

N00639.AR.002181
NSA MID SOUTH
5090.3a

TRANSMITTAL LETTER FOR ADDITIONAL INFORMATION ON ENVIRONMENTAL
ASSESSMENT ACTIVITIES OBTAINED AT NAVAL HOSPITAL BUILDING H-100
MILLINGTON SUPPACT TN
10/22/1992
MILLINGTON SUPPACT



DEPARTMENT OF THE NAVY
NAVAL AIR STATION MEMPHIS
MILLINGTON, TENNESSEE 38054-5000

IN REPLY REFER TO

5090
Ser 01010/004738
22 OCT 1992

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Mr. Glenn Birdwell
State of Tennessee
Department of Environment and Conservation
Division of Underground Storage Tanks
Perimeter Park, Suite E-645
2500 Mt. Moriah Road
Memphis, Tennessee 38115-1511

Dear Mr. Birdwell:

We submitted an Environmental Assessment Report for this facility in September 1992. Enclosed is additional information on environmental assessment activities obtained at the Naval Hospital, Building H-100, since we submitted the report in September.

Ensafe/Allen & Hoshall has performed an additional groundwater sampling event at this facility subsequent to the submittal of the EAR. Sampling procedures were consistent with those outlined in the EAR. Laboratory reports and chain of custodies associated with this sampling event are attached.

Additional groundwater samples were collected to help determine if contamination found in monitoring well MW-4, during a previous sampling event, is related to contamination found in monitoring well MW-2 during that same sampling event. This sampling event was also performed to confirm levels of contaminants in groundwater prior to developing a Corrective Action Plan. These determinations will assist in deciding the best remedial technology for this site.

As the laboratory results indicate, groundwater samples collected from monitoring well MW-4 again exceeded the state cleanup level of 1.0 part per million total petroleum hydrocarbon. This cleanup level was determined from site conditions found during initial assessment activities which are outlined in the EAR. Groundwater samples collected from monitoring wells MW-1, MW-2, and MW-3 did not contain concentrations of Diesel Range Organics above the detection limit of 50 parts per billion.



5090
Ser 01010/

Ensafe/Allen & Hoshall will now prepare a Corrective Action Plan for this facility based on this additional analytical data. If any further information is required, please contact Ms. Tonya Barker or Mr. James Heide at (901) 873-5461.

Sincerely,

P. M. MOTOLENICH
CDR, OEC, USN
PUBLIC WORKS OFFICER
BY DIRECTION OF THE COMMANDING OFFICER
NAVAL AIR STATION MEMPHIS

Encl:

(1) Additional Information Regarding the EAR

Copy to:

Tennessee Department of Environment and Conservation
Underground Storage Tank Division
200 Doctors Building
706 Church Street
Nashville, TN 37247-4101

Commanding Officer 
Southern Division, Naval Facilities Engineering Command
Attn: John Karlyk
P.O. Box 10068
Charleston, SC 29411-0068

Mr. Lawson Anderson
Ensafe/Allen & Hoshall
5724 Summer Trees Drive
P.O. Box 341315
Memphis, TN 38184-1315





COMPUCHEM
LABORATORIES

No 026086

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Clean - Hospital ^{NAS Memphis}

PROJECT NUMBER: 2151-040

SAMPLERS (SIGNATURE): Greg Temple
Jay Cornelius
Aug Temple

PRINTED NAME: _____

CLIENT ID (9 CHARACTERS):

1	2	3	4	5	6	7	8	9	No. of Bottles/Vials	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water/Soil	DATE	TIME	REMARKS
N	H	G	W	O	1				624-8240						9/3/92		400 Method 8015
N	H	G	W	O	1	D			625-8270						"	1400	DRO only
N	H	G	W	O	2				TCL-VOA						"	1430	NEESA Level "c"
N	H	G	W	O	3				TCL-SVOA						"	1325	
N	H	G	W	O	3	MS			Other:	601-8010					"	1325	
N	H	G	W	O	3	MS	D		602-8020						"	1325	
N	H	G	W	O	4				608-8080						"	1500	
									8140								
									TCL PEST/PCB's								
									Herbicides								
									Other:								
									Metals								
									Non-Metals								
									Trace Metals								
									Other								
									Oil/Grease								
									Pet. Hydro.								
									Phenols								
									TPH-GC-DRO								

RELINQUISHED BY: <u>Aug Temple</u>	Date/Time <u>9/3/92</u>	RELINQUISHED BY:	Date/Time	RELINQUISHED BY:	Date/Time	SHIPPING INFORMATION Number of Shipping Containers- Method of Shipment
COMPANY NAME: <u>EnSate, Inc.</u>		COMPANY NAME:		COMPANY NAME:		
RECEIVED BY: <u>Fed Ex</u>	Date/Time	RECEIVED BY:	Date/Time	RECEIVED BY:	Date/Time	Special Handling Requirements
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		
RELINQUISHED BY:	Date/Time	RELINQUISHED BY:	Date/Time	RELINQUISHED BY:	Date/Time	
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		

Encl (1)

3 - MBS
**TOTAL PETROLEUM HYDROCARBONS - EXTRACTABLE
 BLANK SPIKE/BLANK SPIKE DUPLICATE RECOVERY**

Lab Name: CHEMWEST LABS

Lab Code: CHEMW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Date Received:

Extraction: SEPF

Date Extracted: 09/11/92

Sample wt/vol: 1000 (g/mL) ML

Lab Sample ID: 99911MBS

Dilution: 1.0

Date Analyzed: 09/25/92

COMPOUND	SPIKE ADDED (ug/L)	MBS CONCENTRATION (ug/L)	MBS % REC
Diesel	1000	1047	105%

Sample wt/vol: 1000 (g/mL) ML

Lab Sample ID: 99911S1

Extraction: SEPF

Date Extracted: 09/11/92

Dilution: 1.0

Date Analyzed: 09/25/92

COMPOUND	SPIKE ADDED (ug/L)	S1 CONCENTRATION (ug/L)	S1 % REC	RPD
Diesel	1000	1023	102%	2%



3 - MBS
**TOTAL PETROLEUM HYDROCARBONS - EXTRACTABLE
 BLANK SPIKE/BLANK SPIKE DUPLICATE RECOVERY**

Lab Name: CHEMWEST LABS

Lab Code: CHENW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Date Received:

Extraction: SEPF

Date Extracted: 09/11/92

Sample wt/vol: 1000 (g/mL) ML

Lab Sample ID: 99911MBS

Dilution: 1.0

Date Analyzed: 09/25/92

COMPOUND	SPIKE ADDED (ug/L)	MBS CONCENTRATION (ug/L)	MBS & REC
Diesel	1000	1047	105%

Sample wt/vol: 1000 (g/mL) ML

Lab Sample ID: 99911S1

Extraction: SEPF

Date Extracted: 09/11/92

Dilution: 1.0

Date Analyzed: 09/25/92

COMPOUND	SPIKE ADDED (ug/L)	S1 CONCENTRATION (ug/L)	S1 & REC	RPD
Diesel	1000	1023	102%	2%



1
TOTAL PETROLEUM HYDROCARBONS-EXTRACTABLE

Client I.D.

511735

N/A ND 3

Lab Name: CHEMWEST LABS

Lab Code: CHEMW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Lab Sample ID: 999104

Sample wt/vol: 1000 (g/mL) ML

Date Received: 09/08/92

Extraction: SEPP

Date Extracted: 09/11/92

Dilution: 1

Date Analysed: 09/25/92

GC ID: 2

Column ID: DB-5

COMPOUND	CONCENTRATION UNITS: (UG/L)	RL (UG/L)	Q
Diesel		50	U
Other HC as Diesel		50	U

U: Not detected at indicated value.



3 - MS
**TOTAL PETROLEUM HYDROCARBONS - EXTRACTABLE
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

Client ID

S11735 <i>NGN03</i>

Lab Name: CHEMWEST LABS

Lab Code: CHEMW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Date Received: 09/08/92

Extraction: SEPF

Date Extracted: 09/11/92

Sample wt/vol: 1000 (g/mL) ML

Lab Sample ID: 999104MS

Dilution: 1.0

Date Analyzed: 09/25/92

COMPOUND	SAMPLE AMOUNT (ug/L)	SPIKE ADDED (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#
Diesel	0	1000	964	96%	

Sample wt/vol: 1000 (g/mL) ML

Lab sample ID: 999104MD

Extraction: SEPF

Date Extracted: 09/08/92

Dilution: 1.0

Date Analyzed: 09/25/92

COMPOUND	SPIKE ADDED (ug/L)	MD CONCENTRATION (ug/L)	MD % REC	#	RPD
Diesel	1000	980	98%		2%



1
TOTAL PETROLEUM HYDROCARBONS-EXTRACTABLE

Client I.D.

511733
NHGNOR

Lab Name: CHEMWEST LABS

Lab Code: CHEMW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Lab Sample ID: 999103

Sample wt/vol: 1000 (g/mL) ML

Date Received: 09/08/92

Extraction: SEPF

Date Extracted: 09/11/92

Dilution: 1

Date Analyzed: 09/25/92

GC ID: 2

Column ID: DB-5

COMPOUND	CONCENTRATION UNITS:		Q
	(UG/L)	RL (UG/L)	
Diesel		50	U
Other HC as Diesel		50	U

U: Not detected at indicated value.



1
TOTAL PETROLEUM HYDROCARBONS-EXTRACTABLE

Client I.D.

511732
NR4N/DID

Lab Name: CHENWEST LABS

Lab Code: CHEMW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Lab Sample ID: 999102

Sample wt/vol: 1000 (g/mL) ML

Date Received: 09/08/92

Extraction: SEPF

Date Extracted: 09/11/92

Dilution: 1

Date Analyzed: 09/25/92

GC ID: 2

Column ID: DB-5

COMPOUND	CONCENTRATION UNITS: (UG/L)	RL (UG/L)	Q
Diesel		50	U
Other HC as Diesel		50	U

U: Not detected at indicated value.



1
TOTAL PETROLEUM HYDROCARBONS-EXTRACTABLE

Client I.D.

511731

NHAW01

Lab Name: CHEMWEST LABS

Lab Code: CHENW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Lab Sample ID: 999101

Sample wt/vol: 1000 (g/mL) ML

Date Received: 09/08/92

Extraction: SEPF

Date Extracted: 09/11/92

Dilution: 1

Date Analyzed: 09/25/92

GC ID: 2

Column ID: DB-5

COMPOUND	CONCENTRATION UNITS: (UG/L)	RL (UG/L)	Q
Diesel		50	U
Other HC as Diesel		50	U

U: Not detected at indicated value.



1
TOTAL PETROLEUM HYDROCARBONS-EXTRACTABLE

Client I.D.

DBLK01

Lab Name: CHEMWEST LABS

Lab Code: CHEMW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Lab Sample ID: 999101MB

Sample wt/vol: 1000 (g/mL) ML

Date Received:

Extraction: SEPF

Date Extracted: 09/11/92

Dilution: 1

Date Analyzed: 09/25/92

GC ID: 2

Column ID: DB-5

COMPOUND	CONCENTRATION UNITS: (UG/L)	RL (UG/L)	Q
Diesel		50	U
Other HC as Diesel		50	U

U: Not detected at indicated value.



1
TOTAL PETROLEUM HYDROCARBONS-EXTRACTABLE

Client I.D.

511734
N/A

Lab Name: CHEMWEST LABS

Lab Code: CHEMW Case No.: 9991

SDG No.: 9991

Matrix: (soil/water) WATER

Lab Sample ID: 999105

Sample wt/vol: 1000 (g/mL) ML

Date Received: 09/08/92

Extraction: SEPP

Date Extracted: 09/11/92

Dilution: 10

Date Analyzed: 09/29/92

GC ID: 2

Column ID: DB-5

COMPOUND	CONCENTRATION UNITS: (UG/L)	RL (UG/L)	Q
Diesel	58,000	500	
Other HC as Diesel		500	U

U: Not detected at indicated value.

