Site Characterization and Remedial Investigation Summary Report

2 Love Road Site
BCP Site No. C314113

Herbert Redl Properties
Poughkeepsie, NY

July 2006

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SITE CHARACTERIZATION AND REMEDIAL INVESTIGATION SUMMARY REPORT HERBERT REDL PROPERTIES – 2 LOVE ROAD

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1.0 INTRODUCTION

This report presents a summary of the remedial investigation conducted at 2 Love Road in the Town of Poughkeepsie, Dutchess County, New York (Figure 1). The new owners of the property intend to restore the site to commercial use and have received approval from the Town to construct a self storage facility. During some preliminary geotechnical work prior to construction, the current owner of the property (the BCP Volunteer) encountered petroleum-impacted soil in the vicinity of the existing foundations. As a result of this discovery, the Volunteer wishes to remediate the site in accordance with the requirements outlined in the BCP. Remediation will be consistent with the intended future use of the property.

The site at 2 Love Road consists of approximately 4.6 acres of land, and is identified as three separate tax parcels, also shown on Figure 2:

Street Numbers	Tax I.D.
83-85 Dutchess Turnpike	14-6261-01-173893-00
87-91 Dutchess Turnpike	14-6261-01-188903-00 (2 Love Road)
97-99 Dutchess Turnpike	14-6261-01-205886-00

Access to the site is along Love Road, which intersects with Burnett Boulevard Extension. Love Road curves through the site and provides access to both the lower and upper portions of the property.

Site elevation varies from approximately 196 feet above sea level at the far southeastern end of the property to approximately 152 feet above mean sea level at the far northwestern end of the property (Figures 1 & 4). Considering site topography, it is likely that much of the southern portion of the property is fill material brought in during the construction and elevation of Route 44.

2.0 SITE DESCRIPTION

2.1 Site History

The parcel located at 83-85 Dutchess Turnpike (Tax I.D. 14-6261-01-173893-00) was formerly owned by Dutchess County. The parcel was taken in lieu of taxes owed by the prior owner. This parcel is located on the west side of the proposed development. See Figure 2 for the tax parcel boundaries.

The central parcel (Tax I.D. 14-6261-01-188903-00) was formerly owned and operated by E.A. Aldrich through the late 1950s as a gas station, until the NYSDOT widened and elevated Route 44. By eminent domain, the expansion of the roadway required 10-15 feet of the property. This land loss required the gas station to close, at which point Love/Effron Oil purchased the property to operate a petroleum bulk oil storage facility.

The PBS facility closed in the late 1980s but during operation utilized a 2,500,000-gallon fuel oil tank, two 25,000-gallon tanks and three 20,000-gallon tanks. The 25,000 and 20,000-gallon tanks stored fuel oil. The 2,500,000-gallon tank was located in a diked storage area to the north of the existing foundation, which likely was used as a garage and/or loading facility. The 25,000-gallon tanks and one of the 20,000-gallon tanks were located on a concrete pad along the fence in the

central portion of the property, near what is believed to be the former truck loading facility. The other 20,000-gallon tanks were located on cradles between the former garage and fenced area. The NYSDEC Petroleum Bulk Storage (PBS) Unit reported the tanks were cleaned and abandoned in the early 1990s by the former owner/operator. Both a NYSDEC PBS registration certificate and a letter from Luzon Environmental Services have been obtained stating the tanks have been closed and removed. The PBS certificate indicates an active 550-gallon gasoline tank remains on site, which is discussed further in Section 3.4 of this report.

2.2 Adjacent Land Use

Adjoining parcels are primarily commercial real estate. The property is abutted immediately to the south by NYS Route 44, commonly known as the Dutchess Turnpike and to the east by an abandoned railroad bed. The rails and most ties have been removed. Further northeast of the site along Route 44 are several small commercial establishments; however, further east and north of the property is a residential development. Commercial establishments occupy the southern side of Route 44 directly across from the site.

The property is surrounded to the north and west by a commercial plaza commonly referred to as either the Dutchess Center Plaza or Route 44 Plaza. This plaza was constructed on lands that previously contained the Poughkeepsie Municipal Landfill. This parcel was historically subject to numerous investigations and subsequently removed from the NYSDEC's list of potential inactive hazardous waste sites. The landfill mass was moved and consolidated into a mound that currently exists on the northern boundary of the shopping plaza.

2.3 Current Conditions

The existing site conditions are shown on Figure 3. The property consists of parcels on both sides of Love Road. The southern and eastern sides of the property are elevated, and the topography slopes down, often sharply, toward the northwest. The open area in the central part of the property is generally flat (Figure 4).

The foundation of a demolished building exists on the southern side of the site. An approximate 0.1-acre pond lies in the center of the property, north of the existing foundation.

The property is serviced with gas lines that run along Love road toward Route 44. Municipal water and sewer lines run along Route 44 at the southern edge of the property. There is an existing fire hydrant at the end of Love Road.

2.4 Site Geology

Depth to bedrock at this site is highly variable. In some locations bedrock was encountered at depths greater than 18 feet below ground surface (bgs); in other locations the rock was outcropped and visible at the ground surface. The property is highly variable in its topography and is formed mostly by the steep slope of the rock surface in this area, as well as placement of fill material associated with the former and current locations of the Route 44 roadway, the railroad bed east of the site, and the dike-containment structure built to accommodate the 2.5-million gallon fuel tank.

The land surface at the site generally slopes toward the northwest, and the property itself is terraced on two levels by the step-shaped structure of the bedrock ridge. From the base of the slope at the

rear of the existing shopping plaza building, Love Road proceeds eastward up the moderate slope, and curves toward the south along a somewhat broad ridge and forms the upper terrace at the east and southeast sections of the site. At the southeast corner of the site are stockpiles left from the demolition of a 2-3 story masonry building. East of the property boundary lies an abandoned railroad bed that was built upon another rise in the slope.

Outcropped rock is visible at the base of Love Road toward the south, and along the northern side of the road. The lower terrace is formed within the curve of Love Road, where there is the open area of the former PBS facility. This is where the former 2,500,000-gallon fuel tank was located. Test pits and soil probes advanced throughout this area revealed that there is a somewhat circular depression on the terrace of the rock where glacial deposits have accumulated. These deposits consist of a very dense/stiff, dark gray to dark blue clay and silt. This material is known locally as "blue clay". Construction fill material then overlies this clay, to varying depths, to level out this section of the property. Observations of test pits in this area indicated that petroleum impacts were generally confined to the coarser grained sand and gravel construction fill on this site. The dense gray-blue clay and silt, where present, appeared to act as a confining layer for petroleum.

The remains of the site buildings on the west side of Love Road are situated such that the bottom floors are level with the lower, central terrace of the site, which would have been the base of the large tank, and the top floors were level with the upper terrace at the southeastern end of the road. It was at this upper level where the fuel pumps were located for the former gasoline station. At the northeast corner of the site, the grade has been flattened to form a parking or staging area.

Geoprobe soil borings indicate that bedrock may be deeper in the southern portion of the site. Bedrock elevation data were used to create a bedrock contour map, Figure 4. Surficial terrain prevented access or test pits in some areas of the subject site. Therefore, some points on the bedrock contour map have been interpolated between known bedrock elevations. Surface contours are also shown on the figure.

2.5 Site Hydrogeology

A small detention pond is present in the lower, central area of the site. This pond may have been part of a former storm water management system. Historical aerial photographs indicate that the retention pond was in place at the same time as the 2,500,000-gallon fuel tank.

The central terrace area, and the retention pond, appeared to form a localized collection area for shallow groundwater and surface water runoff. Observations indicate that shallow groundwater may be flowing off the steep grade of the rock slope, accumulating temporarily within the depressional area on the central terrace, and continuing down the next rock slope toward the low-lying area near the existing shopping plaza.

During the site investigation, test pits revealed that groundwater flow is generally from the southeast to the northwest in the area, following the formation of the rock slope. Groundwater encountered in test pits at the east/southeast section of the site was very shallow (sometimes less than 4.0 ft. bgs) and appeared to be flowing rapidly toward the north and northwest. Bedrock was also very shallow in these areas and it appeared that shallow groundwater flowed along the surface of the rock, following the slope of the rock topography.

Previous investigations at the shopping plaza property indicate that this area was historically a flat, low-lying wetland. The wetlands likely were the localized collection area for shallow groundwater discharging off the steep grade of the surrounding rock and glacial deposits in the area.

There is a manmade drainage course that runs under and along Burnett Boulevard Extension that was inundated with water during the shopping plaza investigation. This swale or drainage course may be conveying shallow groundwater away from the site. The discharge point of the swale is not known.

Groundwater is not used as a potable resource in the area according to available information; therefore, risks associated with impacts to groundwater are expected to be minimal. One production well is known to exist on the property which has not been used since the installation of public water supply. The well lies within a portion of the existing building foundations that have been filled with sand and gravel.

Based on the measured water depth in two temporary monitoring wells on site, shallow groundwater ranges from 4 to 8 feet below ground surface in the area of the central terrace. The native material found beneath the fill is a very dense silt-clay mixture. In test pits, water observed within this material seeped out very slowly, if at all.

2.6 Previous Investigations

No previous investigations have been completed for the subject site prior to the remedial investigation. In 2004 the current owner of the property (the Volunteer) encountered petroleum-impacted soil in the vicinity of the existing building foundations during preliminary geotechnical work prior to construction. Test pits excavated on the northwestern side of the foundations near the former bulk oil storage facility were excavated to about three feet below ground surface. Petroleum staining and odor was detected in these test pits, indicated that the soils were impacted with petroleum, however no samples were taken at that time to confirm the nature and extent of impacts. The soils encountered in the initial test pits were described as primarily silty fine sand with some fine to medium gravel. No water was encountered during excavation, and the test pits were left open to facilitate later inspection. Upon returning to the site during the BCP Pre-Application Inspection with the NYSDEC representatives, the test pits were filled with water. It had rained significantly prior to the inspection however these test pits were located in a relatively flat, open area that did not receive significant amounts of surface runoff. The presence of standing water in the test pits is interpreted as being a function of shallow groundwater discharging from the steep rock slope to the east and accumulating in the lower central area of the site.

3.0 REVIEW OF FIELD WORK

The Remedial Investigation was performed to determine to what extent the site has been impacted by the historic use of the property and determine if the applicable soil cleanup guidance values and groundwater standards have been exceeded.

The following field work was accomplished in compliance with available technical guidance including:

- The requirements outlined in the NYSDEC TAGM 4007- Phase II Investigation Generic Work Plan,
- DER-10, Technical Guidance for Site Remediation, December 2002, and
- The USEPA Guidance for conducting RI/FS investigations under CERCLA.

The sampling and analytical protocols used during this project were in conformance with the specific guidelines established in the BCP guidance document and DER-10.

The soils encountered were logged in the field by a Fuss & O'Neill field engineer. Evidence of soil staining, odor, changes in lithology, moisture content, etc. were recorded. Test pit logs were generated to aid in the creation of a conceptual site model and are included in Appendix A.

All tasks in the Remedial Investigation Work Plan were completed with the exception of sediment sampling in the small on-site pond. The samples, to be used as part of a Fish and Wildlife Resource Impact Analysis (FWRIA), will be collected during the next mobilization to the site.

3.1 Test Pits

The first phase of the Remedial Investigation took place June 16-21, 2005 and consisted of digging test pits throughout the subject property. Test pits were placed throughout the site where accessible by an excavator, as shown in Figure 5. The test pits were generally excavated until native soils were encountered or to refusal. Broken pieces of brick were often seen in test pits throughout the site, verifying that much of the site is fill material.

The first test pits were dug in the area of the former 2,500,000-gallon fuel storage tank, in the area north of the existing foundation. Test pit TP-01, located adjacent to the pond, immediately filled with water at an approximate depth of 3 feet. Test pit TP-02, located approximately 20 feet to the southeast, was dug to a depth of 18 feet (the limits of the excavator) and water seeped in slowly after being open for about 30 minutes. Dense dark gray-blue silt and clay was observed from 7.5 to at least 18 feet below ground surface. Groundwater appeared to seep from moderately dense silt at approximately 5.5 feet below ground surface. Test pit TP-07 on the west side of the central terrace was dug to a depth of 13 feet and no blue clay was observed. The heaviest visual and olfactory impacts were observed in test pit TP-03 adjacent to the existing foundation. A sheen was noted on the shallow groundwater. Relatively thin layers of stained silt were observed over the central portions of the site in test pits TP-04, TP-05, and TP-06.

Test pits TP-08 and TP-09 were dug on either side of the concrete pads located at the northern entrance of the property. This is the location of the former fuel unloading facility. Bedrock was encountered at a depth of 3.5 feet in TP-08 and no adverse impacts were observed. However, test pit TP-09 was dug approximately 20 feet south of test pit TP-08, and an oily sludge was observed on the bedrock 4.5 feet below ground surface. The impacted soil was approximately 2 feet thick. The bedrock in test pit TP-09 was sloped toward Love Road. No groundwater was observed in this particular part of the shallow overburden.

Along the western border of the property and part of the southern border, seven test pits were installed to begin delineation of the suspected impacts seen around the existing foundation. The test pits were dug to bedrock. No obvious impacts were seen along the western border (test pits TP-10 through TP-14); however, moderate petroleum odors were observed in test pit TP-16.

From this line of test pits along the property boundary, another line of test pits was started approximately 100 feet to the east, along the tree line in the center of the lot. Test pits TP-18 through TP-21 had no apparent odor, but had a layer of slightly stained dense silt. Test pit TP-22, located approximately 25 feet north of test pit TP-21, had a very strong petroleum odor and the same gross contamination seen in TP-09 was observed. Impacts vertically ranged from approximately 5 feet below ground surface to bedrock at 9 feet below ground surface. Historically, the area surrounding test pit TP-22 was apparently used as a dumping area. Construction debris and some household garbage were dug up. Also, a steel perforated corrugated pipe ran approximately 3 feet below ground surface into an apparent brick drywell or septic. The age of the drywell and debris is unknown; however, most the bricks were broken and the well was mostly demolished. Test pit TP-23 was dug adjacent to test pit TP-22 to determine the reach of the steel perforated corrugated pipe. The pipe ran approximately 10 feet from the apparent well. Much of the same debris and impacts were seen in test pit TP-23. Test pits TP-24 and TP-25 were dug to delineate the impacts west of the dumping area. Test pit TP-25 had a slight petroleum odor at the bottom of the pit (6.5 feet), and test pit TP-24 had no observed impacts.

The next line of test pits was started near Route 44 alongside the existing foundation. Test pits TP-17, TP-27, and TP-28 all had a strong petroleum odor and obvious soil impacts. Soil from test pit TP-17 had a distinct gasoline odor, rather than fuel oil. These pits were dug to 9.5-10.5 feet below ground surface, and bedrock was not encountered.

Test pit TP-29 had no apparent odor and possible slight staining, while TP-30 had slight petroleum odors. Test pit TP-31 had a moderate petroleum odor and obvious soil staining. Test pits TP-32 and TP-33, located along the berm near the pond, had no evident odors, and possible light soil staining. Lack of impacts observed at these four locations suggest that there were two separate sources of contamination – near the former fuel unloading area and near the existing foundations. The contamination originating near the former fuel unloading area is possibly confined by the dense blue silt and clay underneath. The same situation may apply to the impacts seen near the foundations. Some test pits surrounding that area had a thin layer of blue clay noted, which may aid in keeping impacts confined.

The next group of test pits was located across Love Road north of the main lot. Historic use of this small triangular-shaped parcel is unknown. Six test pits were installed over the parcel, test pits TP-34 through TP-39. Impacts seen in this area had a distinct petroleum-based odor, possibly weathered fuel oil or creosote. The most heavily impacted soil was found along Love Road. As the test pits progressed back toward the northern corner of the parcel toward test pit TP-34 the soil became less impacted, and were noted to be undisturbed along the property line. Railroad ties were dug up in test pits TP-35 and TP-36. Large angular gravel observed over a thickness of 2 feet in test pit TP-39 was similar to gravel seen in the old railroad bed adjacent to the parcel.

The final group of test pits was installed at the end of Love Road along Route 44, on the upper terrace of the subject property. Native material was encountered between 1 and 6 feet below ground surface in test pits TP-40, TP-41, and TP-42, and no obvious impacts were seen in the immediate area. Test pits placed on top of the existing foundations generally revealed fill in the top 6-8 feet of material, including brick, asphalt pavement, gravel, silt and clay. Moderate to strong petroleum odors were observed in test pits TP-43, TP-46, and TP-47 at varying depths of 5-12 feet below ground surface.

At a depth of 3 feet in test pit TP-45, fill and vent pipes for a small underground storage tank (UST) were encountered. See Section 3.4 below for additional information on the tank.

3.2 Soil Probing

To more accurately define the bedrock surface underlying the subject property, 29 soil probes were advanced on August 1, 2005. Fuss and O'Neill had temporary monitoring wells installed in two of the probe locations.

The soil probes were completed by advancing a steel rod through the overburden material to assess the depth to bedrock. Because a soil coring method was not used, no soil descriptions were recorded and no samples were collected. The probes were spread over the entire site where accessible, and placed specifically to determine where contamination at the bedrock level might migrate. Locations are shown in Figure 5.

Soil probe logs were generated to aid in the creation of a site bedrock contour map and conceptual site model and are included in Appendix A.

3.3 Temporary Monitoring Wells

Two of the soil probes were converted to small diameter shallow monitoring wells by installing a 1-inch diameter PVC using the direct push method (GEOPROBE). Once the probe was complete, a well-string was inserted, which consisted of a slot well screen (0.010" slots) and riser. The annular space was filled with # 1 sand to approximately two feet above the top of the screen, and a bentonite seal was placed above the sand pack. The well screen was set to intersect the water table. The monitoring wells were sealed with a non-locking cap. The monitoring well locations are provided on Figure 5, and monitoring well completion forms are provided in Appendix A.

The intent was to select well locations which would address the most significantly impacted areas and enable adequate characterization of groundwater flow in the unconsolidated formation. Wells were placed in SB-14 (adjacent to TP-28) and SB-25 (on central terrace north of the existing foundation).

At the time of installation, the wells were used to measure the depth to water only. The shallow wells were sampled later on September 9, 2005 to characterize groundwater quality. The depth of the water table was measured using an electronic interface probe. Water depth had decreased likely due to dry weather conditions. Monitoring well MW-01 was sampled and dried up after approximately 2 liters of water were extracted. Monitoring well MW-02 was exhausted almost immediately. The wells did not recover within the 3-hour site visit.

3.4 Tank Removal Interim Remedial Measure (IRM)

As part of the site investigation, NYSDEC reviewed existing petroleum tank registrations for this site. It was found that all tanks at the site had been closed and removed with the exception of one 550-gallon UST. The location of the tank is unknown. During field work, a 1,000-gallon tank was found that did not appear on the registration certificate. This tank was discovered in test pit TP-45. It is believed that this may be the tank shown on the registration certificates, indicating an incorrect size. Removal of the tank became the subject of an Interim Remedial Measure (IRM), approved by the NYSDEC in October 2005. If another tank is discovered during future work, the Volunteer

agrees to properly clean and dispose of the tank in the event it is encountered during the site remediation or development activities.

The tank was removed on November 8, 2005. The approximate location of the tank is depicted on Figure 6. The equipment and operator was supplied by the property owner and BCP Volunteer. Ira D. Conklin & Sons, Inc. of Newburgh, New York cleaned and removed the tank on December 1, 2005.

The tank appeared to be surrounded with the same dense blue-gray silt and clay as observed in other areas of the site. Staining and strong odors were observed under and on the sides of the tank pit. Soil from beneath the tank was not stockpiled because data gathered from test pits in the surrounding area show that soil is impacted over a large area encompassing the tank location. It is unknown whether impacts are due to the removed tank. Impacted soil will be addressed in the Remedial Action Work Plan (RAWP).

4.0 SITE INVESTIGATION SAMPLING AND ANALYTICAL RESULTS

Representative soil samples were taken from the test pits according to the procedures identified in the Standard Operating Procedures (SOPs) for test pit excavation sampling provided in the QAPP. In some cases, multiple samples were obtained from a test pit for laboratory analysis; in other cases no samples were taken from the test pit, especially when it was noted that the material encountered in one location was identical or composed of the same material as an adjacent test pit.

4.1 Sampling

Samples were analyzed to assess the horizontal and vertical extent of the impacted areas. The bulk of the soil samples focused on the edges of the suspected impacted areas. Fewer soil samples were collected from the areas where obvious contamination was encountered; however, some samples were obtained from the significantly contaminated areas to determine whether these areas represent a significant threat to the environment.

Select soil samples were screened in the field for the presence of volatile organic compounds using headspace analysis with a photoionization detector (PID); however, in areas where contamination was obvious, samples were not screened. Sampling locations may be seen on Figure 5. In total, 68 soil samples were submitted to the lab, and were screened for the Target Compound List (TCL) and for the Spill Technology and Remediation Series (STARS) list of volatile organic compounds (VOCs) using USEPA method 8260B. Samples were also screened for semi-volatile organic compounds (SVOCs) using USEPA method 8270C, and for the Target Analyte List (TAL) of metals. Soil analytical results are summarized in Tables 1, 2 and 3.

One groundwater sample from each of the temporary monitoring wells was collected and submitted the laboratory for analysis along with a field blank. The sample from MW-01 was analyzed for VOCs (Method 8260B TCL), and SVOCs (Method 8270C). The sample from MW-02 was screened for SVOCs, only. Preliminary results were available at the time this report was written as the data have not been checked by the quality assurance officer. Preliminary groundwater results are summarized in Tables 4a and 4b.

Five soil samples were collected at the time of the removal of the 1,000-gallon fuel oil tank located above the existing foundation. The samples were representative of the impacts along each side of the tank grave, and the bottom. The samples were analyzed for volatile organic compounds (VOCs) plus MTBE using USEPA method 8021 and for semi-volatile organic compounds (SVOCs) using USEPA method 8270, base/neutrals only. Analytical results for these samples are summarized in Tables 5a and 5b.

All samples were analyzed using ASP Level B analytical protocols by Columbia Analytical Services (Columbia) of Rochester, New York, an ELAP certified laboratory. Proper packaging was used during shipment to ensure a controlled temperature and safe transport.

4.2 Analytical Results

The analytical results presented in Tables 1 – 5 are not believed to accurately represent current conditions at the subject site. Many compounds associated with petroleum contamination in soil, which is clearly present in the soils observed during the RI, were not detected through laboratory analysis. This may be due to the weathered nature of the product, the age of the release, or laboratory interferences, among other factors.

The analytical results exceed the Recommended Soil Cleanup Objectives outlined in TAGM 4046 in only a few instances for semi-volatile organics, and in no instances for VOCs. This is unusual, given that in more than one test pit free product was observed. The analytical results were also compared to Soil Cleanup Guidance Values outlined in STARS Memo # 1, which is generally consulted specifically for petroleum spills and cleanup. This resulted in additional exceedances, yet still fewer than might be expected. For actual field conditions, the test pit logs and soil descriptions noted during the RI will be relied upon in conjunction with the analytical results.

4.2.1 Metals

The Target Analyte List of metals were analyzed in each sample collected, and many metals were found at levels that exceed the NYSDEC's TAGM 4046 soil cleanup guidance objectives. Soil results exceeding the TAGM 4046 soil cleanup guidance values are shown in bold and shaded on Table 1. Exceedances include arsenic, beryllium, chromium, copper, iron, nickel, zinc, and to a lesser extent cadmium, mercury, and selenium. No previous sampling results are available for comparison of these results; however, a high level of confidence is associated with the results since the samples were collected and analyzed using ASP Level B protocols, and the Data Usability Summary Report (DUSR) indicates that the data can be relied upon.

Beryllium was detected in samples taken from test pits TP-08-01 (0.67 ppm), TP-12-01 (0.66 ppm), TP-21-01 (0.59 ppm), TP-31-01 (0.75 ppm), TP-32-01 (0.72 ppm), and TP-36-01 (0.76 ppm) at levels exceeding the soil cleanup guidance objective of 0.16 ppm. Mercury was detected in samples taken from test pits TP-09-02 (0.14 ppm) and TP-35-02 (1.4 ppm), at levels exceeding the soil cleanup guidance objective of 0.1 ppm.

Cadmium was encountered in samples taken from test pit TP-39-01 (1.2 ppm), at levels exceeding the soil cleanup guidance objective of 1.0 ppm. Selenium was detected in samples taken from test pits TP-13-01 (2.2 ppm), TP-19-02 (2.1 ppm), TP-21-02 (2.6 ppm), TP-24-01 (2.1 ppm), TP-38-01 (2.5 ppm) at levels exceeding the soil cleanup guidance objective of 2.0 ppm. Because these

concentrations only slightly exceed the TAGM 4046 cleanup guidance for both cadmium and selenium and are consistent, they likely represent site background in this urban setting.

Arsenic, chromium, copper, iron, nickel, zinc were encountered at numerous locations throughout the site at elevated levels. Because copper and nickel concentrations significantly (100-200%) and consistently exceed the respective TAGM 4046 cleanup guidance, the results likely represent site background.

4.2.2 Volatile Organic Compounds

No VOCs were detected at levels that exceed the NYSDEC's TAGM 4046 soil cleanup objectives; however, multiple hits exceed STARS Memo # 1 guidance values. The compounds exceeding the soil cleanup guidance values in one or more locations include acetone, benzene, sec-butylbenzene, n-butylbenzene, ethylbenzene, isopropyl benzene, p-isopropyltoluene, naphthalene, n-propylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and m,p-xylenes. No previous sampling results are available for comparison of these results; however, a high level of confidence is associated with the results because the samples were collected and analyzed using ASP Level B protocols and the DUSR indicates that the data can be relied upon.

Out of 48 test pits, samples from four test pits contained the VOC compounds listed above. The sample from test pit TP-16A at a depth of 4 to 6 feet had five compounds slightly exceed guidance values. Samples from two depths (3 to 5 feet and 7 to 10 feet) in test pit TP-17 also had multiple exceedances. The shallow depth had significant exceedances, including ethylbenzene (840 ppb), naphthalene (1,200 ppb), 1,3,5-trimethylbenzene (1,300 ppb), 1,2,4-trimethylbenzene (2,700 ppb), and mixed xylenes (730 ppb), among others. Test pit TP-28 had three exceedances at 9.5 ft below ground surface, one of which was benzene (38 ppb). A sample from TP-46 at 10 feet had four VOC exceedances, notably naphthalene at 750 ppb.

The majority of the exceedances were measured from depths of greater than 6 feet below ground surface. All four test pits with VOCs exceeding guidance values are located in the second area of concern; the area surrounding the existing foundation. The areas of concern are identified in Section 5.3 below.

Multiple VOCs were detected in the groundwater sample collected from monitoring well MW-01, including benzene, 1,2-dichloropropane, ethylbenzene, toluene, and mixed xylenes. Within these detected compounds, three hits exceeded TOGS 1.1.1 groundwater quality guidance values, including 1,2-dichloroethene (3.7 ppb), ethylbenzene (450 ppb), and mixed xylenes (22 ppb). The field blank had no compounds detected with the exception of acetone, which is a common laboratory contaminant.

Soil samples collected during the removal of the 1,000-gallon tank each exhibited concentrations of multiple VOCs exceeding TAGM 4046 soil cleanup guidance objectives. The compounds include sec-butylbenzene, n-butylbenzene, ethylbenzene, isopropyl benzene, naphthalene, n-propylbenzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and mixed xylenes.

4.2.3 Semi-Volatile Organic Compounds

A number of SVOCs were detected at levels that exceed the NYSDEC's TAGM 4046 soil cleanup objectives; however, additional exceedances are noted when the data is compared to STARS Memo

1 guidance values. The compounds exceeding the soil cleanup guidance values in one or more locations include acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, chrysene, dibenzo(a,h)anthracene, dibenzofuran, fluorene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene. No previous sampling results are available for comparison of these results; however, a high level of confidence is associated with the results because the samples were collected and analyzed using ASP Level B protocols and the DUSR indicates that the data can be relied upon.

Fourteen samples collected from eleven test pits contained one or more SVOC compounds exceeding guidance values. The most notable exceedances occurred in test pits TP-14, TP-16A, TP-35, TP-36, TP-37, TP-38, and TP-44. Test pit TP-16A was the most heavily impacted in reference to SVOCs; including acenaphthene (2,500 ppb), anthracene (1,200 ppb), dibenzofuran (2,100 ppb), fluorene (5,300 ppb), 2-methylnaphthalene (50,000 ppb), naphthalene (8,700 ppb), phenanthrene (9,200 ppb), and pyrene(1,300 ppb). Test pits TP-14, TP-35, TP-36, TP-37, TP-38, and TP-44 each had similar exceedances including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, and chrysene all less than 300 ppb.

Although the SVOC exceedances were measured at depths ranging from the surface to 10 feet, the majority were concentrated in the upper 6 feet of soil. The test pits with elevated levels of SVOCs are located in each of the three areas of concern, which are identified in Section 5.3 below.

Groundwater from monitoring well MW-01 was found to be impacted with limited SVOC compounds, including di-n-butylphthalate, 2-methylnaphthalene, and naphthalene. The concentrations detected do not exceed TOGS 1.1.1 ambient groundwater quality guidance values. Due to insufficient well production, no groundwater from MW-02 was analyzed for SVOCs.

Soil samples collected during the removal of the 1,000-gallon tank each exhibited concentrations of SVOCs exceeding STARS Memo # 1 guidance values. The sample from the southern wall of the tank pit had two compounds (2-methylnaphthalene and naphthalene) exceed cleanup objectives in TAGM 4046, while all five samples exhibited compounds exceeding STARS Memo # 1 guidance values.

4.3 Data Reliability

The soil data have been reviewed by Fuss & O'Neill's quality assurance officer following the protocols outlined in Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2A and 2B. Issues relevant to the recent sampling results are indicated on the laboratory data sheets attached in Appendix B.

Laboratory analytical results were generated using ASP level B protocols. A data usability summary report (DUSR) has been performed in accordance with the protocols outlined in draft document DER-10.

The results generally can be relied upon and are technically relevant. For ten out of the total number of samples submitted for SVOC analysis, extractions were completed eight days after sample receipt at the laboratory. This exceeds the specified holding time of seven days by one day. The detected compounds in these ten samples were compared to samples extracted within the

specified holding time limits. No apparent difference in results has been noted, and therefore the results have been considered as part of the site characterization.

Extra volume was provided for two samples which were designated to be analyzed as matrix spike/matrix spike duplicates (MS/MSDs) and results are provided with the QA/QC results. All QA/QC samples were analyzed within method-specified holding times. No target compounds were reported in the equipment blank. Results of primary and duplicate samples were generally similar.

5.0 NATURE AND EXTENT OF CONTAMINATION

5.1 Nature of Contamination

Based on historical information from the site owner, the NYSDEC, and observations of the existing foundation, the central portion of the site along Route 44 was the former location of a gasoline station and offices of a petroleum bulk storage company. Multiple large-volume above and underground fuel oil storage tanks were located in the central portion of the site, but have since been removed. The two concrete pads near the northern entrance of the property were apparently used as a fuel unloading station at one time. A small area between the existing foundation and northern entrance was apparently used as a dumping area, as observed during field activities. Materials removed from test pits in the area along the tree line include portions of an apparent drywell, corrugated perforated piping, and various construction debris items, suggesting that this particular area was used as a dumb at one time. Historical use of the small lot located across Love Road from the main parcel was likely for storage of rail equipment and railroad ties, then for parking by the owners of the PBS facility. Recently, the parcel was rented to a business to temporarily store automobiles.

The exact locations of the former aboveground and underground fuel oil storage tanks are unknown; however the expired PBS registration certificate indicates that volumes of registered tanks range from 3,000 to 25,000 gallons in size. During field activities, abandoned fuel transmission lines were uncovered adjacent to the existing foundations. Therefore, it is likely that the piping was used to bring fuel from the large tanks in the central terrace to a pumping station adjacent to Route 44.

VOC and SVOC compounds are likely to have originated from the past industrial and commercial practices at the site. Gasoline stations are generally associated with multiple low volume fuel spills. Also, practices associated with fuel oil bulk storage facilities may have resulted in both small- and large-scale releases.

When Route 44 was constructed at an elevated level, a large amount of fill material was placed at the site. This fill material was observed and documented in the soil logs for test pits in this area. It is unknown how the timing of this construction corresponds to impacts seen at the site during the remedial investigation. It is possible that at certain locations, petroleum impacts were present at the site before the layer of fill material was brought in. This situation may explain why VOC and SVOC impacts are seen at depths up to 10 feet below ground surface. However, it is also possible that the compounds have migrated to these depths over time.

Shallow groundwater samples were collected and preliminary analytical results indicate that groundwater in the overburden material is slightly impacted with compounds associated with petroleum product releases.

5.2 Extent of Contamination

Multiple metals were detected at levels exceeding TAGM 4046 guidance values across the entire site. As previously noted for cadmium, selenium, copper and nickel the measured concentrations exceed guidance values but are relatively consistent. Therefore, it is likely that the concentrations represent site background for this urban, heavily populated area adjacent to a highway.

Volatile organics were detected over much of the site; however, exceedances of STARS Memo # 1 and TAGM 4046 guidance values occurred primarily around the existing building foundations. Test pits with no detected VOCs generally include those near the westernmost border of the property, along the tree line.

Semi-volatile organics were also detected over large areas of the site. Exceedances of guidance values occurred primarily in the parcel north of Love Road, adjacent to the former fuel unloading area near the northern entrance, and around the existing foundations along Route 44. Areas that did not have any SVOCs detected include the eastern side of Love Road on the upper tier, on the central terrace by the pond (with the exception of TP-03), and along the westernmost border of the property along the tree line.

Visual and olfactory observations made during remedial investigation efforts and analytical results indicate that impacts are generally confined to three areas of concern (AOCs): (1) surrounding the former fuel unloading area at the northern entrance, AOC-01, (2) the area surrounding the existing foundation along Route 44, AOC-02, and (3) in the lot across Love Road adjacent to the abandoned railroad bed, AOC-03.

The areas of concern are depicted on Figure 7. These generalized areas were derived by evaluating VOC and SVOC exceedances of guidance values, and on field observations. As previously discussed, petroleum product released is now weathered, producing matrix interference results during laboratory analysis. The observed petroleum impacts appeared to extend into areas where multiple compounds were detected, even though concentrations do not necessarily exceed guidance values. These observations do not represent exact field conditions, but may be useful as guidance for general site conditions and future remedial action.

5.3 Contaminant Fate and Transport

Most observations indicate that petroleum impacts are confined to the coarse-grained sand and gravel fill material. Some evidence of impacts was seen at the uppermost areas of the dense clay and silt material; however, these impacts appeared to sharply decrease with depth. This indicates that the clay/silt, in areas where it is present, acts as a confining layer.

Transport of contaminants via leaching has, and may continue to occur at a very slow rate due to the dense nature of the soil. It is possible that contaminants are migrating into groundwater at the site in at least one location. Groundwater observed in test pit TP-03 exhibited a moderate petroleum-type sheen; however, it is possible that clean groundwater came into contact with contaminated soil above the water table when disturbed.

As previously discussed, the contour of the bedrock under the property seems to have aided in containing the majority of impacts to the three areas of concern.

6.0 HUMAN HEALTH EXPOSURE ASSESSMENT

The potential impacts to future users of the property, based on the intended future use of the property, will be evaluated in the context of the potential exposure pathways to the contaminants of concern. The Human Health Exposure Assessment (HHEA) will evaluate the potential exposure to contaminants of concern during current uses and reasonably anticipated future uses.

In order to evaluate the potential exposure pathways associated with the heavy metals, VOCs, and SVOCs in subsurface soil, it is necessary to understand what exposure pathways are reasonably expected under anticipated future property uses. An exposure pathway consists of five elements: a source of contamination, transport through an environmental medium, a point of exposure, a route of human exposure, and an exposed population. An exposure pathway occurs when the five elements of an exposure pathway described above link the contaminant source to a receptor population, resulting in exposure. Several pathways will be evaluated in an exposure assessment. A potential exposure pathway exists when one or more of the exposure pathway elements are missing or incomplete. If one or more of the pathway elements is missing, the exposure pathway is considered to be incomplete and therefore, this pathway is eliminated, as exposure/potential exposure to contaminants is not considered to be present.

The remedial alternatives to be presented in the Alternatives Analysis will address human exposure, as an exposure assessment will be discussed in more detail.

7.0 FUTURE WORK

An Interim Remedial Measure (IRM) has been submitted to the NYSDEC for a limited soil excavation, and was approved in December 2005. The IRM proposes to excavate the grossly contaminated soil seen atop the shallow bedrock as depicted in Figure 7 as AOC-01. Remedial activity for this particular area of concern is proposed prior to the remainder of the remedial activities for reasons including: (1) the excavation may provide an added environmental protection benefit if completed before the bulk of the remedial activities as it is addressing a source area and (2) the property owner (BCP Volunteer) would take the opportunity to begin the clearing and grading in preparation for future construction. Removal of the grossly contaminated soil may prevent any impacts to the possibly clean aquifer below the site. This IRM is tentatively scheduled for Spring 2006.

Upon the completion of the soil removal IRM, a number of bedrock wells are proposed along the boundary of the site for assessment of off-site groundwater impacts. It is likely that 3-4 monitoring wells will be installed initially, while up to two additional wells will be installed once subsurface groundwater flow conditions are better understood.

Sediment in the on-site retention pond will be sampled as part of a Fish and Wildlife Resource Impact Analysis (FWIRA). Samples will be analyzed in accordance with Section 3.10 of DER-10 Technical Guidance Document for Site Investigation and Remediation.

Due to the subsurface contamination observed at several locations across the site, and the future plans to consolidate and cap the contaminated material, soil vapor will be characterized in areas where future structures are proposed. Specifically, soils within AOC-02 to be capped with the proposed self-storage building will be characterized. In addition, a soil vapor extraction system will be proposed beneath the foundation of the proposed building.

Following agency review of this report, a Remedial Alternatives Analysis (AA) and Remedial Action Work Plan (RAWP) will be prepared and submitted to the NYSDEC. Upon approval of the RAWP, site remediation can begin, which will be closely integrated with planned site development activities.

8.0 SUMMARY AND CONCLUSIONS

The site was formerly occupied by a petroleum bulk storage (PBS) facility, a lumber/building supply yard, a gasoline service station, and a brick factory. The central parcel was formerly owned and operated by Love/Effron Oil through the 1970s. Prior to Love/Effron's ownership, the property contained a gas station that was in operation until the widening and elevation of Route 44 circa the late 1950s.

The most recent use for the central parcel was as petroleum bulk storage (PBS) facility, but was closed in the late 1980s. The existing foundation seen at the site was likely used as a garage, offices, and a loading facility.

As a result of the two phases of investigation, three general areas of concern were identified, including the former fuel unloading area by the northern entrance to the property (AOC-01), the area surrounding and including the existing foundation (AOC-02), and the parcel north of Love Road adjacent to the railroad bed (AOC-03). The areas were identified based on visual and olfactory field observations and exceedances of regulatory guidance values for a number of VOCs and SVOCs associated with petroleum product releases.

AOC-01 contains petroleum impacted soil; specifically, semi-volatile organic compounds detected above the respective STARS Memo # 1 criteria. Metals were also detected at levels exceeding TAGM 4046 soil cleanup objectives in this area.

Impacted soil as determined through field observations and analytical testing is located at depths of approximately 0 (surface) to 7 feet (bedrock) on average. AOC-01 is estimated to have an area of 4,400 square feet, which results in an approximate impacted volume of 1,140 cubic yards of soil.

AOC-01 is the subject of a proposed IRM to excavate grossly contaminated soil that lies atop the shallow bedrock. If completed prior to the remainder of the remedial activities, the soil excavation is likely to provide environmental protection benefits, as a suspected source area will be removed. In addition, the activities of the IRM will allow the Volunteer to begin site preparations for the proposed construction of a self storage facility. This work is tentatively scheduled for the Spring of 2006.

AOC-02 also contains petroleum impacted soil; specifically, volatile and semi-volatile organic compounds detected above the respective regulatory guidance levels. Metals were also detected at

levels exceeding TAGM 4046 soil guidance values in this area. This area of concern was split into three pieces (AOC-02A, B, and C) based on the analytical results and current site conditions.

AOC-02A is likely confined to the area within the existing foundation. The most heavily impacted soil is estimated to cover an area of 6,000 square feet, at an average thickness of 5 feet. This results in an approximated impacted volume of 1,100 cubic yards. AOC-02B is located adjacent to the foundation to the west, along Route 44. This impacted area is considerably larger, estimated to have an area of 14,500 square feet, and an average thickness of 8 feet. This results in an approximated impacted volume of 4,300 cubic yards of soil. AOC-02C is a small portion of soil located further west of the existing foundation. The area is approximately 2,150 square feet, 3 feet thick, or 240 cubic yards.

A 1,000-gallon UST was removed from the upper tier of the property on the southeast edge of the existing foundation through an approved IRM in November 2005. A small hole was noted in the bottom of the tank, and impacts were observed underneath; however, the bulk of the contamination seen in the area is not likely due solely to this tank, based on historical use. The tank was surrounded by the same dense blue-gray silt and clay as seen in other areas of the site, which may have worked to contain any leaking from the tank.

AOC-03 was determined through field observations and analytical testing to be heavily impacted by SVOCs, and to a lesser extent, VOCs. A number of SVOCs exceed STARS Memo # 1 soil guidance values. Metals were also detected at levels exceeding TAGM 4046 soil guidance values in this area. Subsurface soil appears to exhibit fewer impacts closer to the northern property line. Bedrock under this parcel appears to form a shallow troth leading off the northern boundary. The most heavily impacted soil in AOC-03 extends over an approximate area of 8,900 square feet, at a thickness of 5 feet, resulting in an estimated impacted volume of 1,650 cubic yards of soil.

Following the review of this report by the NYSDEC BCP Site Manager, Fuss & O'Neill is prepared to submit a remedial Alternatives Analysis for the site. Following the alternatives analysis, a remedial action work plan (RAWP) will be submitted to the NYSDEC for approval, which will outline the required remedial activities to clean the site to acceptable levels for the proposed site development of a self storage facility.

TABLE 1:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - METALS (ppm)**

JULY 2005

Element	TP-01-01	TP-02-01	TP-02-02	TP-03-01	TP-04-01	TP-05-01	TP-06-01	TP-07-01	TP-07-02	TP-08-01	TAGM 4046 Recommended Soil Cleanup Guidance Value (ppm)
(depth)	0-3	0-1	1-3'	0-3'	1-3'	0-4'	2-4'	0-4'	4-6'	0-2'	
Aluminum	15800	12200	14100	15500	17200	17100	1700	1500	16800	20300	SB
Antimony											SB
Arsenic	8.1	5.3	6.0	8.6	7.0	7.9	13.0	5.3	7.7	9.2	7.5
Barium	89.3	38.1	43	77	91.7	109	67	79.6	102	81.1	300
Beryllium										0.67	0.16
Cadmium											1
Calcium	3760	27200	11100	1870	15550	2420	1060	1650	1860	1600	SB
Chromium	20.2	15.4	16.3	18.5	20.9	21.4	20.7	17.3	21.5	26.3	10
Cobalt	13.2	12.1	12.6	13.4	13.4	14.8	18.6	12.8	14.3	17.6	30
Copper	36.3	29.6	28.5	30.1	30.5	34.3	25.4	23.6	32.7	31.6	25
Iron	34200	27900	35000	31100	34000	35400	41000	26400	34300	34400	2000
Lead	39.5	12.4	17	13.5	14.7	16.5	18.8	15	17.3	25.8	200-500*
Magnesium	7710	9400	8310	5900	6980	6450	5030	5580	7330	8780	SB
Manganese	983	619	1010	496	775	638	1010	642	727	1010	SB
Mercury										0.05	0.1
Nickel	28.9	25	28.2	28.7	29.4	31.5	25.3	24.4	32.5	37.5	13
Potassium	1380	1310	1050	1780	1690	1770	1160	1230	1610	1330	SB
Selenium	1.5	0.81	1.3	1.2	1.6	1.1	1.5	1.2	1	0.9	2
Silver											SB
Sodium	150	74.6	63.4	91.9	89.2	156	67.9	66.9	83.4		SB
Thallium											SB
Vanadium	21.4	14.2	15.7	18.9	22.4	23.4	25.2	19.5	22.2	25.1	150
Zinc	89.4	67.7	84.7	80.9	81.4	87.8	61.9	71	91.4	78.6	20

* Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Note: Bold and shaded values are in exceedance of TAGM 4046 recommended soil cleanup guidance values.

TABLE 1:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - METALS (ppm)**

JULY 2005

	TP-09-01	TP-09-02	TP-10-01	TP-12-01	TP-13-01	TP-14-01	TP-15-01	TP-16A-01	TP-16A-02	TP-16B-01	TAGM 4046 Recommended Soil Cleanup Guidance Value (ppm)
(depth)	4-5'	0-1'	3-5'	1-3'	2-4'	4-5'	3-5'	1-4'	4-6'	5-10'	
Aluminum	17800	16500	16800	21200	15100	16000	21300	16100	17400	16300	SB
Antimony											SB
Arsenic	12.3	10.0	5.6	11.2	6.0	7.1	8.3	5.4	7.5	8.7	7.5
Barium	76.7	87.7	80.1	86.4	81.2	63.5	113	71.6	91.2	102	300
Beryllium				0.66							0.16
Cadmium		0.77									1
Calcium	1440	11000	2190	1840	1510	10300	2020	3320	2200	2500	SB
Chromium	21.5	26.1	19.3	29.5	17.9	17.2	25.6	18.8	20.9	20	10
Cobalt	17.9	13.6	12.4	25.5	14.5	11.8	16.5	13.4	17.8	14.3	30
Copper	29.2	34.2	27.7	73.1	25.6	30.5	36.8	26.6	32.6	33.4	25
Iron	27000	31100	19700	41500	30700	29100	38300	30100	34800	33700	2000
Lead	21.6	79.5	52.1	24.5	17.6	40.2	17	40.1	16.8	18.1	200-500*
Magnesium	6050	8670	6280	17000	7090	11600	6810	6920	6230	5990	SB
Manganese	443	983	831	2100	989	1050	764	925	889	691	SB
Mercury	0.07	0.14	0.09	0.04		0.04	0.05				0.1
Nickel	29.6	28.6	26.7	43.5	25.7	25.7	35.9	26.9	34.8	29.7	13
Potassium	1250	1310	1070	1510	1060	993	1540	1140	1020	910	SB
Selenium	1.1	1.3	1.5	1.9	2.2	1	1.5	0.73	1.4	1.5	2
Silver											SB
Sodium	93.4	77.5			70.5	120	169	97.7	174	126	SB
Thallium											SB
Vanadium	23	23	21.4	25.6	19.6	20.6	25.7	23.1	20.1	19.2	150
Zinc	98.7	133	140	104	72.8	103	86.1	86	88.1	83	20

* Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Note: Bold and shaded values are in exceedance of TAGM 4046 recommended soil cleanup guidance values.

TABLE 1:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - METALS (ppm)**

JULY 2005

Element	TP-17-01	TP-17-02	TP-18-01	TP-19-01	TP-19-02 DUPLICATE	TP-20-01	TP-21-01	TP-21-02	TP-22-01	TP-24-01	TAGM 4046 Recommended Soil Cleanup Guidance Value (ppm)
(depth)	7-10'	3-5'	4-5'	0-2'	0-2'	3-5'	6-7'	3-4'	8-9'	8-9'	
Aluminum	17100	21400	16400	17900	17100	17100	20800	23200	12500	20500	SB
Antimony											SB
Arsenic	8.4	9.9	7.7	7.5	7.7	8.3	9.9	7.2	7.0	9.3	7.5
Barium	119	116	66.5	68.6	73.7	70.4	140	134	61.2	107	300
Beryllium							0.59				0.16
Cadmium											1
Calcium	8300	1250	5330	47100	10400	935	3440	2800	1920	1570	SB
Chromium	21.4	24.7	20.5	20	18.9	19.4	22.8	24.5	15.9	22	10
Cobalt	15.3	17.1	14.5	12.9	11.8	13.8	16.5	14.9	11.8	17.3	30
Copper	30.9	32.4	29.3	32.7	30.3	29.2	26.1	21.3	32.9	30.4	25
Iron	33800	35600	32100	29400	29100	31500	33400	29900	25800	34600	2000
Lead	19.5	20.3	12.1	27.1	30.3	15.8	27.2	17.2	14.5	17	200-500*
Magnesium	7020	6800	6770	8840	11000	5550	6250	5710	5880	5680	SB
Manganese	1020	892	1010	1480	1500	758	717	1200	791	855	SB
Mercury		0.06	0.04	0.05	0.05		0.04	0.05		0.06	0.1
Nickel	32.9	34.1	28.3	27.6	26.3	23.7	28.8	27.7	25.6	30.8	13
Potassium	1400	2020	1640	1380	1380	1410	1680	1760	1380	1480	SB
Selenium	1.8	1.7	0.98	1.5	2.1	1.3	1.7	2.6	1	2.1	2
Silver											SB
Sodium	79.8	83.5	141	58.5	69.5	61.1	126	125	55.6	70.4	SB
Thallium											SB
Vanadium	21.6	27.8	22.5	25.3	25.9	22.4	28.5	30.4	16.8	23.8	150
Zinc	86.2	85.9	76.2	93.7	94.7	65	96.7	74	95	75.4	20

* Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Note: Bold and shaded values are in exceedance of TAGM 4046 recommended soil cleanup guidance values.

TABLE 1:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - METALS (ppm)**

JULY 2005

Element	TP-25-01	TP-28-01	TP-28-02	TP-29-01	TP-29-02	TP-30-01	TP-30-02	TP-31-01	TP-32-01	TP-32-02	TAGM 4046 Recommended Soil Cleanup Guidance Value (ppm)
(depth)	5.5-6.5'	1-4'	9.5'	9'	0-1'	9.5'	3-4'	4-7'	3-5'	11'	
Aluminum	17200	20100	11100	11400	17900	20200	16900	24400	23000	12700	SB
Antimony											SB
Arsenic	7.5	**11.6**	5.6	**18.8**	5.9	**10.9**	6.3	7.3	**10.3**	**9.8**	7.5
Barium	76	127	45.4	127	93.2	113	88.1	172	162	83	300
Beryllium								**0.75**	**0.72**		0.16
Cadmium											1
Calcium	1460	2580	13300	6840	1140	7430	1090	23800	3470	197	SB
Chromium	**19.7**	**23.4**	**13.5**	**13.9**	**20**	**25.1**	**21**	**30.6**	**28.5**	**15.7**	10
Cobalt	14	19.8	10.2	13.4	13.4	17	15.3	15.9	17.3	12.3	30
Copper	**36.9**	**38.5**	**28.2**	**34.3**	18.8	**37.5**	**27.5**	**36.9**	**42.1**	**33.9**	25
Iron	**30000**	**41800**	**25900**	**28000**	**27300**	**37600**	**28000**	**39500**	**41100**	**27500**	2000
Lead	14.8	19.4	10.2	13.3	18.9	16.9	15.2	14.7	18.3	13.4	200-500*
Magnesium	6830	6890	5870	5780	4630	8570	6170	9100	8730	7350	SB
Manganese	1080	1480	730	2410	1590	733	536	1100	798	935	SB
Mercury	0.04	0.05									0.1
Nickel	**29.9**	**37.1**	**22.9**	**28.4**	**22.6**	**36.4**	**29.2**	**37.4**	**38.7**	**25.6**	13
Potassium	1740	2020	1240	1300	1250	2750	1690	2740	2920	1710	SB
Selenium	1.5	1.6	1.1	1.1	1.6	0.94	1.2	1.5	1.3	1.2	2
Silver											SB
Sodium		119	204	119	73.5	106	120	166	128	71.6	SB
Thallium											SB
Vanadium	21.4	26.4	13.2	14.5	24.8	25.1	21.3	31.3	31.8	15.7	150
Zinc	**88.4**	**93.4**	**71.1**	**78.9**	**76.2**	**96.2**	**77.1**	**91.5**	**98.4**	**79.1**	20

* Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Note: Bold and shaded values are in exceedance of TAGM 4046 recommended soil cleanup guidance values.

TABLE 1:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - METALS (ppm)**

JULY 2005

Element	TP-33-01	TP-33-02	TP-35-01	TP-35-02	TP-36-01	TP-37-01	TP-38-01	TP-39-01	TP-41-01	TP-42-01	TAGM 4046 Recommended Soil Cleanup Guidance Value (ppm)
(depth)	0-1'	8'	0-1'	4-7'	5-7'	4-5'	4-7'	6-7.5'	3-6'	4-6'	
Aluminum	17000	11100	12900	14000	21100	17400	12900	21800	14100	18800	SB
Antimony											SB
Arsenic	6.9	7.2	**8.4**	6.1	**8.8**	**9.9**	**9.0**	**9.4**	**7.9**	7.4	7.5
Barium	96.4	51.6	75.7	50.7	128	52.2	72.5	88	83	76.1	300
Beryllium					**0.76**						0.16
Cadmium			0.94			0.71	0.82	**1.2**			1
Calcium	2360	2780	35000	8120	2640	2020	3130	5140	30600	1170	SB
Chromium	**18.1**	**13.6**	**16**	**22.7**	**22.6**	**21.1**	**17**	**29.8**	**18.8**	**23.4**	10
Cobalt	13.4	14.1	11.1	12.4	11.6	18.5	12	18.1	13	11.8	30
Copper	21.5	**32.7**	**32.4**	**33.7**	**31.4**	**49.3**	**37.9**	**49.9**	**34.7**	**30.3**	25
Iron	**26400**	**25800**	**26300**	**27500**	**32400**	**37200**	**41000**	**38700**	**29600**	**33200**	2000
Lead	26	12.8	32	54.9	15.3	64.5	46.5	118	12.8	15.3	200-500*
Magnesium	4590	4990	24200	9820	5220	9150	5280	13700	7620	6390	SB
Manganese	910	744	1460	318	795	720	1810	724	825	378	SB
Mercury	0.05			**1.4**	0.08	0.05	0.04	0.1			0.1
Nickel	**21.9**	**24.8**	**23.5**	**27.8**	**26.9**	**37**	**27.7**	**40.8**	**27.7**	**27.3**	13
Potassium	893	813	1460	1410	1560	1360	1550	1350	2010	1870	SB
Selenium	1.3	1	0.75		1.6	1.5	**2.5**	1.3	1.3	1.8	2
Silver											SB
Sodium	76.4		300	90	123	77.2	134	111	115	120	SB
Thallium											SB
Vanadium	22.1	12.8	17.9	17.6	26.6	21.1	20.4	34.9	19.8	27.5	150
Zinc	**81.4**	**79.6**	**87.6**	**92.6**	**88.8**	**120**	**93.6**	**182**	**82.1**	**76.8**	20

* Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Note: Bold and shaded values are in exceedance of TAGM 4046 recommended soil cleanup guidance values.

TABLE 1:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - METALS (ppm)**

JULY 2005

Element	TP-44-01	TP-44-02	TP-46-01	TP-47-02	TP-47-03 DUPLICATE	TP-48-01					TAGM 4046 Recommended Soil Cleanup Guidance Value (ppm)
(depth)	10.5'	0-2'	10'	8-9'	8-9'	6-7'					
Aluminum	16800	10500	15500	16300	15400	15600					SB
Antimony											SB
Arsenic	6.2	**9.5**	6.3	7.3	7.4	**8.4**					7.5
Barium	74.2	64.6	98.9	79.5	79.3	81.4					300
Beryllium											0.16
Cadmium		0.59				0.58					1
Calcium	1330	8140	12100	2590	2450	12500					SB
Chromium	**19.8**	**13.7**	**19.7**	**20.5**	**19.5**	**20**					10
Cobalt	13.3	9.5	13.9	14.4	14.4	16					30
Copper	**37.1**	**29.3**	**32.3**	**37.8**	**38.2**	**39.7**					25
Iron	**31400**	**27500**	**31000**	**32800**	**32200**	**32100**					2000
Lead	15.1	60.9	14	16.4	15.7	15					200-500*
Magnesium	6960	6610	6380	7270	6730	7030					SB
Manganese	693	631	550	876	844	909					SB
Mercury	0.04	0.07				0.04					0.1
Nickel	**28.6**	**23.2**	**28.6**	**32.6**	**31.1**	**33.9**					13
Potassium	1990	1060	1890	1840	1880	1920					SB
Selenium	1.3	1.1	0.94	1.2	1.3	1.4					2
Silver											SB
Sodium		142	80.8	109	111	75.1					SB
Thallium											SB
Vanadium	21.8	17.6	20.2	22.2	21.1	21.2					150
Zinc	**85.4**	**143**	**90**	**94.4**	**89.8**	**94.6**					20

* Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Note: Bold and shaded values are in exceedance of TAGM 4046 recommended soil cleanup guidance values.

TABLES

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-01-01	TP-02-01	TP-02-02	TP-03-01	TP-04-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	0-3'	0-1'	1-3'	0-3'	1-3'		
Acetone	ND	2.9	ND	ND	21	200	200
Benzene	ND	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	ND	ND	ND	ND	300	
sec-butylbenzene	ND	ND	ND	3.5	ND	10000	100
n-butylbenzene	ND	ND	ND	ND	ND	10000	100
tert-butylbenzene	ND	ND	ND	ND	ND	10000	100
Carbon disulfide	ND	ND	ND	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	ND	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	ND	ND	ND	ND	ND	10000	100
p-isopropyltoluene	ND	ND	ND	5.3	ND	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	ND	ND	ND	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	ND	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	ND	ND	ND	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	ND	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-05-01	TP-06-01	TP-07-01	TP-07-02	TP-08-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	0-4'	2-4'	0-4'	4-6'	0-2'		
Acetone	ND	48	4.8	2.1	ND	200	200
Benzene	ND	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	6.5	ND	ND	ND	300	
sec-butylbenzene	ND	ND	ND	ND	ND	10000	100
n-butylbenzene	ND	ND	ND	ND	ND	10000	100
tert-butylbenzene	ND	ND	ND	ND	ND	10000	100
Carbon disulfide	ND	ND	ND	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	ND	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	ND	ND	ND	ND	ND	10000	100
p-isopropyltoluene	ND	ND	ND	ND	ND	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	ND	ND	11	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	ND	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	ND	ND	0.43	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	0.79	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	ND	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-09-01	TP-09-02	TP-10-01	TP-12-01	TP-13-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	4-5'	0-1'	3-5'	1-3'	2-4'		
Acetone	3.1	ND	ND	ND	ND	200	200
Benzene	ND	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	ND	ND	ND	ND	300	
sec-butylbenzene	15	ND	ND	ND	ND	10000	100
n-butylbenzene	13	ND	ND	ND	ND	10000	100
tert-butylbenzene	2.5	ND	ND	ND	ND	10000	100
Carbon disulfide	ND	ND	ND	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	ND	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	0.91	ND	ND	ND	ND	10000	100
p-isopropyltoluene	ND	ND	ND	ND	ND	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	ND	ND	ND	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	2.7	ND	ND	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	0.49	ND	ND	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	0.38	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	ND	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-14-01	TP-15-01	TP-16A-01	TP-16A-02	TP-16B-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	4-5'	3-5'	1-4'	4-6'	5-10'		
Acetone	ND	42	7.1	90	66	200	200
Benzene	ND	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	7.6	ND	ND	8.5	300	
sec-butylbenzene	ND	ND	15	530	58	10000	100
n-butylbenzene	ND	ND	13	540	19	10000	100
tert-butylbenzene	ND	ND	0.85	ND	3.3	10000	100
Carbon disulfide	ND	ND	ND	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	ND	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	0.7	4.2	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	ND	ND	6.1	160	2.8	10000	100
p-isopropyltoluene	ND	ND	10	110	5.1	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	ND	ND	52	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	11	300	2.4	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	ND	ND	ND	ND	0.46	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	6.1	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	59	33	1.5	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	2.4	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-17-01	TP-17-02	TP-18-01	TP-19-01	TP19-02 DUPLICATE	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	7-10'	3-5'	4-5'	0-2'	0-2'		
Acetone	84	350	ND	ND	ND	200	200
Benzene	1.1	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	48	ND	ND	ND	ND	300	
sec-butylbenzene	46	210	ND	ND	ND	10000	100
n-butylbenzene	81	510	ND	ND	ND	10000	100
tert-butylbenzene	15	ND	ND	ND	ND	10000	100
Carbon disulfide	ND	85	ND	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	71	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	38	840	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	62	310	ND	ND	ND	10000	100
p-isopropyltoluene	160	150	ND	ND	ND	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	450	1200	ND	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	99	580	ND	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	0.94	ND	ND	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	200	1300	ND	ND	ND	10000	100
1,2,4-trimethylbenzene	150	2700	ND	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	26	53	ND	ND	ND	1200	100
m-xylene, p-xylene	150	730	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-20-01	TP-21-01	TP-21-02	TP-22-01	TP-24-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	3-5'	6-7'	3-4'	8-9'	8-9'		
Acetone	2.2	ND	ND	ND	100	200	200
Benzene	ND	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	ND	ND	ND	14	300	
sec-butylbenzene	ND	ND	ND	16	ND	10000	100
n-butylbenzene	ND	ND	ND	ND	ND	10000	100
tert-butylbenzene	ND	ND	ND	6.5	ND	10000	100
Carbon disulfide	ND	ND	ND	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	ND	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	ND	ND	ND	ND	ND	10000	100
p-isopropyltoluene	ND	ND	ND	ND	ND	10000	100
Methylene chloride	ND	ND	ND	ND	0.63	100	
Naphthalene	ND	ND	ND	ND	0.98	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	ND	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	ND	ND	ND	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	ND	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-25-01	TP-28-01	TP-28-02	TP-29-01	TP-29-02	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	5.5-6.5'	1-4'	9.5'	9'	0-1'		
Acetone	ND	ND	ND	3.1	110	200	200
Benzene	ND	ND	38	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	ND	ND	ND	1	300	
sec-butylbenzene	ND	ND	18	ND	ND	10000	100
n-butylbenzene	ND	ND	27	ND	ND	10000	100
tert-butylbenzene	ND	ND	4.4	ND	ND	10000	100
Carbon disulfide	ND	ND	ND	ND	0.37	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	0.73	ND	ND	0.39	0.43	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	80	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	ND	ND	61	ND	ND	10000	100
p-isopropyltoluene	ND	ND	37	ND	ND	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	3.4	0.95	110	0.69	0.57	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	89	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	ND	ND	6.4	0.4	0.48	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	250	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	100	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	6.3	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	160	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-30-01	TP-30-02	TP-31-01	TP-32-01	TP-32-02	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	9.5'	3-4'	4-7'	3-5'	11'		
Acetone	5.6	2.1	83	ND	6.4	200	200
Benzene	ND	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	ND	8.7	ND	ND	300	
sec-butylbenzene	ND	ND	ND	ND	ND	10000	100
n-butylbenzene	ND	ND	ND	ND	ND	10000	100
tert-butylbenzene	ND	ND	ND	ND	ND	10000	100
Carbon disulfide	ND	ND	1.4	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	0.47	ND	0.41	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	0.55	ND	10000	100
Ethylbenzene	ND	ND	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	ND	ND	ND	ND	ND	10000	100
p-isopropyltoluene	ND	ND	ND	ND	ND	10000	100
Methylene chloride	ND	ND	0.49	ND	ND	100	
Naphthalene	0.58	0.45	ND	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	ND	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	0.52	0.43	0.59	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	ND	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-33-01	TP-33-02	TP-35-01	TP-35-02	TP-36-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	0-1'	8'	0-1'	4-7'	5-7'		
Acetone	ND	7.3	ND	51	97	200	200
Benzene	ND	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	ND	ND	10	13	300	
sec-butylbenzene	ND	ND	ND	ND	ND	10000	100
n-butylbenzene	ND	ND	ND	ND	ND	10000	100
tert-butylbenzene	ND	ND	ND	ND	ND	10000	100
Carbon disulfide	ND	ND	ND	2.7	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	ND	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	ND	ND	ND	ND	ND	10000	100
p-isopropyltoluene	ND	ND	ND	ND	ND	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	ND	ND	ND	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	ND	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	ND	ND	ND	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	ND	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-37-01	TP-38-01	TP-39-01	TP-41-01	TP-42-02	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	4-5'	4-7'	6-7.5'	3-6'	4-6'		
Acetone	69	120	7.3	6.6	12	200	200
Benzene	ND	0.71	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	7.1	12	ND	ND	ND	300	
sec-butylbenzene	1.1	ND	ND	ND	ND	10000	100
n-butylbenzene	ND	ND	ND	ND	ND	10000	100
tert-butylbenzene	ND	ND	ND	ND	ND	10000	100
Carbon disulfide	0.95	5	1.4	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	ND	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	0.99	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	1.9	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	0.99	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	1.1	ND	ND	ND	ND	10000	100
p-isopropyltoluene	ND	ND	ND	ND	ND	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	180	ND	8	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	ND	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	0.65	0.89	ND	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	0.89	ND	ND	ND	700	
1,3,5-trimethylbenzene	3.2	ND	ND	ND	ND	10000	100
1,2,4-trimethylbenzene	7.9	ND	1.9	ND	ND	10000	100
Vinyl Chloride	ND	1.4	ND	ND	ND	200	
o-xylene	1.6	ND	ND	ND	ND	1200	100
m-xylene, p-xylene	1.9	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-44-01	TP-44-02	TP-46-01	TP-47-01	TP-47-02 DUPLICATE	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	10.5'	0-2'	10'	8-9'	8-9'		
Acetone	7.4	66	33	4.8	2.9	200	200
Benzene	ND	ND	ND	ND	ND	60	14
Bromodichloromethane	ND	ND	ND	ND	ND	10000	
Bromophorm	ND	ND	ND	ND	ND	10000	
Bromomethane	ND	ND	ND	ND	ND	10000	
2-butanone (MEK)	ND	7.8	ND	ND	ND	300	
sec-butylbenzene	ND	ND	110	ND	ND	10000	100
n-butylbenzene	ND	ND	130	ND	ND	10000	100
tert-butylbenzene	ND	ND	ND	ND	ND	10000	100
Carbon disulfide	ND	ND	ND	ND	ND	2700	
Carbon tetrachloride	ND	ND	ND	ND	ND	600	
Chlorobenzene	ND	ND	ND	ND	ND	1700	
Chloroethane	ND	ND	ND	ND	ND	1900	
Chloroform	ND	ND	ND	ND	ND	300	
Chloromethane	ND	ND	ND	ND	ND	10000	
Dibromochloromethane	ND	ND	ND	ND	ND	10000	
1,1-dichloroethane	ND	ND	ND	ND	ND	200	
1,2-dichloroethane	ND	ND	ND	ND	ND	100	
1,1-dichloroethene	ND	ND	ND	ND	ND	400	
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	10000	
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	300	
1,2-dichloropropane	ND	ND	ND	ND	ND	10000	
cis-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
trans-1,3-dichloropropene	ND	ND	ND	ND	ND	10000	
Methyl-tert-butyl-ether	ND	ND	ND	ND	ND	10000	100
Ethylbenzene	ND	ND	ND	ND	ND	5500	100
2-hexanone	ND	ND	ND	ND	ND	10000	
Isopropyl Benzene	ND	ND	16	ND	ND	10000	100
p-isopropyltoluene	ND	ND	83	ND	ND	10000	100
Methylene chloride	ND	ND	ND	ND	ND	100	
Naphthalene	ND	ND	750	ND	ND	10000	200
4-methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	1000	
n-propylbenzene	ND	ND	43	ND	ND	10000	100
Styrene	ND	ND	ND	ND	ND	10000	
1,1,2,2-tetrachloroehtane	ND	ND	ND	ND	ND	600	
Tetrachloroethene	ND	ND	ND	ND	ND	1400	
Toluene	ND	ND	ND	ND	ND	1500	100
1,1,1-trichloroethane	ND	ND	ND	ND	ND	800	
1,1,2-trichloroethane	ND	ND	ND	ND	ND	10000	
Trichloroethene	ND	ND	ND	ND	ND	700	
1,3,5-trimethylbenzene	ND	ND	23	ND	ND	10000	100
1,2,4-trimethylbenzene	ND	ND	250	ND	ND	10000	100
Vinyl Chloride	ND	ND	ND	ND	ND	200	
o-xylene	ND	ND	ND	ND	ND	1200	100
m-xylene, p-xylene	ND	ND	ND	ND	ND	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 2:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)**

JULY 2005

Compound (µg/kg)	TP-48-01					TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(depth, ft. bgs)	6-7'						
Acetone	20					200	200
Benzene	ND					60	14
Bromodichloromethane	ND					10000	
Bromophorm	ND					10000	
Bromomethane	ND					10000	
2-butanone (MEK)	ND					300	
sec-butylbenzene	ND					10000	100
n-butylbenzene	ND					10000	100
tert-butylbenzene	ND					10000	100
Carbon disulfide	ND					2700	
Carbon tetrachloride	ND					600	
Chlorobenzene	ND					1700	
Chloroethane	ND					1900	
Chloroform	ND					300	
Chloromethane	ND					10000	
Dibromochloromethane	ND					10000	
1,1-dichloroethane	ND					200	
1,2-dichloroethane	ND					100	
1,1-dichloroethene	ND					400	
cis-1,2-dichloroethene	ND					10000	
trans-1,2-dichloroethene	ND					300	
1,2-dichloropropane	ND					10000	
cis-1,3-dichloropropene	ND					10000	
trans-1,3-dichloropropene	ND					10000	
Methyl-tert-butyl-ether	ND					10000	100
Ethylbenzene	ND					5500	100
2-hexanone	ND					10000	
Isopropyl Benzene	ND					10000	100
p-isopropyltoluene	ND					10000	100
Methylene chloride	ND					100	
Naphthalene	ND					10000	200
4-methyl-2-pentanone (MIBK)	ND					1000	
n-propylbenzene	ND					10000	100
Styrene	ND					10000	
1,1,2,2-tetrachloroehtane	ND					600	
Tetrachloroethene	ND					1400	
Toluene	ND					1500	100
1,1,1-trichloroethane	ND					800	
1,1,2-trichloroethane	ND					10000	
Trichloroethene	ND					700	
1,3,5-trimethylbenzene	ND					10000	100
1,2,4-trimethylbenzene	ND					10000	100
Vinyl Chloride	ND					200	
o-xylene	ND					1200	100
m-xylene, p-xylene	ND					1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

Exceedance of TAGM 4046 Recommended Soil Cleanup Objectives

Exceedance of STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 3:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - SVOCs (µg/kg)**

JULY 2005

Compound	TP-01-01	TP-02-01	TP-02-02	TP-03-01	TP-04-01	TP-05-01	TP-06-01	TP-07-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Recommended Soil Cleanup Objective (µg/kg)
(depth, ft. bgs)	0-3'	0-1'	1-3'	0-3'	1-3'	0-4'	2-4'	0-4'		
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	50000	400
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	41000	41000
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	224 or MDL	0.04
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	61 or MDL	0.04
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	1100	0.04
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	50000	0.04
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	1100	0.04
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Di-n-Butylphthalate	ND	ND	ND	300	ND	ND	ND	ND	8100	8100
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	220 or MDL	0.04
4-chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	220
Bis(-2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	800	800
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	ND	ND	ND	ND	400	---
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	14 or MDL	0.04
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	6200	14
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	---	620
1,3-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,2-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,4-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	7100	---
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	400	200
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	2000	7100
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	---	2000
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4-dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2,4-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1000	---
2,6-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	410	1000
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	410
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3200	---
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	4400	4400
2-methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	36400	36400
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	240 or MDL	240
2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
4-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	900	900
naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	13000	200
2-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	430 or MDL	430
3-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	500 or MDL	500
4-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	---
nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	330 or MDL	330
4-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND		1000
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Phenol	ND	ND	ND	ND	ND	ND	ND	ND		30
4-bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitroso-Di-N-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Pyrene	ND	ND	ND	61	ND	ND	ND	ND	50000	1000
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	---	100
2,4,5-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	---

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 3:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - SVOCs (µg/kg)**

JULY 2005

Compound	TP-07-02	TP-08-01	TP-09-01	TP-09-02	TP-10-01	TP-12-01	TP-13-01	TP-14-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Recommended Soil Cleanup Objective (µg/kg)
(depth, ft. bgs)	4-6'	0-2'	4-5'	0-1'	3-5'	1-3'	2-4'	4-5'		
Acenaphthene	ND	ND	94	430	ND	ND	ND	ND	50000	400
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	41000	41000
Anthracene	ND	ND	72	200	ND	ND	ND	ND	50000	1000
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	72	224 or MDL	0.04
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	71	61 or MDL	0.04
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	57	1100	0.04
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	50	50000	0.04
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	59	1100	0.04
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Di-n-Butylphthalate	ND	ND	ND	ND	ND	ND	260	260	8100	8100
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	40	220 or MDL	0.04
4-chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	220
Bis(-2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	800	800
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	ND	ND	ND	ND	400	---
Chrysene	ND	ND	ND	ND	43	ND	ND	88	14 or MDL	0.04
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	6200	14
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	---	620
1,3-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,2-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,4-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	7100	---
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	400	200
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	2000	7100
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	---	2000
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4-dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2,4-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1000	---
2,6-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Bis(2-ethylhexyl)phthalate	ND	ND	300	290	ND	ND	ND	ND	50000	50000
Fluoranthene	ND	41	ND	57	58	ND	ND	120	50000	1000
Fluorene	ND	ND	180	610	ND	ND	ND	ND	410	1000
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	410
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3200	---
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	4400	4400
2-methylnaphthalene	ND	ND	86	800	ND	ND	ND	ND	36400	36400
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	240 or MDL	240
2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
4-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	900	900
naphthalene	ND	ND	ND	300	ND	ND	ND	ND	13000	200
2-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	430 or MDL	430
3-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	500 or MDL	500
4-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	---
nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	330 or MDL	330
4-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND		1000
Phenanthrene	ND	ND	140	1400	ND	ND	ND	76	50000	1000
Phenol	ND	ND	ND	ND	ND	ND	ND	ND		30
4-bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitroso-Di-N-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Pyrene	ND	43	54	99	54	ND	ND	130	50000	1000
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	---	100
2,4,5-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	---

Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 3:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - SVOCs (µg/kg)**

JULY 2005

Compound	TP-15-01	TP-16A-01	TP-16A-02	TP-16B-01	TP-17-01	TP-17-02	TP-18-01	TP-19-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Recommended Soil Cleanup Objective (µg/kg)
(depth, ft. bgs)	3-5'	1-4'	4-6'	5-10'	7-10'	3-5'	4-5'	0-2'		
Acenaphthene	ND	**2500**	390	ND	ND	ND	ND	ND	50000	400
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	41000	41000
Anthracene	ND	**1200**	150	84	ND	ND	ND	ND	50000	1000
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	224 or MDL	0.04
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	61 or MDL	0.04
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	1100	0.04
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	50000	0.04
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	1100	0.04
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Di-n-Butylphthalate	ND	ND	ND	290	290	ND	ND	ND	8100	8100
Carbazole	ND	ND	ND	96	ND	ND	ND	ND	---	---
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	220 or MDL	0.04
4-chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	220
Bis(-2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	800	800
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	ND	ND	ND	ND	400	---
Chrysene	ND	ND	**50**	ND	ND	ND	ND	ND	14 or MDL	0.04
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	6200	14
Dibenzofuran	ND	**2100**	210	94	ND	ND	ND	ND	---	620
1,3-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,2-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,4-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	7100	---
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	400	200
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	2000	7100
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	---	2000
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4-dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2,4-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1000	---
2,6-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Bis(2-ethylhexyl)phthalate	ND	ND	310	ND	ND	ND	ND	ND	50000	50000
Fluoranthene	ND	950	84	ND	ND	ND	ND	ND	50000	1000
Fluorene	ND	**5300**	**570**	ND	ND	ND	ND	ND	410	1000
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	410
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3200	---
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	4400	4400
2-methylnaphthalene	ND	**50000**	1700	ND	950	1800	ND	ND	36400	36400
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	240 or MDL	240
2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
4-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	900	900
naphthalene	ND	**8700**	ND	ND	**740**	**1300**	ND	ND	13000	200
2-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	430 or MDL	430
3-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	500 or MDL	500
4-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	---
nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	330 or MDL	330
4-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND		1000
Phenanthrene	ND	**9200**	**1200**	320	ND	ND	ND	ND	50000	1000
Phenol	ND	ND	ND	ND	ND	ND	ND	ND		30
4-bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitroso-Di-N-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Pyrene	ND	**1300**	180	77	ND	ND	ND	ND	50000	1000
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	---	100
2,4,5-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	---

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives
STARS Memo #1 Guidance Values
Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 3:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - SVOCs (µg/kg)**

JULY 2005

Compound	TP19-02 DUPLICATE	TP-20-01	TP-21-01	TP-21-02	TP-22-01	TP-24-01	TP-25-01	TP-28-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Recommended Soil Cleanup Objective (µg/kg)
(depth, ft. bgs)	0-2'	3-5'	6-7'	3-4'	8-9'	8-9'	5.5-6.5'	1-4'		
Acenaphthene	ND	ND	ND	ND	ND	ND	49	ND	50000	400
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	41000	41000
Anthracene	ND	ND	ND	ND	66	ND	45	ND	50000	1000
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	224 or MDL	0.04
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	61 or MDL	0.04
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	1100	0.04
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	50000	0.04
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	1100	0.04
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Di-n-Butylphthalate	ND	ND	280	ND	270	ND	ND	ND	8100	8100
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	220 or MDL	0.04
4-chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	220
Bis(2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	800	800
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	ND	ND	ND	ND	400	---
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	14 or MDL	0.04
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	6200	14
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	---	620
1,3-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,2-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,4-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	7100	---
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	400	200
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	2000	7100
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	---	2000
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4-dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2,4-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1000	---
2,6-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Fluoranthene	ND	ND	ND	ND	150	ND	76	ND	410	1000
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	---	410
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	3200	---
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	4400	4400
Isophorone	ND	ND	ND	ND	ND	ND	58	ND	36400	36400
2-methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	240 or MDL	240
4-chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	900	900
4-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	13000	200
naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	430 or MDL	430
2-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	500 or MDL	500
3-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	330 or MDL	330
2-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
4-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Di-N-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND		1000
Pentachlorophenol	ND	ND	ND	ND	190	ND	54	ND	50000	1000
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND		30
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitroso-Di-N-propylamine	ND	ND	ND	ND	46	ND	ND	ND	50000	1000
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	100
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	---
2,4,5-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND		

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives
STARS Memo #1 Guidance Values
Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 3:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - SVOCs (µg/kg)**

JULY 2005

Compound	TP-28-02	TP-29-01	TP-29-02	TP-30-01	TP-30-02	TP-31-01	TP-32-01	TP-32-02	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Recommended Soil Cleanup Objective (µg/kg)
(depth, ft. bgs)	9.5'	9'	0-1'	9.5'	3-4'	4-7'	3-5'	11'		
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	50000	400
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	41000	41000
Anthracene	ND	ND	ND	ND	ND	260	ND	ND	50000	1000
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	224 or MDL	0.04
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	61 or MDL	0.04
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	1100	0.04
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	50000	0.04
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	1100	0.04
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Di-n-Butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	8100	8100
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	220 or MDL	0.04
4-chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	220
Bis(-2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	800	800
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	ND	ND	ND	ND	400	---
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	14 or MDL	0.04
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	6200	14
Dibenzofuran	ND	ND	ND	ND	ND	230	ND	ND	---	620
1,3-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,2-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,4-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	7100	---
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	400	200
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	2000	7100
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	---	2000
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4-dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2,4-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1000	---
2,6-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	410	1000
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	410
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3200	---
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	4400	4400
2-methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	36400	36400
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	240 or MDL	240
2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
4-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	900	900
naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	13000	200
2-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	430 or MDL	430
3-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	500 or MDL	500
4-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	---
nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	330 or MDL	330
4-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND		1000
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Phenol	ND	ND	ND	ND	ND	ND	ND	ND		30
4-bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitroso-Di-N-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Pyrene	ND	ND	ND	ND	ND	180	ND	ND	50000	1000
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	---	100
2,4,5-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	---

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives
STARS Memo #1 Guidance Values
Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 3:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - SVOCs (µg/kg)**

JULY 2005

Compound	TP-33-01	TP-33-02	TP-35-01	TP-35-02	TP-36-01	TP-37-01	TP-38-01	TP-39-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Recommended Soil Cleanup Objective (µg/kg)
(depth, ft. bgs)	0-1'	8'	0-1'	4-7'	5-7'	4-5'	4-7'	6-7.5'		
Acenaphthene	ND	ND	ND	ND	ND	71	52	ND	50000	400
Acenaphthylene	ND	ND	40	92	ND	83	52	ND	41000	41000
Anthracene	ND	ND	ND	84	ND	65	65	ND	50000	1000
Benzo(a)anthracene	ND	ND	100	230	61	150	200	ND	224 or MDL	0.04
Benzo(a)pyrene	ND	ND	120	230	48	190	190	180	61 or MDL	0.04
Benzo(b)fluoranthene	ND	ND	140	170	59	200	210	ND	1100	0.04
Benzo(g,h,i)perylene	ND	ND	84	110	ND	110	75	ND	50000	0.04
Benzo(k)fluoranthene	ND	ND	110	200	60	160	170	ND	1100	0.04
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Di-n-Butylphthalate	ND	ND	ND	280	ND	250	280	ND	8100	8100
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Indeno(1,2,3-cd)pyrene	ND	ND	74	93	ND	90	70	ND	220 or MDL	0.04
4-chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	220
Bis(-2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	800	800
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	ND	ND	ND	ND	400	---
Chrysene	ND	ND	130	260	75	210	280	200	14 or MDL	0.04
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	39	ND	ND	6200	14
Dibenzofuran	ND	ND	ND	ND	ND	54	97	ND	---	620
1,3-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,2-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,4-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	7100	---
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	400	200
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	2000	7100
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	---	2000
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4-dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2,4-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1000	---
2,6-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Bis(2-ethylhexyl)phthalate	ND	ND	ND	320	ND	330	ND	ND	50000	50000
Fluoranthene	ND	ND	150	520	98	320	410	320	50000	1000
Fluorene	ND	ND	ND	53	ND	100	53	ND	410	1000
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	410
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3200	---
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	4400	4400
2-methylnaphthalene	ND	ND	83	50	ND	190	290	ND	36400	36400
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	240 or MDL	240
2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
4-methylphenol	ND	ND	ND	ND	ND	ND	78	ND	900	900
naphthalene	ND	ND	55	49	ND	120	160	ND	13000	200
2-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	430 or MDL	430
3-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	500 or MDL	500
4-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	---
nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	330 or MDL	330
4-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND		1000
Phenanthrene	ND	ND	83	320	ND	210	400	180	50000	1000
Phenol	ND	ND	ND	ND	ND	ND	ND	ND		30
4-bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitroso-Di-N-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Pyrene	ND	ND	130	480	81	280	300	290	50000	1000
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	---	100
2,4,5-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	---

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 3:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - SVOCs (µg/kg)**

JULY 2005

Compound	TP-41-01	TP-42-02	TP-44-01	TP-44-02	TP-46-01	TP-47-01	TP-47-02 DUPLICATE	TP-48-01	TAGM 4046 Recommended Soil Cleanup Objective (µg/kg)	STARS Memo #1 Recommended Soil Cleanup Objective (µg/kg)
(depth, ft. bgs)	3-6'	4-6'	10.5'	0-2'	10'	8-9'	8-9'	6-7'		
Acenaphthene	ND	ND	ND	ND	74	ND	ND	ND	50000	400
Acenaphthylene	ND	ND	ND	44	ND	ND	ND	ND	41000	41000
Anthracene	ND	ND	ND	60	40	ND	ND	ND	50000	1000
Benzo(a)anthracene	ND	ND	ND	**82**	ND	ND	ND	ND	224 or MDL	0.04
Benzo(a)pyrene	ND	ND	ND	**53**	ND	ND	ND	ND	61 or MDL	0.04
Benzo(b)fluoranthene	ND	ND	ND	**76**	ND	ND	ND	ND	1100	0.04
Benzo(g,h,i)perylene	ND	ND	ND	**66**	ND	ND	ND	ND	50000	0.04
Benzo(k)fluoranthene	ND	ND	ND	**59**	ND	ND	ND	ND	1100	0.04
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
butyl benzyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Di-n-Butylphthalate	270	310	280	280	250	ND	ND	ND	8100	8100
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Indeno(1,2,3-cd)pyrene	ND	ND	ND	**37**	ND	ND	ND	ND	220 or MDL	0.04
4-chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	220
Bis(-2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2-chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	800	800
2,2'-oxybis(1-chloropropane)	ND	ND	ND	ND	ND	ND	ND	ND	400	---
Chrysene	ND	ND	ND	**180**	ND	ND	ND	ND	14 or MDL	0.04
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	6200	14
Dibenzofuran	ND	ND	ND	110	ND	ND	ND	ND	---	620
1,3-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,2-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
1,4-dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
3,3'-dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	7100	---
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	400	200
Diethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	2000	7100
Dimethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	---	2000
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4-dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2,4-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1000	---
2,6-dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	50000	1000
Bis(2-ethylhexyl)phthalate	ND	ND	ND	300	ND	ND	ND	ND	50000	50000
Fluoranthene	ND	ND	ND	110	ND	ND	ND	ND	50000	1000
Fluorene	ND	ND	ND	ND	150	ND	ND	ND	410	1000
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	410
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	3200	---
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	4400	4400
2-methylnaphthalene	ND	ND	ND	560	510	ND	ND	ND	36400	36400
4,6-dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	240 or MDL	240
2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
4-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	900	900
naphthalene	ND	ND	ND	**280**	51	ND	ND	ND	13000	200
2-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	430 or MDL	430
3-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	500 or MDL	500
4-nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	---	---
nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	200 or MDL	200
2-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	330 or MDL	330
4-nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	100
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Di-N-octyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	50000	50000
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND		1000
Phenanthrene	ND	ND	ND	360	260	ND	ND	ND	50000	1000
Phenol	ND	ND	ND	ND	ND	ND	ND	ND		30
4-bromophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
4-chlorophenyl-phenylether	ND	ND	ND	ND	ND	ND	ND	ND	---	---
N-nitroso-Di-N-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Pyrene	ND	ND	ND	130	ND	ND	ND	ND	50000	1000
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	---	---
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	---	100
2,4,5-trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	100 or MDL	---

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

TAGM 4046 Recommended Soil Cleanup Objectives

STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 4a:
REDL 2 LOVE ROAD BCP SITE
PRELIMINARY GROUNDWATER ANALYTICAL RESULTS: VOCS (ppb)

OCTOBER 2005

Compound (µg/L)	767050916-01	767050916-02	767050916-FB	TOGS 1.1.1 Ambient GW Quality Guidance Values (µg/L)
Acetone	ND < 20	**2.8***	**1.8***	50
Benzene	**74.0**	ND < 5	ND < 5	NR
Bromodichloromethane	ND < 5	ND < 5	ND < 5	50
Bromoform	ND < 5	ND < 5	ND < 5	50
Bromomethane	ND < 5	ND < 5	ND < 5	5
2-butanone (MEK)	ND < 10	ND < 10	ND < 10	NR
Carbon disulfide	ND < 10	ND < 10	ND < 10	NR
Carbon tetrachloride	ND < 5	ND < 5	ND < 5	5
Chlorobenzene	ND < 5	ND < 5	ND < 5	5
Chloroethane	ND < 5	ND < 5	ND < 5	5
Chloroform	ND < 5	ND < 5	ND < 5	7
Chloromethane	ND < 5	ND < 5	ND < 5	NR
Dibromochloromethane	ND < 5	ND < 5	ND < 5	5
1,1-dichloroethane	ND < 5	ND < 5	ND < 5	5
1,2-dichloroethane	ND < 5	ND < 5	ND < 5	0.6
1,1-dichloroethene	ND < 5	ND < 5	ND < 5	5
cis-1,2-dichloroethene	ND < 5	ND < 5	ND < 5	5
trans-1,2-dichloroethene	ND < 5	ND < 5	ND < 5	5
1,2-dichloropropane	**3.7***	ND < 5	ND < 5	1
cis-1,3-dichloropropene	ND < 5	ND < 5	ND < 5	5
trans-1,3-dichloropropene	ND < 5	ND < 5	ND < 5	5
Ethylbenzene	**450.0**	ND < 5	ND < 5	5
2-hexanone	ND < 10	ND < 10	ND < 10	50
Methylene chloride	ND < 5	ND < 5	ND < 5	5
4-methyl-2-pentanone (MIBK)	ND < 10	ND < 10	ND < 10	NR
Styrene	ND < 5	ND < 5	ND < 5	5
1,1,2,2-tetrachloroethane	ND < 5	ND < 5	ND < 5	5
Tetrachloroethene	ND < 5	ND < 5	ND < 5	5
Toluene	**2.1***	ND < 5	ND < 5	5
1,1,1-trichloroethane	ND < 5	ND < 5	ND < 5	5
1,1,2-trichloroethane	ND < 5	ND < 5	ND < 5	1
Trichloroethene	ND < 5	ND < 5	ND < 5	5
Vinyl Chloride	ND < 5	ND < 5	ND < 5	NR
o-xylene	**1.6***	ND < 5	ND < 5	5
m+p-xylene	**22.0**	ND < 5	ND < 5	5

Notes:

1. **VOCs analyzed for by EPA Method 8260B TCL.**
2. **Ethylbenzene was detected in sample -01 at 500 µg/L, but this concentration exceeded the calibration range of the instrument for that specific analysis. The sample was re-run at a dilution of 5.00, and ethylbenzene was then detected at 450 µg/L.**
3. **Values followed by "*" represent estimated concentrations.**
4. **ND = not detected above reported method detection limit.**
5. **NR = Not Regulated by the Principal Organic Contaminant (POC) Groundwater Standard according to TOGS 1.1.1.**
6. **Bold and shaded values are in exceedance of the TAGM 4046 recommended soil cleanup objective.**

TABLE 4b:
REDL 2 LOVE ROAD BCP SITE
PRELIMINARY GROUNDWATER ANALYTICAL RESULTS - SVOCS (ppb)

OCTOBER 2005

Compound (µg/L)	767050916-01	TOGS 1.1.1 Ambient GW Quality Guidance Values (µg/L)
Acenaphthene	ND < 11	400
Acenaphthylene	ND < 11	41000
Anthracene	ND < 11	1000
Benzo(a)anthracene	ND < 11	0.04
Benzo(a)pyrene	ND < 11	0.04
Benzo(b)fluoranthene	ND < 11	0.04
Benzo(g,h,i)perylene	ND < 11	0.04
Benzo(k)fluoranthene	ND < 11	0.04
Benzyl alcohol	ND < 11	---
butyl benzyl phthalate	ND < 11	50000
Di-n-Butylphthalate	1.2*	8100
Carbazole	ND < 11	---
Indeno(1,2,3-cd)pyrene	ND < 11	0.04
4-chloroaniline	ND < 11	220
Bis(-2-chloroethoxy)methane	ND < 11	---
Bis(2-chloroethyl)ether	ND < 11	---
2-chloronaphthalene	ND < 11	---
2-chlorophenol	ND < 11	800
2,2'-oxybis(1-chloropropane)	ND < 11	---
Chrysene	ND < 11	0.04
Dibenzo(a,h)anthracene	ND < 11	14
Dibenzofuran	ND < 11	620
1,3-dichlorobenzene	ND < 11	---
1,2-dichlorobenzene	ND < 11	---
1,4-dichlorobenzene	ND < 11	---
3,3'-dichlorobenzidine	ND < 11	---
2,4-dichlorophenol	ND < 11	200
Diethylphthalate	ND < 11	7100
Dimethyl phthalate	ND < 11	2000
2,4-dimethylphenol	ND < 11	---
2,4-dinitrophenol	ND < 56	200
2,4-dinitrotoluene	ND < 11	---
2,6-dinitrotoluene	ND < 11	1000
Bis(2-ethylhexyl)phthalate	ND < 11	50000
Fluoranthene	ND < 11	1000
Fluorene	ND < 11	1000
Hexachlorobenzene	ND < 11	410
Hexachlorobutadiene	ND < 11	---
Hexachlorocyclopentadiene	ND < 11	---
Hexachloroethane	ND < 11	---
Isophorone	ND < 11	4400
2-methylnaphthalene	7.0*	36400
4,6-dinitro-2-methylphenol	ND < 56	---
4-chloro-3-methylphenol	ND < 11	240
2-methylphenol	ND < 11	100
3+4-methylphenol	ND < 11	900
Naphthalene	6.1*	200
2-nitroaniline	ND < 56	430
3-nitroaniline	ND < 56	500
4-nitroaniline	ND < 56	---
nitrobenzene	ND < 11	200
2-nitrophenol	ND < 11	330
4-nitrophenol	ND < 56	100
N-nitrosodimethylamine	ND < 11	---
N-nitrosodiphenylamine	ND < 11	---
Di-n-octyl phthalate	ND < 11	50000
Pentachlorophenol	ND < 56	1000
Phenanthrene	ND < 11	1000
Phenol	ND < 11	30
4-bromophenyl-phenylether	ND < 11	---
4-chlorophenyl-phenylether	ND < 11	---
N-nitroso-Di-n-propylamine	ND < 11	---
Pyrene	ND < 11	1000
1,2,4-trichlorobenzene	ND < 11	---
2,4,6-trichlorophenol	ND < 11	100
2,4,5-trichlorophenol	ND < 11	---

Notes:
1. **VOCs analyzed for by EPA Method 8260B TCL.**
2. **Values followed by "*" represent estimated concentrations.**
3. **ND = not detected above reported method detection limit.**
4. **NR = Not Regulated by the Principal Organic Contaminant (POC) Groundwater Standard according to TOGS 1.1.1.**
5. **Bold and shaded values are in exceedance of the TAGM 4046 recommended soil cleanup objective.**

TABLE 5a:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - VOCs (µg/kg)
POST TANK EXCAVATION
NOVEMBER 2005

Compound (µg/kg)	767051108-01	767051108-02	767051108-03	767051108-04	767051108-05	TAGM 4046 Guidance Values (µg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(location)	Southern Wall of Tank Pit	Northern Wall of Tank Pit	Eastern Wall of Tank Pit	Western Wall of Tank Pit	Bottom of Tank Pit		
benzene	ND > 270	ND > 140	ND > 150	ND > 150	ND > 280	60	14
sec-butylbenzene	**5300**	**380**	**1100**	**1100**	**8200**	5000	100
tert-butylbenzene	ND > 270	ND > 140	ND > 150	ND > 150	ND > 280	3400	100
n-butylbenzene	**19000**	**1400**	**11000**	**8700**	**17000**	3400	100
methyl-tert-butyl-ether	ND > 270	ND > 140	ND > 150	ND > 150	ND > 280	600	–
ethylbenzene	**20000**	ND > 140	**1400**	**1400**	**8800**	5500	100
Isopropyl Benzene	**7900**	ND > 140	**630**	**1100**	**4300**	2600	100
p-isopropyltoluene	**480**	ND > 140	**420**	**470**	ND > 280	3900	100
naphthalene	**28000**	**510**	**5300**	**2800**	**27000**	10000	200
n-propylbenzene	**18000**	**460**	**2600**	**2100**	**13000**	2500	100
toluene	**3400**	ND > 140	**530**	**360**	**1100**	1500	100
1,2,4-trimethylbenzene	**2400**	**260**	**2200**	**14000**	ND > 280	2400	100
1,3,5-trimethylbenzene	**1200**	**160**	**2300**	**5100**	**640**	2600	100
o-xylene	**2300**	ND > 290	**360**	**1200**	**910**	1200	100
m-xylene, p-xylene	**2300**	ND > 290	ND > 290	**5700**	ND > 560	1200	100

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

Exceedance of TAGM 4046 Recommended Soil Cleanup Objectives

Exceedance of STARS Memo #1 Guidance Values

Exceedance of both TAGM 4046 and STARS Memo #1 guidance

TABLE 5b:
REDL 2 LOVE ROAD BCP SITE
SOIL SAMPLING RESULTS - SVOCs (mg/kg)
POST TANK EXCAVATION
NOVEMBER 2005

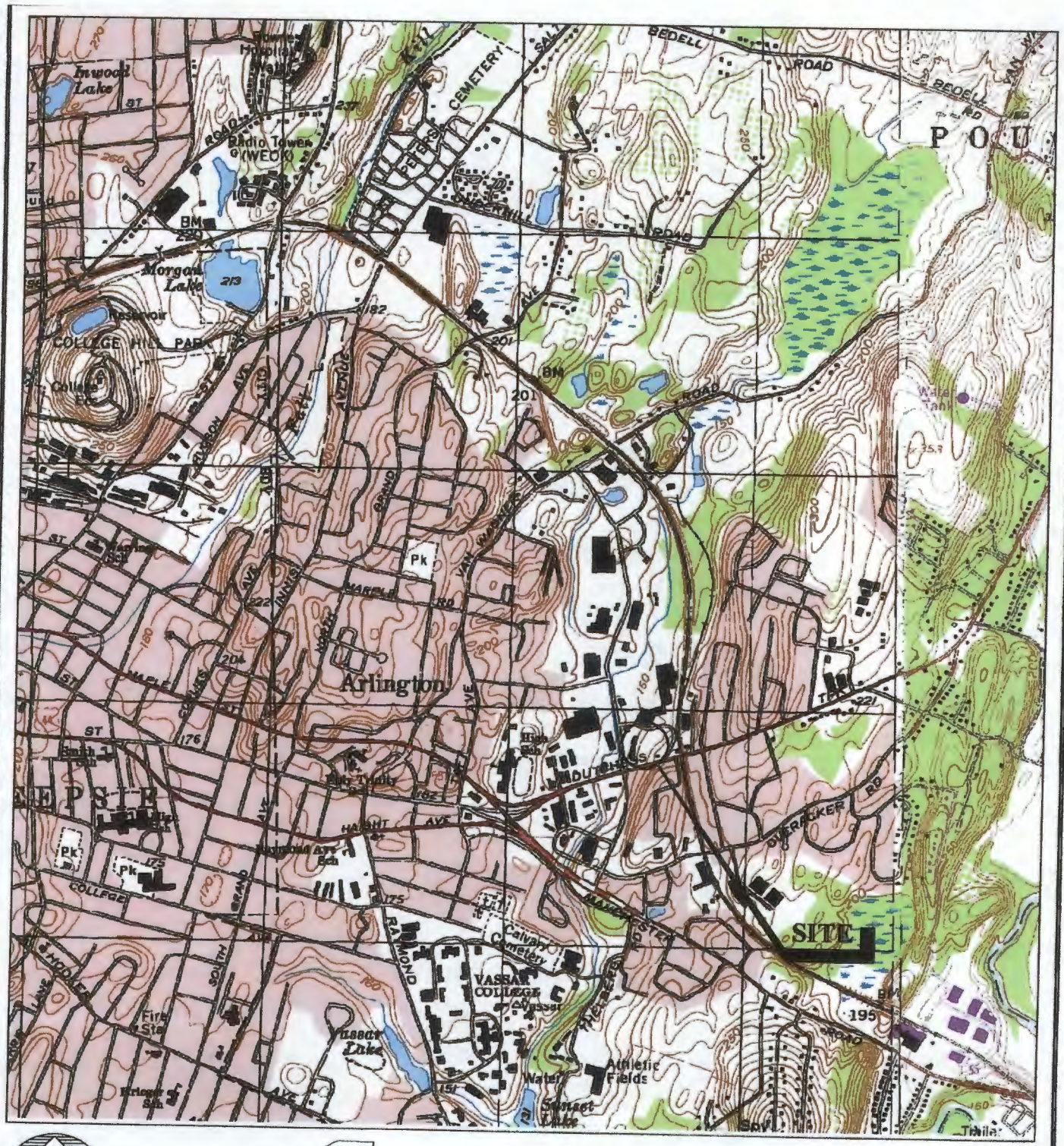
Compound	767051108-01	767051108-02	767051108-03	767051108-04	767051108-05	TAGM 4046 Recommended Soil Cleanup Guidance Values (mg/kg)	STARS Memo #1 Guidance Values (µg/kg)
(location)	Southern Wall of Tank Pit	Northern Wall of Tank Pit	Eastern Wall of Tank Pit	Western Wall of Tank Pit	Bottom of Tank Pit		
Acenaphthene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	50000	400
Acenaphthylene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	41000	41000
Anthracene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	50000	1000
Benzo(a)anthracene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	224 or MDL	0.04
Benzo(a)pyrene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	61 or MDL	0.04
Benzo(b)fluoranthene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	1100	0.04
Benzo(g,h,i)perylene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	50000	0.04
Benzo(k)fluoranthene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	1100	0.04
Benzyl alcohol	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
butylbenzylphthalate	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	50000	50000
di-n-butylphthalate	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	8100	8100
Carbazole	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
4-chloroaniline	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	220 or MDL	220
Bis(-2-chloroethoxy)methane	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
Bis(2-chloroethyl)ether	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
2-chloronaphthalene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
2,2'-oxybis(1-chloropropane)	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
Chrysene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	400	0.04
Dibenzo(a,h)anthracene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	14 or MDL	14
Dibenzofuran	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	6200	620
1,3-dichlorobenzene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
1,2-dichlorobenzene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
1,4-dichlorobenzene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
3,3'-dichlorobenzidine	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
Diethylphthalate	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	7100	7100
Dimethyl phthalate	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	2000	2000
2,4-dinitrotoluene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
2,6-dinitrotoluene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	1000	1000
Bis(2-ethylhexyl)phthalate	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	50000	50000
Fluoranthene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	50000	1000
Fluorene	**7400**	980	**4000**	ND > 380	**7800**	50000	1000
Hexachlorobenzene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	410	410
Hexachlorobutadiene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
Hexachlorocyclopentadiene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
Hexachloroethane	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
Indeno(1,2,3-cd)pyrene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	3200	0.04
Isophorone	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	4400	4400
2-methylnaphthalene	**44000**	630	22000	1800	30000	36400	36400
naphthalene	**14000**	ND > 380	**6900**	**1300**	**11000**	13000	200
2-nitroaniline	ND > 37000	ND > 1900	ND > 20000	ND > 2000	ND > 19000	430 or MDL	430
3-nitroaniline	ND > 37000	ND > 1900	ND > 20000	ND > 2000	ND > 19000	500 or MDL	500
4-nitroaniline	ND > 37000	ND > 1900	ND > 20000	ND > 2000	ND > 19000	---	---
nitrobenzene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	200 or MDL	200
N-nitrosodimethylamine	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
N-nitrosodiphenylamine	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
Di-N-octyl phthalate	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	50000	50000
Phenanthrene	**13000**	**1500**	**6400**	ND > 380	**13000**	50000	1000
4-bromophenyl-phenylether	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
4-chlorophenyl-phenylether	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
N-nitroso-Di-N-propylamine	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---
Pyrene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	50000	1000
1,2,4-trichlorobenzene	ND > 7200	ND > 380	ND > 3900	ND > 380	ND > 3700	---	---

MDL = Method Detection Limit

** Bold and shaded values are in exceedance of regulatory soil cleanup guidance values:

Exceedance of TAGM 4046 Recommended Soil Cleanup Objectives
Exceedance of STARS Memo #1 Guidance Values
Exceedance of both TAGM 4046 and STARS Memo #1 guidance

FIGURES

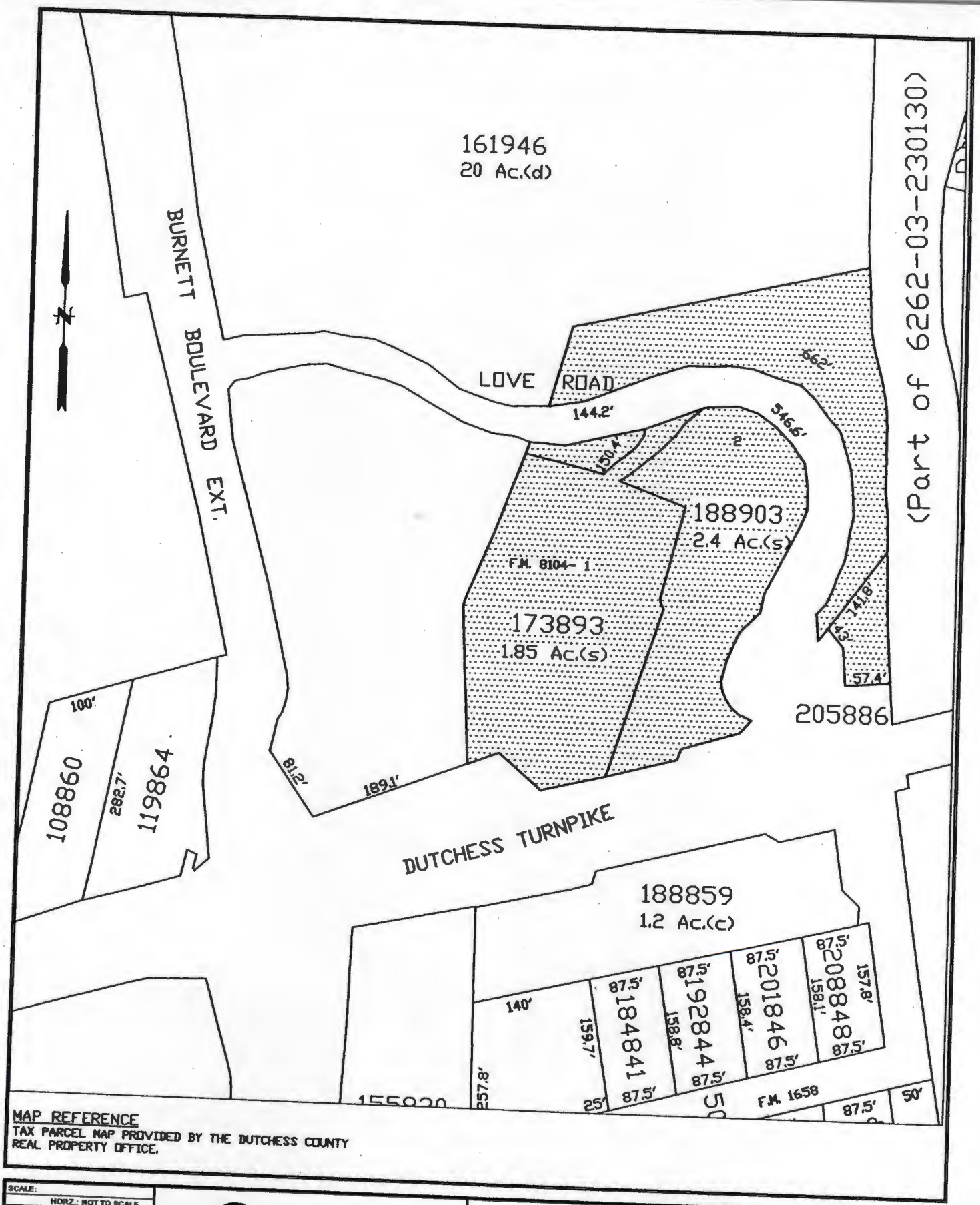


MAP REFERENCE

THIS MAP WAS PREPARED FROM THE FOLLOWING 7.5 MINUTE USGS MAPS:
Poughkeepsie Quadrangle 1964, Photorevised 1980
Poughkeepsie Quadrangle 1963, Photorevised 1980

SCALE: HORZ.: 1" = 2000' VERT.: N/A DATUM: HORZ.: N/A VERT.: N/A 0 1000 2000 GRAPHIC SCALE	FUSS & O'NEILL of New York, PC 80 WASHINGTON STREET SUITE 301, POUGHKEEPSIE, NY 12601 845.452.5601 www.FandO.com	HERBERT REDL PROPERTIES USGS LOCATION MAP 2 LOVE ROAD TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NEW YORK	PROJ. No.: 20040761.A2N DATE: SEPTEMBER 2005 FIG. 1

CTB: FAO STANDARD
LMAN: PLOT
MS VIEW: 2000
UCS: WRLL



MAP REFERENCE
TAX PARCEL MAP PROVIDED BY THE DUTCHESS COUNTY REAL PROPERTY OFFICE.

SCALE: HORZ.: NOT TO SCALE VERT.: DATUM: HORZ.: VERT.: 0 NTS NTS GRAPHIC SCALE	FUSS & O'NEILL of New York, pc 80 WASHINGTON STREET SUITE 301, POUGHKEEPSIE, NY 12601 845.452.6405 www.FandO.com	HERBERT REDL PROPERTIES TAX PARCEL MAP 2 LOVE ROAD TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NEW YORK	PROJ. No.: 20040761.A2N DATE: SEPTEMBER 2005 FIG. 2

CTB:
LMAR:
MB VIEW:
UCS:WOF

EXIST. SMALL STORES
16,331 S.F.

N/F LANDS OF
KIMCO DEVELOPMENT
L.1755 P.72

EXISTING COMPACTOR

EXIST.
DOCK
AREA

EXISTING STOP & SHOP
33,660 S.F.

EXISTING CB
RIM=150.6
INV.=145.4

EXISTING CB
RIM=157.4
INV. IN=152.9
INV. OUT=152.8

DOT FEE
MAP 2287R-1
PARCEL #348

LOVE

APPROX. FLOOD PLAIN BOUNDARY

STAKE

OVERLA
EASEM

CH/101217

CH/137473

CH/101210

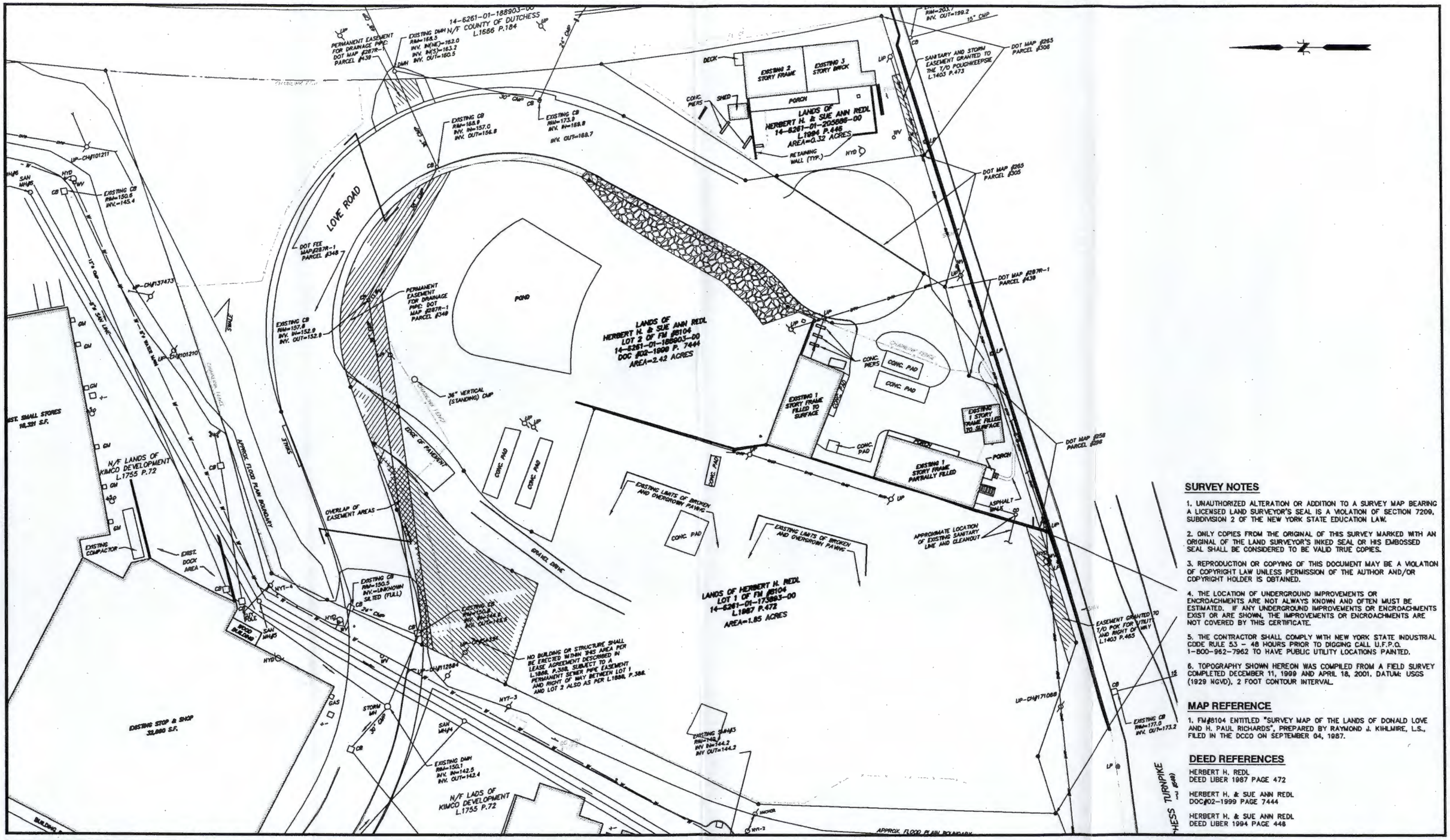
SAN MH#5

HYD

GAS

				PROJ. MANAGER:	
				CHIEF DESIGNER:	
				REVIEWED BY	DATE
1.					
No.	DATE	DESCRIPTION	BY		
REVISIONS					

CTB:
LMAN:
MS VIEW:
UCS: WORLD



SURVEY NOTES

1. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

2. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

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4. THE LOCATION OF UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS ARE NOT ALWAYS KNOWN AND OFTEN MUST BE ESTIMATED. IF ANY UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS EXIST OR ARE SHOWN, THE IMPROVEMENTS OR ENCROACHMENTS ARE NOT COVERED BY THIS CERTIFICATE.

5. THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 53 – 48 HOURS PRIOR TO DIGGING CALL U.F.P.O. 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.

6. TOPOGRAPHY SHOWN HEREON WAS COMPILED FROM A FIELD SURVEY COMPLETED DECEMBER 11, 1999 AND APRIL 18, 2001. DATUM: USGS (1929 NGVD), 2 FOOT CONTOUR INTERVAL.

MAP REFERENCE

1. FM#8104 ENTITLED "SURVEY MAP OF THE LANDS OF DONALD LOVE AND H. PAUL RICHARDS", PREPARED BY RAYMOND J. KIHLMIRE, L.S., FILED IN THE DCCO ON SEPTEMBER 04, 1987.

DEED REFERENCES

HERBERT H. REDL
DEED LIBER 1987 PAGE 472

HERBERT H. & SUE ANN REDL
DOC#02-1999 PAGE 7444

HERBERT H. & SUE ANN REDL
DEED LIBER 1994 PAGE 448

UCS: WORLD | LMAN: | MS VIEW: | GTB:

No.	DATE	DESCRIPTION	BY
1.			

REVISIONS

PROJ. MANAGER:
CHIEF DESIGNER:
REVIEWED BY: DATE:

TO MY KNOWLEDGE AND BELIEF, THESE MAPS ARE SUBSTANTIALLY CORRECT AS NOTED HEREON.

LAWRENCE R. GEISSLER, JR. 12327 LICENSE No.

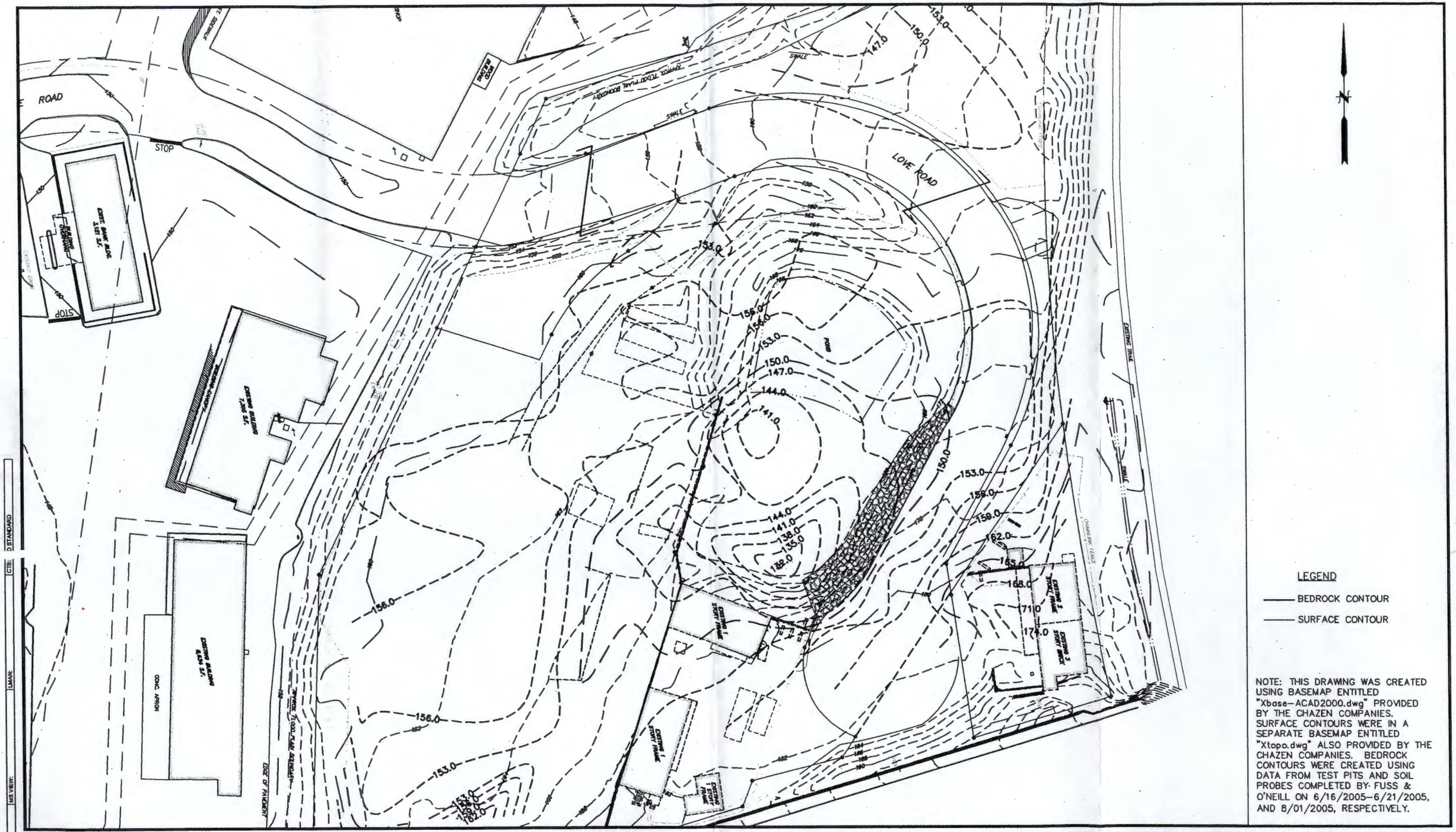
SCALE:
HORZ.: 1" = 60'
VERT.:
DATUM
HORZ.:
VERT.:
0 30 60
GRAPHIC SCALE

FUSS & O'NEILL of New York, PC
80 WASHINGTON STREET SUITE 301, POUGHKEEPSIE, NY 12601
845.452.8801 www.FandO.com

HERBERT REDL PROPERTIES
EXISTING CONDITIONS
2 LOVE ROAD
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NEW YORK

PROJ. No.: 20040761.A2N
DATE: SEPTEMBER 2005

FIG. 3



LEGEND

——— BEDROCK CONTOUR

——— SURFACE CONTOUR

NOTE: THIS DRAWING WAS CREATED USING BASEMAP ENTITLED "Xbase–ACAD2000.dwg" PROVIDED BY THE CHAZEN COMPANIES. SURFACE CONTOURS WERE IN A SEPARATE BASEMAP ENTITLED "Xtopo.dwg" ALSO PROVIDED BY THE CHAZEN COMPANIES. BEDROCK CONTOURS WERE CREATED USING DATA FROM TEST PITS AND SOIL PROBES COMPLETED BY FUSS & O'NEILL ON 6/16/2005–6/21/2005, AND 8/01/2005, RESPECTIVELY.

CTR: D STANDARD
LMAP:
MS VIEW:
UCS: WORLD

No.	DATE	DESCRIPTION	BY
1.			

REVISIONS

PROJ. MANAGER:
CHIEF DESIGNER:
REVIEWED BY: DATE

TO MY KNOWLEDGE AND BELIEF, THESE MAPS ARE SUBSTANTIALLY CORRECT AS NOTED HEREON.

LAWRENCE R. GEISSLER, JR. 12327 LICENSE No.

SCALE:
HORZ.: 1" = 60'
VERT.:
DATUM:
HORZ.:
VERT.:
0 30 60
GRAPHIC SCALE

FUSS & O'NEILL of New York, PC

90 WASHINGTON STREET SUITE 301, POUGHKEEPSIE, NY 12601
845.452.6801 www.FandO.com

HERBERT REDL PROPERTIES

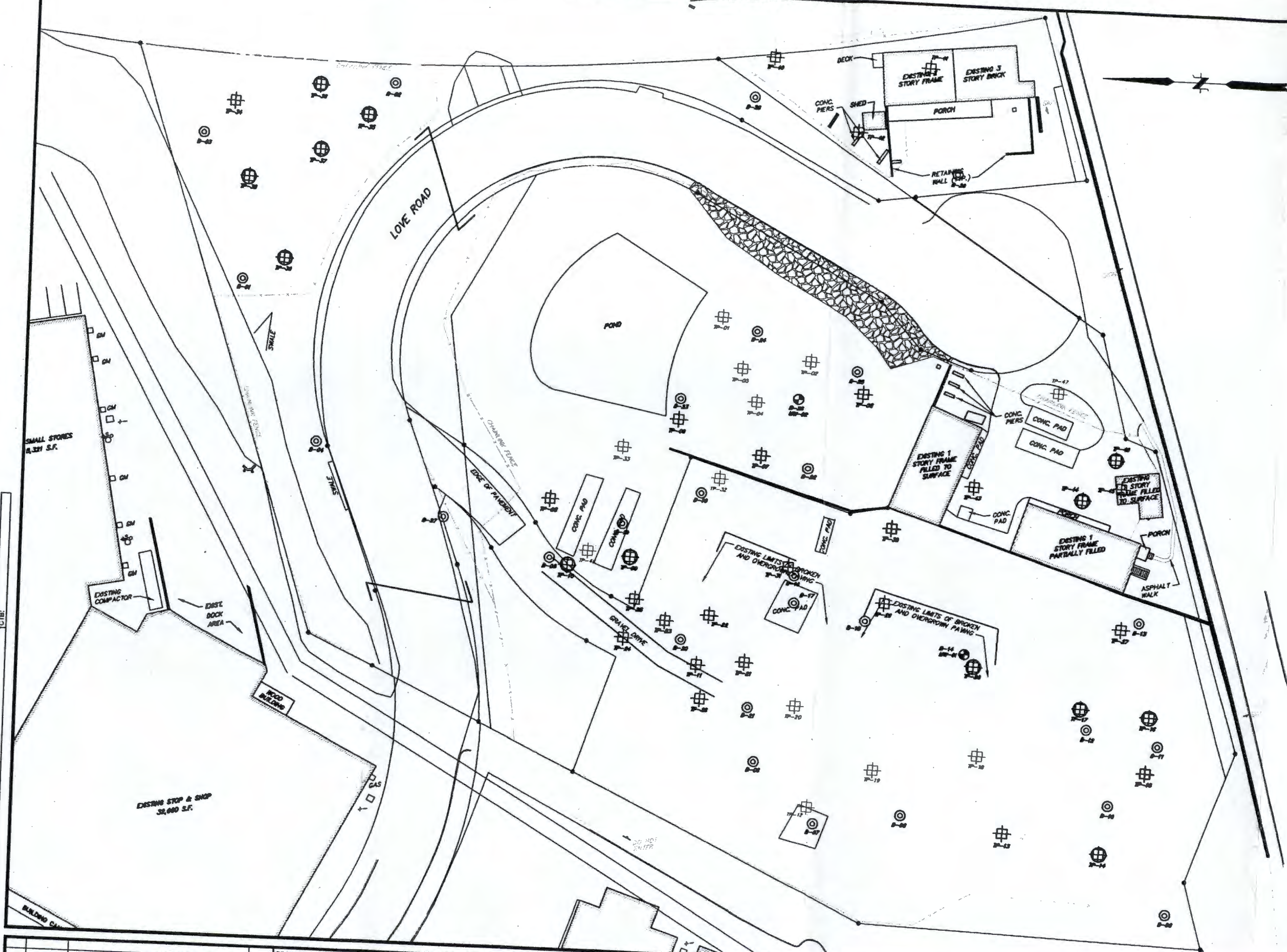
TOPOGRAPHIC MAP: BEDROCK AND SURFACE CONTOURS

2 LOVE ROAD

TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NEW YORK

PROJ. No.: 20040761.A1N
DATE: OCTOBER 2005

FIG. 4



LEGEND

- TEST PIT
- SOIL BORING
- TEMPORARY MONITORING WELL AND SOIL BORING

GENERAL NOTES

1. TEST PIT AND SOIL BORING LOCATIONS SHOWN ARE ESTIMATED.
2. TEST PITS WERE COMPLETED JUNE 16–21, 2005. SOIL PROBES AND TEMPORARY MONITORING WELLS WERE COMPLETED AUGUST 1, 2005.

MAP REFERENCE

1. FM#8104 ENTITLED "SURVEY MAP OF THE LANDS OF DONALD LOVE AND [illegible] RICHARDS", PREPARED BY [illegible] FILED IN THE DCCO ON SEPTEMBER [illegible]

No.	DATE	DESCRIPTION	BY
1.			

REVISIONS

PROJ. MANAGER:
CHIEF DESIGNER:
REVIEWED BY: DATE

TO MY KNOWLEDGE AND BELIEF, THESE MAPS ARE SUBSTANTIALLY CORRECT AS NOTED HEREON.

LAWRENCE R. GEISSLER, JR. 12327 LICENSE No.

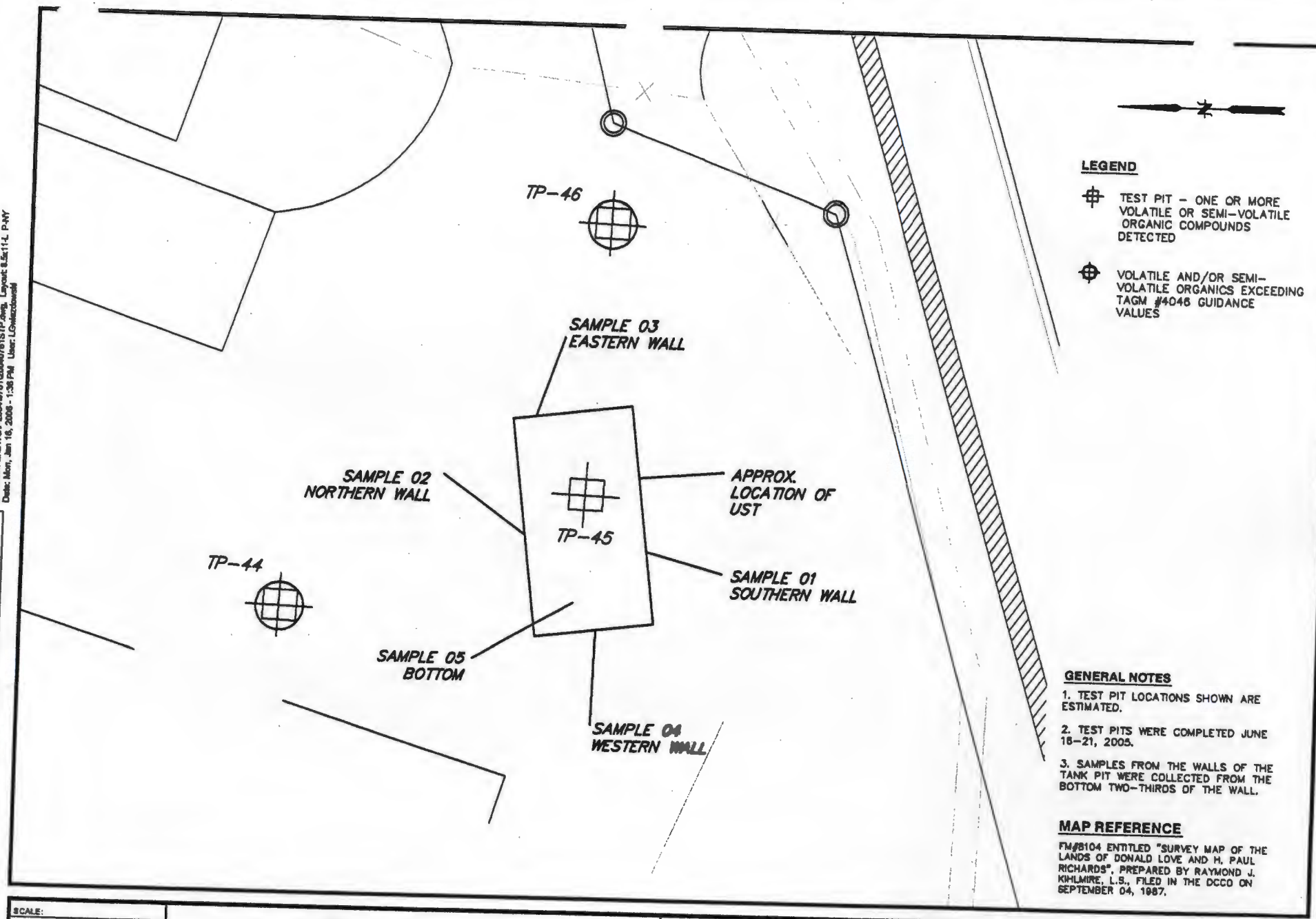
SCALE: HORZ.: 1" = 60' VERT.:
DATUM: HORZ.: VERT.:
0 30 60
GRAPHIC SCALE

FUSS & O'NEILL of New York, PC
80 WASHINGTON STREET SUITE 301, POUGHKEEPSIE, NY 12601
845.452.6801
www.FandO.com

HERBERT REDL PROPERTIES
SUMMARY OF FIELD WORK
2 LOVE ROAD
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NEW YORK

PROJ. No.: 20040761.A2N
DATE: SEPTEMBER 2005

FIG. 5



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Date: Mon, Jan 16, 2006 - 1:36 PM User: LCowlezcowski

LCB: WORLD | MS VIEW: | XMAN: | CTE:

SCALE:
HORZ.: 1" = 10'
VERT.:
DATUM:
HORZ.:
VERT.:
0 5 10
GRAPHIC SCALE

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of New York, pc
50 WASHINGTON STREET SUITE 301, POUGHKEEPSIE, NY 12601
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HERBERT REDL PROPERTIES

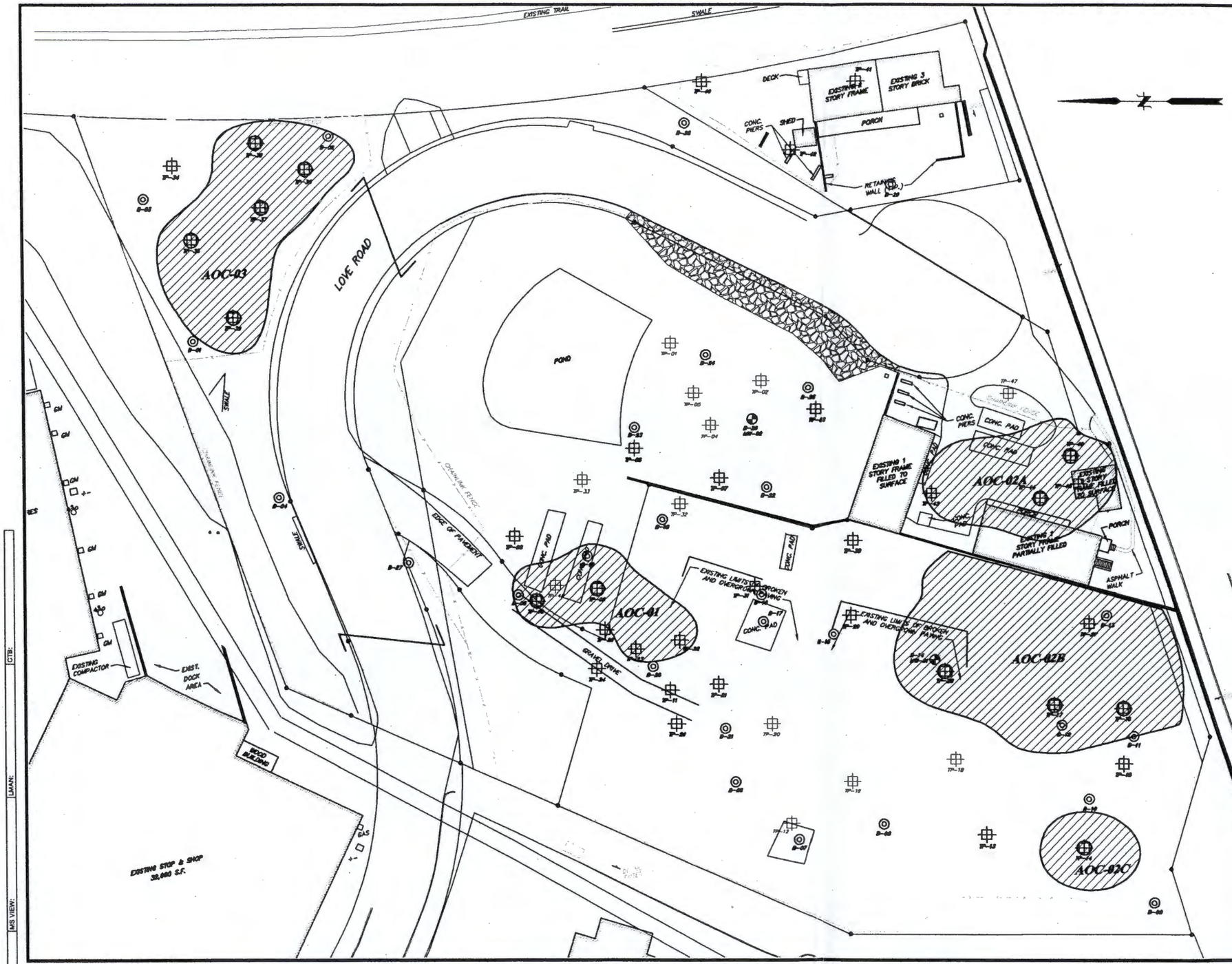
SUMMARY OF FIELD WORK - UST EXCAVATION

2 LOVE ROAD

TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NEW YORK

PROJ. No.: 20040761.A2N
DATE: NOVEMBER 2005

FIG. 6



LEGEND

- TEST PIT – ONE OR MORE VOLATILE OR SEMI-VOLATILE ORGANIC COMPOUNDS DETECTED
- TEST PIT – NO VOLATILE OR SEMI-VOLATILE ORGANIC COMPOUNDS DETECTED
- SOIL BORING
- TEMPORARY MONITORING WELL AND SOIL BORING
- VOLATILE AND/OR SEMI-VOLATILE ORGANICS EXCEEDING TAGM #4046 OR STARS MEMO #1 GUIDANCE VALUES
- SUGGESTED AREA OF CONCERN

GENERAL NOTES

1. TEST PIT AND SOIL BORING LOCATIONS SHOWN ARE ESTIMATED.
2. AREAS OF CONCERN ARE SUGGESTED AS A RESULT OF TAGM #4046 AND STARS MEMO #1 VOC AND SVOC EXCEEDANCES SEEN IN THE ANALYTICAL DATA OBTAINED. THE AREAS DO NOT ACCURATELY DEPICT THE EXACT SIZES OF CONTAMINATION PLUMES.
3. METALS EXCEEDING TAGM #4046 GUIDANCE VALUES ARE NOT DEPICTED ON THIS FIGURE.

MAP REFERENCE

1. FM#8104 ENTITLED "SURVEY MAP OF THE LANDS OF DONALD LOVE AND H. PAUL RICHARDS", PREPARED BY RAYMOND J. KIHLMIRE, L.S., FILED IN THE DCCO ON SEPTEMBER 04, 1987.

UCS: WORLD | MS VIEW: | LMAN: | CTB:

No.	DATE	DESCRIPTION	BY
1.			

REVISIONS

PROJ. MANAGER:
CHIEF DESIGNER:
REVIEWED BY: DATE

TO MY KNOWLEDGE AND BELIEF, THESE MAPS ARE SUBSTANTIALLY CORRECT AS NOTED HEREON.

LAWRENCE R. GEISSLER, JR. 12327 LICENSE No.

SCALE:
HORZ.: 1" = 60'
VERT.:
DATUM:
HORZ.:
VERT.:
0 30 60
GRAPHIC SCALE

FUSS & O'NEILL of New York, PC
80 WASHINGTON STREET SUITE 301, POUGHKEEPSIE, NY 12601
845.452.6801 www.FandO.com

HERBERT REDL PROPERTIES
AREAS OF CONCERN
2 LOVE ROAD
TOWN OF POUGHKEEPSIE DUTCHESS COUNTY, NEW YORK

PROJ. No.: 20040761.A2N
DATE: OCTOBER 2005

FIG. 7

APPENDIX A

TEST PIT LOGS
SOIL PROBE LOGS
MONITORING WELL COMPLETION FORMS

Test Pit # TP- 01

Location: NE of pond, ~ 15'.

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16/2005
Time:	9:27 AM
Sample Prefix:	TP01-
Logged By:	LMG

Contractor:	HHR Construction
Operator:	
Backfill:	Native Material

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Consulting Engineers
Poughkeepsie, NY 12601

SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP01-01	927	1½'	0-1.5' brown f-m sand and silt, dry, little f-m subground gravel, trace organics		no
		-			
		-			
		-			
		-	1.5'-1.7' gray organic silt, trace vegetation/matter, dry		
		-			
		-	1.7'-3' Same as 0-1.5' plus more gravel, little silt.		
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	3' x 10'
TOTAL DEPTH	3'
DEPTH TO BEDROCK	not encountered
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	likely 2-4' bgs
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: raining - very high humidity

water at ~3' bgs, no visible sheen or odor.

Test Pit # TP- 02

Location: further NE of pond - along rock retaining wall

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16/2005
Time:	9:50 AM
Sample Prefix:	TP02-
Logged By:	LMG

Contractor:	HHR Construction
Operator:	
Backfill:	Native Material

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Poughkeepsie, NY 12601

SAMPLE NUMBER	TIME (LMG)	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP02-01	950	0'-1'	0-8" very fine gravel, f-c sand,		no
TP02-02	955	1'-3'	lt. gray, little silt, trace organics		no
		-	8"-1' brown fine sand, little silt		
		-	1'-3.5' lt. brown silt, trace vf sand,		
		-	trace gravel		
		-	3.5'-7.5' silt, mostly dense, trace		
		-	gravel, moist.		
		-	7.5-18' blue/gray clay, mod. dense,		
		-	moist.		
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	4'W x 15'L
TOTAL DEPTH	18'
DEPTH TO BEDROCK	X
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	~ 6' bgs
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: (LMG)

* limit of excavator = 18'. ~~No GW to this point.~~
* 4-5' bgs: spotty trace organics, thin layer of f-m sand.
* GW seeping out @ ~ 5.5-6' bgs, and out of clay very slowly.

Test Pit # TP- 03

Location: N corner of building, at end of rock retaining wall

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16/2005
Time:	10:40 AM
Sample Prefix:	TP03-
Logged By:	LMG

Contractor:	HHR Construction
Operator:	
Backfill:	Native Material

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SAMPLE NUMBER	TIME (LMG)	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING (PID)
TP03-01	10:45	0 - 1	0-1' organics, brown silt, roots,		85.5
		-	f-m sand, trace gravel		
		-	1'-2' silt, fine sand, same as 0-1'		
		-	2'-2.5' stained gray, some dark,		
		-	some light, some olive silt.		
		-	2.5'-3' silt, lt. brown, mod-very		
		-	dense, moist-wet.		
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	3'W x 7'L
TOTAL DEPTH	4'
DEPTH TO BEDROCK	X
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	3' bgs
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:
* E. end of pit (by wall) is fill gravel, 2"- 3 or 4'.
* MODERATE ODOR 3-4' bgs
* obvious petroleum-stained soil @ 2.5' bgs
* obvious lt-mod. sheen on GW.

Test Pit # TP04-

Location: center of field, N of bldg

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16
Time:	1055 AM
Sample Prefix:	TP04-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes - orig. soil

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP04-01	1100	1 - 3	0-1 brown silt, f-m sand, organics vf fine gravel		X
↑		-	1 - 2.5 vf-f silt, vf-f sand		
concentrated on stained soil		-	2.5 - 3.5 - stained gray silt, vf-f sand		
		-	3.5 - brown silt		
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 7' L x 4.5'
TOTAL DEPTH	
DEPTH TO BEDROCK	X
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	X
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

Test Pit # TP05

Location: ½ way between TP01 & TP04

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16
Time:	11:15
Sample Prefix:	TP05 -
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP05-01	11:15	0 - 4	OH organics, brown silt, f-m sand, trace gravel		X
		-	1 - 3½' - fill likely, brick, wood, trace. gravel, brown silt @ ~2'		
		-	3½ - 6' → brown silt moist / wet but not free GW ~5' bgs		
		-			
		-			
		-	surface		
		-	top 1-3" = organics, roots		
		-	2" - 6" = lt gray f-m sand, fine gravel (angular → fill) some roots		
		-			
		-			
		-	*w/m silt: @ ~3½-4' bgs:		
		-	trace boulders (2-3' dia), coarse sand.		

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½'W x 8'L
TOTAL DEPTH	~ 6 - 6½'
DEPTH TO BEDROCK	x
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	~ 5'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

*brick observed in one spot - not all over

Test Pit # TP06

Location: Southwest corner of pond along tree line

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16
Time:	~~1040~~ 1130
Sample Prefix:	TP06 –
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP06-01	1140	2-4	0-6" ~~gravel~~, f-m sand, trace gravel, organics, roots to ~8-10", dry		X
		/ -	6"-(3½-4'): vf-f sand (brown), trace gravel		
		-			
		-	~4'-4½' – stained gray silt, moist	⇒	yes → nothing
		-	4½-6' – brown silt, moist/wet		
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 8' L
TOTAL DEPTH	6'
DEPTH TO BEDROCK	X
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	X
WERE PHOTOS TAKEN?	NO
METHOD OF SAMPLE COLLECTION	GRAB

TEST PIT SKETCH:

COMMENTS:

Test Pit # TP07

Location: South of TP06 along wall & tree line

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16
Time:	12:50
Sample Prefix:	TP07-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP07-01	12:10	0 - 4	0 - 8" organics, very dry lt brown/gray f-m sand		no
TP07-02	12:15	4 - 6	8" - 2½' f-uf sand, some gravel, trace organics, dry		
		-			
		-	2½' - 4' uf - f sand, little silt, moist, brown - dark brown		
		-	4' - 5': med-gray stained silt, moist		
		-			
		-	5' - 13' brown silt, moist (not wet)		↓
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½ W x 6' L
TOTAL DEPTH	13 ft
DEPTH TO BEDROCK	x
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	x
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* attempt to hit GW on this pit → no hit

Test Pit # TP-08

Location: by entrance

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16
Time:	1120
Sample Prefix:	
Logged By:	

Contractor:	
Operator:	
Backfill:	y

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP08-01	1125	0 - 2	0-8" lt brown f-m sand, organics, roots, begin shale		no
		-	8" - 3' shale, f-m sand, ltl s/l.		|
		-	~3-3.5' - shale layer		|
		-	↓ can't dig further		↓
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 8' L
TOTAL DEPTH	~3.5'
DEPTH TO BEDROCK	3.5' (shale)
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	not encountered
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

refusal @ 3.5'

Test Pit # TP09

Location: adj to conc pad

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	
Time:	
Sample Prefix:	
Logged By:	

Contractor:	
Operator:	
Backfill:	

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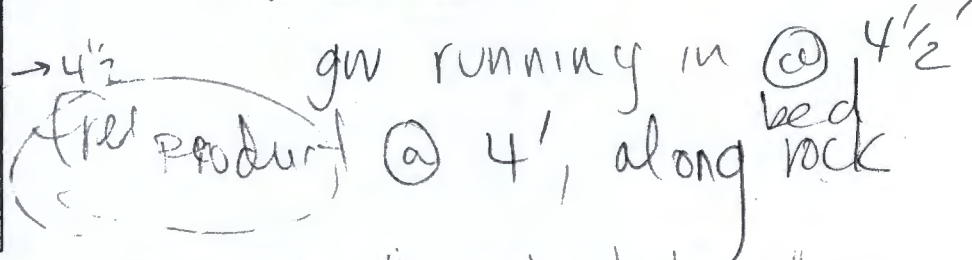
SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP09-01	1345	4-4½	0-4' org as usual, brown m-c sand		no
TP09-02	1350	1½-4½			↓
		-	1-2 m-f sand some silt, shale piece		
		-			
		-	2-4½ shale pieces in f-m sand		
		-			↓
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	
TOTAL DEPTH	4.5
DEPTH TO BEDROCK	sloping 3½ → 4½
DEPTH TO MOTTLING	
DEPTH TO ROOTS	X
DEPTH TO WATER	4½
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:



COMMENTS:

strong smell; oil sludge sitting along bedrock
rock stained @ ~ 2 bgs

4½' bgs

Test Pit # TP-10

Location: across access rd from 08309

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16
Time:	2pm
Sample Prefix:	TP10-
Logged By:	CMG

Contractor:	
Operator:	
Backfill:	~~yes~~

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP10-01	2:10	3-5	0-8" lt brown/gray f-m-c sand, some gravel (~~topsoil/fill~~)		
		-	some organics / roots,		
		-	8"-3½' brown vf-f sand, some		
		-	silt, roots down to 3½',		
		-	3½'-4' dark brown (=red brown)		
		-	silt layer - possible slight		
		-	staining - moist/dry		
		-	4'-8' - med. brown silt,		
		-	fine-vf sand		
		-			
		-	*refusal @ 8', GW @ 8'		
		-	↳ running along bedrock		

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 8' L
TOTAL DEPTH	8'
DEPTH TO BEDROCK	8'
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	8'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: * goal - to define extents of contamination @ TP10

* no apparent odor or visible product

11

Test Pit # TP - ~~2~~

Location: SW side of access rd; @ end of debris piles

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16
Time:	2:20
Sample Prefix:	TP11 -
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP11-01	2:30	4'-5'	0-3", ~~M~~ coarse sand, mostly organics/roots		
		-	3"-1' m-c sand, ~~some~~ most gravel, dry,		
		-	1'-3½/4' thin ~~blade~~, gravel, all fill		
		-	trace vf-f sand		
		-	4'-5' vf-f sand, silt,		
		-	~~org~~ roots, dark		
		-	brown		
		-	5'-~~7½'~~ lt. brown silt, most		
		-	not wet		
		-	no gw visible 7½'		
		-	refusal/bedrock @ ~~8~~		
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 8' L
TOTAL DEPTH	~~8~~ 7½'
DEPTH TO BEDROCK	7½'
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	moist, not wet @ 7½'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: some metals burned @ ~4' (under rock)

Test Pit # TP-12

Location: through pavement pad at South side of property

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/16/06
Time:	245
Sample Prefix:	TP12-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from	DEPTH to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP12-01	255	1	3	0-2" blacktop 2-6" organics, roots, u-c sand, 6" - 3' gravel, shale, rock, trace coarse sand DRY * rock layer is fill up to 3' (brick, large rocks...) refusal @ 3½' → shale layer (bedrock?)		
		-				
		-				
		-				
		-				
		-				
		-				
		-				
		-				
		-				
		-				
		-				

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 5' L
TOTAL DEPTH	3½'
DEPTH TO BEDROCK	3½' (?)
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	N/A
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: * test pit dug right through the pavement pad

Test Pit # TP B

Location: _____

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	
Time:	
Sample Prefix:	
Logged By:	

Contractor:	
Operator:	
Backfill:	YES

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP B -S1	320	2 - 4	0-6" m-c sand, organics, roots		no
		-	6"-7" blacktop layer		
		-	7" - 2½' fine sand gravel (rounded) trace roots		
		-	2½ - 3½ : f-m sand, Mostly gravel (round) roots.		
		-	3½ ~~$~~ brick layer*		
		-	3½ -4 dark ~~:~~ ~~:~~ stained soil		
		-	4-5 lt brown & brown mottled silt.		↓
		-	f - vf sand.		

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½'x8'
TOTAL DEPTH	4'
DEPTH TO BEDROCK	4'
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	no.
WERE PHOTOS TAKEN?	
METHOD OF SAMPLE COLLECTION	

TEST PIT SKETCH:

blacktop layer @ 6" bgs

Pipe @ 2½'

* dry well, with dark brown/black shale (junk in-fill)

COMMENTS:

Test Pit # TP-14

Location: S corner of property

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	820 AM
Sample Prefix:	TP14-
Logged By:	LMG

Contractor:	HHR Construction
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP14-01	840	4 - 5	0-8" organics/roots f-c sand, some gravel-angular, dry		NO
		-	8" - 3½' m-f sand, flat angular gravel, trace brick (likely fill) dry		
		-	3½' - 9½' med. dense lt. brown silt,		
		-	mf-f sand, moist		
		-			
		-	~~* No GW Seen~~		
		-			
		-	* gw slowly trickled in after leaving hole at rest for 5 min.		
		-			
		-			
		-	* NO APPARANT ODOR OR STAINING *		

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 8' L
TOTAL DEPTH	9.5'
DEPTH TO BEDROCK	9.5'
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	~~None Seen~~ 9'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	Grab

TEST PIT SKETCH:

COMMENTS: 1st pit on 6/17

Test Pit # TP15
Location: center of S. PL along Rte 44

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	900
Sample Prefix:	TP15 -
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP15-01	910	3 - 5	0-1' blacktop surface 1-4" dark gray small stones ~~trace~~ some organics/roots		
		-	4" - 1' med. gray shale layer, trace coarse sand, moist		
		-			
		-			
		-	1' - 3' fill material: some brick, some m-c sand, trace roots, moist		
		-			
		-			
		-	3-4' dk gray/blue clay layer		
		-			
		-	4' - 9' - med brown silt, very dense, wet		
		-	- gw trickling in		
		-	9' refusal		

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 10' L
TOTAL DEPTH	9'
DEPTH TO BEDROCK	9'
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	8½'
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	gwb

TEST PIT SKETCH:

COMMENTS: * pit was dug along

Test Pit # TP-16(a & b) → adjacent to pit a
Location: ↳ sewer line @ 4'

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	9:25
Sample Prefix:	TP16-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes TP16b not yet TP16a

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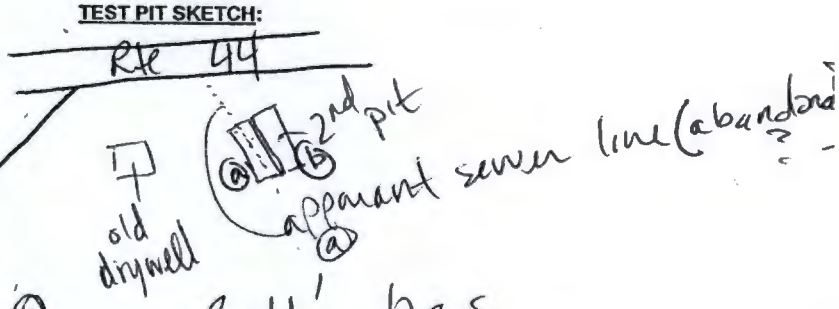
SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP16b-01	9:45	5 - 10	0 - 6" organics, dark brown/gray f-c sand, dry, trace gravel		no
		-	6" - 4': f-m sand, little silt, dry, med. brown, trace roots, little gravel		
TP16a-01 → at theft tag		1 - 4			
TP16a-02 → around pipe		4'			
		-			
		-	4-8 - smeared blue/gray clay layer (likely 2½-3' thick).		
		-			
		-			
		-	8'-10': lt brown silt.		
		-	* GW @ 8½'		
		-			

LMG 9:30 9:35

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 10' L
TOTAL DEPTH	10 not reached
DEPTH TO BEDROCK	
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	~8½'
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:



COMMENTS:
* apparent odor @ ~ 3-4' bgs
* @ 4' - hit an apparent plastic sewer line (to service this property only), running perpendicular to Rte 44. Continued to dig adjacent to pipe b/c of petrol. odor.
* Sewer line definitely not in service currently.
* Filled in TP16(b), left TP16(a) open so Frank

Test Pit # TP-17
Location: ~ 30-35' North of TP16

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	10:10
Sample Prefix:	TP17-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP17-01	10:20	0 - 10	0-4" - dk brown/gray sand, trace gravel (round), dry, organics/roots.		
TP17-02	10:25	3-5	4" - 2' f-m sand, lt brown/gray, some gravel (angular), some bricks → fill, trace roots, dry/moist.		
		-			
		-			
		-			
		-	2 - 6 or 7' = stained f-m sand, trace gravel, little silt. (dk. brown/gray) moist		
		-			
		-			
		-	7' - 10'8" - lt brown silt, wet		
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	10'8" x 2½' W x 12' L
TOTAL DEPTH	10'8"
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	~10
WERE PHOTOS TAKEN?	yes (3)
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:
* STRONG gasoline odor 2 ft bgs.

Test Pit # TP 18
Location: between wellfldg & TP 14, ads. to stump debris & pile.

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	10:50
Sample Prefix:	TP16-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP18-01	10:00 (LMG)	4 - 5	0 - 1" pavement 1 - 4" organics, dark brown, some gravel		no
		-	4" - 2' - brick, roots, mod. brown f - m sand, (bricks are whole & crushed)		
		-	2' - 3' stained f - m sand, unknown cause of stain		
		-	3' - 10½' lt. brown silt.		
		-			
		-	GW @ 8½'		
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x ½' L
TOTAL DEPTH	10½'
DEPTH TO BEDROCK	X
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	8½
WERE PHOTOS TAKEN?	yes (one)
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:
- no apparent odor
- stained layer had no odor

Test Pit # TP 19

Location: NW (down accessrd) of Rte 44 &.

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	11:20
Sample Prefix:	TP19 –
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP19-01	11:20	0-2	0-8" dk brown m-c sand organics, roots, trace gravel (rnd)		no
TP19-02 (duplicate)	11:20	0-2	8" - 2' same dk brown med. sand, some shale, trace bricks, trace roots		
		-	2' - 5.5' lt brown silt.		
		-	@ 5.5': blk shale ("rotten")		
		-	refusal @ 5.5'		
		-	no gw seen		
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' WX, 10' L
TOTAL DEPTH	5.5'
DEPTH TO BEDROCK	5.5'
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	none
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: possible slight no odor, ~~no~~ staining

Test Pit # TP-20

Location: across rd. from TP13; in pathway through trees.

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	11:45
Sample Prefix:	TP20 –
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME (LMG)	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP20-01	1150	3½ - 4½	0-1' dk brown m-c sand, trace brick, trace gravel, some roots, mostly organics		
		-			
		-	1 - 4½' lt. brown silt.		
		-	@ 4½' - black shale.		
		-			
		-			
		-			
		-			
		-	refusal @ 4.5' - bedrock		
		-			
		-	no GW visible		
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	
TOTAL DEPTH	4½'
DEPTH TO BEDROCK	4½'
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	x
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

Test Pit # TP-21

Location: S. side of concrete pad.

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	1:40
Sample Prefix:	TP21-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP21-01	1:45	6 - 6½	0 - 4" dk brn m-c sand, organics/roots, trace gravel, dry		
TP21-02	1:50	3 - 4	4" - 2½' dark brown, trace gravel, roots (some), dry		
		-	2½ - 3 brick + crushed brick - dry		
		-	3-4 dk brown vf-f sand, little silt, apzeos stained, moist/dry		
		-	4 - 6½ lt brown silt, wet/mst		
		-	fw @ ~ 5½'		
		-			
		-	refusal @ 6½' - bedrock		
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x ~ 12' L
TOTAL DEPTH	6.5'
DEPTH TO BEDROCK	6.5' (sloped - S. side is ~ 5')
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	5.5'
WERE PHOTOS TAKEN?	yes (2)
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* no odor, ~ 100 ft NE of contaminated TP09

Test Pit # TP22
Location: ~~S.~~ of access rd; ~50' N of TP09

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	2:10
Sample Prefix:	TP22 –
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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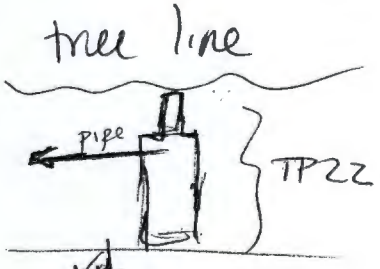
SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP22-01	2[15]	8"-9	0-6" organics/roots, m-c sand, some gravel		no PID:
		–			
		–	6"-2 to 3' f-m sand, trace roots, debris (all sorts of construction debris).		
		–			
		–	3-5' dark brown/gray stained f-m sand, trace of debris, 3 brick		
		–	5-9 - petroleum soaked soil		
		–			
		–			
		–			
		–			
		–			
		–			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	
TOTAL DEPTH	9'
DEPTH TO BEDROCK	9'
DEPTH TO MOTTLING	
DEPTH TO ROOTS	
DEPTH TO WATER	~5'
WERE PHOTOS TAKEN?	yes-many
METHOD OF SAMPLE COLLECTION	

TEST PIT SKETCH:



* strong odor.
* obvious petrol. sludge

COMMENTS: * corrugated steel pipe ~ 3' bgs, apparently lined w/ bricks, dump area around it.
* dug around pipe, TP23 will try to find it closer to Love Rd.
*

Test Pit # TP23

Location: ~~(e)~~ between TP22 & TP09

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/17
Time:	3:15
Sample Prefix:	TP23-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
none.		-	0-4" f-m-c sand, trace gravel, organics, roots, dry, dark brown		no
		-			
		-	4" - 3' lt brown f-m sand little shale, dry, trace roots		
		-	3' - 3.5' brick layer - crushed + whole		
		-	3.5' - 4' med. brown ~~f-med~~ vf-fine sand, trace roots, little ~~xs~~ gravel, little boulders		↓
		-			
		-			
		-			
		-	4' - 6' - petroleum impacted soil, olive green, wet		
		-			
		-	6' - 7' lt. brown silt		
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W X 2.5' L
TOTAL DEPTH	~~8~~ 7'
DEPTH TO BEDROCK	~~8~~ 7'
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	~~dry~~ 5'
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	N/A

TEST PIT SKETCH:

* pipe may have been a short (< 10') overflow pipe for a drywell or septic?

* no pipe as seen in TP22
* same appearance as TP22 - no sample
* obvious petroleum impacts 4-6' bgs.

COMMENTS:

F:\PAD\ADFLDOPS\FLDOPS\DataSheets\testpitFDS.xls

Test Pit # TP24

Location: _____

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/20
Time:	8:45 AM
Sample Prefix:	TP24-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP2401	900	8 - 9'	0-2" organics, coarse sand, mostly shale gravel, very dry		no
		-	2'-3' coarse sand, mostly shale, very dry		
		-	3'-4' broken brick fill, m-c sand slightly moist		
		-	4'-5' dk brown/gray m-f sand, mod. moist		
		-	5'-9' lt. brown silt		
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' WX 10' L
TOTAL DEPTH	9'
DEPTH TO BEDROCK	x
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	7½'
DEPTH TO WATER	no
WERE PHOTOS TAKEN?	grab
METHOD OF SAMPLE COLLECTION	

TEST PIT SKETCH:

COMMENTS: * no apparent odor or staining

Test Pit # TP25

Location: along access rd between TP 23 & 24

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/20
Time:	9 [illegible]
Sample Prefix:	TP25-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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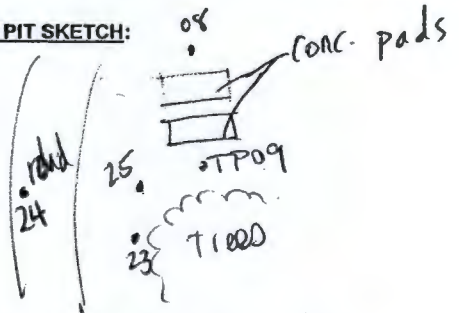
SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP25-01	9[illegible]	5½ - 6½	0-8" organics, roots, some gravel, m-c sand; dry		no
		-	8"-2' m-f sand, some gravel/ shale, slightly moist.		
		-	2'-3' - brick fill layer,		
		-	m-f sand, slightly moist, possibly some ash.		
		-	3'-4' dark brown/gray vf-f sand little silt, mod. moist		
		-	4'-6½' - lt→med brown silt, wet, ~~[illegible]~~ staining.		
		-	GW @ 5½' bgs,		
		-	refusal @ 6½' bgs		
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' x 10'L
TOTAL DEPTH	6.5'
DEPTH TO BEDROCK	6.5'
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	5.5'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:



COMMENTS:

* slight odor near bottom of pit

Test Pit # TP26

Location: SW side of access rd, ads. to TP 21, 22, 24.

Project Name:	2 Love Road
Project Number:	20040761.A1N
Date:	6/20
Time:	9:35
Sample Prefix:	N/A
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	no

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
N/A	—	—	0-6" organics/roots, m-c sand, trace gravel, dry		N/A
		-	6"-2.5' m-f sand, mostly shale, trace gravel, dry to slightly moist, trace brick		
		-			
		-			
		-	refusal @ 2-3'		
		-	no GW.		
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	
TOTAL DEPTH	2-3' (slope)
DEPTH TO BEDROCK	2-3' (slope)
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	none
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	N/A

TEST PIT SKETCH:

COMMENTS: no odor.

Test Pit # TP 27

Location: along wall near Rt 44, between wall 3, TP17

Project Name:	2 Love Rd
Project Number:	20040761.A1N
Date:	6/20
Time:	9:45
Sample Prefix:	TP27
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP27-01	955	3 - 3½	0-6" organics, roots, m-c sand, dk. brown, dry to slightly moist		no
TP27-02	1000	(10½)	6" - 3' m-f sand, med-dark brown, trace roots.		
		-	3-4' dk brown vf-f sand, little silt, staining		
		-	4 - 10½' lt brown silt, mod. moist to wet.		
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	
TOTAL DEPTH	10½
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	9½-10'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: x strong odor

Test Pit # TP 28

Location: @ end of tree line near TP17

Project Name:	2 Love Rd
Project Number:	7.0064.076.1.AIN
Date:	6/20
Time:	10:10
Sample Prefix:	TP-28-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP28-01	915	1 - 4	0-8" organics/roots, m-c sand, med. brown, dry, trace gravel		no
TP28-02	920	9.5'	8" - 2' trace organics, m-f sand, some silt.		no
		-	2' - 9.5' - lt. brown silt; mod. moist → wet.		
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2'/2'W x
TOTAL DEPTH	9.5'
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	8.5'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* strong/moderate odor @ bottom of pit.

Test Pit # TP-29

Location: NW of TP28; on other side of wall/tree line from TP20

Project Name:	2 Love Road
Project Number:	20040761. AIN
Date:	6/20/05
Time:	10:30 AM
Sample Prefix:	TP29-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP29-01	10:40	9'	0-2" pavement, trace organics, dry		no
TP29-02	10:45	0-1	2"-1' trace organics/roots, trace brick. m-f sand, silty, moist		no
		-	1'-2' some brick, m-f sand, slightly moist		
		-	2'-7' lt. brown silt, mod. moist		
		-			
		-	7-9' lt. brown silt, wet.		
		-			
		-	* GW @ ~7'		
		-	* no refusal		
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	2½' W x 10' L
TOTAL DEPTH	9'
DEPTH TO BEDROCK	9' >9'
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	7'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: * no apparant odor, no apparant staining

Test Pit # TP 30

Location: corner of bldg/wall, adj. to TP29

Project Name:	2 Love Rd
Project Number:	20040761.A1N
Date:	6/20/05
Time:	12:45 PM
Sample Prefix:	TP30-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION (C-M)	USCS CODE	FIELD TESTING
TP30-01	12:55	9.5'	0-6" dk brown/gray ~~soil~~ sand, mostly organics/roots.		no
TP30-02	1:00	3-4'	6" - 3' dk brown f-m sand,		no
		-	trace organics, little		
		-	blue clay.		
		-	3' - 5' some blue clay, little vf-f sand, little silt, staining		
		-	5' - 9.5' lt. brown silt, mod.		
		-	moist → wet @ bottom		
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	x
DIMENSIONS OF PIT:	
TOTAL DEPTH	9.5'
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	8.5'
WERE PHOTOS TAKEN?	yes (4)
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* ~~very~~ (LMG) slight odor - not strong

Test Pit # TP 31

Location: N of TP 29; along wall headed for contamination @ entran

Project Name:	2 Love Road
Project Number:	20041761. A1N
Date:	6/20/05
Time:	10:55 AM
Sample Prefix:	TP31-0X
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP31-01	1105	4 - 7	0-4" organics, M-C sand, dark brown, trace gravel, dry		no
		-	4" - 2' slightly moist, m-f sand, little silt, trace brick, trace roots		
		-	2' - 4' little f-m sand, some silt, some staining		
		-	4' - 7' some gray/blue clay, little mod. H. brown silt, odor, staining, mod. moist		
		-	7' - 10.5'; wet, H. brown silt.		
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	
TOTAL DEPTH	10.5'
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	9.5'
WERE PHOTOS TAKEN?	
METHOD OF SAMPLE COLLECTION	

TEST PIT SKETCH:

COMMENTS: (LMG)

* ~~strong~~ moderate odor in blue clay. (~4-5' bgs)
* silt @ bottom - no odor

Test Pit # TP-32

Location:

Project Name:	2 Love Road
Project Number:	2004076I. AIN
Date:	6/20/05
Time:	1120
Sample Prefix:	TP32-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP32-01	1235	3 - 5	0-8" organics & mod-dk brown M-C sand, ~~tr~~ dry		no
TP32-02	1235	11'	8" - 3' little f-m sand, some silt, ~~no~~ slightly moist		no
		-	3' - 6' little lt. brown silt, some blue gray clay, mod. moist		
		-	6' - 11' lt brown silt, mod. moist → wet.		
		-			
		-	* no refusal w/c bedrock		
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½'W x 12'L
TOTAL DEPTH	11
DEPTH TO BEDROCK	* ? ~~>11'~~
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	~ 11'
WERE PHOTOS TAKEN?	yes (2)
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: *Attempt to define contamination seen in TP's 31, 22, 23, 09.

* No apparent odor or staining

Test Pit # TP 33

Location: N of concrete pads, inbetween them, near wall.

Project Name:	2 Love Rd
Project Number:	20040761.A1N
Date:	6/20/05
Time:	1145 AM
Sample Prefix:	TP33-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yo

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP33-01	1150	0-1	0-1 dk brown m-c sand, organics/ roots, trace gravel, dry		no
TP33-02	1150	8'	1-3 med brown vf-f sand, some silt (lt. brown), trace brick & boulders by wall; moist		no
		-			
		-	3-8' lt brown, mod. moist to wet @ bottom.		
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	2½'W x 10'L
TOTAL DEPTH	8'
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	5.5-6'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* no apparent odor or staining

* contamination plume apparently ends somewhere underneath the concrete pads.

Test Pit # TP 34

Location: ~~pkg lot~~ across love rd - back corner.

Project Name:	2 love rd.
Project Number:	20040761. ATM
Date:	6/20
Time:	1:15
Sample Prefix:	TP34 -
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP34-01	1:20	4 - 5'	0-6" organics, med-dk. brown f-med sand, dry, trace gravel		no
		-	6" - 3.5' med brown, vf-f sand, little silt, little roots, trace gravel - slightly moist		
		-			
		-	3.5' - 8' some silt, trace vf-f sand, moist (mod.); lt. brown.		
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	
TOTAL DEPTH	8'
DEPTH TO BEDROCK	8'
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	3'
DEPTH TO WATER	none seen
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: * looks undisturbed

Test Pit # TP 35
Location: E. of TP 34, near Love rd @ E. entrance of lot.

Project Name:	2 love rd.
Project Number:	20040761. A1M
Date:	6/20
Time:	1:30
Sample Prefix:	TP35 —
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP35-01	1:35	0 - 1	0-8" organics, lt brown/gray f-M-C sand, some gravel		no
TP35-02	1:40	4 - 7	8"-3' some red. brown, m-f sand, some gravel/boulders (angular), little silt.		
		-	~~3'-6'~~ 3'-6' ~~some~~ dark brown, vf-f sand, little gray clay, some ang. gravel & boulders. odor.		str. odor
		-	6'-8.5' blk-brown/black (little) silt, some coarse sand, most pebbles/stones/fine gravel. odor.		→ 6'
		-	8.5' - 9.0' lt brown silt, dense.		
		-			
		-	GW @ 6.5'		
		-	didn't hit bedrock.		

APPROS. SURFACE ELE. (FT-MSL)	x
DIMENSIONS OF PIT:	2'W x 10'L
TOTAL DEPTH	9'
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	6.5'
WERE PHOTOS TAKEN?	yes (3-4)
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* moderate odor of petroleum/creosote
* one railroad tie under surface ~2ft.
* sheen on GW pool.
* RR ties/track on other side of fence — atlas says abandoned since 70's.

Test Pit # TP36

Location:

Project Name:	2 Love rd.
Project Number:	20040761.A1N
Date:	6/20
Time:	2[00]
Sample Prefix:	TP36 –
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP36-01	2[10]	5 - 7	0-8" organics f-m sand, med. brown, ~~stg~~ dry, trace gravel (ang.)		no
		-	8" – 3.5' f-m sand, med brown, slightly moist; little gravel, loose		
		-	3.5' – 5' mod. brown f-m sand, mod. loose, moist. trace roots		
		-	5-7' gray clay, stained, slight odor trace roots		
		-	7-8' loose silt, stones/pebbles, wet, lt. brown		
		-			
		-	saturation @ 5.5'		
		-			
		-	no refusal		
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	2½' W x 12' L
TOTAL DEPTH	8'
DEPTH TO BEDROCK	.
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	5.5'
WERE PHOTOS TAKEN?	yes (3 of 4
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

* E. side has staining, W. side doesn't.
* Impacted line through pit.
* RR tie dug up.
* slight creosote odor.

COMMENTS:

F:\PAD\ADFLDOPS\FLDOPS\DataSheets\testpitFDS.xls

Test Pit # TP 37

Location: center of pkg lot field

Project Name:	2 Love rd.
Project Number:	20040761.A1N
Date:	6/20
Time:	2:20
Sample Prefix:	TP37-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP37-01	2:25	4 - 5	0-1' organics, mostly gravel (ang), lt brown/gray m-c sand, dry		no
		-	1'-3.5' f-m med. brown sand little gravel & boulders (ang.) dry → slty/moist		
		-	3.5'-8' lt to clay (blue/gray), little silt, some dk brown stained sand; a few random boulders.		
		-	@ 7½' → layer of organics		
		-			
		-			
		-	gw flowing in @ ~ 6½'.		
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	2½' W x 10' L
TOTAL DEPTH	8'
DEPTH TO BEDROCK	
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	6.5'
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	qw

TEST PIT SKETCH:

COMMENTS: * to determine extent of subsurface contamination seen in TP 35

* very strong pet./creosote odor

Test Pit # TP 38

Location:

Project Name:	2 love rd
Project Number:	20040761.A1N
Date:	6/20
Time:	2 40
Sample Prefix:	TP 38 —
Logged By:	LMB

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP38-01	2 45	4 - 7	0-6" organics/roots, lt-brn to org. gravel/boulders, ~~some m-coarse sand~~		no
		-	6" - 3.5' some m-c sand, little boulders & org. gravel, slightly moist, med. brown		
		-	3.5' - 5' med brown moist f-m sand (some) lt-brn silt, mod. loose.		
		-	5' - 6' gray clay, moist, dense		
		-	6' - 6.5' decaying root/tree		
		-	6.5' - 10' lt/med brown silt, wet, trace pebbles		
		-			
		-			
		-	no bedrock to 11'		
		-	gw flowing @ ~8' bgs		
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	2½' WF 10' L
TOTAL DEPTH	10'
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	~8'
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* no apparent odor
* still a trace of brick throughout.

Test Pit # TP39

Location: S. entrance of lot, 6ft of gate opening (from inside).

Project Name:	2 love rd.
Project Number:	2040761. A1N
Date:	6/20
Time:	3:00
Sample Prefix:	TP39-
Logged By:	LMG

Contractor:	
Operator:	
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP39-01	3:10	6 - 7½	0-4" Organics, lt brown/gray dry m-c sand, mostly ang gravel		
		-	4"-2.5' little vf-f sand, little silt (med brown), little ang. gravel		
		-	2.5'-7.5' little fine sand, little clay, dk brown/gray, mod. dense. possible staining.		
		-			
		-	no bedrock hit		
		-	GW flowing (med-high rate)		
		-	into Pit @ ~5½' bgs.		
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	2½'W x 10'L
TOTAL DEPTH	7.5'
DEPTH TO BEDROCK	
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	~5½'
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* stones found in first couple feet are large dia gravel → like along RR tracks
* moderate creosote odor → looks same as TP35 but less staining
* RR ties (2) visible/dug up.

Test Pit # TP 40
Location: upper lot - empty, downslope side by love rd

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/2/2005
Time:	8:25
Sample Prefix:	TP40 —
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
none	—	—	natural undisturbed soil/roots		no
		-			
		-	* stopped when we		
		-	hit the old septic		
		-	system - mostly		
		-	filled in by now.		
		-	* other than septic tank,		
		-	no fill material or		
		-	non-natural soils.		
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	4'W x 10'L
TOTAL DEPTH	~7'
DEPTH TO BEDROCK	?
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	x
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	N/A

TEST PIT SKETCH:

COMMENTS: ~~* crushed someone's~~ (LMG)

* smelled like sewer → but no line hit. Old septic system for demolished buildings.

Test Pit # TP-41

Location: NE corner of lot, near Rte 44 (~70' away)

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/2/2005
Time:	8:40
Sample Prefix:	TP41-
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP41-01	8:50	3 - 6 bgs	0-1.5' some m-c sand, some crushed brick, other fill material (little ash & coal)		no
TP41-02	9:00	0 - 1 surface	1'-10' med. brown f-m sand (some), little silt, some boulders.		
		-	* sewer pipe @ 5' bgs		
		-	* refusal @ 10' → bedrock		
		-			
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	4'W x 15'L
TOTAL DEPTH	10'
DEPTH TO BEDROCK	10'
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	not able to tell → water running from sewer pipe @ 5' bgs
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

* soil seems clean → looks natural below ~2'.

COMMENTS:

* hit pipe that went to septic; kept digging below it. sewage ran out but a clean sample was taken
* pipe stopped draining after ~ 10 minutes.

Test Pit # TP42

Location: adj - to love rd in upper lot, center of lot,

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/2/2005
Time:	9:20
Sample Prefix:	TP42-
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP42-01	920	4 - 6	0-1 some m-c sand, little rounded gravel and boulders. Trace roots. Med. brown		NG
		-	1-2 broken brick, little f-m sand, some silt.		
		-	2-3 dark brown/black, little ash, trace silt, little f-m sand		
		-	~~3-12'~~		
		-	3-6' lt brown/olive clay little silt trace boulders		
		-	6-12' lt brown silt.		
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	3'W x 12'L
TOTAL DEPTH	12.5
DEPTH TO BEDROCK	12.5
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	~~none~~ ~7'
WERE PHOTOS TAKEN?	yes (2)
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

- no apparent odor
- fill is mostly brick, rock, ash

Test Pit # TP43

Location: corner of demolished bldg, above TP03

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/2/2005
Time:	945
Sample Prefix:	TP43
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP43-01	955	11 - 11.5	0-4" - concrete pad w/ rebar		NO
~~X~~		-	4" - 3' some m-c sand, trace aug. gravel dry, med. brown		
		-	3' - 8' vf-f sand (little), some clay, possible staining, med-dk. brown moist.		
		-			
		-	8' - 11.5' = little silt, some gray/olive clay, odor (petrol.); very moist		
		-			
		-	* no refusal		
		-	* no visible GW		
		-			
		-			
		-	⊛ wall of building to get to field is ~ 8' (not including some backfill)		
		-			

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	3'W x 10'L
TOTAL DEPTH	11.5'
DEPTH TO BEDROCK	x
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	x
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* strong petroleum odor @ ~8' bgs. in olive/gray clay area.

Test Pit # TP 44

Location: Center of upper bldg area, through pavement (next to conc. pads used to fill trucks)

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/2/2005
Time:	10:10
Sample Prefix:	TP44-
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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SAMPLE NUMBER	TIME (LMG 10)	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP44-01	9:30	10.5	0-3" pavement, unbroken.		no
TP44-02	9:35	0-2	3" - 1' packed stone/shale (Flat angular). dk. gray, dry.		no
	(LMG)	-	1' - 1.5' black, possible ash/coal fill layer, likely staining	} OLD PAVEMENT!	
		-	1.5' - 4' some flat/ang. gravel, shale, trace coarse sand, dk brown → gray.		
		-	4' - 10.5' med. brown,		
		-	little vf - f sand, some		
		-	silt.		
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	x
DIMENSIONS OF PIT:	~~x~~ 3 W x 10' L
TOTAL DEPTH	10.5'
DEPTH TO BEDROCK	1.
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	none seen
WERE PHOTOS TAKEN?	yes (2)
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: Slight odor @ ~ 7-8' bgs

Test Pit # TP45

Location: along rt. 44, adjacent to foundation

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/21/2005
Time:	10:40
Sample Prefix:	TP45 —
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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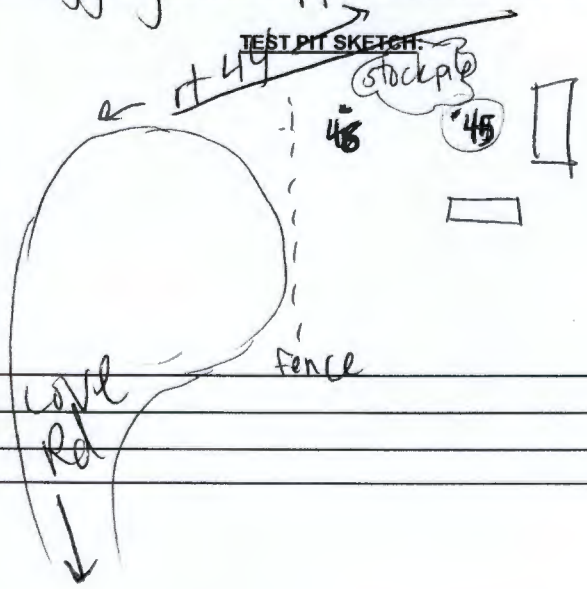
SAMPLE NUMBER	TIME	DEPTH from -- to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
N/A		-	0-4" black top 4"-2' fill		
		-	* a pipeline & UST was		
		-	hit @ 3' below ground		
		-	surface. No tank		
		-	rupture. ~~Tan~~ fill pipes		
		-	were open (we covered		
		-	them to prevent rain infiltration).		
		-	.		
		-	* Surrounding soil/fill had a		
		-	very strong odor. No sample		
		-	because of obvious contamination.		
		-	* digging ~~&~~ stopped @ 3' due to tank.		

APPROS. SURFACE ELE. (FT-MSL)	
DIMENSIONS OF PIT:	3'W x 7'L
TOTAL DEPTH	3'
DEPTH TO BEDROCK	x
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	x
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	N/A

TEST PIT SKETCH:



COMMENTS:

Test Pit # TP46
Location: adjacent to TP45, adj. to Love Rd dead end

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/2/2005
Time:	10:50
Sample Prefix:	TP46-
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP46-01	10:50	10'	0-1.5' pavement, packed stone, more pavement, dry, some stained.		NO
		-			
		-	1.5'-5' lt brown silt, trace clay, no apparent staining, dry		
		-			
		-	5'-10' some gray/olive little lt brown silty, slightly moist.		
		-			
		-			
		-			
		-			
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	3W, x 10L
TOTAL DEPTH	10'
DEPTH TO BEDROCK	X
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	X
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* can't move further south b/c of utilities along Rte 44.
* slight odor → not as strong as TP 45 or 44

Test Pit # TP47

Location: outside of fence next to upper building area, next to circle.

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/2/2005
Time:	11:15
Sample Prefix:	TP47 —
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP47-01	11:20	3 - 5	0-6" - lt brown/gray m-c sand, organics/roots, some ang. gravel		no
TP47-02	11:25	8 - 9			no
TP47-03 (DUP)	11:25	8 - 9	6" – 2' some f-m sand, mostly small gravel		no
		-	2'-3' dk brown/black. f-m sand, little silt, some blacktop. - staining?		
		-	3'-9' some, lt brown silt, some gray/olive clay.		
		-			
		-	* no bedrock hit.		
		-	* no visible GW		
		-	* very slight petroleum smell.		
		-			
		-			
		-			

APPROS. SURFACE ELE. (FT-MSL)	X
DIMENSIONS OF PIT:	3'W x 12'L
TOTAL DEPTH	9'
DEPTH TO BEDROCK	X
DEPTH TO MOTTLING	X
DEPTH TO ROOTS	X
DEPTH TO WATER	X
WERE PHOTOS TAKEN?	yes
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS:

* Generally – same as TP 46, 44 but less staining
* very slight odor, much less than TP 46, 44.

Test Pit # TP 48
Location: ~~between~~ concrete pads near access rd. on W. entrance.

Project Name:	2 Love road
Project Number:	20040761.A2N
Date:	6/2/2005
Time:	~~12:45~~ 11:45
Sample Prefix:	TP48-
Logged By:	LMG

Contractor:	
Operator:	Carl
Backfill:	yes

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Consulting Engineers
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SAMPLE NUMBER	TIME	DEPTH from – to	SOIL DESCRIPTION	USCS CODE	FIELD TESTING
TP48-01	12:00	6-7'	0-6" mostly organics, little m-c sand, lt brown/gray, dry		no
		-	6"-3' some ang gravel, little f-m sand, little silt, dry, lt brown/gray		
		-	3'-5' lt brown silt, trace boulders, possible slight odor.		
		-	5'-7' ~~little~~ some lt brown silt, little gray/olive clay, trace boulders, ~~possible~~ slight odor		
		-	refusal @ 7'		
		-			

APPROS. SURFACE ELE. (FT-MSL)	x
DIMENSIONS OF PIT:	3'W x 10'L
TOTAL DEPTH	7'
DEPTH TO BEDROCK	7'
DEPTH TO MOTTLING	x
DEPTH TO ROOTS	x
DEPTH TO WATER	
WERE PHOTOS TAKEN?	no
METHOD OF SAMPLE COLLECTION	grab

TEST PIT SKETCH:

COMMENTS: + lit gray contaminated clay @ 5' bgs. ~~SM~~.

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 1 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 01
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion:~~ 9:20 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
16'	—	—	0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	16'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 So 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 2 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 02
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 935 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
13'	—	—	0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	13'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 3 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD: —
HAMMER WT: _____ HAMMER FALL (IN) _____
BORING LOCATION: B- 03
GROUND ELEVATION: _____
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 9:40 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
7'	—	—	—	—	used to verify depth of TP-43.	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	7'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To _____	See Monitoring Well
Bentonite Grout/Chips	none.	To _____	Completion Report
Concrete/Asphalt	none.	To _____	
Other _____	none.	To _____	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 4 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 04
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time and ~~Date of Completion~~: 9:45 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
5'		—	0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	5'

PROPORTIONS USED:
TRACE 0 to 10% **SOME** 20 to 35%
Little 10 5o 20% **AND** 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 5 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 05
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 9:50 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
9.5'	—	—	0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	9.5'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: of 6/ 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 06
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 9:55 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
6.5'	—	—	0'	—		—	—	

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	6.5'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 7 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 07
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time and ~~Date of Completion~~: 10^60 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
5.5'	—	—	0'	—	behind TP-12	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	5.5'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 8 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 08
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 1005 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
3'	—		0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	3'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Viewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 9 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 09
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 1012 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
16'	—	—	0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	16'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 10 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 10
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 10'7 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
13'	—	—	0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	13'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** **PROJECT: BCP Site Investigation** **LOCATION: 2 Love Road**	**SITE ID: Redl 2 Love Road** **SHEET: 1 of 29** **PROJECT NO: 20040761.A2N**

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B-1
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time and ~~Date of Completion~~: 10^22 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
13'	—	—	0'	—		—		

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	13'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 12 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 12
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 10 32 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
12'	—	—	0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	12'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 13 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 13
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time and Date of Completion: 10^50 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
17'	—	—	0'	—	Boring on a pile of soil from prev. TP → 2' above grade → bedrock.	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	17'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 14 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B-14
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time and ~~Date of Completion:~~ 1102 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
15'	—	—	0'	—	MW-01 (temp.) installed. *boring to 12', screen from 2-12'. Casing rises 3.5' above grade.	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	15-1

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

Reviewed by Staff:

BACKFILL

Native Material	none.	To	
Bentonite Grout/Chips	none.	To	
Concrete/Asphalt	none.	To	
Other	none.	To	

* See Monitoring Well Completion Report

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 15 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 15
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 11 25

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
15'	—	—	0'	—		—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	15'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 16 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 16
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 1130 AM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
20'	—	—	0'	—	*behind TP-31	—	—	—
					* boring started 1' above grade on soil pile. Actual depth to bedrock = (19')			

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	20'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 17 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 17
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 1143 AM / 1240 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
1'	—	—	0'	—	refusal 1st try	—	—	—
13.5'	—	—	0'	—	refusal @ bedrock.	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	13.5'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 18 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 18
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 1245 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
11'	—	—	0'	—	at TP-32	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	11'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 19 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 19
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 1250 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
11'	—	—	0'	—	at TP-33		—	

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	11'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 20 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 20
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 1 00 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
3'		—	0'	—	1st try	—		
6.5'		—	0'	—	2nd try → likely hit bedrock	—		

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	6.5'+

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 2 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B-21
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 107 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
3'	—	—	0'	—	center of road	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	3'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 22 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 22
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 1:12 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
23'	—	—	0'	—	building side of TP-07	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	23'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 23 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 23
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion:~~ 1120

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
26.5'	—	—	0'	—	adjacent to TP-06	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	26.5'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** **PROJECT: BCP Site Investigation** **LOCATION: 2 Love Road**	**SITE ID: Redl 2 Love Road** **SHEET: 24 of 29** **PROJECT NO: 20040761.A2N**

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 24
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 132 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
17.5'	←	←	0'	—	adjacent to TP-01	←	←	←

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	17.5'

PROPORTIONS USED:
TRACE 0 to 10% **SOME** 20 to 35%
Little 10 5o 20% **AND** 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 25 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 25
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time and ~~Date of Completion~~: 140 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
34'	—	—	0'	—	adjacent * TP-03	—	—	—
					* MW-02: installed to 12'			
					- 2-12' = screen			
					- 0-2' = casing			
					- sealed w/ bentonite pellets.			

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	34'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well Completion Report
Bentonite Grout/Chips	none.	To	
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 26 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 26
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 240 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
21'	—	—	0'	—	center of bowl	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	21'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 27 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 27
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion:~~ 250 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
3'	—	—	0'	—	adjacent to Love Road @ north entrance.	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	3'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Viewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C.
CONSULTING ENGINEERS
POUGHKEEPSIE, NY 12601

BORING LOG

PROJECT: BCP Site Investigation

LOCATION: 2 Love Road

SITE ID: Redl 2 Love Road
SHEET: 28 of 29
PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 28
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time and ~~Date of Completion:~~ 300 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
26'	—	—	0'	—	upper tier left side of Love Road.	—	—	—

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	26'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

FUSS & O'NEILL of New York, P.C. CONSULTING ENGINEERS POUGHKEEPSIE, NY 12601	**BORING LOG** PROJECT: BCP Site Investigation LOCATION: 2 Love Road	SITE ID: Redl 2 Love Road SHEET: 29 of 29 PROJECT NO: 20040761.A2N

CONTRACTOR: Fuss & O'Neill Field Services
OPERATOR: Daniel Levesque
F&O REPRESENTATIVE: Lisa Gwiazdowski
DRILLING METHOD: Direct Push (GeoProbe)
SAMPLING METHOD:
HAMMER WT: HAMMER FALL (IN)
BORING LOCATION: B- 29
GROUND ELEVATION:
DATE STARTED: 08/01/05 DATE FINISHED: 08/01/05
SAMPLE PREFIX: N/A

WATER LEVEL MEASUREMENTS

DATE	MS. PT.	WATER AT	TIME

Time ~~and Date of Completion~~: 3:17 PM

DEPTH (FT)	SAMPLE NO.	SAMPLE DEPTH (FT)	REC/ PEN	BLOWS 6"	SAMPLE DESCRIPTION	STRATA CHANGE	LITHO-LOGIC CODE	FIELD TESTING
19'	—	—	0'	—	upper tier ~20' from Rt 44 adj. to left side of Love Rd.			

BORING DIAMETER	BORING METHOD	DEPTH
2"	Direct Push	19'

PROPORTIONS USED:
TRACE 0 to 10% SOME 20 to 35%
Little 10 5o 20% AND 35 TO 50%

REMARKS
Field Instrument = None. Soil borings were actually blank probes to determine the depth to bedrock at various locations across the site.

Reviewed by Staff:

BACKFILL

Native Material	none.	To	See Monitoring Well
Bentonite Grout/Chips	none.	To	Completion Report
Concrete/Asphalt	none.	To	
Other	none.	To	

Fuss & O'Neill of New York P.C.

MONITORING WELL COMPLETION REPORT
GENERAL INFORMATION

GENERAL INFORMATION

Project Name: Redl 2 Love Road

Project Location: 2 Love Rd, Poughkeepsie, NY

F&O Engineer/Geologist: LMO, RST

Date of Completion: 8/01/05

Boring Location: SB-14 end of tree line near foundation, at TP-2

Drilling Contractor: F&O - Dan Levesque

Drilling Method: Direct Push / Geoprobe

Site ID (Boring/Well ID): SB-14/MW-01

Project No.: 20040761.A2N

Ground Surface Elevation: _____

Permit #: X

El Top of Steel Casing: X

El Top of PVC Casing: 3.6' above ground surface

Measuring Point: TPS / PVC
Well Cover (see codes): ground surface

WELL CONSTRUCTION

Well Casing/Riser
Diameter: 1" in.
Type: PVC
Stick-up: 3.6' ft.

Sump (below screen)
Diameter: 1" in.
Type: PVC
Length: _____ in.

Protective Casing
Diameter: X in. Type: X
Stick-up: X ft Depth to Bottom: X ft
Seal Material: bentonite

Screen Intervals
Screen Interval: 10' ft Diameter: 1" in. Slot Size: _____ in.
Description: (PVC) / Other: _____
Type: Perforated / (Slotted) / Wire-Wrap / Other: _____

ANNULAR FILL

Surface Seal (Approximate volumes if available)
Interval: _____ ft. Tremied: Y / (N) Volume: ~~slight~~ thin cover
Description: Concrete / Other: native material

Backfill
Interval: ~~N/A~~ 1' ft. Tremied: Y (N) Volume: 1/2 bag bags
Description: ~~Bentonite Grout~~ / Fill / Other: _____

~~Lower Seal~~
Interval: N/A ft. Tremied: Y / (N) Volume: _____ bags
Description: Bentonite / Bentonite Pellets / Grout / Other: _____

Filter
Interval: _____ ft. Tremied: Y / (N) Volume: 1 bags
Description: (Sand Filter) (type: _____) / Other: _____

Lower Backfill
Interval: _____ ft. Tremied: Y / (N) Volume: 1 bags
Description: Bentonite Grout / Fill / Other: sand

Fuss & O'Neill of New York P.C.

MONITORING WELL COMPLETION REPORT
GENERAL INFORMATION

GENERAL INFORMATION

Project Name: Redl 2 love road
Site ID (Boring/Well ID): SB-25/MW-02
Project Location: 2 Love Rd, Poughkeepsie, NY
Project No.: 20040761.A2N
F&O Engineer/Geologist: LMG
Ground Surface Elevation: x
Date of Completion: 8/01/05
Permit #: x
Boring Location: center of bowl area, SB-25
El Top of Steel Casing: x
Drilling Contractor: F30 - Dan Levesque
El Top of PVC Casing: 3.3' above grade
Drilling Method: Direct Push / Geoprobe
Measuring Point: TPS / PVC
Well Cover (see codes): ground surface

WELL CONSTRUCTION

Well Casing/Riser
Diameter: 1" in.
Type: PVC
Stick-up: 3.3 ft.

Sump (below screen)
Diameter: 1 in.
Type: PVC
Length: ____ in.

Protective Casing
Diameter: x in.
Type: x
Stick-up: x ft
Depth to Bottom: x ft
Seal Material: x

Screen Intervals
Screen Interval: x 10 ft
Diameter: 1" in.
Slot Size: ____ in.
Description: (PVC) / Other: ____
Type: Perforated / (Slotted) / Wire-Wrap / Other: ____

ANNULAR FILL

(Approximate volumes if available)

Surface Seal
Interval: 0" - 1" ft.
Tremied: Y / (N)
Volume: thin cover bags
Description: Concrete / Other: native material

Backfill
Interval: ____ ft.
Tremied: Y / (N)
Volume: ____ bags
Description: (Bentonite Grout) / Fill / Other: ____

Lower Seal
Interval: N/A ft.
Tremied: Y / N
Volume: ____ bags
Description: Bentonite / Bentonite Pellets / Grout / Other: ____

Filter
Interval: ____ ft.
Tremied: Y / (N)
Volume: ____ bags
Description: (Sand Filter (type: ____)) / Other: ____

Lower Backfill
Interval: ____ ft.
Tremied: Y / (N)
Volume: ____ bags
Description: Bentonite Grout / Fill / Other: Sand