



DEPARTMENT OF THE ARMY

HEADQUARTERS, U.S. ARMY GARRISON FORT MONMOUTH

FORT MONMOUTH, NEW JERSEY 07703-5101



August 26, 2009

From: Howard M. Syvarth, TVS Hydrogeologist
To: UST file
Subject: UST Closure Reports for Building 750/Tank Registration #: 81533-191

Enclosed are the file review sheets for the closure of the Underground Storage Tank(s) (USTs) located at the above referenced location.

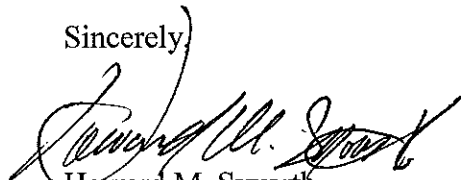
This tank was removed without incident. There was no evidence of discharge from the tank or of a historical release. This site had three regulated tanks; one of the tanks (81533-191) once contained diesel fuel, and the second tank (81533-192) contained gasoline. The third tank (81533-198) contained waste oil and was found to be leaking. Monitoring wells were installed and revealed contaminated groundwater. The site has been transferred to the Ft. Monmouth IRP site program.

All supporting documentation for the closure of the UST can be found in the UST folder located in the library archive in Bldg. 173, Directorate of Public Works, US Army Garrison Fort Monmouth, New Jersey.

Any questions regarding the information found in this or any other UST folder should be directed to:

Howard M. Syvarth
TECOM-Vinnell Services (TVS)
Staff Hydrogeologist, UST program
Directorate of Public Works, Ft. Monmouth, NJ
Email: Howard.M.Syvarth@us.army.mil

Sincerely,


Howard M. Syvarth
TVS Staff Hydrogeologist

Mr. Charles Appleby
Subsurface Evaluator NJDEP #9974
Environmental Protection Specialist
Directorate of Public Works

Fort Monmouth Underground Storage Tank Assessment Questionnaire

CASE STATUS: *Case Open*

NFA ISSUED:

File Review Date: 12/11/08

By: Howard Syvark

Site Name: 750 -

Is the UST Residential: *NO*

There is / are 2 UST(s) located at this site.

This NJDEP UST Registration # is: *81533 - 191* to 192

This UST was *15000* Gallons in size, was made of *FRP* and contained *DIESEL*.

The UST was installed in *1986* and removed by *STAYS/TVS* on *2/9/2005*. A Standard Reporting Form was sent to the NJDEP on _____. NJDEP Closure # *S-91-2811 PIPING*

Subsurface Evaluator: *C. Appleby* NJDEP # _____

A Site Investigation Report was completed by *WESTON, DPW-EV* and submitted to the NJDEP on _____.

The Current Status is: *Removed; Report Submitted/Not Nec.*

The Revised Status as of _____ completed by _____ is:

The Current UST Database Comments are: *Monitoring wells need to be sampled and analyzed quarterly. Must abandon fill pipe located under concrete into work bay, elbow in both fill pipes, waste oil, water transferred to drums. TVS removed the UST 2/9/05. System closed out. No contamination.*

The Revised Comments as of 12/11/08 completed by Howard Syvark is:

PROJECT IS PART OF IRP,

Database updated on _____ by _____.

Remedial Phases: PA SI RI RAW CEA NFA

Project transferred to the Fort Monmouth Restoration Program

Project # FTMM- _____

Fort Monmouth Underground Storage Tank Assessment Questionnaire

Site Name: 750 -

Is the UST Residential: *NO*

There is / are _____ UST(s) located at this site.

CASE STATUS: *Case Open*

NFA ISSUED:

File Review Date: _____

By: _____

This NJDEP UST Registration # is: 81533 - 192 to 142

This UST was 8000 Gallons in size, was made of FRP and contained GASOLINE.

The UST was installed in 1986 _____ and removed by STAYS/TVS _____ on 2/11/2005 _____.

A Standard Reporting Form was sent to the NJDEP on _____ . NJDEP Closure # _____

Subsurface Evaluator: *C. Appleby* _____ NJDEP # _____

A Site Investigation Report was completed by *WESTON, SMC* _____ and submitted to the NJDEP on _____.

The Current Status is: *Removed; Report Submitted/Not Nec.*

The Revised Status as of _____ completed by _____ is:

The Current UST Database Comments are: *Needs GEO-GW. TVS removed tank 2/11/2005. No contamination. Report pending*

The Revised Comments as of _____ completed by _____ is:

Database updated on _____ by _____.

Remedial Phases: PA SI RI RAW CEA NFA

Project transferred to the Fort Monmouth Restoration Program

Project # FTMM- _____

Fort Monmouth Underground Storage Tank Assessment Questionnaire

1. Has the property been or is the property currently the subject of any remediation with NJDEP oversight?]Yes]No

If Yes, provide the following:

Case Number _____

Case Lead (US Army) _____

Case Manager (NJDEP) _____

Case Status Data base " *Case Closed* ", As of this date: _____

2. Was a Preliminary Assessment (PA) performed in accordance with N.J.A.C. 7: 26E-3.1?]Yes]No

3. Were any Areas of Concern (AOCs) identified?]Yes]No
If yes proceed to question 4. If no, proceed to Check List (page 8).

4. Were any potentially contaminated AOCs identified?]Yes]No

List and describe all **potentially contaminated** AOCs.

UST Area] Underground Piping Area] Dispenser Area] UST Fill Area]

5. List and describe all AOCs subject to the 7:26E Regulations.
UST Area] Underground Piping Area] Dispenser Area] UST Fill Area]
- _____
- _____

6. Was a discharge of a hazardous substance, contaminant or pollutant identified?]Yes]No

If so, was the discharge to: (check all that apply)

Soil] Ground Water] Surface Water] Ecologically Sensitive Area]

Other] (specify) _____

Fort Monmouth Underground Storage Tank Assessment Questionnaire

7. How was the discharge identified? (check all that apply)

Sample Analysis Olfactory Visual Record/ Loss of Product Field Analysis
Other (specify) _____

8. What was the source of the discharge?

UST Area Underground Piping Area Dispenser Area UST Fill Area

9. Were any of the following conditions present? (Check all that apply.)

Soil Staining Distressed or Dead Vegetation Product Entering Storm Sewer
Product Entering Basement Off-site Migration Product Observed on Surface Water
Other (specify) _____

10. Were samples collected in accordance with the provisions of N.J.A.C. 7:26E and the Department's applicable Field Sampling Procedures Manual?

Yes No

TPHC VOA+10 BN+15 lead PP+40

Other: _____

11. Were soil samples collected at the appropriate depth as per N.J.A.C. 7:26E

Yes No

12. Were samples biased toward the most contaminated areas using field Instruments and/or visual and olfactory observations?

Yes No

How was this accomplished? _____

13. If only TPHC samples taken, were samples >1000mg/kg run for VOA+10?

Yes No

14. Was the vertical and horizontal extent of soil contamination delineated prior to remediation?

Yes No

Explain: _____

Fort Monmouth Underground Storage Tank Assessment Questionnaire

15. Fully describe the method of remediation?

Source Removal and Disposal Free Product removal by Vacuum Truck

Other: _____

16. If excavation was performed, what was the depth of the bottom of the excavation? _____ feet.

17. What is the approximate depth to saturated zone (seasonally high water table)? _____ feet.

How was this determined? Observed Measurement Monitoring Well

Other: _____

18. Is the Site Tidally Impacted? Yes No

19. What is the percentage of silt/clay in the soil between the contaminant and the saturated zone?

_____. How was this determined? _____

_____ Not Available

20. Was ground water present in the excavation? Yes No

If yes, was there a sheen observed on ground water? Yes No

21. Are there any Public Supply Wells within 2,000 feet of confirmed soil contamination? Yes No

How was this determined? Well Search : _____

22. Was contaminated soil removed from the site? Yes No

How much soil was removed? _____ tons/cubic yards (circle one)

To what facility was the soil taken? _____

Date taken: _____

23. Were the analytical results for all soil post excavation/remediation samples below the Department's June 2008 residential soil cleanup criteria? Yes No

Fort Monmouth Underground Storage Tank Assessment Questionnaire

If No, describe in detail in Comments Page 6

22. Was this an investigation pertaining to a non-regulated heating oil tank?]Yes]No

Fort Monmouth Database : : **NO**

If yes, complete the following, If no go to 23

Do on-site structures have a basement/crawl space?]Yes]No

Was staining observed on the basement/crawl space walls or floor?]Yes]No]NA

Were petroleum odors observed in the basement/crawl space?]Yes]No]NA

Is a sump present in the basement/crawl space?]Yes]No]NA

If yes, please indicate location on site map.

Was water observed in the sump?]Yes]No]NA

Was a sheen observed on the water in sump?]Yes]No]NA

If there was no water in the sump was the base of the sump investigated for a petroleum discharge?]Yes]No]NA

If the sump was investigated, was a discharge observed?]Yes]No]NA

23. Is a regulated underground storage tank the subject of the remediation?]Yes]No

If yes, complete the following, If no, go to 24

Was a closure approval or 14 day notification obtained prior to the closure of the tank?]Yes]No

List Closure Approval/Notification Numbers NJDEP Closure # NJDEP DHWM _____

Was the closure or any remediation performed by an individual and firm certified in closure and subsurface evaluation?]Yes]No

Subsurface Evaluator: **C. Appleby** _____

Individual certification number: _____

Firm certification number: _____

Was an Underground Storage Tank Facility Certification Questionnaire completed and submitted "delisting" the subject tanks?]Yes]No

24. Was a Baseline Ecological Evaluation conducted pursuant to N.J.A.C 7:26E?]Yes]No

If No, was the BEE a regulatory requirement at the time?
(UST removed prior to 1997 or the UST is Residential?)]Yes]NA

If Yes, is there a contaminant of concern present?]Yes]No

Fort Monmouth Underground Storage Tank Assessment Questionnaire

Are there environmentally sensitive natural resources within or surrounding the property? Yes No

Are there potential contaminant migration pathways present? Yes No

Were potential ecological impacts identified? Yes No

Is a BEE planned to be completed for this site? Yes No

25. Was the site restored in accordance to N. J.A.C. 7:26E-6.4(b)? Yes No

26. Was the remedial investigation/action report prepared in accordance with N.J.A.C. 7:26E? Yes No

27. Remediation completed date: _____

28. Are there currently, or have there ever been, any Deed Notices or Declarations of Environmental Restriction pursuant to N.J.S.A. 58:10B-1 et seq. and N.J.A.C. 7:26E-1 et seq. for the Site? Yes No

If yes, Attach a copy of the Deed Notice or Declaration of Environmental Restriction.

29. Has NJDEP ever issued a no further action letter ("NFA") for any portion of the Site? Yes No

NFA ISSUED:

If Yes, in accordance with N.J.S.A. 58:10B-13(e), is there an order of magnitude difference between the currently applicable remediation standard or criterion and the contaminant level approved under such previously issued NFA? Yes No

31. Subcontractors employed during the investigation/remediation (list all):

Name/Address: ALL SERVICE ENVIRO.

Name/Address: WESTON/SMC

Name/Address: _____

Name/Address: _____

Name/Address: _____

COMMENTS:

Fort Monmouth Underground Storage Tank Assessment Questionnaire

Site Investigation - Remedial Investigation/Action Report Checklist: DATE: _____

- Soil Contamination currently exists on site]Yes]No]NA
- GW Contamination currently exists on site]Yes]No]NA
- Contaminated Soil Disposal Receipt (fully executed manifest)]Yes]No]NA
- Tank Disposal Certificate]Yes]No]NA
- Tank Contents Disposal Receipt (fully executed manifest)]Yes]No]NA
- Fill was "certified clean" in accordance with N.J.A.C.7:26E-6.4]Yes]No]NA
- Scaled site map with AOCs and north arrow]Yes]No]NA
- Sample Results Summary Tables (N.J.A.C.7:26E-4.8)]Yes]No]NA
- Laboratory was certified to perform the required tests]Yes]No]NA
- Chain of Custody forms submitted]Yes]No]NA
- Signed laboratory deliverables checklist and Non-Conformance Summaries submitted]Yes]No]NA
- Problems identified in the laboratory deliverables checklist and Non-Conformance summaries]Yes]No]NA
- Holding times were met for all analyses]Yes]No]NA
- MDLs below most stringent soil cleanup criteria]Yes]No]NA
- Laboratory sample summary submitted]Yes]No]NA
- QA/QC package (reduced deliverables) submitted]Yes]No]NA
- VOC soil samples methanol preserved (sample weights included)]Yes]No]NA
- Electronic data package (home heating oil tanks exempt)]Yes]No]NA
- Well search submitted]Yes]No]NA
- Baseline Environmental Evaluation (home heating oil tanks exempt)]Yes]No]NA
- Closure approval notification enclosed]Yes]No]NA
- No Further Action letter(s) enclosed]Yes]No]NA

Fort Monmouth Underground Storage Tank Assessment Questionnaire

Site Name: 750 -

Is the UST Residential: NO

There is / are 1 UST(s) located at this site.

CASE STATUS: *Case Closed*

NFA ISSUED:

File Review Date: 7/11/08

By: Howard Syvath

This NJDEP UST Registration # is: 81533 - 198 to _____

This UST was 1000 Gallons in size, was made of FRP and contained WASTE OIL.

The UST was installed in 1986 _____ and removed by ALL SERVICE ENVIRO. _____ on 3/11/1998 _____. A Standard Reporting Form was sent to the NJDEP on 3/17/93 _____.

NJDEP Closure # NJDEP DHWM _____

Subsurface Evaluator: C. Appleby _____ NJDEP # _____

A Site Investigation Report was completed by WESTON/SMC _____ and submitted to the NJDEP on 5/19/2000 _____.

The Current Status is: *Removed; Report Submitted/Not Nec.*

The Revised Status as of _____ completed by _____ is:

The Current UST Database Comments are: *SAS complete, sent to NJDEPE-CBWHWE 11/16/93. ATC Closure Report (May 19, 2000) recommends conditional NFA with a CEA; monitoring ongoing.*

The Revised Comments as of 12/11/08 completed by Howard Syvath is:

Three tanks & subsequent LTM part of the IRP program. all soil contamination addressed.

Database updated on _____ by _____.

Remedial Phases: PA SI RI RAW CEA NFA

Project transferred to the Fort Monmouth Restoration Program

Project # FTMM- _____

Fort Monmouth Underground Storage Tank Assessment Questionnaire

1. Has the property been or is the property currently the subject of any remediation with NJDEP oversight? Yes No

If Yes, provide the following:

Case Number 92-05-07-1600

Case Lead (US Army) Appleby

Case Manager (NJDEP) CURTIS

Case Status Data base "Case Open", As of this date: OPEN

2. Was a Preliminary Assessment (PA) performed in accordance with N.J.A.C. 7:26E-3.1? Yes No

3. Were any Areas of Concern (AOCs) identified? Yes No
If yes proceed to question 4. If no, proceed to Check List (page 8).

4. Were any potentially contaminated AOCs identified? Yes No

List and describe all **potentially contaminated** AOCs.

UST Area Underground Piping Area Dispenser Area UST Fill Area

5. List and describe all AOCs subject to the 7:26E Regulations.

UST Area Underground Piping Area Dispenser Area UST Fill Area

6. Was a discharge of a hazardous substance, contaminant or pollutant identified? Yes No

If so, was the discharge to: (check all that apply)

Soil Ground Water Surface Water Ecologically Sensitive Area

Other (specify) _____

Fort Monmouth Underground Storage Tank Assessment Questionnaire

7. How was the discharge identified? (check all that apply)

Sample Analysis [] Olfactory [] Visual [] Record/ Loss of Product [] Field Analysis []
Other [] (specify) _____

8. What was the source of the discharge?

UST Area [] Underground Piping Area [] Dispenser Area [] UST Fill Area []

9. Were any of the following conditions present? (Check all that apply.)

Soil Staining [] Distressed or Dead Vegetation [] Product Entering Storm Sewer []
Product Entering Basement [] Off-site Migration [] Product Observed on Surface Water []
Other [] (specify) _____

10. Were samples collected in accordance with the provisions of N.J.A.C. 7:26E and the Department's applicable Field Sampling Procedures Manual?

Yes [] No

TPHC [] VOA+10 [] BN+15 [] lead []

PP+40 []

Other: _____

11. Were soil samples collected at the appropriate depth as per N.J.A.C. 7:26E

Yes [] No

12. Were samples biased toward the most contaminated areas using field Instruments and/or visual and olfactory observations?

Yes [] No

How was this accomplished? _____

13. If only TPHC samples taken, were samples >1000mg/kg run for VOA+10?

Yes [] No

14. Was the vertical and horizontal extent of soil contamination delineated prior to remediation?

[] Yes [] No

Explain: *Soils removed based on visual impact* _____

Fort Monmouth Underground Storage Tank Assessment Questionnaire

15. Fully describe the method of remediation?

Source Removal and Disposal Free Product removal by Vacuum Truck

Other: _____

16. If excavation was performed, what was the depth of the bottom of the excavation? _____ feet.

17. What is the approximate depth to saturated zone (seasonally high water table)? _____ feet.

How was this determined? Observed Measurement Monitoring Well

Other: _____

18. Is the Site Tidally Impacted? Yes No

19. What is the percentage of silt/clay in the soil between the contaminant and the saturated zone?

_____. How was this determined? _____

_____ Not Available

20. Was ground water present in the excavation? Yes No

If yes, was there a sheen observed on ground water? Yes No

21. Are there any Public Supply Wells within 2,000 feet of confirmed soil contamination? Yes No

How was this determined? Well Search : _____

22. Was contaminated soil removed from the site? Yes No

How much soil was removed? _____ ? _____ tons/cubic yards (circle one)

To what facility was the soil taken? _____

Date taken: _____

23. Were the analytical results for all soil post excavation/remediation samples below the Department's June 2008 residential soil cleanup criteria? Yes No

Fort Monmouth Underground Storage Tank Assessment Questionnaire

If No, describe in detail in Comments Page 6

22. Was this an investigation pertaining to a non-regulated heating oil tank?]Yes]No
Fort Monmouth Database : : NO
If yes, complete the following, If no go to 23

Do on-site structures have a basement/crawl space?]Yes]No

Was staining observed on the basement/crawl space walls or floor?]Yes]No]NA

Were petroleum odors observed in the basement/crawl space?]Yes]No]NA

Is a sump present in the basement/crawl space?]Yes]No]NA

If yes, please indicate location on site map.

Was water observed in the sump?]Yes]No]NA

Was a sheen observed on the water in sump?]Yes]No]NA

If there was no water in the sump was the base of the sump investigated for a petroleum discharge?]Yes]No]NA

If the sump was investigated, was a discharge observed?]Yes]No]NA

23. Is a regulated underground storage tank the subject of the remediation?]Yes]No

If yes, complete the following, If no, go to 24

Was a closure approval or 14 day notification obtained prior to the closure of the tank?]Yes]No

List Closure Approval/Notification Numbers NJDEP Closure # _____

Was the closure or any remediation performed by an individual and firm certified in closure and subsurface evaluation?]Yes]No

Subsurface Evaluator: C. Appleby _____

Individual certification number: _____

Firm certification number: _____

Was an Underground Storage Tank Facility Certification Questionnaire completed and submitted "delisting" the subject tanks?]Yes]No

24. Was a Baseline Ecological Evaluation conducted pursuant to N.J.A.C 7:26E?]Yes]No

If No, was the BEE a regulatory requirement at the time?]Yes]NA
 (UST removed prior to 1997 or the UST is Residential?)

If Yes, is there a contaminant of concern present?]Yes]No

Fort Monmouth Underground Storage Tank Assessment Questionnaire

- Are there environmentally sensitive natural resources within or surrounding the property?]Yes]No
- Are there potential contaminant migration pathways present?]Yes]No
- Were potential ecological impacts identified?]Yes]No
- Is a BEE planned to be completed for this site?]Yes]No
25. Was the site restored in accordance to N. J.A.C. 7:26E-6.4(b)?]Yes]No
26. Was the remedial investigation/action report prepared in accordance with N.J.A.C. 7:26E?]Yes]No
27. Remediation completed date: _____
28. Are there currently, or have there ever been, any Deed Notices or Declarations of Environmental Restriction pursuant to N.J.S.A. 58:10B-1 et seq. and N.J.A.C. 7:26E-1 et seq. for the Site?]Yes]No
If yes, Attach a copy of the Deed Notice or Declaration of Environmental Restriction.
29. Has NJDEP ever issued a no further action letter ("NFA") for any portion of the Site?]Yes]No
NFA ISSUED:
- If Yes, in accordance with N.J.S.A. 58:10B-13(e), is there an order of magnitude difference between the currently applicable remediation standard or criterion and the contaminant level approved under such previously issued NFA?**]Yes]No
31. Subcontractors employed during the investigation/remediation (list all):
 Name/Address: STAYS/TVS
 Name/Address: WESTON, SMC
 Name/Address: _____
 Name/Address: _____
 Name/Address: _____

COMMENTS:

Fort Monmouth Underground Storage Tank Assessment Questionnaire

Site Investigation - Remedial Investigation/Action Report Checklist: DATE: _____

- Soil Contamination currently exists on site Yes No N/A
- GW Contamination currently exists on site Yes No N/A
- Contaminated Soil Disposal Receipt (fully executed manifest) Yes No N/A
- Tank Disposal Certificate Yes No N/A
- Tank Contents Disposal Receipt (fully executed manifest) Yes No N/A
- Fill was "certified clean" in accordance with N.J.A.C.7:26E-6.4 Yes No N/A
- Scaled site map with AOCs and north arrow Yes No N/A
- Sample Results Summary Tables (N.J.A.C.7:26E-4.8) Yes No N/A
- Laboratory was certified to perform the required tests Yes No N/A
- Chain of Custody forms submitted Yes No N/A
- Signed laboratory deliverables checklist and Non-Conformance Summaries submitted Yes No N/A
- Problems identified in the laboratory deliverables checklist and Non-Conformance summaries Yes No N/A
- Holding times were met for all analyses Yes No N/A
- MDLs below most stringent soil cleanup criteria Yes No N/A
- Laboratory sample summary submitted Yes No N/A
- QA/QC package (reduced deliverables) submitted Yes No N/A
- VOC soil samples methanol preserved (sample weights included) Yes No N/A
- Electronic data package (home heating oil tanks exempt) Yes No N/A
- Well search submitted Yes No N/A
- Baseline Environmental Evaluation (home heating oil tanks exempt) Yes No N/A
- Closure approval notification enclosed Yes No N/A
- No Further Action letter(s) enclosed Yes No N/A