



DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
U.S. ARMY FORT MONMOUTH
P.O. 148
OCEANPORT, NEW JERSEY 07757

July 26, 2012

Ms. Linda Range
New Jersey Department of Environmental Protection
Case Manager
Bureau of Southern Field Operations
401 East State Street, 5th Floor
PO Box 407
Trenton, NJ 08625

Re: Parcel 27, Southwestern Corner of Charles Wood Area, Fort Monmouth, N.J.:

- 1. Underground Storage Tank (UST) Closure/No Further Action (NFA) Approval Letters for Buildings 2506 and 2624**
- 2. Historical Storage Tank Information for Former Buildings 2505 and 2566**

Attachments:

- A. Correspondence Letter from NJDEP dated July 10, 2012
- B. NJDEP Closure/NFA Approval Letter for UST #2506-17 dated July 10, 1998
NJDEP Closure/NFA Approval Letter for UST #2624-34 dated July 23, 1993
NJDEP Closure/NFA Approval Letter for UST #2624-57 dated Sept. 21, 1995
NJDEP Closure/NFA Approval Letter for UST #2624-58 dated Sept. 21, 1995
NJDEP Closure/NFA Approval Letter for UST #2624-59 dated Sept. 21, 1995
- C. Army Real Property Records for Former Buildings 2505 and 2566

Dear Ms. Range:

As requested in the NJDEP's July 10, 2012 correspondence letter (provided in Attachment A), enclosed in Attachment B are Closure/NFA Approval Letters issued by the NJDEP for the following USTs: #2506-17, #2624-34, #2624-57, #2624-58, and #2624-59. In addition, the NJDEP requested that the Army provide additional information regarding the possibility of historical USTs at former buildings 2505 and 2566.

From a review of the Army's real property records (provided in Attachment C), no storage tanks containing heating oil or other petroleum products were found to exist at former buildings 2505 and 2566. Building 2505, built in 1945, was a 200 square-foot, unheated, concrete block structure used for ammunition storage. The Army's last inventory records for the building are from 1962, when it is believed to have been demolished shortly thereafter. Building 2566, also built in 1945, was a 441 square-foot, unheated, concrete block structure used for general storage. Building 2566 was demolished in 1980. Currently, building 2625, a 2,400 square-foot structure constructed in 1993, occupies the area where buildings 2505 and 2566 previously existed.

Should you have any questions or require additional information, please contact me at (732) 380-7064 or by email at wanda.s.green2.civ@mail.mil.

Sincerely,

A handwritten signature in black ink that reads "Wanda Green". The signature is written in a cursive, flowing style.

Wanda Green
BRAC Environmental Coordinator

Enclosures

ATTACHMENT A

Correspondence Letter from NJDEP dated July 10, 2012



State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
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BOB MARTIN
Commissioner

July 10, 2012

Wanda Green
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Re: March 2012 Army Response to NJDEP Correspondence Letter Dated October 28, 2008
Fort Monmouth, NJ
PI G000000032

Dear Ms. Green:

A review of the above referenced report, received March 27, 2012 and submitted in response to the Department's comments regarding the Draft Site investigation Report of July 21, 2008 by Shaw Environmental, Inc., has been completed by this office. Many of the parcel comments involved suspected USTs; in addition to that information provided in this submittal and the July 2008 SI, a review and comparison of Appendix G, Appendix O, and Figures 15 and 16 of the January 2007 ECP Report was conducted by this office in an attempt to ascertain the location and status of all tanks located within the parcels. Unless otherwise noted, comments and questions are provided only for each parcel referenced in the submittal and are generally presented by parcel.

Parcel 13 – Former Barracks (Buildings 2004-2016)

Geophysical surveys were performed, and sampling was conducted throughout that area at which USTs were known to or may have been present. No USTs were found; all soils analytical results were below cleanup criteria applicable to the site; no additional action for the parcel is necessary.

Parcel 14 – Former Buildings and Housing Area Northwest Portion of CWA

As indicated in the Department's correspondence of May 30, 2012, the geophysical surveys performed and sampling conducted throughout that area at which USTs were or may have been present were sufficient to adequately characterize the area. No USTs were found; all soils analytical results collected were below cleanup criteria applicable to the site. The parcel was re-categorized from Category 2 to Category 1.

Parcel 15 – Building 2700

Parcel 15 was issued a designation of No Further Action for soils and ground water, *exclusive of CW-1*, on May 9, 2012. Remediation efforts involving CW-1 continue.

Parcel 27 – Southwestern Corner CWA

The single outstanding issue at Parcel 27 was the USTs. As previously indicated, numerous USTs were removed from the parcel, however, additional documentation for same was required.

It is agreed fourteen (14) USTs have been removed and given NJDEP Closure Approval Letters/NFAs. Although it is understood Departmental approval may have been granted for an additional five USTs, as indicated on Page 6 of the referenced submittal and in Appendix G, please be advised this office does not have documentation confirming Closure Approval/NFA for the following USTs.

UST 2506-17	Reported NJDEP UST Closure Approval Date 7/10/98
UST 2624-34	Reported NJDEP UST Closure Approval Date 7/23/93
UST 2624-57	Reported NJDEP UST Closure Approval Date 9/21/95
UST 2624-58	Reported NJDEP UST Closure Approval Date 9/21/95
UST 2624-59	Reported NJDEP UST Closure Approval Date 9/21/95

Additionally, please provide information as to the status of the USTs noted in Appendix O at what appear to be Buildings 2566 and 2505, located just north of Building 2503?

Any sediment issues which may have resulted from parcel operations are to be addressed as part of the ongoing facility wide ecological assessment.

Parcel 28 – Former Eatontown Laboratory

Underground Storage Tanks

Although this office is in agreement with the information submitted in regard to the majority of the USTs as noted on Parcel 28, questions remain on several, which are not considered as given a designation of NFA at this time.

As above, documentation for closure approval or NFA is not available for confirmation on the following USTs.

UST 2539-28	Reported NJDEP UST Closure Approval Date 3/31/93
UST 2539-64	Reported NJDEP UST Closure Approval Date 3/31/93
UST-2531-21	Reported NJDEP UST Closure Approval Date 8/29/00

UST 2542-29 and UST 2564-32 are reported as no release observed. A Standard Reporting Form and/or Site Assessment Compliance Statement were reported sent to us 11/22/91, however, no designation of NFA was granted, nor comments apparently generated.

Appendix O indicates three USTs within that area which underwent a geophysical survey between Building 2525 & Heliport Drive. The center UST appears to correlate to UST P28-8, which, based upon the investigation performed, warrants no further action. Although it is agreed no tanks remain in that area, please provide any record of their removal or indication as to evidence of a discharge upon removal. As previously discussed, a designation of NFA for USTs cannot be granted without sampling.

Septic Tanks & Leachfields

Leachfield East of Heliport Drive, South of Radiac Way – It is agreed the four test pits were adequate for characterization of the leachfield; no additional action is necessary for the leachfield. It does not appear, however, the suspected D-box/entirety of the septic system was investigated. Although they are not designed to hold liquids/sludges (but rather to distribute the liquids after the solids fall out into the holding tank), particularly as the structure apparently remains in place, additional information is required as to whether the structure could have been/functioned as a holding tank (field notes do reference it as a septic tank) which did contain solids or liquids which should have been sampled.

Septic System & Septic Tank A – Located off the northeast corner of Building 2525, a suspected septic tank was located via GPR scanning, as denoted as "A" on Figure 3.5-2 of the ECP Site Investigation. Sampling efforts, however, were performed only at the associated leachfield. What efforts were made to adequately characterize any holding tank contents of the actual septic tank, as required by the Tech Regulations in effect at the time of investigation (NJAC 7:26E-3.9(e)3)? As regarding the associated leachfield, a minimum of 4 samples is required. A single soil and single ground water sample is inadequate.

Septic System at Southeastern Corner of Parcel - For that septic system located in the southeastern corner of the parcel as sampled by P28-SB1, the findings/requirements noted in the above paragraph also apply.

Former Storage Areas/Possible Former Tank Pads – This area received a designation of NFA on March 29, 2012.

Parcel 34 – Building 2567/FTMM 58

Elevated levels of ground water contamination underwent treatment via a Permit-by-Rule approved in October of 2010. The Department most recently responded on March 7, 2012 approving monitoring via two rounds of seasonal high ground water analytical sampling.

As recently discussed, although piping was cleaned at the time of tank removal, it necessary to remove the piping and dispensing equipment/island.

Parcel 38 – Former Outdoor Pistol Range (1940-1955)

Although no exceedences were noted, Departmental comments indicated the surface soil sampling was not adequate due to the possibility the parcel soils had been re-worked; a ground water investigation was therefore required. The Army will be submitting the results of a ground water investigation in a future letter report to this office. If you wish to receive comments on anticipated frequency and locations of the ground water sampling points and methodology (ie low-flow), please submit the sampling plan prior to implementation.

Parcel 39 – Building 1150/Vail Hall

Previous comments indicated the soil exceedences, although permitted to remain in place with institutional controls (Deed Notice), must be compared to and delineated to the RDCSCC. The Army has agreed, in this submittal, to prepare a revised map indicating delineation boundaries to the more stringent criteria, as appropriate. A draft Deed Notice for same is to be submitted to this office for review and comment.

Any sediment issues which may have resulted from operations are to be addressed as part of the ongoing facility wide ecological assessment.

Parcel 43 – Building 1122 (Do-it-Yourself Auto Repair)

No comments based on submittal; Army acknowledges Department's March 18, 2011 comments; remedial efforts are ongoing.

Any sediment issues which may have resulted from parcel operations are to be addressed as part of the ongoing facility wide ecological assessment.

Parcel 49 – Former Squier Laboratory Complex

The Site Investigation indicated five surface soil samples contained base neutrals at concentrations above the NRDCSCC, while one sample contained PCBs above the NRDCSCC. The Department concurred with the recommendation of additional sampling for delineation purposes. The March 2012 submittal, however, specifies no sampling will be performed in regard to the BNs exceedences as they "are commonly detected in soil directly beneath asphalt pavement".

Base Neutrals (BNs)

Although it is agreed elevated levels of BN constituents related to asphalt rather than a discharge may be encountered beneath asphalt paving, it is not agreed sufficient information has been provided at this time to document each location at which BN exceedences are noted is unrelated to site operations. The previously approved proposal for additional sampling remains appropriate for each sample location at which exceedences were noted.

PCBs

Regarding PCBs, a re-sample is currently proposed in the location at which PCBs were noted to exceed the NRDCSCC, sample P49-SS8-A. As no Remedial Action Workplan for this parcel was previously approved, the Soil Remediation Standards (0.2 ppm) apply. As such, PCBs exceed the standard at three locations -- P49-SB3-A and P49-SS7-A (which also exhibits the highest levels of BN contamination), in addition to SS8-A. Delineation to the most stringent standard is required.

Arsenic

A review of the site operations and the analytical data, including the horizontal and vertical distribution of the arsenic, the lead to arsenic ratio, as well as the presence of glauconitic soils indicate the arsenic encountered in this area is representative of naturally occurring levels.

Volatile Organics

It is agreed further discussion regarding volatile organics in ground water at the M-18 Landfill is to be discussed in a forthcoming Remedial Investigation Report for the landfill.

USTs

As with the above parcels, although many tanks have received a designation of NFA, several tanks do not have sufficient documentation to be designated same. These include:

- UST-293-67 – per Appendix G, report submitted 2/26/96; no Departmental response
- UST-290-193 - per Appendix G, report submitted October 1993, no Departmental response
- UST 283-59 – per Appendix G, reported Closure Approval 2/24/00; no confirmation available
- UST 283-58 - per Appendix G, no sampling was performed
- UST 296-69 – per Appendix G, report submitted 2/26/96; no Departmental response

For those USTs which Appendix G indicates reports were previously submitted and not responded to, unfortunately, this office has no record of same and re-submittal is required for comment.

Parcel 50 – IRP Sites FTMM-54, FTMM-55 & FTMM-61

The Army acknowledges the Department's August 14, 2007 letter, the comments of which are to be addressed via Remedial Investigation Report Addendums for FTMM-54 (Site 296), FTMM-55 (Site 290) and FTMM-61 (Site 283). Submittal dates were not indicated. This office will await submittal of same.

Parcel 51 – 750 Area, 500 Area, 600 Area, 1100 Area – Former Buildings

The geophysical survey and sampling conducted at portions of the parcel were insufficient to allow for determination of NFA for the USTs previously/currently located in the parcel. Further investigation conducted north of Building 750 revealed the presence of USTs UHOT 1123B and 1123C at the two northernmost previously identified anomalies. The USTs were subsequently removed, as was affected soil. Although it is indicated all soils were removed to below 1000 ppm TPH, Table 2 at Attachment D appears to indicate soils at sample 1123B East Wall at 8.5-9' contains TPH at 9832.44 ppm. Clarification is needed.

Although it is understood the additional investigation undertaken in June of 2009 revealed the presence of the two above referenced USTs located above Semaphore Ave, it is unclear what efforts were made to investigate the nine potential USTs/anomalies noted on Figure 3.12-2 south of Echo Avenue? Are they all to be included in the Building 750 submittal?

Additional questions regarding USTs within the parcel remain. As above, documentation for closure approval or NFA is not available for confirmation on the following USTs.

No geophysical surveys, sampling or at least reports appear to have been performed or submitted for the following USTs - UST 68, 635, 637, 642, 643, 645, 647, 648, 649, 650, 651, 652, 653, 654, 656-97, 656-98, 657-90, 658-100, 660, 662, 663, 665, 667, 689-102.

Appendix O indicates USTs which do not appear to be "closed" per Appendix G which were/are also present in areas outside the geophysical survey, including those at Building 676, several along Sherrill Avenue north of Building 600, east of Brewer Ave by Buildings 545 and 554, Building 555, and several by Building 557.

Although Appendix G indicates closure reports were submitted, it also indicates no Departmental response was received for the following USTs - UST-682-106, UST 656-104, UST 659-101, UST 114-1, UST 645-78, UST 789-126.

USTs 750 – report pending

UST 501-76 – Appendix G indicates NFAed July 10, 1998, however confirmation unavailable

UST 551-80 – Appendix G indicates NFAed August 29, 2000, however, confirmation unavailable

UST 695 – Appendix indicates NFA August 24, 2000, however, confirmation unavailable

Parcel 52 – Building 699 – Army Exchange Services Gas Station

No comments based on submittal; Army acknowledges Department's March 18, 2011 comments; remedial efforts are ongoing.

Parcel 57 – Former Coal Storage & Railroad Unloading – 800 Area

Three surface soil samples contained B/Ns at concentrations above the NRDCSCC. The Department concurred with the general recommendation to conduct additional sampling, and required the submittal of a Remedial Investigation Workplan. The March 2012 submittal, however, states the exceedences were related to the asphalt pavement under which the samples were collected.

As with Parcel 49, it is agreed elevated levels of BN constituents related to asphalt rather than a discharge may be encountered beneath asphalt paving. However, information has not been submitted to document these sample results are not reflective of site operations, particularly given the nature of operations in the area. Delineation is necessary.

PCBs analyses was required due to the proximity of the railroad tracks/unloading area, as indicated in the Department's June 15, 2007 letter, rather than historical operations at Parcel 57.

As PCBs are often associated with rail road tracks and spurs, analysis for same is appropriate and remains a requirement.

Ground Water

Although the previous proposal for delineation of ground water exceedences was approved, the current submittal indicates NFA is warranted due to naturally occurring background conditions. The Department is conducting further review of the information provided.

Parcel 61 - Building 1075 – Patterson Health Clinic

Soil sampling conducted at the parcel indicated elevated levels of three base neutral compounds in a soil sample collected beneath an area of former asphalt paving at the southeastern corner of Building 1075. The Department is in agreement the PAHs are not reflective of a discharge nor of operations performed at the site. No additional action for same is necessary.

As discussed, the analyses for PCBs as indicated in the Department's October 2008 correspondence is not required, based upon a review of areas of concern located within the parcel.

UST 1076-209 – Although Appendix G indicates the closure report was being prepared, recent conversation indicates no submittal of the report is anticipated as the tank was a "clean closure." This would, of course, not allow for comment or designation of NFA for this tank. Additionally, information previously submitted indicates this tank was installed at a location at which a leaking UST was removed and remediated. It does not appear closure information for that UST was submitted.

Parcel 69 – Building 900 – Former Vehicle Repair/Motor Pool

The previous Departmental comments indicated soil sampling was inadequate for designation of NFA as analytical parameters did not include PCBs. Although it is understood your position is that PCBs are not suspected to have been disposed of in the former waste oil AST at Building 900, the Technical Requirements for Site Remediation, both those in effect at the time of sampling, as well as those currently in effect, require the inclusion of PCBs in the analytical parameters for sampling of soil when waste oil is involved.

Regarding analytical parameters for sediment sampling, that will be addressed as part of the ongoing facility wide ecological assessment.

One ground water sample previously indicated an exceedence of PCE. Per this submittal, the Army plans to resample the ground water at the location of temporary well point P69GW-1. Previous Departmental correspondence, however, stated the submittal of a ground water remedial investigation workplan was required for NJDEP review and approval. If resampling of a single location, in anticipation of a "clean" result is performed, rather than several delineation sampling points, please ensure the resultant submittal includes adequate rationale/justification to confirm the area of greatest possible contamination was sufficiently targeted.

Two USTs were previously noted as within the parcel. UST 900-142 was granted Closure Approval Letter/NFA on July 10, 1998, while documentation for closure approval or NFA is not available for confirmation on the following UST:

UST 900-141 Reported NJDEP UST Closure Approval Date 7/10/98

Parcel 70 – Building 551 – Former Photoprocessing

The October 28, 2008 Departmental correspondence concurred with the recommendation for no further action. As a note however, we do not have a copy of the Appendix G referenced 8/29/00 Closure Approval Letter for UST 551-80

Parcel 76 – 200 Area, 300 Area – Former Barracks

A geophysical survey was performed throughout Parcel 76, with suspect USTs noted in the western portion of the parcel. Although sampling conducted within that western portion of the parcel indicated no exceedences of the applicable cleanup criteria, additional investigation was required regarding the possible USTs.

Additional evaluation was documented in the June 2011 Remedial Investigation and Closure Report, which references Incident #s 09-11-04-1553-32, 10-04-28-1333-57, 10-04-13-1710-23, 09-11-19-1710-57 and 10-01-06-1342-44 and the removal of UHOTs 544, 543, 542, 541, 540, 539 and 538. Affected soils were reported removed to below the 1000 ppm contingency analytical threshold; a ground water investigation was performed via the installation of four monitor wells as ground water was encountered in the excavations.

The adequacy of the investigations/remedial actions presented in the report submittal cannot be determined, as insufficient information has been provided. No information was contained in Appendices A through E, nor were any Figures included (this information was missing in many of the Attachment D reports, some of which was obtainable through previous submittals and information, some not). No comparison could be made of UST locations against geophysical anomalies, sample locations, or monitor well locations. A review of Table 2/Summary of Laboratory Analyses as a stand-alone document (without sampling location/result maps, further association between sample ID and tank) is insufficient to allow for documentation of soils removal to below the above stated 1000 ppm contingency analytical threshold, or even the 5100 ppm EPH standard at each tank, or to determine if the ground water investigation (placement of monitor wells) was adequate.

Additionally, although it is agreed no USTs appear to remain in the eastern portion of Parcel 76, no remedial documentation was submitted for those former tank locations as noted on Appendix O and Figure 15 of the January 2007 ECP Report in the eastern portion of Parcel 76, as follows:

UST-261-45 UST-262-46 UST-263-47 UST-264-48 UST-265-49
UST-266-50 UST-267-51 UST-268-52 UST-269-53(contamination per Appendix G)

As previously discussed, a designation of no further action for these USTs cannot be issued without an investigation in accordance with the Technical Requirements for Site Remediation.

Parcel 79 – 400 Area Former Barracks

A geophysical survey was previously performed throughout the parcel, identifying potential USTs in only that portion as noted in Figure 3.19-1. Additional evaluation of the area encountered eight USTs, noted as UHOTs 437, 440, 441, 444, 445, 448 and 450 which were subsequently removed, while contamination was noted at Building 449. A ground water investigation is to be performed based upon the presence of ground water in the excavation. Additional comments regarding same will be forthcoming pending submittal.

As with Parcel 76, above, although it is agreed no USTs appear to remain, no remedial documentation was submitted for many of those former tank locations noted on Appendix O and Figure 15 of the January 2007 ECP Report at other areas of the parcel, and/or insufficient information currently exists to allow for designation of NFA.

North of Fisher Avenue

- UST-401-26 – per Appendix G, no samples were collected, no report submitted
- UST-411-28 – per Appendix G, report submitted 02/26/96, no Departmental response noted
- UST-416-32 – per Appendix G, no samples collected, no report submitted
- UST-421-37 – per Appendix G, report submitted 7/22/98, no Departmental response noted
- UST-423-39 – per Appendix G, report submitted 2/26/96, no Departmental response noted

South of Fisher Ave, North of Leonard Ave

- UST-430-45 – per Appendix G, report submitted 10/23/97, no Departmental response noted
- UST-447 – Not referenced on Appendix G; located east of grid sampling; sampling status unclear

South of Leonard Avenue

- UST-454-51 – Reported Closure Approval date 7/10/98 – no record of same
- UST-142-73 – per Appendix G, report submitted 10/23/97, no Departmental response received
- UST-142-13 – per Appendix G, report submitted 10/23/97, no Departmental response received
- UST-29-1 – per Appendix G, report submitted 11/22/91, no Departmental response noted
- UST-490-58 – per Appendix G, no sampling; “site closed by NJDEP”; no record of same
- UST-492-59 – Reported Closure Approval date 8/29/00 – no record of same
- UST-202-a – “clean closure”, no report submitted
- UST-202-b – per Appendix G, *30 tons of soil removed, report submittal pending*
- UST-202-21 – per Appendix G, TPH ND, no report submitted
- UST-202-22 – per Appendix G, TPH ND, no report submitted

Please submit documentation in accordance with the Tech Regs for each of the above to allow for comment/designation of NFA. For those which Appendix G indicates reports were previously submitted and not responded to, unfortunately, this office has no record of same and re-submittal is required.

Additionally, with the exception of the above referenced UST-454-51, and UST 475-52 (NFA 10/23/00), no documentation of sampling activities for that area shown on Appendix O extending from Tilly Avenue north to Leonard Avenue, previously shown to include approximately 22 USTs, appears to have been submitted.

Finally, please indicate what investigation, if any, has taken place at the two former and one current ASTs located north of Hazen Drive.

Parcel 80 – Former Buildings 105 & 106 - Photoprocessing

Prior to issuing a determination as to the adequacy of the soil sampling, additional information is required regarding the basis for establishment of the sample locations. Were as-builts or other plans available for the demolished buildings to assist in locating former floor drains, septic systems, discharge points, etc.?

Although the previous proposal for delineation of ground water exceedences was approved, the current submittal indicates NFA is warranted due to naturally occurring background conditions. The Department is conducting further review of the information provided.

Parcel 83 – Former Photoprocessing, Vehicle Maintenance, Coal Storage & Railroad Unloading, Maintenance Shops

The 2008 SI Report, Section 4.1.2, indicates “eight surface soil samples contained B/Ns at concentrations above the NJDEP NRDCSCC. Two surface soil samples contain lead at concentrations above the NJDEP NRDCSCC and MPBC. Further evaluation is recommended.”

While the exceedences at P83-SB9C were apparently not included in that statement, nor plotted, several PAH constituents were noted above the residential and non-residential criteria at 4.5-5'. Vertical delineation appears incomplete at this location.

Although this office does not as yet agree the PAH exceedences at this parcel are due to current/former asphalt (particularly at SB9 or B5), re-collection of the samples as proposed to assist in determining same is acceptable. The further evaluation must, of course, include all exceeded contaminant categories if the intent is to prove no discharge.

Trichloroethylene is reported on Table 3.21-4 of the SI Report above criteria at sample location P83-SB9B, at 5.8 ppm, at 1.5-2', with no discussion provided. Please provide same.

Metals exceedences were noted at three locations – SB10A, SB9A and B5A; this office considers location SB-10 to be above criteria for arsenic and lead (residential criteria is 400 ppm).

As regarding arsenic in soils, although it is agreed the site soils are often associated with elevated levels of naturally occurring arsenic, the parcel specific soil analytical results, the lead to arsenic ratio, and the decrease of arsenic with depth at those locations exhibiting an elevated level, do not appear to indicate the exceedences are naturally occurring, and must be included in a remedy.

As with the above parcels, although many tanks have received a designation of NFA, several tanks do not have sufficient documentation to be designated same. These include:

UST-421-37 – Per Appendix G, report submitted 10/23/97; no Departmental response
UST-273-65 - Per Appendix G, 6000 gallon gasoline tank still in use
UST-273-66 – Per Appendix G, 10000 gallon gasoline tank still in use
UST-273-67 – Per Appendix G, 10000 gal gasoline tank still in use
UST-117-72 – Per Appendix G, remedial action report completed July '98; status unknown
UST-108-7 – Per Appendix G, report submitted 2/26/96; no Departmental response
UST-108-60 through 64 – Per Appendix G, remediation efforts ongoing
UST-161-68 – Per Appendix G, waste oil tank RAR submitted 2/26/96, no response
UST-161-14 – Per Appendix G, RAR submitted 2/26/96, no Departmental response

Appendix O also includes several former USTs on the parcel which appear to have had no documentation of closure or investigation submitted, including those at Buildings 479, 66, 276, 485, 280, 281 and 167.

Electrical Substations

The October 28, 2008 correspondence indicated the need for establishment of a Deed Notice and engineering controls due to elevated levels of PCBs above the RDCSCC of 0.49 ppm. The March 2012 proposal is for resampling of the two locations at which results were above the criteria, with a letter report to follow. This is acceptable, however, please be advised a Deed Notice will be required for any soils left in place *within these two areas*, which exhibit a result of greater than 0.2 ppm PCBs. No engineering controls are required if all results are below 1 ppm.

Miscellaneous

Attachment E of the submittal references numerous letters from the NJDEP regarding UST closure approvals/NFAs, however, the letters dated July 23, 1993 and September 21, 1995 were not included in the submittal. Submittal of those two letters would be beneficial and appreciated.

Vapor Intrusion Investigation

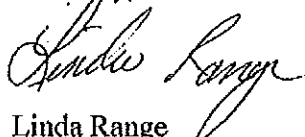
Submittal of the report is anticipated shortly.

Baseline Ecological Evaluation

Submittal of the amended report is anticipated shortly.

If you have any questions regarding this matter contact this office at (609) 984-6606.

Sincerely,



Linda Range
Bureau of Case Management

C: Joe Pearson, Calibre Systems
Rich Harrison, FMERA
Julie Carver, Matrix

ATTACHMENT B

NJDEP Closure/NFA Approval Letter for UST #2506-17 dated July 10, 1998

NJDEP Closure/NFA Approval Letter for UST #2624-34 dated July 23, 1993

NJDEP Closure/NFA Approval Letter for UST #2624-57 dated Sept. 21, 1995

NJDEP Closure/NFA Approval Letter for UST #2624-58 dated Sept. 21, 1995

NJDEP Closure/NFA Approval Letter for UST #2624-59 dated Sept. 21, 1995



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. James Ott
Director - Public Works
U.S. Army, Fort Monmouth
Fort Monmouth, NJ 07703

JUL 10 1998

Re: UST Closure Reports
Fort Monmouth Army Base
Tinton Falls, Monmouth County

Dear Mr. Ott:

The NJDEP is in receipt of UST closure reports noted below. These documents have been reviewed by the NJDEP throughout the closure process and the documents submitted were discussed throughout their drafting and in great detail upon submittal. Based on these steps and the final review conducted by me, the NJDEP accepts the closure reports and all of the NFA requests commensurate with these submittals.

NJDEP REG. NO.	BUILDING	CONTENTS	CAPACITY	PROPOSAL	DEP APPROVAL
90010-10	116C-MP/E	No. 2 Fuel Oil	2000	NFA	YES
81533-134	826-MP/W	No. 2 Fuel Oil	550	NFA	YES
81533-144	902-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81515-20	2529-CW	No. 2 Fuel	1000	NFA	YES
81515-22	2532-CW	No. 2 Fuel Oil	550	NFA	YES
81515-23	2533-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-31	2561-CW	No. 2 Fuel Oil	550	NFA	YES
90010-27	410-MP/E	No. 2 Fuel Oil	1080	NFA	YES
81533-206	1075	NOT SUBMITTED		WITH PACKAGE	
81515-16	2504B-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-18	2507-CW	No. 2 Fuel Oil	1080	NFA	YES
81515-26	2536-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-34	2503-CW	No. 2 Fuel Oil	1000	NFA	YES
90010-12	117B-MP/E	No. 2 Fuel Oil	2000	NFA	YES
90010-34	418-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-36	420-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-38	422-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-41	427-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-44	430A-MP/E	No. 2 Fuel Oil	550	NFA	YES
90010-50	453-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-51	454-MP/E	No. 2 Fuel Oil	1080	NFA	YES
81533-76	501-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81533-141	900A-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81515-17	2506-CW	No. 2 Fuel Oil	1000	NFA	YES
90010-8	116A-MP/E	No. 2 Fuel Oil	1000	NFA	YES
90010-11	117A-MP/E	No. 2 Fuel Oil	2000	NFA	YES
90010-53	480-MP/E	No. 2 Fuel Oil	1000	NFA	YES

61515-19	2508-CW	No. 2 Fuel Oil	550	NFA	YES
81533-228	804B-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81533-142	980B-MP/W	No. 2 Fuel Oil	1000	NFA	YES

The efforts made to assure protection of human health and the environment as well as the efforts made to make the entire closure process efficient and consistent with the NJDEP's Technical Requirements for Site Remediation (N.J.A.C. 7:9-6 et seq.) has been exceptional.

If I can be of any assistance, please do not hesitate to contact me should you have any questions or comments.

Sincerely,



Ian R. Curtis, Case Manager
Bureau of Federal Case Management
ICURTIS@DEP.STATE.NJ.US

cc. Kevin Kratina, BUST

FIMMTHS1.DOC



State of New Jersey
Department of Environmental Protection and Energy
Division of Responsible Party Site Remediation
CN 028
Trenton, NJ 08625-0028

Scott A. Welner
Commissioner

Karl J. Delaney
Director

US Army Ft. Monmouth
DEH Bldg. 167
Ft. Monmouth, NJ 07703

JUL 23 1993

RE: Illegal Closure of UST System
Monmouth County
UST# 0081533
TMS# C93-2619 *Bldg. 2624*

Dear Mr. Appleby:

On June 18, 1993 the New Jersey Department of Environmental Protection and Energy (the Department) received a report from your facility. This report documents the action undertaken in response to the closure of your underground storage tank system.

Based on our review of the information submitted, you are not required to conduct any corrective actions pursuant to N.J.A.C. 7:14B-8 at this time.

A Closure Plan Approval Application was also received and found to contain the necessary information as required in N.J.A.C. 7:14B. Since your tanks were closed without prior approval from the Department as required by N.J.A.C. 7:14B, no permit will be issued.

Thank you for your cooperation in this matter.

Very truly yours,

Kenneth T. Hart

K

Kenneth T. Hart
Assistant Director
Industrial Site Evaluation Element

c: Health Department
Fred DeClement



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. James Ott
SELFM-EH-EV
Department of the Army
Headquarters CECOM Fort Monmouth
Fort Monmouth, NJ 077703-5000

SEP 21 1995

Dear Mr. Ott:

Re: UST Site Investigation Reports - August 1995
Fort Monmouth Army Base
Tinton Falls, Monmouth County

The NJDEP is in receipt of several Site Investigation Reports submitted by Smith Environmental Technologies Corporation for multiple UST removal and investigations being conducted at the Fort Monmouth Army Base in Tinton Falls. The reports were as follows:

<u>Building</u>	<u>Location</u>	<u>UST Registration Number</u>
9099	Evans Area	0090020-38 & 39
9332	Evans Area	0090029-40
205	Main Post Area	081533-3
208A	Main Post Area	081533-6
209	Main Post Area	081533-7
8003	Wayside Area	0192477-1
8004	Wayside Area	0192477-4
8005	Wayside Area	0192477-2
8006	Wayside Area	0192477-3
2624	Charles Wood Area	081515-57, 58, & 59

GENERAL COMMENTS:

QA/QC. The NJDEP and the Army have agreed that QA/QC would be conducted under Army scrutiny in a manner consistent with the Technical Requirements for Site Remediation (Tech Regs - N.J.A.C. 7:26E), specifically Subchapter 2, and NJDEP policy. These reports do not contain any information which notifies the NJDEP that the information provided has been QA/QC'd and is therefore accurate. Without this information, the NJDEP cannot approve of the documents submitted.

It was frequently unclear how many feet and how many samples were taken in the investigation of the UST associated piping. Future submittals should clearly state these facts and provide any reasoning for divergence from the Tech Regs.

SPECIFIC COMMENTS

The comments on these documents are referenced by the associated building number.

9332:

The major concerns with this report are regarding the ground water investigation. Monitor Well, MW-1, located downgradient of the site, has been found to have exceedences of lead and tetrachloroethene. The NJDEP has noted the distinct drop in these contaminant levels over the two

sampling rounds (September 1993 and November 1993) and we recommend that the monitor well should again be sampled to determine if the levels of contaminants have dropped below the GWQS. It has been further noted that several compounds which were sampled for were analyzed using equipment, analytical methodology or laboratory procedure which was not capable of quantitation levels which were lower than the GWQS. This is not acceptable. All future sample analysis must be performed using equipment and procedures with Method Detection levels at or below the corresponding GWQS.

Page 8, Section 2.4.1. Purge water may be disposed of on site as provided in the Field Sampling and Procedures Manual, dated May 1992 (Page 14).

Page 9, Section 3.2. Lead was detected in MW-1 at a concentration of 64 ug/l, not 3.8 ug/l as stated. Tetrachloroethene was detected at 3.8 ug/l. As discussed above, both were found in excess of the GWQS.

Appendix B, Page 3. Article VI should have been checked YES.

9099:

Please see the comment above regarding using equipment, analytical methodology and laboratory procedures to assure that the sample analysis quantitation levels are below the GWQS. As a result of quantitation levels being well above the GWQS, the NJDEP cannot accept the monitor well results submitted with this specific report. At a minimum of one additional ground water sample analysis must be performed on a sample of water taken from MW-1 at building 9099.

205:

Please explain why only 2 samples were taken along the 48 feet of UST piping. As per the Technical Requirements for Site Remediation (Tech Regs) - 7:26E-3.9.5(II), one sample per 15 linear feet is required (up to 50 linear feet).

This report is acceptable provided this comment is appropriately addressed.

208A:

Please explain why no soil samples were taken along the 48 feet of UST piping. As per the Technical Requirements for Site Remediation (Tech Regs) - 7:26E-3.9.5(II), one sample per 15 linear feet is required (up to 50 linear feet).

209:

No further comments.

8003:

No further comments.

8004:

No further comments.

8005:

No further comments.

8006:

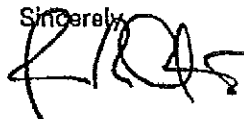
No further comments.

2624:

No further comments.

If you should have any questions or require additional information, please do not hesitate to contact me at (609) 633-1455.

Sincerely,

A handwritten signature in black ink, appearing to read 'I.R.C.', written over the word 'Sincerely,'.

Ian R. Curtis, Case Manager
Bureau of Federal Case Management

RPCEBFCMIFTMMTH29JRC

ATTACHMENT C

Army Real Property Records for Former Buildings 2505 and 2566

- Revised - *ITB/AG*

1. STATION CAMP WOOD, N.J.		2. DESIGNATION ADMINISTRATION T.O. AMMUNITION BLDG.			
3. DATE MAR. 1951	4. DRAWING NO.	5. COST ACCOUNT CODE 3520	6. BUILDING NO. T-2505		
7. DIMENSIONS		8. MATERIALS		9. SPACE HEATING	
a. MAIN BLDG. 10' X 20'		a. FOUNDATION CONC. BLOCK		a. SOURCE <i>None</i>	
b. OFFSETS		b. FLOORS CONCRETE		b. FUEL <i>None</i>	
c. WINGS		c. WALLS CONC. BLOCK		11. HOT WATER FACILITIES	
d. BASEMENT		d. ROOF ROLL ROOFING ON WOOD		a. CAPACITY <i>None</i>	
e. ADDITIONS		10. NO. OF USABLE FLOORS ONE		b. TEMP. RISE <i>None</i>	
12. FIRE PROTECTION FACILITIES		13. UTILITY CONNECTIONS	NO.	SIZE	CAPACITY
		a. WATER			
		b. SEWER			
14. REMARKS		c. ELECTRIC	1		
		d. GAS			
		e. STEAM			
		f. CONDENSATE			
DATE COMPLETED	VOUCHER NUMBER	DESCRIPTION		DESIGNED CAPACITY	FLOOR AREA (Square Feet)
<i>1948</i>		ORIGINAL BUILDING Est. Cost, \$6,500.			INT. 160
<i>TRANS. TO WATSON</i>	<i>AB. (Inv. Conts)</i>	<i>- Voucher 203-C-5 11/22/45</i>			EXT. 200
AS PER INVENTORY		APR 26 1951	DEC 22 1952		
REAL PROPERTY RECORD - BUILDINGS					

WD AGO FORM 5-47
1 NOV 1945

T-2505

E-7

DATE 7/27/43

REAL PROPERTY RECORD
BUILDINGS AND STRUCTURES

COST ACCT. CODE NO. 610-334

POST Camp Wood Watson Lab.

DESIGNATION Ammunition Bldg.

POST BUILDING NO. T-2505

T.O. PLAN NO. None

SIZE: MAIN BUILDING 10x20

WINGS

BASEMENT

HOW HEATED None

FIRE PROTECTION FACILITIES — TYPE

NO. FLOORS INCLUDING BASEMENT

HOT WATER — CAPACITY GALLONS None

MATERIALS:

FOUNDATIONS Concrete Block

FLOOR Concrete

WALLS Concrete Block

ROOF Roll Roofing on wood

UTILITY CONNECTIONS	NUMBER	SIZE OR CAP.
WATER	_____	_____
SEWER	_____	_____
ELECTRIC	_____	_____
GAS	_____	_____
STEAM	_____	_____

REMARKS

Transferred to Watson Lab. (Air Corps) - Voucher # 303-C-5 1 March, 1945

ORIGINAL CONSTRUCTION AND CHANGES — ADDITIONS (IN BLACK) — DELETIONS (IN RED)

DATE COMPLETED	REFERENCE	DESIGNED CAPACITY	SQ. FT. FLOOR AREA ABOVE BASEMENT	COST OR VALUE	REMARKS
<u>42</u>			<u>200</u> <u>100</u> <u>5x7</u>	<u>\$</u>	ORIGINAL BUILDING
					TOTALS CARRIED FORWARD

1. FACILITY NO. <i>T-2505</i>	2. DESIGNATION <i>GEN. STOREHOUSE</i>	3. CATEGORY CODE <i>B44270</i>	4. DESIGNED CAPACITY <i>INT. 160 #</i>	5. TOTAL AREA <i>EXT. 200 #</i>
6. UNIT OF MEASURE <i>S.F.</i>	7. DRAWING NO.	8. MAP NO.	9. <input type="checkbox"/> LEASED <input checked="" type="checkbox"/> OWNED LEASE NO.	
10. AIR CONDITIONING		16. FIRE PROTECTION		18. TYPE OF CONSTRUCTION
a. TYPE		a. NUMBER		<input type="checkbox"/> PERM <input type="checkbox"/> SEMI-PERM <input checked="" type="checkbox"/> TEMP
b. CAPACITY		b. TYPE		19. BUILDING DIMENSIONS
c. SQ YD AIR COND		17. MATERIALS		a. MAIN BLDG <i>10' X 20'</i>
11. HEATING		a. FOUNDATION <i>CONC. BLOCK</i>		b. OFFSETS
a. SOURCE		b. FLOOR <i>CONCRETE</i>		c. WINGS
b. FUEL		c. WALLS <i>CONC. BLOCK</i>		d. BASEMENT
12. HOT WATER FACILITIES		d. ROOF <i>ROLL ROOFING ON WOOD</i>		e. ATTIC
a. CAPACITY		e. SURFACE		20. TYPE OF CARD
b. TEMPERATURE RISE		f. BASE		<input checked="" type="checkbox"/> BLDG <input type="checkbox"/> MISC STR
13. NO. USABLE FLOORS <i>ONE</i>		14. OTHER MEASUREMENTS		
15. UTILITY CONNECTIONS				21. REMARKS <i>FT. Mon. N.J. Camp Wood R</i>
	NUMBER	SIZE	CAPACITY	
a. WATER				
b. SEWER				
c. ELECTRICITY	<i>1</i>			
d. GAS				
e. STEAM				
f. CONDENSATE				

DA FORM 2877
1 NOV 64

* GPO : 1965 O-759-639

REPLACES DA FORMS 5-46, 5-47, 5-49, 5-50,
5-51, AND 5-52, WHICH ARE OBSOLETE.

REAL PROPERTY RECORD
(AR 735-27)

CATEGORY CODE <i>B 44270</i>	DESIGNATION <i>GEN STOREHOUSE</i>	FACILITY NO. <i>T 2505</i>	<i>E7</i>
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1. FACILITY NO. 2566		2. DESIGNATION Gen Storehouse		3. CATEGORY CODE 44270		4. DESIGNED CAPACITY		5. TOTAL AREA 441 SF	
6. UNIT OF MEASURE SF			7. DRAWING NO.			8. MAP NO. E-7		9. <input type="checkbox"/> LEASED <input checked="" type="checkbox"/> OWNED LEASE NO.	
10. AIR CONDITIONING				16. FIRE PROTECTION				18. TYPE OF CONSTRUCTION	
a. TYPE				a. NUMBER				<input type="checkbox"/> PERM <input type="checkbox"/> SEMI-PERM <input checked="" type="checkbox"/> TEMP	
b. CAPACITY				b. TYPE				19. BUILDING DIMENSIONS	
c. 30 YD AIR COND				17. MATERIALS				a. MAIN BLDG 21'x 21'	
11. HEATING				a. FOUNDATION CMU Piers				b. OFFSETS	
a. SOURCE				b. FLOOR Steel Joist				c. WINGS	
b. FUEL				c. WALLS Steel Frame				d. BASEMENT	
12. HOT WATER FACILITIES				d. ROOF Steel Truss				e. ATTIC	
a. CAPACITY				e. SURFACE Galv. Steel				20. TYPE OF CARD	
b. TEMPERATURE RISE				f. BASE Metal				<input checked="" type="checkbox"/> BLDG <input type="checkbox"/> MISC STR	
13. NO. USABLE FLOORS ONE			14. OTHER MEASUREMENTS			<input type="checkbox"/> UTIL DIST SYS <input type="checkbox"/> RAILROAD			
						<input type="checkbox"/> LAND <input type="checkbox"/> SURFACED AREAS			
15. UTILITY CONNECTIONS						21. REMARKS			
	NUMBER	SIZE	CAPACITY	FY 80 DEMO					
a. WATER									
b. SEWER									
c. ELECTRICITY									
d. GAS									
e. STEAM									
f. CONDENSATE									

DA FORM 2877
1 NOV 64

GPO: 1972 O-458-348

REPLACES DA FORMS 8-46, 8-47, 8-49, 8-50,
8-51, AND 8-52, WHICH ARE OBSOLETE.

REAL PROPERTY RECORD
card 1 of 2
(AR 735-27)

CATEGORY CODE
44270

DESIGNATION
GEN STOREHOUSE

FACILITY NO.
E-2566