE:

 ROM: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune, North Carolina 28542-5001
 Director, Natural Resources and Environmental Affairs Divsiion

for action

UBJ: EVALUATION OF GROUNDWATER DATA FROM MONITORING WELLS AT THE SANITARY LANDFILL

Ref:

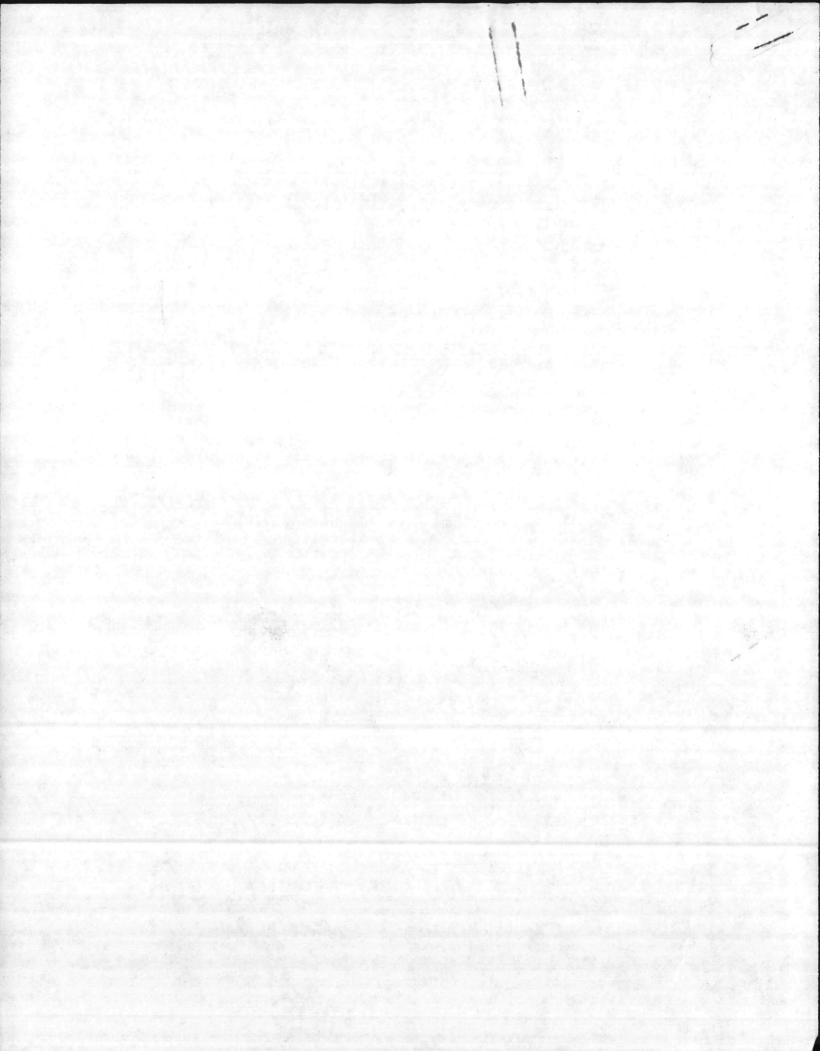
(a) Mtg btwn Mr. Shiver, NC Groundwater Section, and Mr. Alexander, MCB Fac dtd 18 Nov 87

 As discussed during the reference, request you provide by 4 January 1988, a summary of groundwater data collected at the landfill to date. Please include a site location map showing
 locations of the groundwater monitoring wells in relation to the landfill operating area.

2. POC in this matter is Bob Alexander, extension 3034.

Daulas direction

Elizabetz Betz 16 Dec 87 Please pregare request Summan S.tc ensure le por essel understood/readable. Nare lette1 over 0 Assignment 24Dec (NoTe: Tomnot Available to Assist)



WELL A

10/30/84

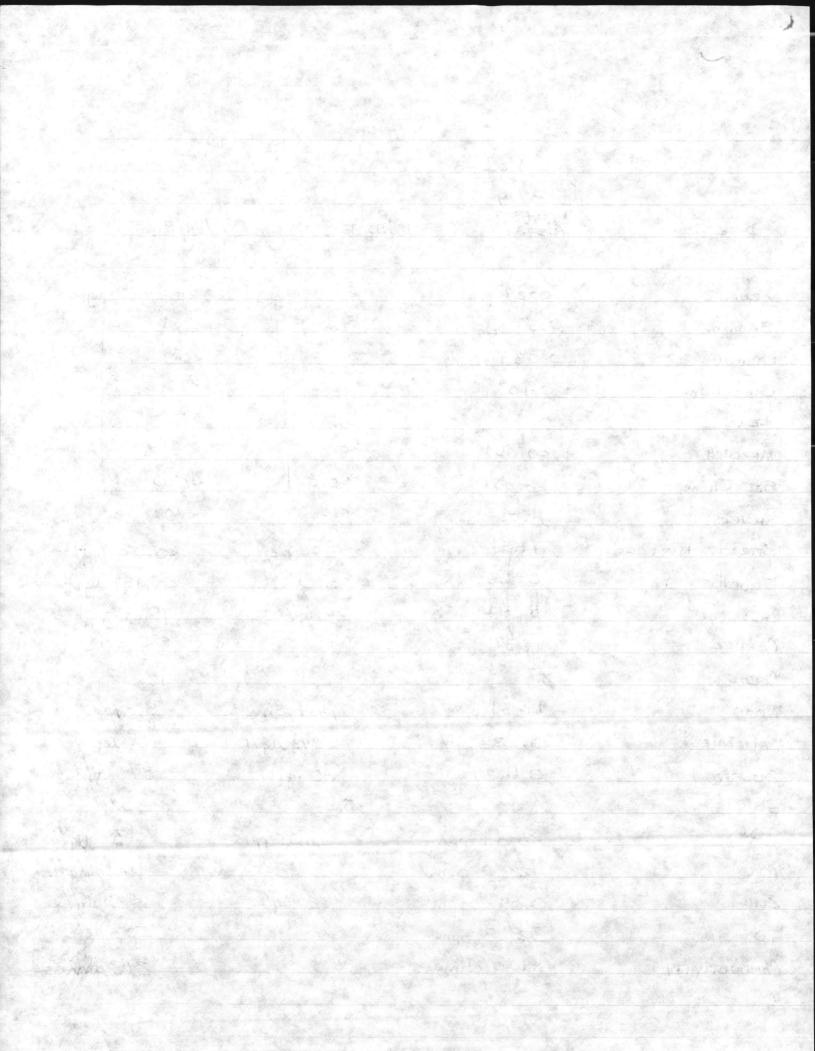
4/5/84 G/5/84

DATE

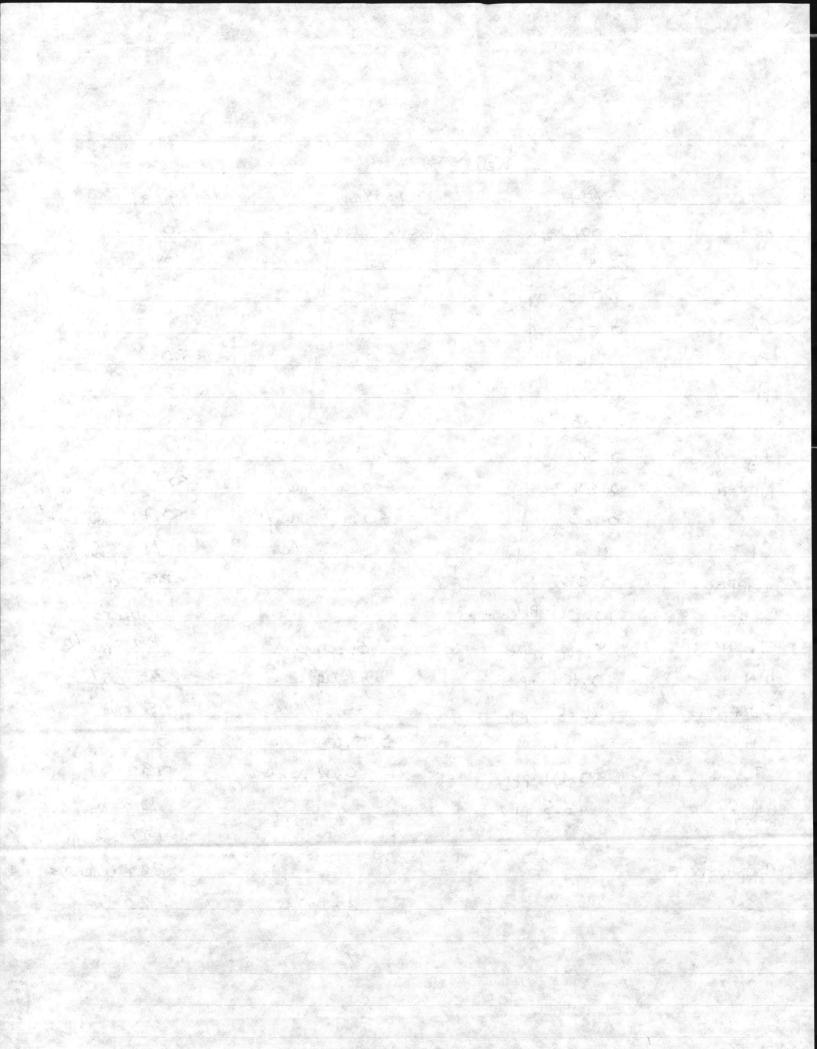
0.0029 ppm ARSENIC <10 ugle ug/c <10 0.5 ppm 2200 <200 BARIUM 0.039 ppm 25 25 CADMIUM 0.10 ppm <10 CHROMIUM 410 0.305 ppm < 5,0 45.0 LEAD <0.001 ppn 40.2 <0.Z MERCURY <0.001 ppm < 5.0 45.0 SELENIUM 0.023 2pm <10 <10 SILVER 7431 KO.OZ myll =0.02 mg/L NITRATE NITROGEN 0.333 < 0.1 mg/L <0.19 mg/L FLUORIDE 0.000 15 mg/L 18 mg/L CHLORIDE =25 mg/L COPPER Color 120 文 14.31 ppm 13.4 ppm 13.0ppm TEON 117 ugle 0.233 2pm · 193 ug/L MANGANESE 11.37 ppm 37 mg/L 35 Ng/L SULFATE 5.6 PH 5.5 TOX 20.01 ppn 13 ug/L <0.01 ppm 22.0 ppm 11.7 mg/2 TOC 0.041 ppm <20 mg/L ~20 ug/c ZINC 329.8 ppm 203 mg/L TDS 295 manos 490.0 uhmo CONDUCTIVITY

12/30/85

12/29/86

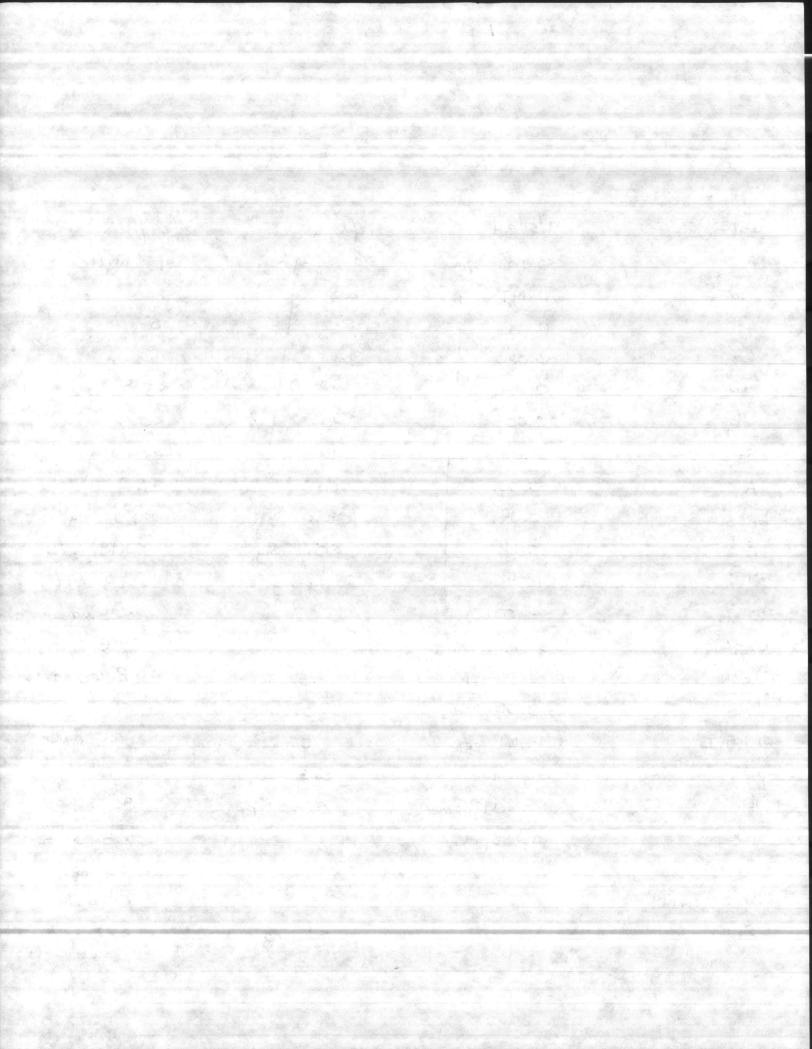


	WELL B		
	9/5/84	12/30/85	12/29/86
As	<0.001 ppm	<10 Mg/C	<10 mg/L
Be	0.147	665>	4200
Cd	0.010	c5	45
Cr	0.026	<10	<10
P6	0.164	<5.0	< 5.0
Hg	<0.001	<0.2	50.2
Se	<0.001	<5.0	45.0
Ag	0.022	<10 \$	<10 V
NITRATE	0.54	<0.02 mglu	\$0.02 por Mg/L
F	0.60	-0.10 mg/L	<0.19 mg/2
CI	z. Z	53 mg/L	71 pper mg/c
COPPER	V 750.0		= 25 ng/L
Color	10.00 Pt/co UNITS		40 UNITS
IRON	8.68 ppn	5.30 mg/L	4.25 mg/L
MN	0.104 ppm	47 mg/L	035 jug/c
SULFATE	lele. 6 ppni	<5mg/L	<5 mg/L
pH	le. 56	\$ 5.6	5.4
TOK	<0.01 ppm	<0.01 ppn	132 mig /L
TOC	43.5 ppm	Reading and the second	10.5 mg/L
TDS			120 ppm pg/L
CONDUCTIVITY			220 unhos
ZN		< 20 mg/L	30 mg/L

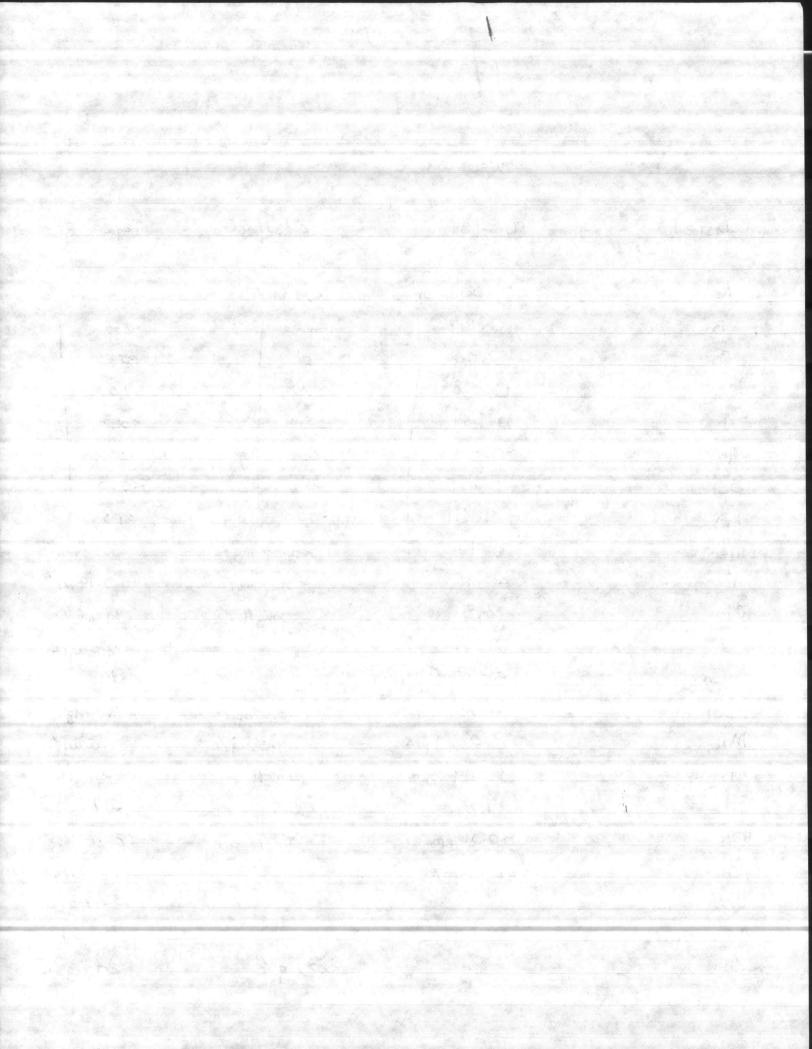


.1			
DATE :	9/5/84	12/30/85	12/29/86
As	<0.001 ppm	<10 lig/L	<10 jug/L
Ba	0.147 1	4200	<200
Col	0.003	45	~ 5
Cre	0.020	<10	<10
Pb	0,144	<5.0	<5.0
Hg	40.001	<0.2	<0.Z
SE	<0.001	-5.0	< 5.0
Ag	<0.001	<1.0 V	<1.0
NITRATE	0.34	<0.02 mg/L	<0.02 mg/L
F	0.11	<0.1 mg/L	<0.19 mg/L
CI	10.4	13 mg/L	18 mg/L
Co *	<0.001		<25 mg/L
COLORY	35 Pt (CO UNITS	100 m	15 UNITS
JEON	1.86 ppm	2.3 mg/L	2.900 mg/L
MA	0.05 ppm	<0.01 mg/L	<15 mg L
JULFATE	4.61 ppm	<5 mg/L	<5 mg/L
PH	6.51	5.3	5.l
TOX	50.01 ppm	<0.01 ppm	35 ug/c
TOC *	13 ppm		2.8 mglu
TDS *	an a		52 mg/L
CONDUCTIVITY			38 unhos
ZN		<20,0g/L	220 ng L
			and the second

Wen C



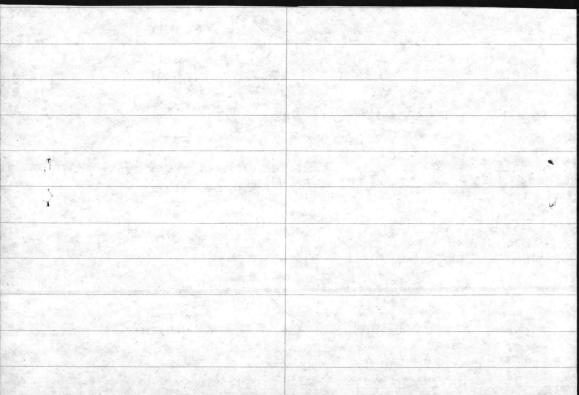
a destruction of	WELL D	Sector Sector Sector	
DATE :	9/5/84	12/30/85	12/29/86
Aş	<0.001 ppm	<10 reg/c	<10 log!
Ba	0.147	<200	-200
Cd	0.006	<5	<5
CR	0.008	<10	<10
РЬ	0.164	45,0	<5.0
Ha	100.0>	<0.2	<0.2
Se	<0.021	45.0	<5.0
Ag	<0.001	<10 4	<10
NITRATE.	0.40	<0.02 mg/L	40.02 mg
F	20.10	<0.1 mg/L	< 0.19 mg
CI	3.8	Le mg/L	9 mg/L
Cu	0.006		= 25 ugli
Color	50.00 PT/CO UNITS		12
TEON	5.78 ppm	3.6 mg/L	2.0 mgl
MN	0.026 ppm	<15 ug/L	<15 ugl
SULFATE	10.09 ppm	<5 mg/L	25 mg/c
θΨ	7.25	5.6	5.1
TOX	XO.DI ppnu	< 0.01 ppm	13 ug/L
700	10.5 ppm		0,8 mg/4
TDS		The Conference of the State of	35 mg/
CONDUCTIVITY	ale de la charle en la construir de la constru Nova de la construir de la const	an dia dia kaominina dia ka Interna dia kaominina dia kao	38 umh
ZN		<20 mg/L	<20 ug/



Elizabetz Betz:

Please prepare the Above requested data summary and site map. Please ensure that data and pomple points are correlated and easely understood/readable. Prepare Cover letter to AC/S, FAC. Assignment due NAT 24Dec 87 (NoTe: Tomnot Available to Assist) Danny Sharpe

16 Dec 87



OPNAV 5216/144A (Rev. 8-81 S/N 0107-LF-052-2320



6280/9 FAC

DEC 1 4 1987

FROM: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune, North Carolina 28542-5001
 TO: Director, Natural Resources and Environmental Affairs Divsiion

for action !!

SUBJ: EVALUATION OF GROUNDWATER DATA FROM MONITORING WELLS AT THE SANITARY LANDFILL

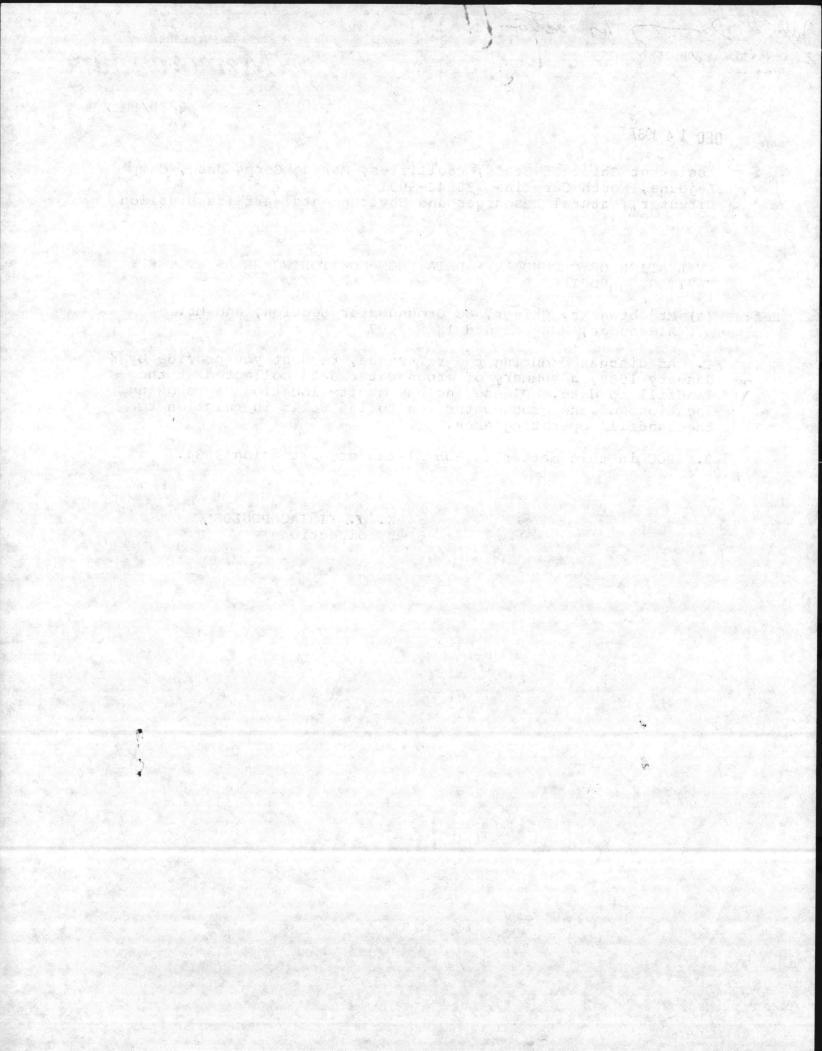
Ref:

(a) Mtg btwn Mr. Shiver, NC Groundwater Section, and Mr. Alexander, MCB Fac dtd 18 Nov 87

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locations of the groundwater monitoring wells in relation to the landfill operating area.

2. POC in this matter is Bob Alexander, extension 3034.

v faulas direction





Industrial & Environmental Analysts, Inc. P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 19, 1988 IEA Report No. 304-17

Mr. Tom Barbee Building No. 1103 Natural Resources & Environmental Affairs Camp LeJuene, NC 28542

Reference: Groundwater Sampling on 12-29-87 and 12-30-87.

, "E.".

Dear Mr. Barbee:

This report is an addendum to the IEA analytical report. Summarized are pH, temperature and specific conductance readings taken in the field. Also enclosed are copies of the "Field Sampling Data Sheets" for groundwater sampling.

	the second state of the second second	A CARLES AND A C	
Well ID	Temperature	рН	Specific Conductance (µhos/cm)
WW-A	16.3	5.31	430
MW-B	16.6	5.37	705
MW-C	15.0	6.14	139
MW-D	14.6	4.77	67
Upstream	10.1	4.19	84
Downstream	9.4	6.35	156

If you have any questions regarding this sampling event please do not hesitate to call.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

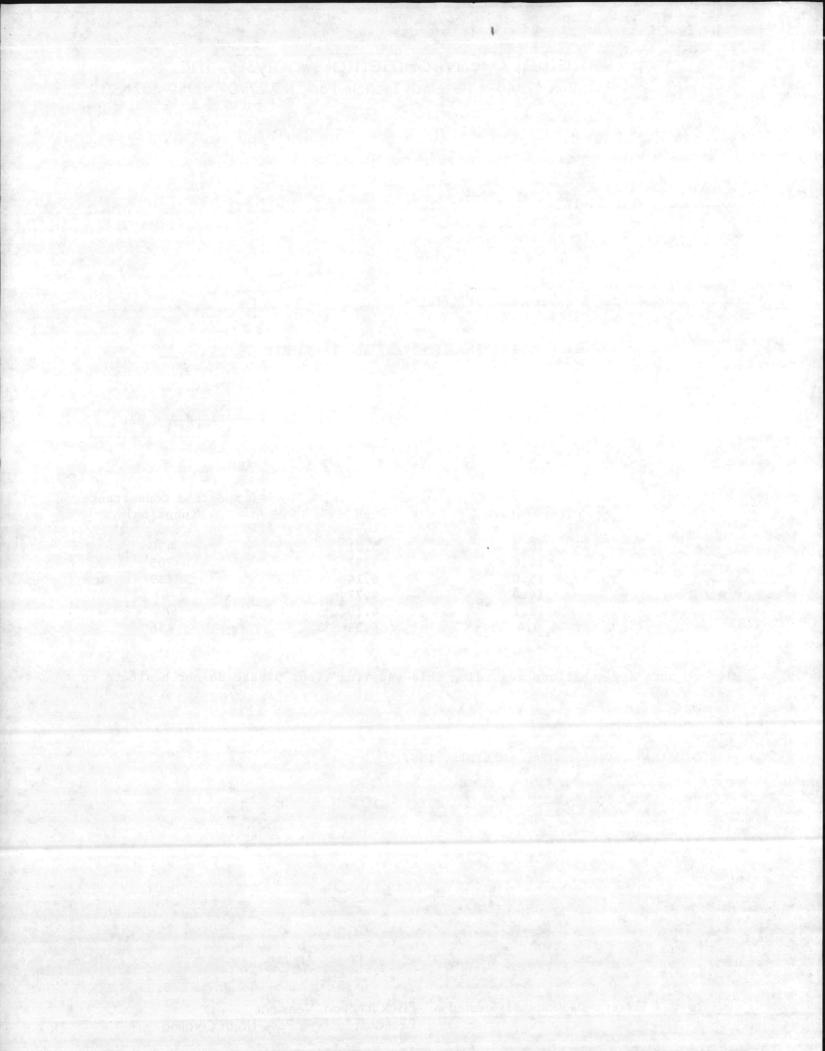
Kegie Rolling

Reggie Cockman Project Engineer

RC/erl

Offices and laboratories located in: Essex Junction, Vermont

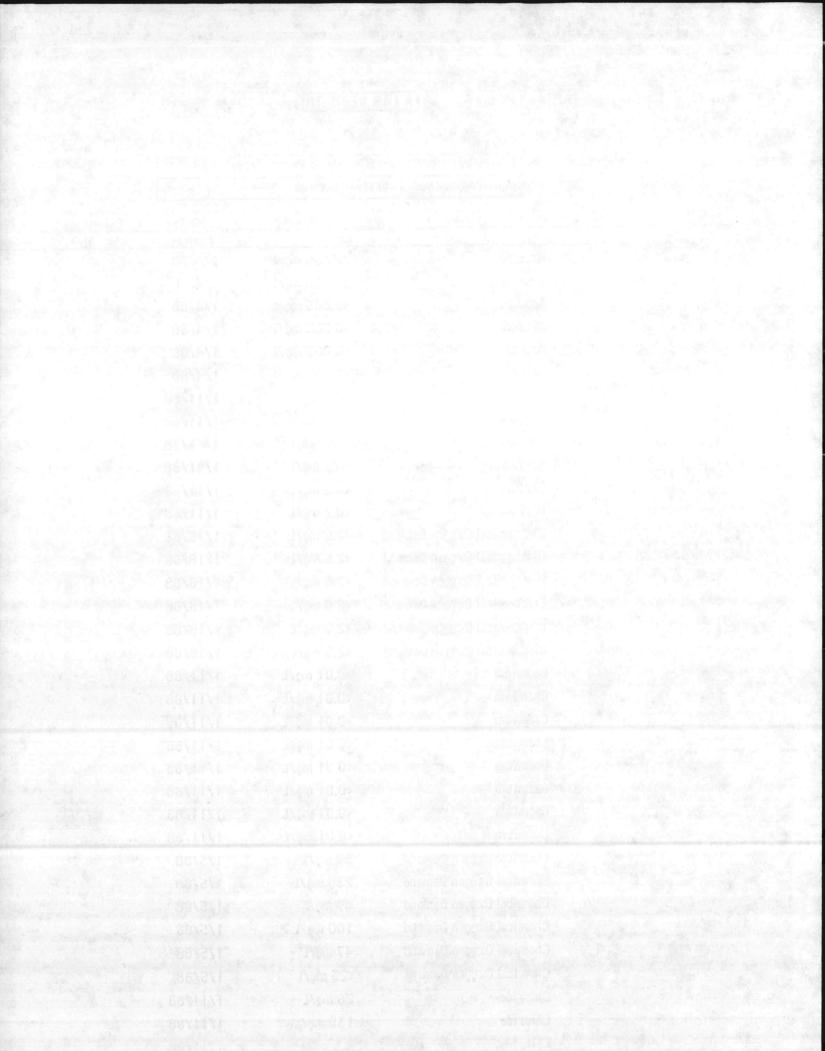
Essex Junction, Vermont Research Triangle Park, North Carolina



IEA LAB RESULTS

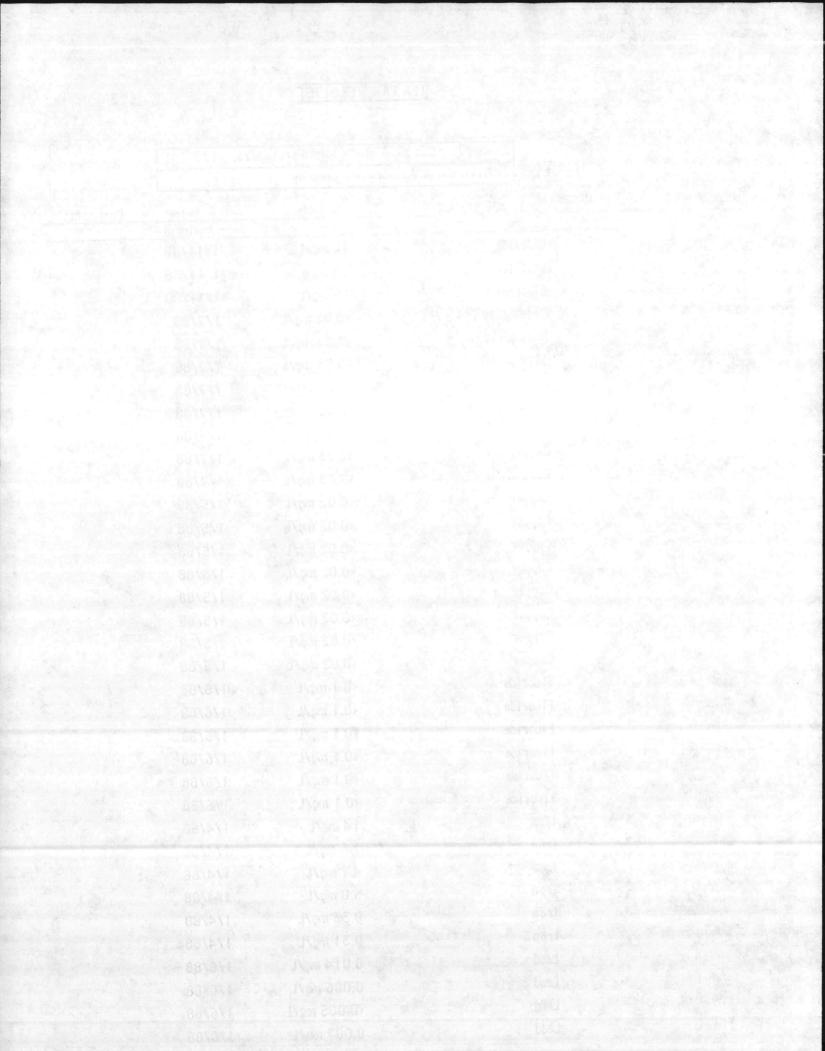
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	ILA LAB KESULIS				
		IEA# 304017 Samples: 8	B Total Parameters:	138	
		Client Name Environ. Chem. & Micro	biol. Section	, and the second of	
<u>Sa</u> #	Sample I.D.	Parameter Studied	Results	Date	Comments
	Mira A		ALL	Analuzed	
1	MW-A	Arsenic	<0.005 mg/L	1/4/88	
2	MW-B	Arsenic	<0.005 mg/L·	1/4/88	y
3	MW-C	Arsenic	<0.005 mg/L	1/4/88	
4	MW-D	Arsenic	<0.005 mg/L	1/4/88	
7	Upstream	Arsenic	<0.005 mg/L	1/4/88	
8	Downstream	Arsenic .	<0.005 mg/L ·	1/4/88	
1	MW-A	Barium	<0.2 mg/L	1/11/88	
2	M₩-B	Barium	<0.2 mg/L	1/11/88	
3	MW-C	Barium	<0.2 mg/L	1/11/88	
4	MW-D	Barium	<0.2 mg/L	1/11/88	
7	Upstream	Barium	<0.2 mg/L	1/11/88	
8	Downstream	Barium	<0.2 mg/L	1/11/88	
1	MW-A	Biochemical Oxygen Demand	<2.0 mg/L	1/18/88	
2	MW-B	Biochemical Oxygen Demand	<2.0 mg/L	1/18/88	
3	MW-C	Biochemical Oxygen Demand	<2.0 mg/L	1/18/88	
4	MW-D	Biochemical Oxygen Demand	<2.0 mg/L	1/18/88	
7	Upstream	Biochemical Oxygen Demand	<2.0 mg/L	1/18/88	
8	Downstream	Biochemical Oxygen Demand	<2.0 mg/L	1/18/88	
1	MW-A	Cadmi um	<0.01 mg/L	1/11/88	
2	MW-B	Cadmium	<0.01 mg/L	1/11/88	and a second second second
3	MW-C	Cadmium	<0.01 mg/L	1/11/88	
4	MW-D	Cadmium	<0.01 mg/L	1/11/88	
5	Sewage DI	Cadmium	<0.01 mg/L	1/11/88	
6	Drnkng, H20 DI	Cadmium	<0.01 mg/L	1/11/88	
7	Upstream	Cadmium	<0.01 mg/L	1/11/88	
8	Downstream	Cadmium	<0.01 mg/L	1/11/88	
1	MW-A	Chemical Oxygen Demand	57 mg/L	1/5/88	
2	MW-B	Chemical Oxygen Demand	230 mg/L	1/5/88	
3	MW-C	Chemical Oxygen Demand	49 mg/L	1/5/88	
4	MW-D	Chemical Oxygen Demand	100 mg/L	1/5/88	
7	Upstream	Chemical Oxygen Demand	47 mg/L	1/5/88	
8	Downstream	Chemical Oxygen Demand	<25 mg/L		
1	MW-A	Chloride		1/5/88	
2	MW-B	Chloride	26 mg/L	1/11/88	
3	MW-C	Chloride	130 mg/L	1/11/88	the second
947	CAN A CONTRACT	Linuriue	8.3 ma/L	1/11/88	and the states and



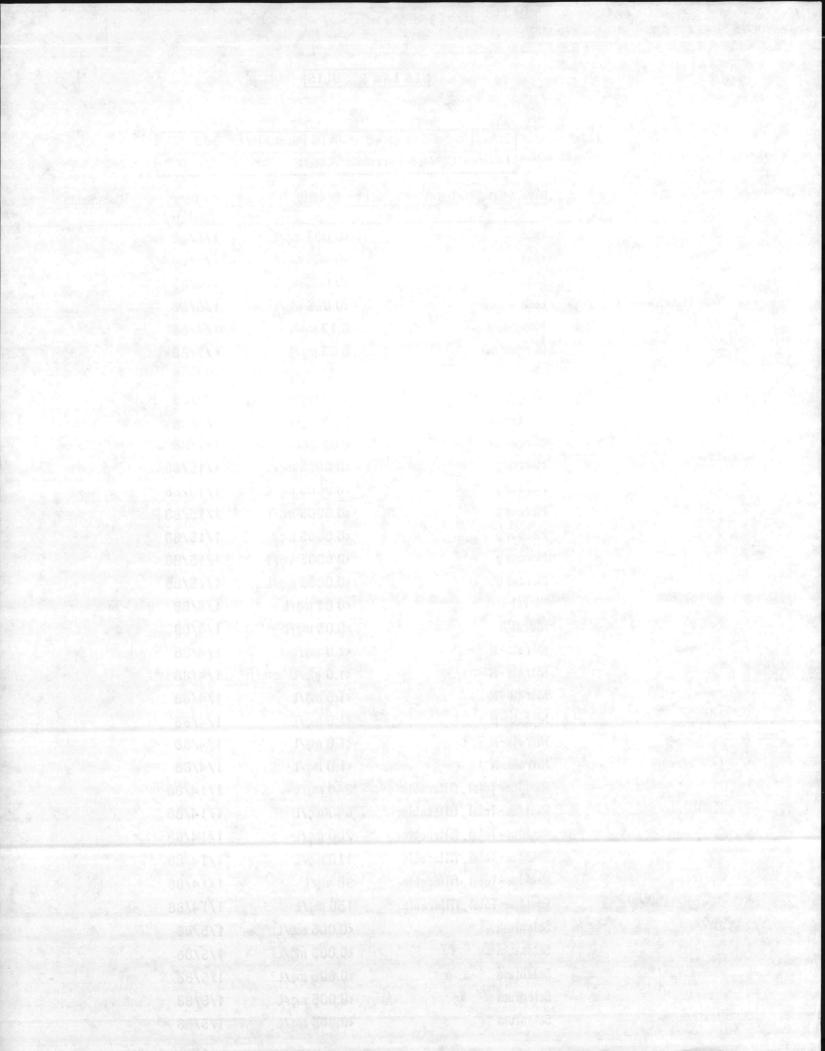
IEA LAB RESULTS

		IEA# 304017 Sem			
		Client Name Environ. Chem. &	k Microbiol. Section	licrobiol. Section	
<u>Se</u> #	Semple I.D.	Parameter Studied	Results	Date	Comments
4	MW-D	Chloride	12	Analuzed	
7	Upstream .	Chloride	12 mg/L	1/11/88	
8	Downstream	Chloride	14 mg/L	1/11/88	
1	MW-A	Chromium	15 mg/L *	1/11/88	
2	MW-B	Chromium	<0.03 mg/L	1/7/88	
3	MW-C	Chromium	<0.03 mg/L	1/7/88	
4	MW-D	Chromium	<0.03 mg/L	1/7/88	
5	Sewage DI	Chromium	<0.03 mg/L	1/7/88	
6	Drnkng, H20 DI	Chromium	<0.03 mg/L	1/7/88	
7	Upstream	Chromium	<0.03 mg/L	1/7/88	
8	Downstream	Chromium	<0.03 mg/L	1/7/88	
1	MW-A	Copper	<0.03 mg/L	1/7/88	
2	MW-B	Copper	<0.02 mg/L	1/5/88	
3	MW-C	Copper	<0.02 mg/L	1/5/88	•
4	MW-D	Copper	<0.02 mg/L	1/5/88	
5	Sewage DI	Copper	<0.02 mg/L	1/5/88	
6	Drnkng. H20 DI	Copper	<0.02 mg/L	1/5/88	
7	Upstream	Copper	<0.02 mg/L	1/5/88	
8	Downstream		<0.02 mg/L	1/5/88	
1	MW-A	Copper Fluoride	<0.02 mg/L	1/5/88	
2	MW-B	Fluoride	<0.1 mg/L	1/6/88	11:11-3
3	MW-C		<0.1 mg/L	1/6/88	
4	MW-D	Fluoride	<0.1 mg/L	1/6/88	
7	Upstream	Fluoride Fluoride	<0.1 mg/L	1/6/88	
8	Downstream		<0.1 mg/L	1/6/88	
1	MW-A	Fluoride	<0.1 mg/L	1/6/88	
2	MW-B	Iron	14 mg/L	1/4/88	
	MW-C	Iron	1.6 mg/L	1/4/88	
	MW-D	Iron	4.1 mg/L	1/4/88	
	Upstream	Iron	5.0 mg/L	1/4/88	
	Downstream	Iron	0.33 mg/L	1/4/88	
	MW-A	Iron	0.31 mg/L	1/4/88	
	MW-B	Lead	0.014 mg/L	1/6/88	
	MW-C	Lead	0.006 mg/L	1/6/88	
	MW-D	Lead	<0.005 mg/L	1/6/88	
•	U	Lead	0.007 ma/L	1/6/88	C. Martines:

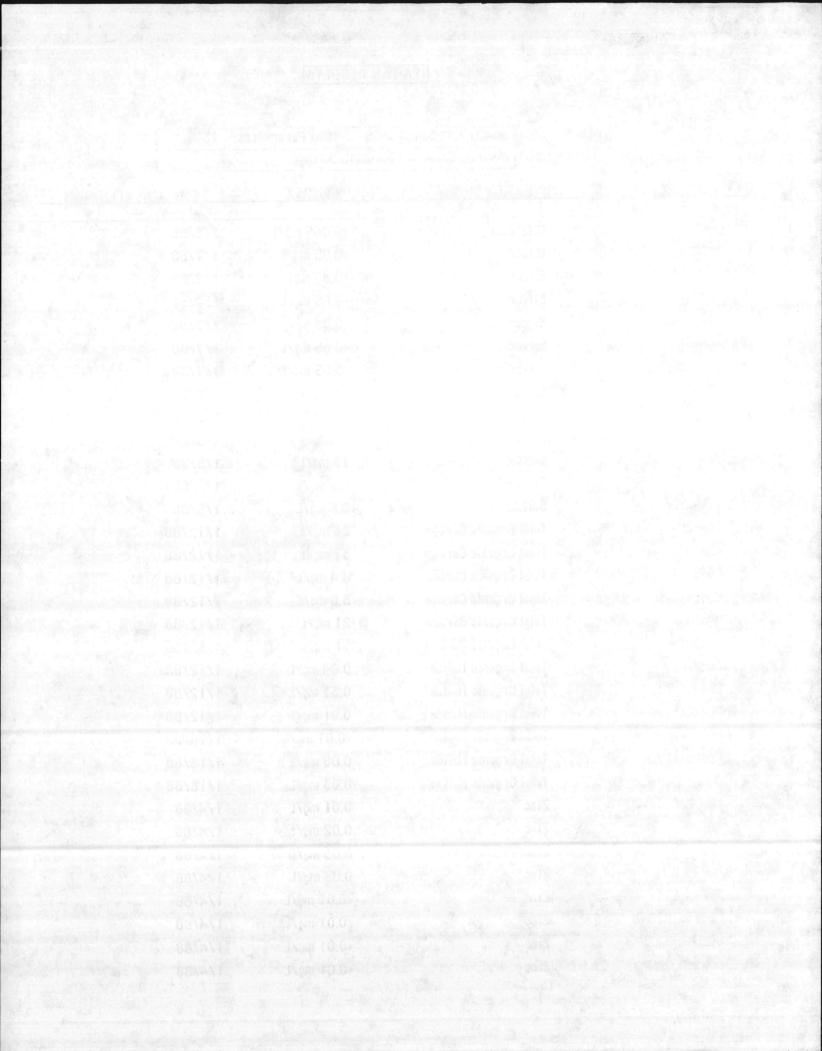


		IEA# 304017 Samples	: 8 Total Parameters:	138	
		Client Name Environ. Chem. & Mi	crobiol. Section		
Sa#	Sample I.D.	Parameter Studied	Results	Dete	Comments
				Analuzed	
5	Sewage DI	Lead	<0.005 mg/L	1/6/88	
6	Drnkng, H20 DI	Lead	<0.005 mg/L	1/6/88	
7	Upstream	Lead	<0.005 mg/L·	1/6/88	
8	Downstream	Lead ·	<0.005 mg/L	1/6/88	
1	MW-A	Manganese	0.17 mg/L	1/7/88	
2	MW-B	Manganese	0.03 mg/L	1/7/88	Contraction of
3	MW-C	Manganese .	0.02 mg/L ·	1/7/88	
4	MW-D	Manganese	0.03 mg/L	1/7/88	
7	Upstream	Manganese ·	0.02 mg/L	1/7/88	
8	Downstream	Manganese	0.01 mg/L	1/7/88	
1	MW-A	Mercury	<0.0005 mg/L	1/15/88	
2	MW-B	Mercury	<0.0005 mg/L	1/15/88	
3	MW-C	Mercury	<0.0005 mg/L	1/15/88	
4	MW-D	Mercury	<0.0005 mg/L	1/15/88	
7	Upstream	Mercury	<0.0005 mg/L	1/15/88	
8	Downstream	Mercury	<0.0005 mg/L	1/15/88	
5	Sewage DI	Nickel	<0.03 mg/L	1/4/88	
6	Drnkng, H20 DI	Nickel	<0.03 mg/L	1/4/88	
1	MW-A	Nitrate-N	<1.0 mg/L	1/4/88	
2	MW-B	Nitrate-N	<1.0 mg/L	1/4/88	
3	MW-C	Nitrate-N	<1.0 mg/L	1/4/88	
4	MW-D	Nitrate-N	<1.0 mg/L	1/4/88	
7	Upstream	Nitrate-N	<1.0 mg/L	1/4/88	
8	Downstream	Nitrate-N	<1.0 mg/L	1/4/88	A. C. Sandara and
1	MW-A	Residue-Total, filterable	240 mg/L	1/14/88	
2	MW-B	Residue-Total, filterable	640 mg/L	1/14/88	
3	MW-C	Residue-Total, filterable	200 mg/L	1/14/88	
4	MW-D	Residue-Total, filterable	110 mg/L	1/14/88	
7	Upstream	Residue-Total, filterable	98 mg/L	1/14/88	
8	Downstream	Residue-Total, filterable	130 mg/L	1/14/88	
1	MW-A	Selenium	<0.005 mg/L	1/5/88	
2	MW-B	Selenium	<0.005 mg/L	1/5/88	
3	MW-C	Selenium	<0.005 mg/L	1/5/88	
4	MW-D	Selenium	<0.005 mg/L	1/5/88	
7	Upstream	Selenium	<0.005 mg/L	1/5/88	

IEA LAB RESULTS



		IEA LA	AB RESULTS		
		IEA# 304017 Samples	: 8 Total Parameter	s: 138	
		Client Name Environ. Chem. & Mi	and the share which will be a start of the second start of the sec		
	Comple I D				
	Semple I.D.	Perameter Studied	Results	Date	Comments
8	Downstream	Selenium	<0.005 mg/L	Aneluzed 1/5/88	
1	MW-A	Silver	<0.05 mg/L	1/7/88	
2	М₩-В	Silver	<0.05 mg/L	1/7/88	
3	MW-C	Silver	<0.05 mg/L	1/7/88	
4	MW-D	Silver	<0.05 mg/L	1/7/88	
7	Upstream	Silver	<0.05 mg/L	1/7/88	
8	Downstream	Silver	<0.05 mg/L	1/7/88	
1	MW-A	Sulfate	41 mg/L	1/5/88	
2	MW-B	Sulfate	20 mg/L	1/5/88	
3	MW-C	Sulfate	10 mg/L	1/5/88	
4	MW-D	Sulfate	13 mg/L	1/5/88	
7	Upstream	Sulfate	4.9 mg/L	1/5/88	
3	Downstream	Sulfate	8.8 mg/L	1/5/88	
	MW-A	Total Organic Carbon	26 mg/L	1/12/88	
2	MW-B	Total Organic Carbon	37 mg/L	1/12/88	
	MW-C	Total Organic Carbon	8.4 mg/L	1/12/88	
1	MW-D	Total Organic Carbon	3.0 mg/L	1/12/88	
•	Upstream	Total Organic Carbon	21 mg/L	1/12/88	
	Downstream	Total Organic Carbon	11 mg/L	1/12/88	
	MW-A	Total Organic Halide	0.04 mg/L	1/12/88	
	MW-B	Total Organic Halide	0.37 mg/L	1/12/88	-
5	MW-C	Total Organic Halide	0.01 mg/L	1/12/88	
1	MW-D	Total Organic Halide	<0.01 mg/L	1/18/88	
•	Upstream	Total Organic Halide	0.08 mg/L	1/18/88	
1	Downstream	Total Organic Halide	0.03 mg/L	1/18/88	
	MW-A	Zinc	0.01 mg/L	1/4/88	
	MW-B	Zinc	0.02 mg/L	1/4/88	
	MW-C	Zinc	0.03 mg/L	1/4/88	•
	MW-D	Zinc	0.03 mg/L	1/4/88	
	Sewage DI	Zinc	<0.01 mg/L	1/4/88	
	Drnkng. H20 DI	Zinc	<0.01 mg/L	1/4/88	
	Upstream	Zinc	<0.01 mg/L	1/4/88	
3	Downstream	Zinc	<0.01 mg/L	1/4/88	

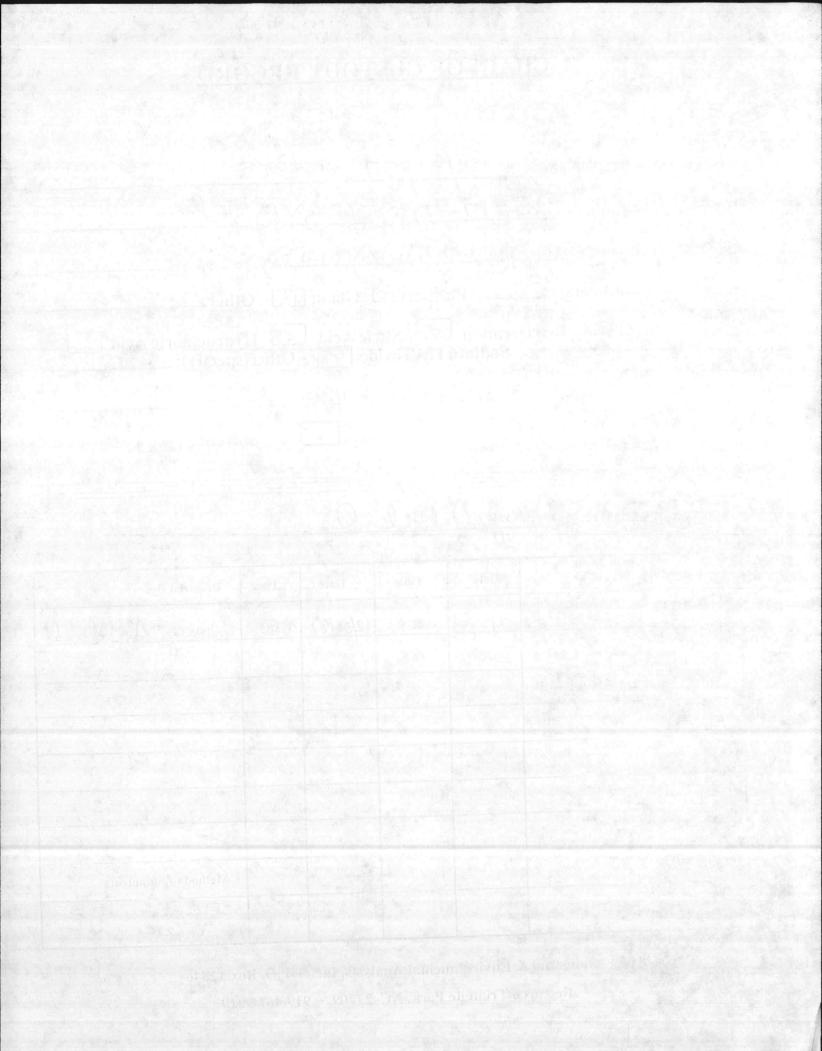




CHAIN OF CUSTODY RECORD

Date and Time Received:	12/	31/8	7	ଝଚତ	
IEA Sample Number: 3				26)	
Client ID Number: (MW-	A) (MAN -	A (mw-	C)(mu	1-10	
Number of Containers: 3	a Pla	astic: 20	Glass:		ther:
Preservation (check): Refri	geration [ric Acid ide 🦳		vdrachlaria Asid
Total Volume of Sample:		1997 P	جرزاني		
Sample Type: Soil			ater 🔽	Y :	olvent
Received at Lab by:	ry Di	llela	nQ	-	
Relinquished By:	Date	Time	Date	Time	Received By:
Reggie Cocking	12/30/87	800	12/30/87	500	Dary Dieleland
Dispatched By:					Method of Shipment:
					JEA: TRUCK

Industrial & Environmental Analysts, Inc. • P.O. Box 12846 Research Triangle Park, NC 27709 • 919-467-9919



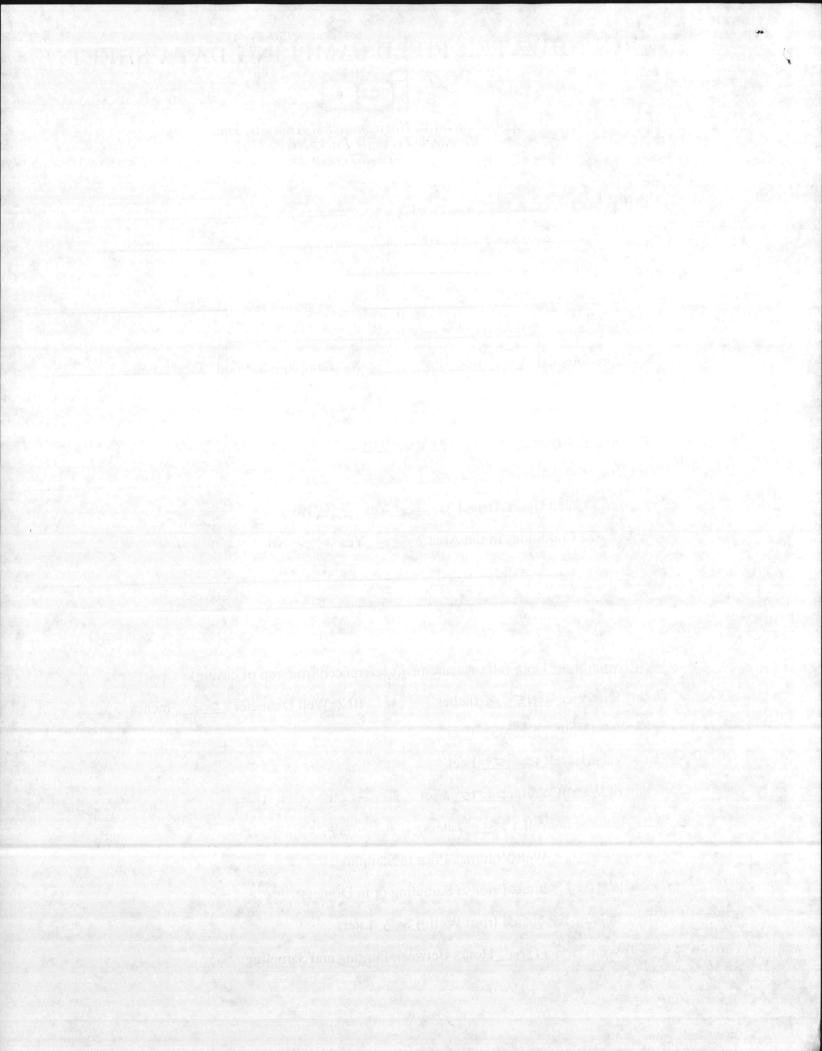


Industrial & Environmental Analysts, Inc. Research Triangle Park, NC 27709 919-467-9919

Location JACK SON VILLE N.C.
Date 12/29/87
Well ID 5. Sequence No
Sampler's Name REGGIE COCKMAN
Evacuation Method EALER 8. Sampling Method BALLER
Field Observations & Sampling Conditions
Weather & Temperature FAIR, COLD - 20°F
Was Well Locked Upon Arrival ?YesNo
Any Unusual Conditions in the Area?YesNo
Explanation

10. Well Evacuation Data (all measurements referenced from top of casing)

- 10.1 Casing Diameter <u>4.5</u> Inches 10.2 Well Diameter <u>2.0</u> Inches
- 10.3 Total Well Depth <u>33.90</u> Feet
- 10.4 Static Water Level 12.15 Feet
- 10.5 Height of Water Column 21.75 Feet
- 10.6 Water Volume in Well 13.4 Liters
- 10.7 Evacuate <u>3</u> Well Volumes Prior to Sampling
- 10.8 Evacuate <u>40.3</u> Liters Prior to Sampling or to Dryness
- 10.9 Actual Volume Evacuated from Well <u>43.3</u> Liters
- 10.10 If Well Went Dry, H/A Hours Between Purging and Sampling.



11.

Well Sampling Data

11.1 Use BALLEP For Extracting Sample 11.2 Parameter Type of Bottle Preservative Sample Recipient (mtl. & size) RCRA metals + CU, FE, MN. 7.H 500.ml HNO3 plastic TEA FT. 504 500ml plastic Noz COD 500ml plastic Hasoy 12 plastic BOD -TDS. TOX 12 plastic 11.3 Sample Appearance (e.g. clear, muddy, turbid) slightly turbid Samples Placed on Ice Immediately After Collection 11.4 11.5 Date and Time Sample Extracted ______

12. **Field Analyses**

Parameter Std. Used Sample Reading of Std. For Calibration Reading After Sample Temperature 14.6 pH 7.00 4.77 7.01 Specific Conductance 13! 67 130

1440

13. Well Secured With Lock After Sampling? ____ Yes ____ No

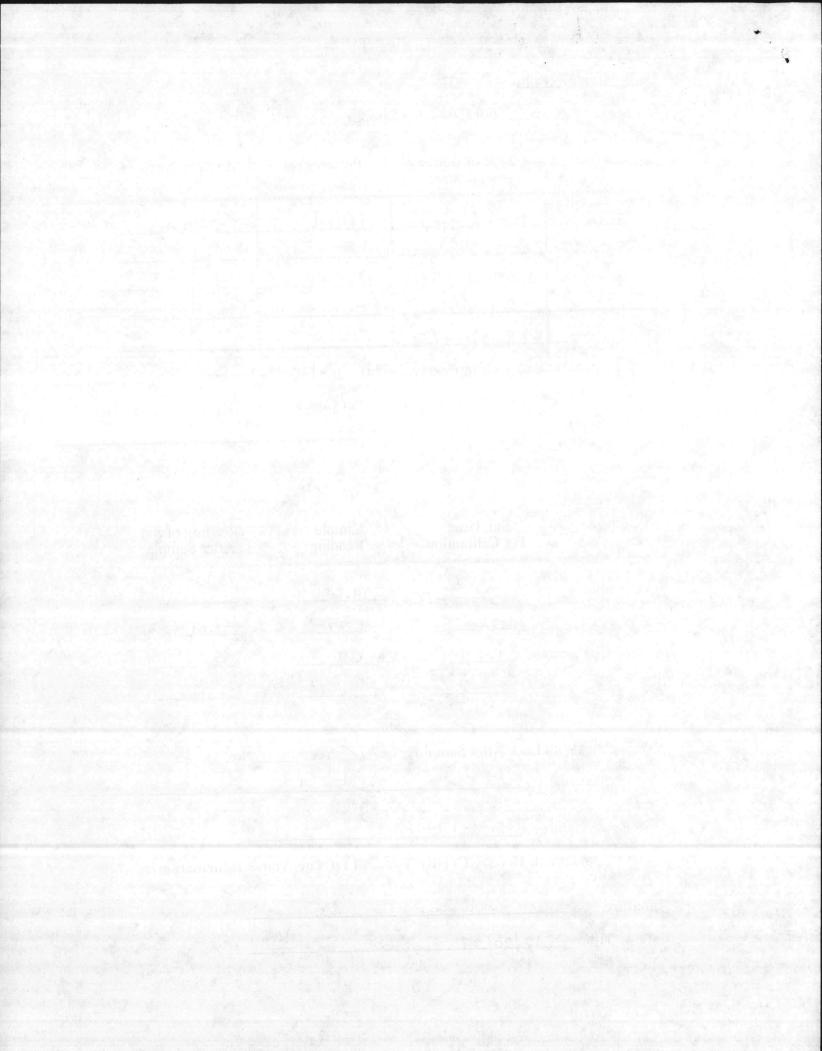
If No, Explanation

14. IEA Sample Number 304-17-4

I, The Undersigned, Hereby Certify That All Of The Above Information 15. Is Accurate.

Signature Peggie lock me

Date & Time 12/30/87 1600





Industrial & Environmental Analysts, Inc. Research Triangle Park, NC 27709 919-467-9919

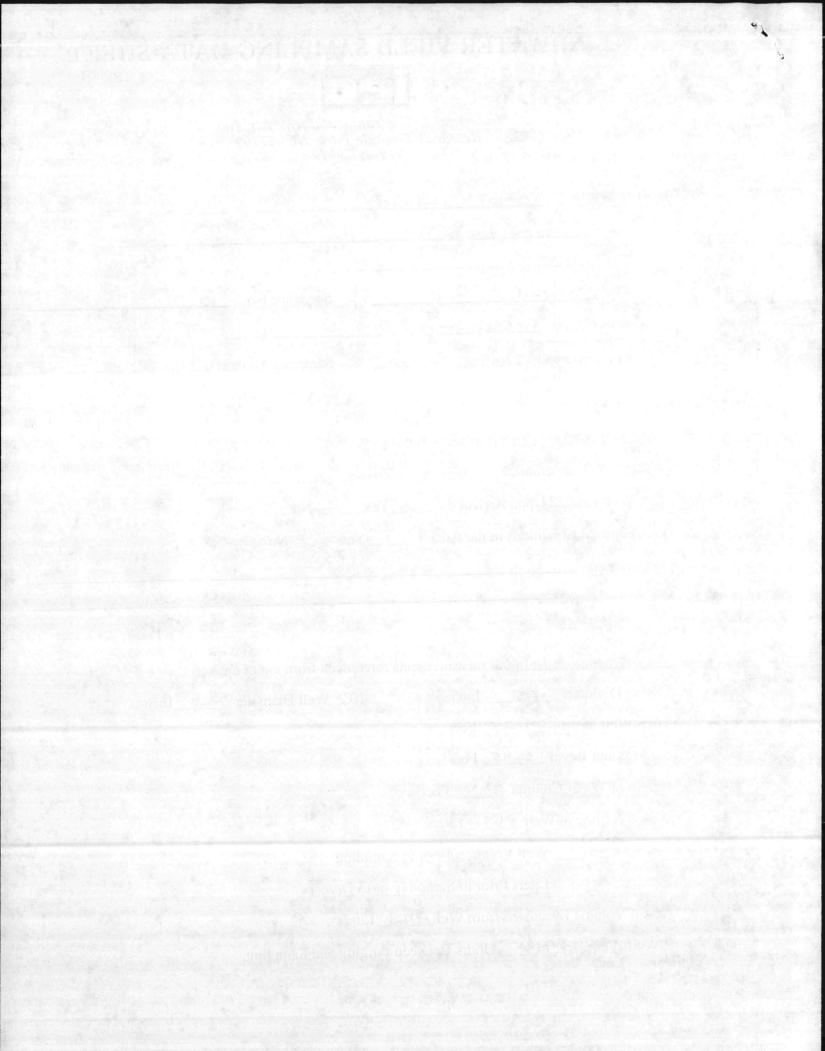
1.	Client Name CAMP LEJUNE
2.	Location JACKSON VILLE, H.C.
3.	Date 12/30/47
4.	Well ID <u>MW-C</u> 5. Sequence No. <u>4</u>
6.	Sampler's Name RELGIE COCKMAN
7.	Evacuation Method BAILER 8. Sampling Method BAILER
9.	Field Observations & Sampling Conditions
9.1	Weather & Temperature COLD WINDY
9.2	Was Well Locked Upon Arrival ?YesNo
9.3	Any Unusual Conditions in the Area?YesNo
	Explanation

10. <u>Well Evacuation Data</u> (all measurements referenced from top of casing)

10.1 Casing Diameter <u>H.5</u> Inches

10.2 Well Diameter 2.0 Inches

- 10.3 Total Well Depth 29.25 Feet
- 10.4 Static Water Level <u>5.45</u> Feet
- 10.5 Height of Water Column 23. 90 Feet
- 10.6 Water Volume in Well 14.7 Liters
- 10.7 Evacuate <u>3</u> Well Volumes Prior to Sampling
- 10.8 Evacuate <u>44.1</u> Liters Prior to Sampling or to Dryness
- 10.9 Actual Volume Evacuated from Well <u>17.1</u> Liters
- 10.10 If Well Went Dry, <u>H/A</u> Hours Between Purging and Sampling.



1.	Well Sampling	Data	· · · · · · · · · · · · · · · · · · ·	
1.1	Use BALER	For Extracting S	ample	
.2	Parameter	Type of Bottle	Preservative	Sample Recipient
+	RCRA metals Cu, Fe, Mr, 7.H	500 ml plastic		
	C1. F1, 504	SOOml plastic		
. 12	MO3, COD	500ml plastic	Hadoy	
	BOD.	12 plastic		
	TDS, TOX	12 plastic	-	
	Sample Appearance	e (e.g. clear, muddy, tur	bid)i	1 turbid
		laced on Ice Immediatel	Contraction of the second se	
		nple Extracted		200
	Field Analyses			

Parameter	Std. Used For Calibration	Sample Reading	Reading of Std. After Sample
		000000000000000000000000000000000000000	000000000000000000000000000000000000000
Temperature		15.0	
pH *	7.00	6.14	7.01
Specific Conductance	e <u>131</u>	139	130

15.	Well Secured With Lock After Sampling ?	1	Yes	No
	If No, Explanation			

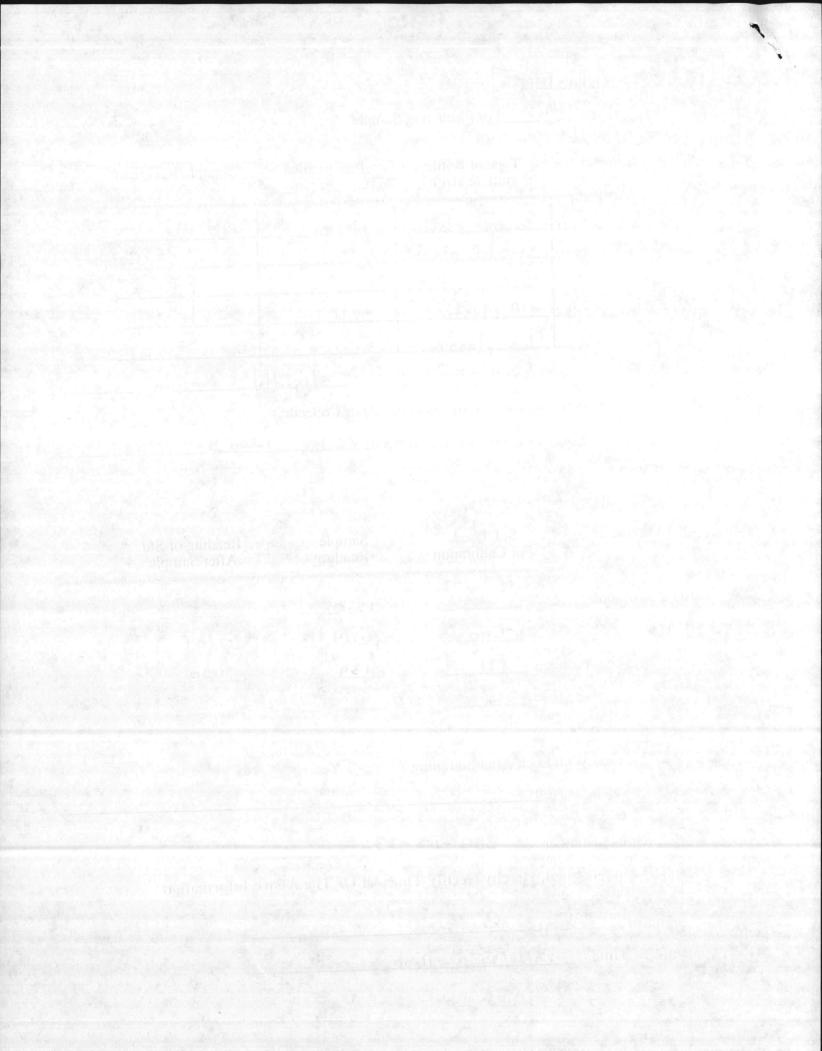
I, The Undersigned, Hereby Certify That All Of The Above Information Is Accurate.

Signature Requie Contract

Date & Time 12/30/ 17

15.

\$7 1600





Industrial & Environmental Analysts, Inc. Research Triangle Park, NC 27709 919-467-9919

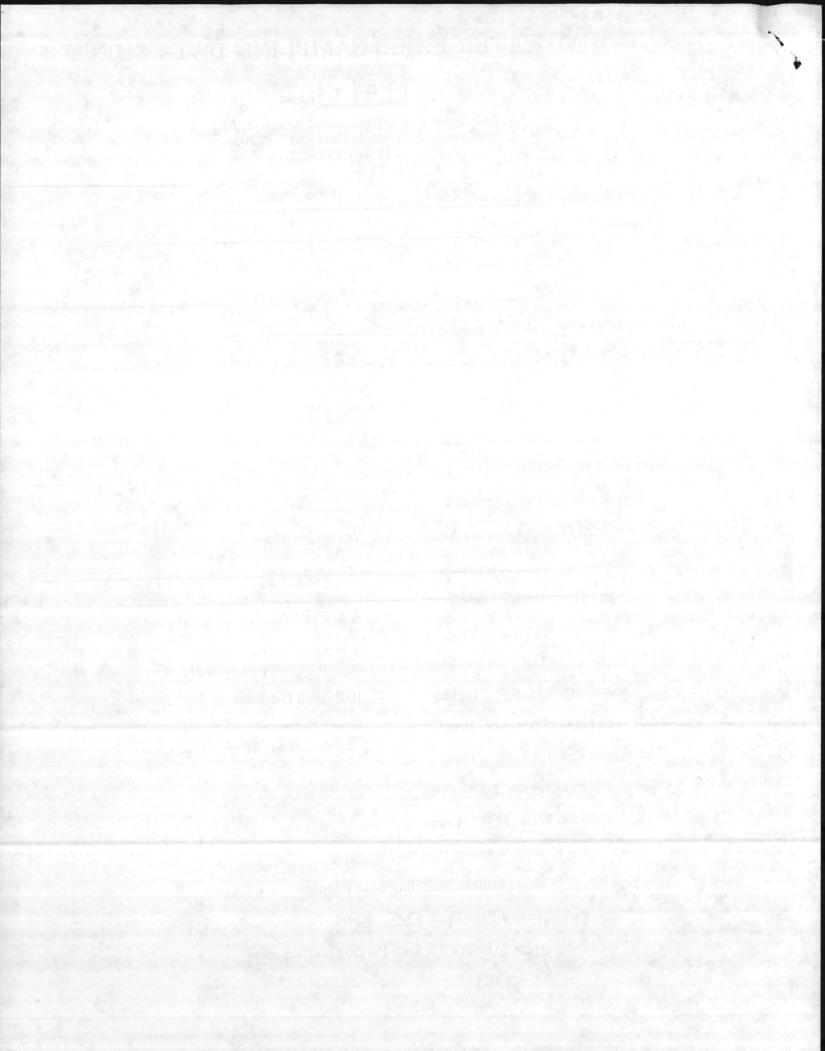
Client Name CAMP LEJUNE
Location JACKSONVILLE, N.C.
Date 12/20/87
Well ID <u>MW-B</u> 5. Sequence No. <u>3</u>
Sampler's Name RELGIE COLEMAN
Evacuation Method BALLER 8. Sampling Method BALLER
Field Observations & Sampling Conditions
Weather & Temperature
Was Well Locked Upon Arrival ?YesNo
Any Unusual Conditions in the Area ?YesNo
Explanation

10. Well Evacuation Data (all measurements referenced from top of casing)

10.1 Casing Diameter <u>4.5</u> Inches

10.2 Well Diameter 2. c. Inches

- 10.3 Total Well Depth 24.00 Feet
- 10.4 Static Water Level 14.35 Feet
- 10.5 Height of Water Column 5.65 Feet
- 10.6 Water Volume in Well <u>3.5</u> Liters
- 10.7 Evacuate ______ Well Volumes Prior to Sampling
- 10.8 Evacuate 10.5 Liters Prior to Sampling or to Dryness
- 10.9 Actual Volume Evacuated from Well 13.5 Liters
- 10.10 If Well Went Dry, MA Hours Between Purging and Sampling.



11.	Well Sampling Data		
11.1	Use Bencer For Ex	tracting Sample	
11.2	Parameter Type of B (mtl. & s	ottle Preservative	Sample Recipient
	+ CU, FC, MH, 7.H SOO'ML P	lastic HNO3	<u>エ</u> E A
	CI. FI, SUY SOOML	plastic -	
	NO3, COD SDOML	plastic H2504	
	BOD 12 plast	ie -	
	TDS, TOX 12 plas	tie -	
11.3	Sample Appearance (e.g. clear, n	nuddy, turbid)	1
11.4	Samples Placed on Ice In		
11.5	Date and Time Samuels F.		

11.5 Date and Time Sample Extracted 12/30/47 1040

Field Analyses

12.

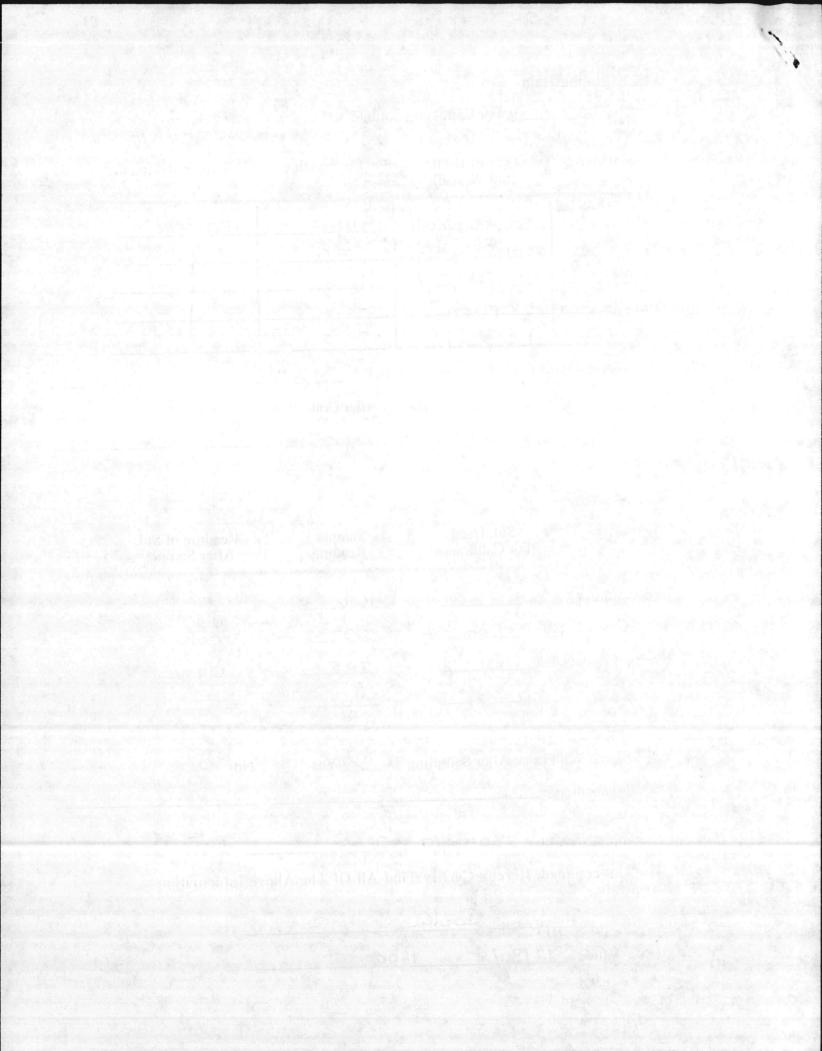
Parameter	Std. Used For Calibration	Sample Reading	Reading of Std. After Sample
Temperature		16.6	
pH	7.00	5.37	7.00
Specific Conductance	e <u>131</u>	705	
	· · · · ·		
and the			

13.	Well Secured With Lock After Sampling ? Yes No
	If No, Explanation
14.	IEA Sample Number
15.	I. The Undersigned Hereby Cortify That All Of the Astronomy

I, The Undersigned, Hereby Certify That All Of The Above Information Is Accurate.

Signature Recque lock

Date & Time 12/30/47 1600



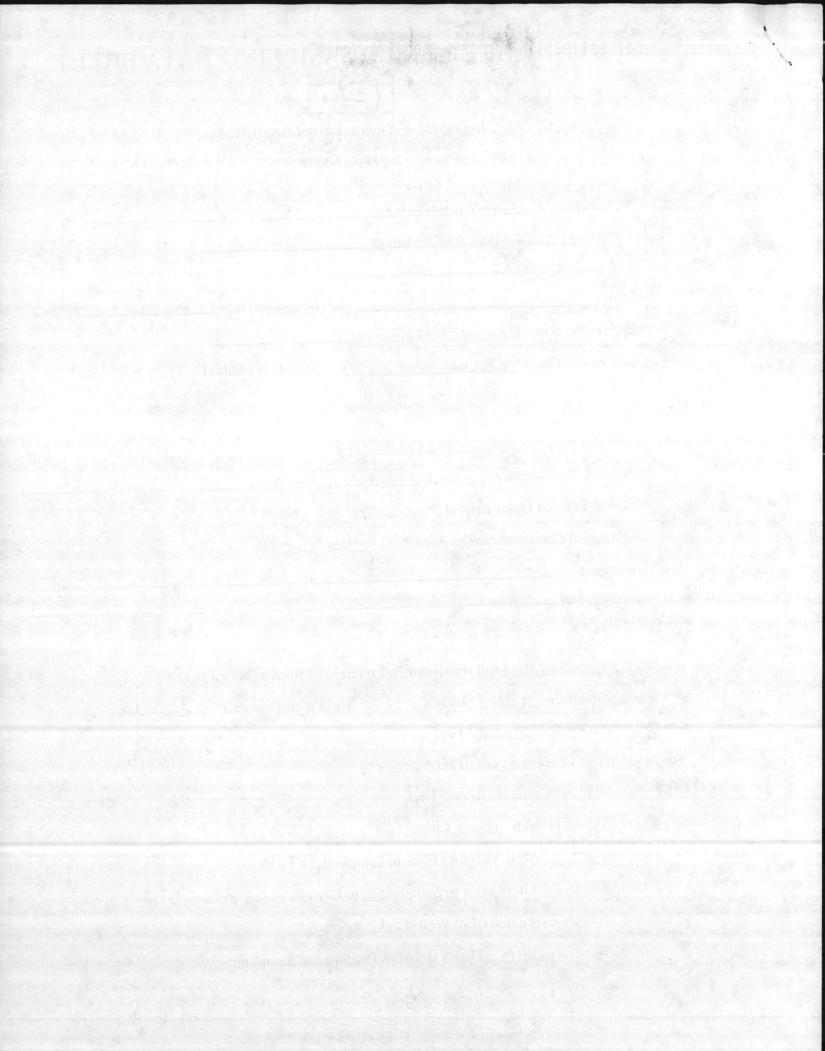


Industrial & Environmental Analysts, Inc. Research Triangle Park, NC 27709 919-467-9919

Location Jacksonvale.	N.C.
Date 12/29/87	
	5. Sequence No
Sampler's Name Reggie Co.	NAMES IN THE REPORT OF A DESCRIPTION OF A
	8. Sampling Method <u>BANKER</u>
Field Observations & Sampling	Conditions
Weather & Temperature	WINDY COLD
Was Well Locked Upon Arrival ?	
Any Unusual Conditions in the Area	
Explanation	

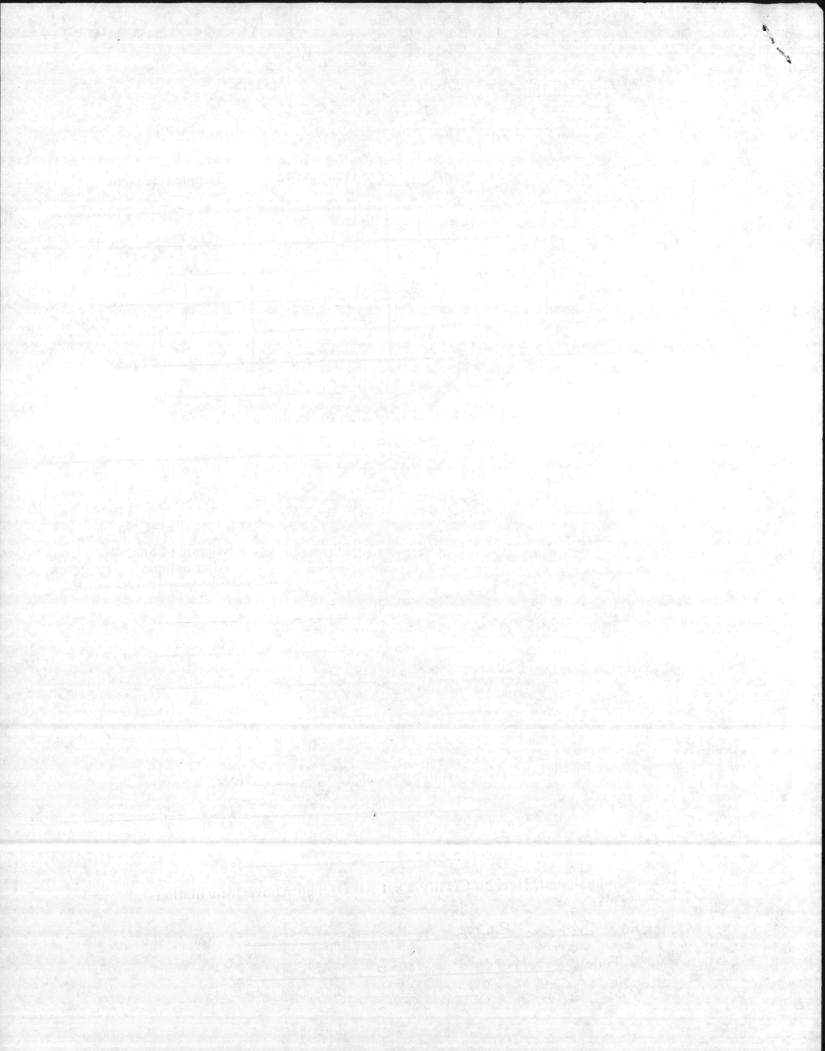
10. Well Evacuation Data (all measurements referenced from top of casing)

- 10.1 Casing Diameter <u>4.5</u> Inches 10.2 Well Diameter <u>2.0</u> Inches
- 10.3 Total Well Depth .26.25 Feet
- 10.4 Static Water Level 10.00 Feet
- 10.5 Height of Water Column 16.25 Feet
- 10.6 Water Volume in Well 10.03 Liters
- 10.7 Evacuate <u>3</u> Well Volumes Prior to Sampling
- 10.8 Evacuate <u>30.1</u> Liters Prior to Sampling or to Dryness
- 10.9 Actual Volume Evacuated from Well <u>33.1</u> Liters
- 10.10 If Well Went Dry, MA Hours Between Purging and Sampling.

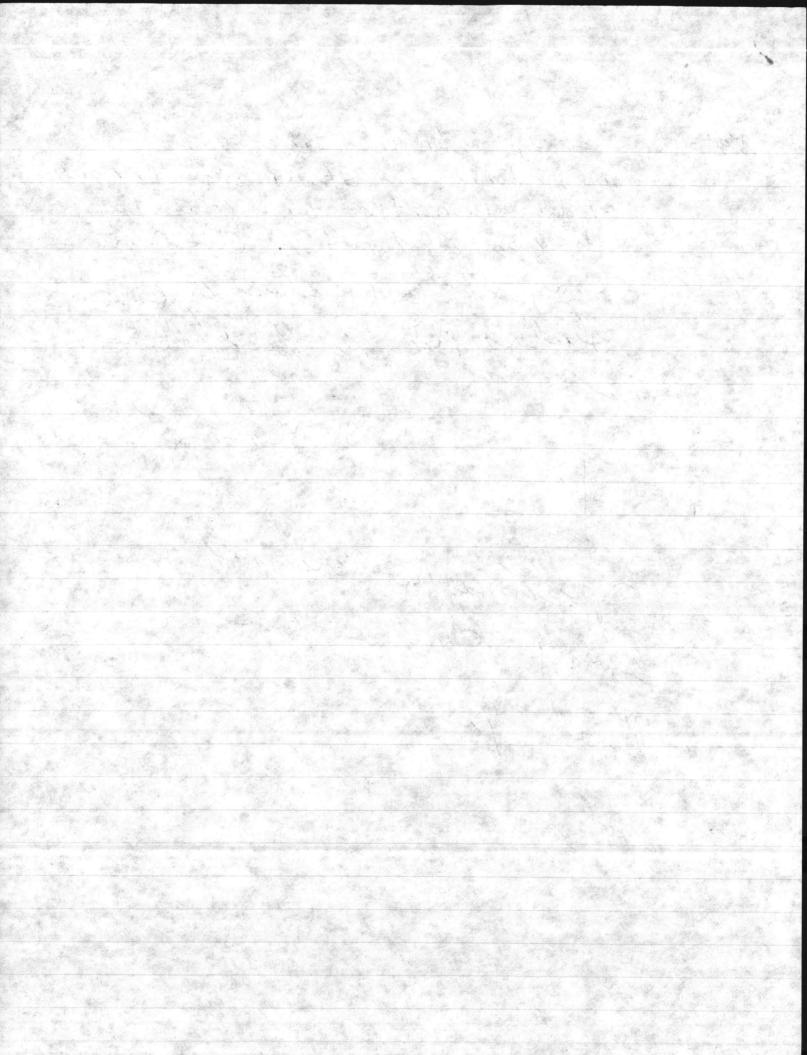


	ALL CONTRACTOR			
" Well	Sampling Da	<u>uta</u>		
()	ALR	Por Extracting	Sample	
Par	ameter	Typerof Bonic (mill & size)	Prescryative	Sample Recipier
ACRA + CU. F	mitals	Soo me placen		
C1" F	A HANGER	Solomi- o gen	2 Martin Charles and the second second	<u> </u>
Noz	West States and States	SDOML plat	We Man Station The state of the second	
BOD		2 plastic		
TDS	TPX	1.8 -1	n a standard an anna an anna an anna an anna an anna an an	
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	a mic Sam	ीत्मद्यपालावाट्यः		1640
Field A	nalyses			
Paran	Neter	Std-Used For Calibration	Sample Randing	Reading of Std. After Sample
Tempera	fure			***************************************
pH		7.00	- Children	
	Conductance			<u> </u>
-1			4180	
1		学習が必要なななない。 おうやく しきぶつ いちょうしん ちょうよ		
	1.4	a an		•••••• ••••
Wall S				•
The second s		ock After Sampling	Yes	No
The second s	ured With La	선생님께는 여러 집에 가지 않는 것이 같은 것이 같이 많이 많이 많이 있다.	i ics	No
If No, Ex	planation			No
If No, Ex IEA Sam	planation	선생님께는 여러 집에 가지 않는 것이 같은 것이 같이 많이 많이 많이 있다.		
If No, Ex IEA Sam I, The U Is Accur	planation ple Number ndersigned, ate.			

Sec.



Betsy: Get up with Don Garganus And advise on states of VArious Sludges currently stored ana.t. Copy of the procedure for testers Sluders prior to landfilling. Lanny Specifically Concerned about Sludges from Burn Pet



NAV 5216/144A (Rev. 8-81) 0107-LE-052-2320

Betz for Action DEPARTMENT OF THE NAVY

Memorandum 11345 MAIN

25 Mar 88 DATE:

Base Maintenance Officer, Marine Corps Base, Camp Lejeune FROM:

DOS

Director, Natural Resources and Environmental Affairs Division TO:

- DISPOSAL OF SLUDGE AND CATALYST SUBJ:
- (a) PHONCON btwn Danny Sharpe ((NREAD) and Carl Baker (MAIN) on Ref: 25 Mar 88

As discussed in the reference, guidance is requested on 1. proper disposal of sludge removed from drying beds at the wastewater treatment facilities and catalyst removed from spiractors at water treatment facilities. Currently, sludge and catalyst are being taken to the Base Sanitary Landfill for stockpiling and disposal, and clarification is needed to incorporate proper procedures and locations in a service contract to accomplish the work.

C. H. Baka

C. H. BAKER By direction



85 NEM 25

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Base Maintesanne Ofricht, Gerrae Corps Male, Camp Dejense

Director, Natural Resources and Environmental Affairs Division

DITROCAL OF SLUDGE AND CATALYST

Ref: (d) PHONDON brea Doury Spreys ((NPEDD) and Carl Baker (HAIN) On 25 Mar 88

1. An discussed in the reference, guidance is reducited on proper discosal on sludge removed item drying bads at the wastowared treatmont factilities and ustalyst removed true spirattors at water iteatrent factilities. Currently, sludge and t islyse are being taken in the Sear similary bandfull for scoopiling and dispessly and clarification is needed to incorporate renewark, the device an following to a second the spirate proper real devices and teatification is needed to incorporate prist the work.

> C. H. BAKER PV diraction

TO: Bet 2: 2 addressed this to you last oping 2 2 ARINE CORPS Please full paper work and lets descuss along **UNITED STATES MARINE CORPS** Base Maintenance Division Marine Corps Base With Tom Burger Camp Lejeune, North Carolina 28542 NRS 5000 MAIN

MAR 2 2 1988

From: Base Maintenance Officer, Marine Corps Base, Camp Lejeune To: Director, Natural Resources and Environmental Affairs Division

Via: Assistant Chief of Staff, Facilities 3 Bullin 3/23/88

Subj: CONTAMINATED SOIL

1. At the present time, there are several deposits of contaminated soil stored on plastic at the landfill. The soil was placed there so that samples could be taken and an analysis could be conducted by NREAD.

2. Some of these deposits have been stored here in excess of a year. It is requested that NREAD provide guidance for final disposition of these deposits.

M. G. LILLEY



