



in P11

January 7, 1999

Mr. Dan Kendrick
FDEP
2815 Remington Green Circle
Tallahassee, FL 32308

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JAN 13 1999

Subject: Transmittal of Discharge Reporting Form
McKenzie Tank Lines
HWY 363 St. Marks, Florida

DEP, TALLAHASSEE
BRANCH OFFICE

Dear Mr. Kendrick,

Recently, it came to the attention of McKenzie Tank Lines that a former employee had released an undetermined amount of fuel into the south corner of the property located at HWY 363 St. Mark's, Florida. On November 6, 1998, Handex met with McKenzie to conduct a soil assessment. This involved the installation of five soil borings and one temporary well. The soil borings were advanced at one-foot intervals to the depth of three feet where limestone was encountered. The temporary well was screened from 2 feet below land surface (bls) to 3 feet bls and was installed in the center of the area to the depth of three feet.

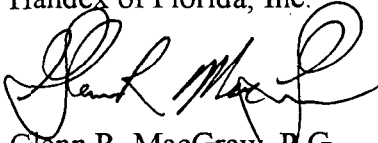
The soil samples collected at each interval were screened with an Organic Vapor Analyzer (OVA). Results of the OVA screenings were not found to be above the 50-ppm level at any of the borings. These results are listed in Table 1. Soil boring (SB-3) had a headspace reading of 20-ppm at the 2 foot interval. Handex sent this sample to Envirolab for analyses. The sample was tested for EPA 8020,8310, and FL-Pro with results listed in Table 2. A groundwater sample was collected from the temporary well (TW-1). The sample was sent to Envirolab and tested for EPA 610 and 602 with the results listed in Table 2. These results indicate that the soil and groundwater were below FDEP standards, with exception of the benzene found in the groundwater sample (TW-1). The concentration level is only slightly above the FDEP's action level and we believe that natural attenuation will reduce the Benzene concentration to below detectable levels.

The area of concern had 12 cubic yards of soil removed. This soil was sent to Soil Safe in Savannah, Georgia. The pit dimensions were 10' x 20' x 3', and the excavation was backed filled with clean fill.

Mr. Dan Kendrick
January 7, 1999
Page 2.


Enclosed are the OVA data, Lab analysis, and a site map. Please contact me at (850) 906-9011 if you have any questions.

Sincerely,
Handex of Florida, Inc.



Glenn R. MacGraw, P.G.
Program Manager

Cc: Joe Weir – McKenzie Tank Line
Marshall Mott-Smith - FDEP



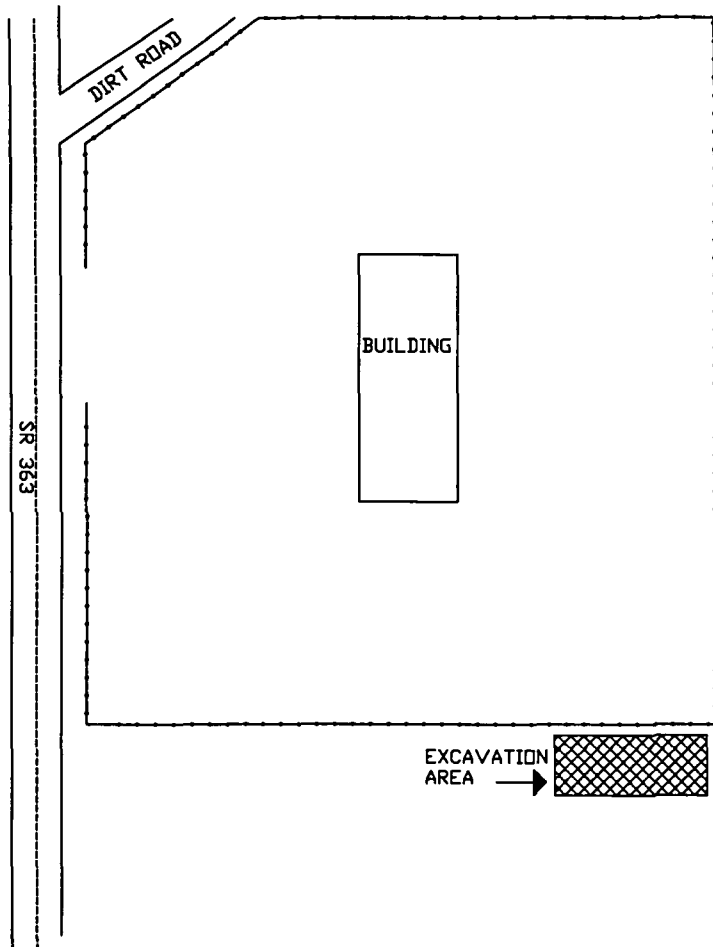
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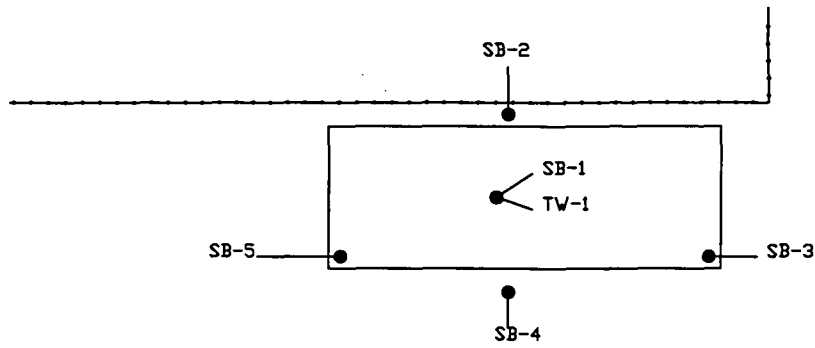
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McKenzie Tank Lines
SR 363
ST. Marks, Florida
12-7-98

FIGURE 1
SITE MAP



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BRANCH OFFICE



McKenzie Tank Lines
SR 363
ST. Marks, Florida
12-7-98

FIGURE 2
SOIL BORING AND
TEMP. WELL LOCATION

TABLE 1

SOIL HEADSPACE DATA

McKenzie Tank Lines
 HWY 363
 St. Marks, Florida

BORING	DEPTH	UNFILTERED	FILTERED	TOTAL
SB-1	2'	8	5	3
	3'	< 1.0	-	< 1.0
SB-2	1'	< 1.0	-	< 1.0
	2'	< 1.0	-	< 1.0
	3'	6	6	< 1.0
SB-3	2'	40	20	20
	3'	12	9	3
SB-4	1'	< 1.0	-	< 1.0
	2'	8	7	1
	3'	6	5	1
SB-5	3'	9	9	< 1.0
	4'	5	5	< 1.0

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TABLE 2

Lab Report

McKenzie Tank Lines
HWY 363
St. Marks, Florida

Sample ID	Method	Analyte	Results
TW - 1	610	Acenaphthylene	3.6
	610	1-methylnaphthalene	33
	610	2-methylnaphthalene	17
	610	Naphthalene	3.9
	602	Benzene	2.9
	602	Ethylbenzene	4.4
	602	MTBE	30
	602	Toluene	10
	602	Total Xylene	53
SB - 3 @ 2'	FL-PRO	Petroleum Residual Organics	32

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MR. GLENN MACGRAW
 HANDEX OF FLORIDA
 1535 KILLEARN CENTER BLVD #C6
 TALLAHASSEE, FL 32308



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ANALYTICAL REPORT

Page 1

JAN 18 1999

DEP, TALLAHASSEE
 BRANCH OFFICE

Submission Number: 9811000156 Client's P.O. Number: FLCA
 Date Received: 11/09/98 Project Number:
 Date Reported: 11/24/98 Project Name: MCKENZIE-ST.MARKS
 Elab Report Name: Finalnew->Final2.RP1

Lab Sample Number: 9811156 1 Date Sampled: 11/06/98
 Client Sample Number: TW-1 Sample Matrix: GROUND WATER
 Sample Description: TW-1

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Date Prepared
<u>HANDEX PAHs (water)</u>								
610	ACENAPHTHENE	1.0	U	ug/L	1.0	LB	11/14/98	11/12/98
610	ACENAPHTHYLENE	3.6		ug/L	2.0	LB	11/14/98	11/12/98
610	ANTHRACENE	1.0	U	ug/L	1.0	LB	11/14/98	11/12/98
610	BENZ(A)ANTHRACENE	0.20	U	ug/L	0.20	LB	11/14/98	11/12/98
610	BENZO(A)PYRENE	0.20	U	ug/L	0.20	LB	11/14/98	11/12/98
610	BENZO(B)FLUORANTHENE	0.10	U	ug/L	0.10	LB	11/14/98	11/12/98
610	BENZO(G,H,I)PERYLENE	1.0	U	ug/L	1.0	LB	11/14/98	11/12/98
610	BENZO(K)FLUORANTHENE	0.10	U	ug/L	0.10	LB	11/14/98	11/12/98
610	CHRYSENE	1.0	U	ug/L	1.0	LB	11/14/98	11/12/98
610	DIBENZO(A,H)ANTHRACENE	0.20	U	ug/L	0.20	LB	11/14/98	11/12/98
610	FLUORANTHENE	1.0	U	ug/L	1.0	LB	11/14/98	11/12/98
610	FLUORENE	1.0	U	ug/L	1.0	LB	11/14/98	11/12/98
610	INDENO(1,2,3-CD)PYRENE	0.10	U	ug/L	0.10	LB	11/14/98	11/12/98
610	1-METHYLNAPHTHALENE	33		ug/L	1.5	LB	11/14/98	11/12/98
610	2-METHYLNAPHTHALENE	17		ug/L	1.5	LB	11/14/98	11/12/98
610	NAPHTHALENE	3.9		ug/L	2.0	LB	11/14/98	11/12/98
610	PHENANTHRENE	1.0	U	ug/L	1.0	LB	11/14/98	11/12/98
610	PYRENE	1.0	U	ug/L	1.0	LB	11/14/98	11/12/98
<u>HANDEX GAG AND KAG AROMATICS (water)</u>								
602	BENZENE	2.9		ug/L	2.5	JSA	11/16/98	
602	CHLOROBENZENE	2.5	U	ug/L	2.5	JSA	11/16/98	
602	1,2-DICHLOROBENZENE	2.5	U	ug/L	2.5	JSA	11/16/98	
602	1,3-DICHLOROBENZENE	2.5	U	ug/L	2.5	JSA	11/16/98	
602	1,4-DICHLOROBENZENE	2.5	U	ug/L	2.5	JSA	11/16/98	
602	ETHYLBENZENE	4.4		ug/L	2.5	JSA	11/16/98	
602	METHYL tert-BUTYL ETHER	30		ug/L	2.5	JSA	11/16/98	
602	TOLUENE	10		ug/L	2.5	JSA	11/16/98	
602	o-XYLENE	21		ug/L	2.5	JSA	11/16/98	
602	m-XYLENE	16		ug/L	2.5	JSA	11/16/98	



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 HANDEX OF FLORIDA
 1535 KILLEARN CENTER BLVD #C6
 TALLAHASSEE, FL 32308

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ANALYTICAL REPORT

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Submission Number: 9811000156 Client's P.O. Number: FLCA
 Date Received: 11/09/98 Project Number:
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 Elab Report Name: Finalnew->Final2.RP1

DEP, TALLAHASSEE
 BRANCH OFFICE

Lab Sample Number: 9811156 1 Date Sampled: 11/06/98
 Client Sample Number: TW-1 Sample Matrix: GROUND WATER
 Sample Description: TW-1

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Date Prepared
<u>HANDEX GAG AND KAG AROMATICS (water)</u>								
602	p-XYLENE	16		ug/L	2.5	JSA	11/16/98	

Data Qualifier Code Key:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Lab Sample Number: 9811156 2 Date Sampled: 11/06/98
 Client Sample Number: SB-3 Sample Matrix: SOLID
 Sample Description: SB-3 @ 2FT

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Date Prepared
SM2540G	PERCENT SOLID	84.7		%	0.0	MC/AJL	11/12/98	
<u>HANDEX PAHs (soil)</u>								
8310	ACENAPHTHENE	59	U	ug/kg	59	LB	11/19/98	11/11/98
8310	ACENAPHTHYLENE	59	U	ug/kg	59	LB	11/19/98	11/11/98
8310	ANTHRACENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	BENZ(A)ANTHRACENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	BENZO(A)PYRENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	BENZO(B)FLUORANTHENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	BENZO(G,H,I)PERYLENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	BENZO(K)FLUORANTHENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	CHRYSENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	DIBENZO(A,H)ANTHRACENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	FLUORANTHENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	FLUORENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	INDENO(1,2,3-CD)PYRENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	1-METHYLNAPHTHALENE	59	U	ug/kg	59	LB	11/19/98	11/11/98

MR. GLENN MACGRAW
HANDEX OF FLORIDA
1535 KILLEARN CENTER BLVD #C6
TALLAHASSEE, FL 32308



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ANALYTICAL REPORT

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JAN 13 1999

Submission Number: 9811000156
Date Received: 11/09/98
Date Reported: 11/24/98

Client's P.O. Number: FLCA
Project Number:
Project Name: MCKENZIE-ST.MARKS
Elab Report Name: Finalnew->Final2.RP1

DEP. TALLAHASSEE
BRANCH OFFICE

Lab Sample Number: 9811156 2
Client Sample Number: SB-3
Sample Description: SB-3 @ 2FT

Date Sampled: 11/06/98
Sample Matrix: SOLID

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Date Prepared
<u>HANDEX PAHs (soil)</u>								
8310	2-METHYLNAPHTHALENE	59	U	ug/kg	59	LB	11/19/98	11/11/98
8310	NAPHTHALENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	PHENANTHRENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
8310	PYRENE	41	U	ug/kg	41	LB	11/19/98	11/11/98
<u>HANDEX FL-PRO (soil)</u>								
FL-PRO	PETROLEUM RESIDUAL ORGANICS	32		mg/kg	6.1	BJ	11/13/98	11/13/98
<u>HANDEX BTEX ONLY (all matrices)</u>								
8020	BENZENE	12	U	ug/kg	12	JSA	11/16/98	
8020	ETHYLBENZENE	12	U	ug/kg	12	JSA	11/16/98	
8020	TOLUENE	12	U	ug/kg	12	JSA	11/16/98	
8020	o-XYLENE	12	U	ug/kg	12	JSA	11/16/98	
8020	m-XYLENE	12	U	ug/kg	12	JSA	11/16/98	
8020	p-XYLENE	12	U	ug/kg	12	JSA	11/16/98	

Data Qualifier Code Key:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.



MR. GLENN MACGRAW
HANDEX OF FLORIDA
1535 KILLEARN CENTER BLVD #C6
TALLAHASSEE, FL 32308

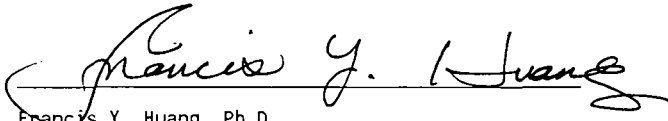
ANALYTICAL REPORT

Page 4

Submission Number: 9811000156 Client's P.O. Number: FLCA
Date Received: 11/09/98 Project Number:
Date Reported: 11/24/98 Project Name: MCKENZIE-ST.MARKS
Elab Report Name: Finalnew->Final2.RP1

CERTIFICATION: All analytical data reported above were obtained using the specified methods and were validated by our laboratory quality control system. This laboratory follows an approved quality assurance program.

Respectfully submitted:


Francis Y. Huang, Ph.D.
Lab Director / Vice President - Operations

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DEP, TALLAHASSEE
BRANCH OFFICE

FL-PRO SOLID SUMMARY

Lab Fortified Blank / Lab Fortified Blank Duplicate Recovery

Client Name HANDEX 9811000156

Date: 11/13/98

<i>Sample I.D.</i>	<i>% Recovery Limits (62-204)</i>	<i>% RPD (25)</i>	<i>Comment</i>
LFB	103	12.7	
LFBD	117		

Matrix Spike / Matrix Spike Duplicate Recovery

Sample I.D. 11-156-2 ms/msd

<i>Compound</i>	<i>Conc. Spike (mg/kg)</i>	<i>Conc. Sample (mg/kg)</i>	<i>MS Result (mg/kg)</i>	<i>% Rec.</i>	<i>MSD Result (mg/kg)</i>	<i>% Rec.</i>	<i>RPD %</i>	<i>% Rec Limits</i>	<i>RPD Limits</i>
Total Petroleum Organics	50.0	ND	61.1	122	63.8	128	4.32	62-204	25

Comments:

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*Surrogate Percent Recovery
Volatiles in Water - 602*

Client Name: Handex 98-11-156

Date: 11/16/98

Sample I.D.	1,4-Difluorobenzene (80-120)	4-Bromofluorobenzene (72-120)	Comments
BLANK	88.6	81.1	
98-11-156-01	100	139 *	Matrix Interference

Volatiles: 1 out of 4 outside QC limits

*Water Matrix Spike/Matrix Spike Duplicate Recovery
Volatiles*

Sample I.D. 98-11-200-02 (MS/MSD)

Compound		Conc. Spike Added(ug/L)	Sample Result	Conc. MS	%REC	Conc. MSD	%REC	% RPD
RPD Limit	REC Limit							
<i>Chlorobenzene</i>		20	ND	17.0	85.0	21.4	107	22.9
20	61-134							
<i>Toluene</i>		20	ND	14.9	74.5	19.0	95.0	24.2
20	62-135							
<i>Benzene</i>		20	ND	16.2	81.0	18.7	93.5	14.3
20	80-130							

Volatiles: 0 out of 9 outside QC limits

Comments: _____

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**DEP, TALLAHASSEE
BRANCH OFFICE**

P.O. Box 468 • 8 East Tower Circle • Ormond Beach, Florida 32175-0468
(904) 672-5668 • Fax (904) 673-4001

Puerto Rico: Mobile (787) 390-3505 • Beeper (787) 759-1255 • Unit #: 2148194

*Surrogate Percent Recovery
Polynuclear Aromatic Hydrocarbons
EPA Method 610*



Client Name: HANDEX 9811156

Sample ID	Terphenyl d-4 (%) (12-159)	COMMENTS
BL	78.8	
LFB	66.8	
LFBD	60.0	
9811156-1	38.4	

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Surrogate 0 out of 4 outside QC Limits

JAN 13 1999

*Matrix Spike/Matrix Spike Duplicate Recovery
Polynuclear Aromatics Hydrocarbons*

**DEP, TALLAHASSEE
BRANCH OFFICE**

Sample ID: LFB/LFBD

Compound		Conc. Spike Added (ug/L)	Sample Result (ug/L)	Conc. MS (ug/L)	% REC	Conc. MSD (ug/L)	% REC	%RPD
%RPD Limit	% REC Limit							
<i>Acenaphthene</i>								
28	(D-124)	50.0	ND	37.4	74.8	33.1	66.2	12
<i>Acenaphthylene</i>								
38	(D-139)	100	ND	70.9	70.9	66.4	66.4	6.6
<i>Anthracene</i>								
31	(12-135)	5.00	ND	3.47	69.4	3.37	67.4	2.9
<i>Pyrene</i>								
38	(D-140)	5.00	ND	3.67	73.4	3.84	76.8	4.5
<i>Fluorene</i>								
40	(D-142)	10.0	ND	6.75	67.5	6.29	62.9	7.1
<i>Naphthalene</i>								
42	(D-122)	50.0	ND	33.9	67.8	30.2	60.4	12
<i>Phenanthrene</i>								
42	(D-155)	5.00	ND	3.54	70.8	3.46	69.2	2.3

PAH 0 out of 21 outside QC Limits

Comments: _____

Analyst Signature: LB

REV. #1

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Puerto Rico: Mobile (787) 390-3505 • Beeper (787) 759-1255 • Unit #: 2148194

*Surrogate Percent Recovery
Polynuclear Aromatic Hydrocarbons
EPA Method 610*



Client Name: HANDEX 9811156

Sample ID	Terphenyl d-4 (%) (12-159)	COMMENTS
9811115-7 MS	46.8	
9811115-7 MSD	41.5	

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Surrogate 0 out of 2 outside QC Limits JAN 18 1999

*Matrix Spike/Matrix Spike Duplicate Recovery
Polynuclear Aromatics Hydrocarbons*

**DEP, TALLAHASSEE
BRANCH OFFICE**

Sample ID: 9811115-7 MS/MSD

Compound		Conc. Spike Added (ug/L)	Sample Result (ug/L)	Conc. MS (ug/L)	% REC	Conc. MSD (ug/L)	% REC	%RPD
%RPD Limit	% REC Limit							
<i>Acenaphthene</i>								
28	(D-124)	50.0	3.55	55.8	105	42.1	77.1	30
<i>Acenaphthylene</i>								
38	(D-139)	100	7.00	102	95.0	77.6	70.6	29
<i>Anthracene</i>								
31	(12-135)	5.00	ND	4.67	93.4	3.29	65.8	35
<i>Pyrene</i>								
38	(D-140)	5.00	ND	5.33	107	4.02	80.4	28
<i>Fluorene</i>								
40	(D-142)	10.0	ND	10.4	104	5.14	51.4	68
<i>Naphthalene</i>								
42	(D-122)	50.0	29.5	79.7	100	59.5	60.0	50
<i>Phenanthrene</i>								
42	(D-155)	5.00	ND	5.22	104	3.75	75.0	33

PAH 4 out of 21 outside QC Limits

Comments: _____

Analyst Signature: LB

REV.#1

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P.O. Box 468 • 8 East Tower Circle • Ormond Beach, Florida 32175-0468
 (904) 672-5668 • Fax (904) 673-4001

Puerto Rico: Mobile (787) 390-3505 • Beeper (787) 759-1255 • Unit #: 2148194



Elab, Inc. d/b/a Envirolab
 P.O. Box 468 • 8 East Tower Circle
 Ormond Beach, FL 32175-0468
 (904)672-5668 • FAX (904)673-4001

CHAIN OF CUSTODY RECORD

No. E 15218

Page 1 of 1

FOR LAB USE ONLY

Condition of Contents:

FOR LAB USE ONLY

Submission No. 9819 156

Temp. of Contents: 4 °C (or Received on Ice, ROI)

Condition of Seals:

1. Client: (Company or Individual)

Handex

Address:

1535 Killen Center Blvd. C-6

Phone: (850) 906-5011

18. Report Type:

Routine
 With QC

City

State

Zip Code

Fax: (850) 906-3199

2. Report to: (if different from above)

Glenn MacLennan

Address:

Phone: ()

19. Turnaround Time

Standard
 Rush: 1/1

City

State

Zip Code

Fax: ()

3. Client Project Name:

Mckenzie - St. Marks

Water Sample Codes (for Item 13):
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 PW = Processed Water
 WW = Waste Water

Container Codes (for Item 16):
 V = VOA vial
 G = glass
 P = plastic
 M = micro bag/cup
 O = other

14. Preservatives

C C C H C

15. Containers

G G G V G

16. Analyses Requested

8020 8310 FI PW G02 G10

Preservative Codes (for Item 15):

C = Cool Only
 H = Hydrochloric Acid
 M = Monochloroacetic Acid
 N = Nitric Acid
 OH = Sodium Hydroxide
 S = Sulfuric Acid
 T = Sodium Thiosulfate

4. Client Project No.:

5. P.O. No.:

6. Custody Seal No.:

7. Sampled By: *Dan...*

8. Shipping Method: Fed-Ex

Item	9. Sample ID or No.	10. Sample Description	11.		12.		13.						No. of Containers	20. REMARK	LAB USE ONLY LAB SAMPLE NO.
			Date	Time	Comp.	Grab	Water (Codes)	Air	Soil	Sludge	Other				
1	TW-1		11/6/98	10:00		X	GW						3		156-1
2	SB-3 @ 2'		11/6/98	10:30		X			X				2		2
3															
4															
5															
6															
7															
8															
9															
10															

DEP. TALLAHASSEE
 BRANCH OFFICE
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21. RELINQUISHED BY		DATE	TIME	22. RECEIVED BY		DATE	TIME	FOR LAB USE ONLY	
1	<i>[Signature]</i>	11/6/98	17:00	<i>[Signature]</i>	11-8-98	0800	Sampling Fee: _____ Hrs.		
2							Equipment Rental Fee: _____		
3							Profile No.:	Quote No.:	
4									