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Draft Final Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Prepared for

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1.0 INTRODUCTION

This report presents the results of Harding Lawson Associates' (HLA) site investigation activities at Buildings 4107, 4110, and 4590 and Facility 2754 at the former site of Fort Ord (former Fort Ord), California (Plate 1). The work was performed for the U.S. Department of the Army (Army), Sacramento District Corps of Engineers (COE), in accordance with the Final Work Plan (*HLA, 1993c*) and Final Addenda to Work Plan (*HLA, 1994b, 1994e, 1995*), and pursuant to Modifications P00036, P00039, P00041, P00043, P00063, and P00067 to Contract DACA 05-85-C-0240, and Modifications P00008 and P00014 to Contract DACA05-89-C-0136.

The underground storage tank (UST) at Facility 2754 was removed in 1991 by SEMCO Environmental, Inc. (SEMCO), Modesto, California. The UST removals at Buildings 4107, 4110, and 4590 were conducted by Shewey Environmental Management Company (Shewey), Hemet, California, in 1992. Excavation associated with the HLA site investigations conducted in 1994 through 1996 was performed by Bay Area Tank and Marine Environmental Technologies (BATM), Martinez, California. These UST removals and subsequent investigations performed by HLA are summarized herein.

Petroleum hydrocarbon cleanup levels and preliminary remediation goals (PRGs) have been developed for contaminated soils at the former Fort Ord. In a letter to the Army dated June 8, 1993, the Monterey County Department of Health (MCDOH) presented cleanup levels for petroleum hydrocarbon constituents in soil at UST sites established by the California Regional Water Quality Control Board, Central Coast Region (RWQCB) and the MCDOH. The cleanup level for total petroleum hydrocarbons as gasoline (TPHg), TPH as diesel (TPHd), and TPH as motor oil (TPHmo) is 100 milligrams per kilogram (mg/kg). The cleanup levels for benzene, toluene, ethylbenzene, and total xylenes (BTEX) are 0.1, 0.3, 1, and 1 mg/kg, respectively. In addition, PRGs have been developed by HLA for chemicals detected in soil as a part of the Fort Ord Basewide Remedial Investigation/Feasibility Study (RI/FS; *HLA, 1994a*).

The purpose of HLA's work was to evaluate the extent of soil with petroleum hydrocarbon concentrations exceeding the cleanup levels identified above. The UST sites are under the regulatory jurisdiction of the MCDOH and the RWQCB. The MCDOH is the lead agency.

The work was performed in accordance with the following regulations or guidances:

- Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites (*CVRWQCB, 1990*)
- Title 22, California Code of Regulations (CCR), Social Security, Division 4, Environmental Health, Chapter 20, Hazardous Waste Permit Program
- Leaking Underground Fuel Tank (LUFT) Field Manual (*SWRCB, 1989*)
- Occupational Safety Health Administration (OSHA): Title 29, Code of Federal Regulations, Sections 1910, 1910.120, and 1926
- Title 23, CCR, Waters, Division 3, State Water Resources Control Board (SWRCB), Chapter 16, Underground Tank Regulations
- Monterey County Ordinance 3040.

HLA addressed quality assurance/quality control (QA/QC), waste management, and site health and safety during the site investigations as follows:

- QA/QC - To meet the QA/QC objectives of the investigations, HLA used the *Revision 1, Quality Assurance Project Plan (QAPP), Fort Hunter Liggett and Non-NPL Sites at Fort Ord, California*, as guidance (*HLA, 1993d*). The QAPP includes procedures for sampling, analysis, and chemical quality control activities.

- Waste Management - To address the handling of investigation-derived waste, HLA implemented the *Draft Final Waste Management Plan (WMP), Investigation-Derived Waste, Remedial Investigation/Feasibility Study, Fort Ord, California* (*HLA, 1993a*).

- Site Health and Safety - HLA conducted the site investigations in accordance with the Fort Ord site safety and health plans (SSHPs; *EA, 1991; HLA, 1991*) and the SSHP appended to the Final Addendum to Work Plan (*HLA, 1994b*).

2.0 BACKGROUND

2.1 Building 4107

The Building 4107 site is adjacent to the golf cart storage building near the parking lot for the two Fort Ord golf courses. In June 1992, the MCDOH observed Shewey remove a fuel dispenser and a 750-gallon UST (4107.1) of unknown age that had been used to store a two-cycle gasoline fuel mixture (Plate 2). The bottom of the UST was reported to be approximately 10 feet below ground surface (bgs). Three soil samples were collected, two from the excavation at 12 feet bgs and one from beneath the fuel dispenser. The samples were analyzed for TPHg and BTEX. TPHg was detected in one of the three soil samples at a concentration of 2,600 mg/kg. BTEX were also detected in this sample at concentrations of 0.25, 5.8, 8.6 and 57 mg/kg, respectively (Table 1). The soil sample containing petroleum hydrocarbons was apparently collected beneath the former fuel dispenser.

2.2 Building 4110

The Building 4110 UST site is in the maintenance yard for the golf courses, approximately 100 feet south of Building 4110. A 500-gallon UST (4110.1) installed in 1962 next to a wood shed was used to store regular leaded gasoline (Plate 3). The tank bottom was at an approximate depth of 10 feet. The UST was removed by Shewey in June 1992 under the observation of the MCDOH. Observers noted petroleum hydrocarbons in the backfill material and native soil. One soil sample was collected at a depth of 10 feet bgs and analyzed for TPHg and BTEX. TPHg was detected in this sample at a concentration of 2,900 mg/kg (Table 1). BTEX was also detected in the sample at concentrations of 1.0, 98, 69 and 460 mg/kg, respectively.

2.3 Building 4590

A 3,000-gallon diesel UST (4590.1) and product line were installed in 1954 in the front lawn of Building 4590 on 7th Avenue to fuel a standby boiler/furnace (Plate 4). The tank was removed by Shewey in July 1992, under the observation of the MCDOH. No soil samples were collected because of the unstable excavation sidewalls and the depth of the tank excavation (approximately 35 feet bgs). Field observations during tank removal indicated that the surrounding backfill material and native soil had been impacted by petroleum hydrocarbons. Analysis of two soil samples collected from undocumented depths in a proximal boring drilled prior to tank removal detected TPHd at concentrations of 21.4 and 2,750 mg/kg (Table 1). No other compounds were analyzed as part of this investigation.

2.4 Facility 2754

The site is in the Main Garrison near the 12th Street Gate. A 1,000-gallon UST (2754.1) installed in 1942 reportedly stored regular leaded gasoline for use at the vehicle maintenance shop (Building 2756; Plate 5). The UST was removed in September 1991 by SEMCO, under MCDOH observation. One soil sample was collected from the center of the tank excavation at a depth of approximately 9 feet bgs. The sample was analyzed for TPHd, TPH as kerosene (TPHk), and TPHmo. TPHmo was detected at a concentration of 240 mg/kg (Table 1). No other compounds were detected. TPHg was not analyzed as part of this investigation.

3.0 SITE INVESTIGATION

Investigation activities at USTs 4107 and 4590 were conducted in two phases and at USTs 4110 and 2754 in three phases. The phases of the investigation are described below.

3.1 Phase 1

HLA conducted an investigation to evaluate the horizontal and vertical extent of soil impacted by petroleum hydrocarbons associated with the four former USTs and associated piping. Phase 1, conducted in the fall of 1993, was designed to evaluate the horizontal and vertical extent of petroleum hydrocarbons in soil at the UST locations. HLA conducted the first phase of activities in accordance with the Final Work Plan (*HLA, 1993c*) and pursuant to Modifications P00036, P00039, P00041, and P00043 to Contract DACA05-85-C-0240.

3.1.1 Scope of Work

Phase 1 activities included:

- Excavating a total of 50 cubic yards (cy) of soil at the former UST site at Building 4107 and collecting six soil samples for chemical analysis
- Drilling and lithologic logging of seven soil borings at Building 4110 and collecting 29 soil samples from the borings for chemical analysis
- Advancing three cone penetrometer testing (CPT) probes at Building 4590.
- Performing lithologic logging and obtaining three soil samples using the CPT rig from Boring SB-4590-04 at Building 4590
- Drilling and lithologic logging of seven soil borings at Building 4590 and collecting 28 soil samples from the borings for chemical analysis
- Excavating a total of 100 cy of soil at the former UST site at Facility 2754 and collecting eight soil samples for chemical analysis
- Removing approximately 80 feet of product piping from one site (Facility 2754) and collecting two soil samples for chemical analysis
- Submitting a clearance report for UST 4590.1
- Stockpiling soil from soil borings and excavations at the Fort Ord UST soil remediation area (USRA)
- Analyzing excavation confirmation and stockpile characterization soil samples.

3.1.2 Preliminary Activities

Before intrusive activities began at each site:

- Utility clearance was obtained from the Fort Ord Directorate of Public Works (DPW)
- Subsurface utility clearance was performed by HLA at each site
- The Monterey Bay Unified Air Pollution Control District (MBUAPCD) was notified before chemically impacted soil was excavated
- The COE, MCDOH, and Fort Ord DPW, currently The Presidio of Monterey Annex (POMA) Directorate of Environmental and Natural Resources Management (DENR), were notified 48 hours before work began
- The Fort Ord Fire Department was notified.

3.1.3 Building 4107

3.1.3.1 Field Investigation

The field investigation at Building 4107 included excavating 50 cy of soil from the area of the former UST and fuel dispenser and obtaining six confirmation soil samples for chemical analysis. The excavation was performed to investigate the vertical and horizontal extent of petroleum hydrocarbons in the area of the former UST and product dispenser.

3.1.3.1.1 Soil Excavation and Confirmation Sampling

On November 1, 1993, an excavation approximately 10 feet long by 11 feet wide by 13 feet deep was dug by backhoe in the vicinity of the golf cart storage shed and wash area (Plate 2) under the supervision of an HLA field geologist. The soil was screened for organic vapors using a organic vapor monitor (OVM), and the readings and depths were recorded. Soil types, soil staining, and other relevant field conditions also were documented. Contaminated soil and clean soil were segregated on the basis of the OVM screening. Excavation continued until visual observations and OVM readings indicated nondetectable petroleum hydrocarbon levels.

Six soil samples (9344Z410701F through -06F) were collected from the excavation using a slide hammer housing one 6-inch-long stainless steel tube. The samples were collected in native soil from the floor and walls of the excavation at depths of 7 to 13 feet bgs. The slide hammer sampling tip was decontaminated between sampling events using phosphate-free detergent and clean water rinses. The sample tubes were capped with Teflon-lined plastic lids; labeled; stored in an iced, insulated container; and transported under chain of custody control to the analytical laboratory on the following day. Chain of custody records are in Appendix A. Based on OVM readings and visual observations, all 50 cy of excavated soil was transported to the 519th Motor Pool, stockpiled on an impermeable liner to contain runoff and prevent run-on of water, and covered pending biotreatment at the Fort Ord USRA. Fencing was erected around the excavation to secure the site.

3.1.3.1.2 Analytical Program

The soil samples were analyzed for TPHg, TPHd, and TPHmo, using EPA Test Method 8015 modified (8015m); BTEX using EPA Test Method 8020; total recoverable petroleum hydrocarbons (TRPH) using Standard Method (SM) 5520; and total lead using EPA Test Method 7421. The six confirmation samples were analyzed by Enseco-California Analytical Laboratory (Enseco), West Sacramento, California.

3.1.3.2 Results

3.1.3.2.1 Subsurface Conditions

The maximum depth investigated at Site 4107 was 13 feet bgs. The subsurface materials observed are typical of the dune sand deposits found throughout the area. The sand was primarily light yellowish brown, medium grained, loosely consolidated, and dry, with trace amounts of silt and clay.

At approximately 1 foot bgs, a layer of dark brown- to black-stained sand was observed that emitted an odor characteristic of motor oil. No apparent staining was observed from 1 to 4 feet bgs, although brown-stained soil observed from 4 to 13 feet bgs emitted an odor characteristic of gasoline. No groundwater was encountered in the excavation.

OVM readings from the excavation averaged 50 parts per million (ppm) organic vapors from approximately 1 to 4 feet bgs, from 100 to 500 ppm on the south and west walls at 8 feet bgs, from 400 to 500 ppm on the east wall at 8 feet bgs, and greater than 900 ppm on the north wall at 8 feet bgs. OVM readings ranged from 100 to 200 ppm in the soil sample collected at 13 feet bgs.

3.1.3.1.2 Chemical Analysis

Analytical results of all compounds detected are presented in Tables 2 and 3 and on Plate 2. A table of analytical results for all chemicals is presented in Appendix B. TPHg was detected in three samples (93442Z410702F, -03F, and -05F) at concentrations ranging from 1,800 to 4,900 mg/kg. The highest concentration was found at a depth of 10 feet in the east side of the excavation (-05F). The distribution of toluene, ethylbenzene, and xylenes is similar to that for TPHg (Plate 2); concentrations range from below reporting limits to 210 mg/kg. TRPH was found in four samples (-01F through -03F and -05F) at concentrations of 220 to 5,500 mg/kg, with the highest level found at a depth of 7 feet from the northwest side of the excavation (-02F). Unknown purgeable and extractable TPH compounds were detected in the same four samples at concentrations between 610 and 2,300 mg/kg (Table 2). No TPHd, TPHmo, or benzene was detected above the reporting limits. Lead was detected in all six samples (-01F through -06F) at concentrations of 1.7 to 6.4 mg/kg, which approximate the maximum background concentration for deep (>2 feet bgs) non-QTP (NQTP) soil of 3.7 mg/kg established by HLA (i.e., soil of local geologic formations other than the Paso Robles; [*HLA, 1993b;* Table 4]). These lead concentrations are well below the PRG of 240 mg/kg (*HLA, 1994a*; Table 4).

3.1.4 Building 4110

3.1.4.1 Field Investigation

The field investigation at Building 4110 included the completion of seven soil borings around the former UST location and the collection of 29 soil samples for chemical analysis (Plate 3). The borings were completed to evaluate the vertical and horizontal extent of petroleum hydrocarbon impacted soil from product releases associated with the former UST.

3.1.4.1.1 Soil Boring and Sampling

From October 26 to 29, 1993, seven soil borings (SB-4110-01 through -07) were drilled to depths of 41.5 to 101.5 feet bgs using truck-mounted, hollow-stem auger rotary drilling equipment. One boring (SB-4110-01) was drilled through the backfill material in the former UST location to a depth of 101.5 feet, and the other six borings (SB-4110-02 through -07) were drilled around the former UST location to 41.5 feet bgs. The soil borings were lithologically logged by an HLA field geologist under the supervision of a California-registered geologist. Soil was described in accordance with standard geologic techniques and ASTM D2488-90, which is based on the Unified Soil Classification System. Soil boring logs are presented in Appendix C.

Twenty-nine soil samples (9343C411030F, -32F through -35F, -40F, -42F, -45F, -46E, -48F, -49F, -55F, -56F, -58F, -60F, -60E, -63F, -64F, -66F, -68F through -70F, -77F, -78F, -82F, -82E, -87F, -88F, and -90F) were collected from the seven soil borings. Soil samples were collected using a California split-barrel drive sampler housing three 6-inch-long stainless steel tubes. The samples were screened in the field for organic vapors using either an organic vapor analyzer (OVA) or an OVM. The readings were noted on the boring logs. The soil sample tubes submitted for analysis were capped with Teflon-lined plastic lids, labeled, stored in an insulated container with ice, and transported under chain of custody control to the analytical laboratory on the following day. Chain of custody records are included in Appendix A. The drill cuttings were placed on polyethylene sheeting at the site and transported to the Fort Ord USRA on November 3, 1993, where they were stockpiled as described in Section 3.1.3.1. Downhole equipment (e.g., augers and drill bits) was steam cleaned at the Site 17 decontamination area. The split-barrel sampler was cleaned between sampling events by washing with phosphate-free detergent followed by a clean-water rinse. Following completion of drilling, the borings were backfilled to ground surface with bentonite cement grout.

3.1.5.1.2 Analytical Program

The samples collected in native soil from the seven borings were analyzed for TPHg and TPHd using EPA Test Method 8015m; BTEX using EPA Test Method 8020; and total lead using EPA Test Method 7421. Twenty-six of the 29 samples were analyzed by Enseco. Three duplicate quality control samples (9343C411046E, -60E, and -82E) were submitted to the COE QA laboratory in Sausalito, California.

3.1.4.2 Results

3.1.4.2.1 Subsurface Conditions

The maximum depth investigated was 101.5 feet bgs at SB-4110-01. Review of the boring logs (Appendix C) indicates that site stratigraphy in the upper 5 to 20 feet bgs is generally yellowish brown fine- to medium-grained silty sand, moderately dense, and moist. The material below 20 feet bgs consists of light yellowish brown to light brown, medium dense, dry, poorly sorted, medium-grained sand. The sand is generally finer grained with depth and increasingly dense. No groundwater was encountered while drilling. Moderate to strong petroleum odors were noted in some of the borings (-01, -05, and-06), generally from 10 to 25 feet bgs.

OVA readings were generally highest between approximately 15 and 25 feet bgs, at concentrations averaging 80 ppm, although concentrations greater than 1,000 ppm were recorded at 20 feet bgs in the footprint of the former UST (SB-4110-01).

3.1.4.2.2 Chemical Analysis

Analytical results of all compounds detected are presented in Tables 5 and 6 and on Plate 3. A table of analytical results for all chemicals is presented in Appendix B. TPHg was detected in five samples (9343C411032F, -33F, -34F, -69F, and -77F) from three borings (SB-4110-01, -05, and -06) at concentrations ranging from 2,700 to 6,300 mg/kg at depths between 11 and 21 feet. The highest concentration was found at SB-4110-01 in Sample -33F at a depth of 16 feet. The compounds toluene, ethylbenzene, and xylenes were detected in the same samples; concentrations range from below reporting limits to 380 mg/kg. Unknown extractable TPH, at concentrations of 21 to 2,300 mg/kg, were generally in the same samples where TPHg was detected (Table 5). The compounds were also detected in Sample -88F at a depth of 31 feet in Boring -07. Unknown purgeable TPH was detected in two samples (-87F and -88F), also from Boring -07. No TPHd or benzene was found above the reporting limits in the soil samples. Lead was detected in most samples, at concentrations ranging from 0.33 to 13.5 mg/kg (Table 6). This range exceeds the maximum deep background concentration (*HLA, 1993b*) of 3.7 mg/kg, but is well below the PRG of 240 mg/kg (*HLA, 1994a*; Table 4).

3.1.5 Building 4590

3.1.5.1 Field Investigation

From October 11 to 21, 1993, three CPT probes, one CPT soil sample location, and seven soil borings were completed at UST 4590.1 using CPT or hollow-stem auger mobile rigs. The soil boring and CPT investigations were completed to identify the vertical and horizontal extent of petroleum hydrocarbon impacted soils from product releases associated with the former UST.

3.1.5.1.1 Soil Boring and Sampling

From October 11 to 12, 1993, CPT probes were advanced at three locations (SB-4590-04, -06, and -08) to 19.7, 19.7, and 22.2 feet bgs, respectively. Soil samples for chemical analysis were collected with the CPT rig at SB-4590-04 (9341HCPT001, -02, and -04). The soil at the site did not allow deeper penetration, and use of the CPT method was discontinued.

From October 19 to 21, 1993, seven soil borings (SB-4590-01 through -03, and -05 through -08) were completed between 21.5 and 101 feet bgs using truck-mounted, hollow-stem auger drilling equipment. One boring (-07) was drilled in the backfill material of the former UST to 101 feet bgs, three borings (-01, -03, and -08) were completed at 41.5 feet bgs, and three borings (-02, -05, and -06) were completed at 21.5 feet bgs around the former UST location and product piping (Plate 4). Borings -05 and -06 were completed at the same locations where CPT probes were previously attempted. The soil borings were lithologically logged by an HLA field geologist under the supervision of a California-registered geologist. Soil was described in accordance with standard geologic techniques and ASTM D2488-90, which is based on the Unified Soil Classification System. Soil boring logs are presented in Appendix C.

Thirty-one soil samples (9341HCPT001, -02, -02E, -04, 9342HUST006F, -08F, -09F, -09E, -10F, -11F, -13F, -15F, -16F, -16E, -17F, -18F, -20F, -22F, -26F through -32F, -32E, -35F, -37F, -40F, -42F, and -44F) were collected from the seven soil borings and the CPT sample location. The techniques for obtaining OVA readings, soil samples, and sample collection and handling are described in Section 3.1.4.1.1. Drill cuttings were placed on polyethylene sheeting at the site and transported and stockpiled at the Fort Ord USRA as described in Section 3.1.3.1. Decontamination procedures are described in Section 3.1.4.1.1. The borings were backfilled with bentonite cement grout to ground surface.

3.1.5.1.2 Analytical Program

The soil samples from the borings were analyzed for TPHg and TPHd using EPA Test Method 8015m; BTEX using EPA Test Method 8020; and total lead using EPA Test Method 7421. Twenty-seven of the 31 samples were analyzed by Enseco. Four duplicate quality control samples (9341HCPT002E, 9342HUST009E, -16E, and -32E) were submitted to the COE QA laboratory.

3.1.5.2 Results

3.1.5.2.1 Subsurface Conditions

The maximum depth investigated at Site 4590 was 101 feet bgs at SB-4590-07 (Appendix C). Review of soil boring logs indicates that site stratigraphy in the upper 5 to 20 feet bgs is generally yellowish brown, moderately dense, moist, fine- to medium-grained sand, with minor silt. The material below 20 feet bgs consists of brownish yellow to yellowish brown, medium dense, poorly sorted, fine-grained sand and 5 to 10 percent silt. The sand is generally finer grained and increasingly dense with depth. No groundwater was encountered while drilling.

OVA readings in soil vapor were generally nondetectable, with the single exception of 9 ppm recorded at 5 feet bgs in SB-4590-03.

3.1.5.2.2 Chemical Analysis

The analytical results of all detected chemicals are presented in Tables 7 and 8 and on Plate 4. A table of analytical results for all chemicals is presented in Appendix B. Unknown extractable TPH was reported in six samples (9342HUST032F, -15F, -18F, -20F, -22F, and -26F) from four borings (SB-4590-01 through -03, and -07) and one CPT/soil probe sample (9341HCPT001) at concentrations ranging from 11 to 74 mg/kg at depths of 5.5 to 30.5 feet. The highest value (74 mg/kg) for extractable TPH was found in Sample -15F from Boring -02 at a depth of 10.5 feet (Table 7). No TPHg, TPHd, or BTEX were found above the reporting limits in any of the soil samples analyzed. Lead was present at concentrations of 2.2 to 2.5 mg/kg (Table 8). These values are less than the maximum background level of 3.7 mg/kg (Table 4; *HLA, 1993b*) and are well below the PRG of 240 mg/kg (*HLA, 1994a*).

3.1.5.3 Clearance Report

A clearance report was prepared for the Building 4590 UST investigation site because confirmation sample analytical results were less than the cleanup standards established by RWQCB and MCDOH. The report was submitted to the MCDOH on December 8, 1994 (*HLA, 1994d*). The purpose of the clearance report was to request concurrence that the investigation activities had been completed and to request and obtain site closure from the MCDOH. In a letter to the POMA DENR dated March 3, 1995, the MCDOH concurred that the cleanup criteria had been achieved and granted closure to UST 4590.1. A copy of the MCDOH closure letter is included in Appendix D.

3.1.6 Facility 2754

3.1.6.1 Field Investigation

The field investigation at Facility 2754 included the excavation of approximately 100 cy of soil, obtaining eight soil samples from the excavation, removing approximately 80 linear feet of product piping, and obtaining two soil samples from beneath the piping. The excavation was performed to investigate the vertical and horizontal extent of petroleum hydrocarbon impacted soil associated with product releases from the former UST and piping.

3.1.6.1.1 Soil Excavation and Confirmation Sampling

On November 2, 1993, an excavation approximately 13 feet long by 13 feet wide by 14 feet deep was completed using a backhoe in the area of former UST 2754.1 (Plate 5) under the supervision of an HLA field geologist. The excavation was behind a 2-foot-high concrete block retaining wall at the base of an unpaved slope. A tree approximately 2 feet uphill from the excavation partially overhung the work site. Approximately 100 cy of soil was excavated from the area of the former UST. Eight confirmation soil samples (9344Z275401F through -08F) were obtained from the sidewalls and floor of the excavation. Field conditions were noted and documented as excavation activities proceeded. The techniques for soil description, screening, segregation, sample collection and handling, and decontamination are described in Section 3.1.3.1.1.

On November 3, two 1-inch-diameter product lines (each approximately 40 feet long) were excavated between the retaining wall and Building 2757, near Building 2756. The asphalt surface was removed and the debris piled nearby; the piping was found at approximately 6 inches bgs. Following piping removal, two soil samples (-09F and -10F) were collected from beneath the piping approximately 20 feet apart (Plate 5).

Based on PID readings and visual observations, all 100 cy of excavated soil was transported to the 519th Motor Pool and stockpiled as described in Section 3.1.3.1.1. The approximately 3 cubic yards of asphalt removed from the product line trench was piled near the retaining wall at the site and later disposed at the Marina Landfill. Fencing was erected around the excavation to secure the site.

3.1.6.1.2 Analytical Program

The soil samples collected in native soil from the excavation of the former UST location and product piping were analyzed for TPHg, TPHd, and TPHmo using EPA Test Method 8015m; volatile organic compounds (VOCs) using EPA Test Method 8240; polycyclic aromatic hydrocarbons (PAHs) using EPA Test Method 8270; total lead using EPA Test Method 7421; and cadmium, chromium, nickel, and zinc using EPA Test Method 6010. The confirmation samples were analyzed by Enseco.

3.1.6.2 Results

3.1.6.2.1 Subsurface Conditions

The maximum depth investigated at Facility 2754 was 14 feet bgs to the excavation floor. The subsurface materials observed are typical of dune sand deposits found throughout the immediate vicinity. The sand was primarily light brown, medium grained, loosely consolidated, moist, with minor silt present in the upper 5 feet. Several dark brown, fine-grained sandy lenses approximately 1 to 4 inches thick were observed at depths ranging from 7 to 14 feet bgs, the total depth investigated.

A PID reading of 7 ppm was obtained in the bottom of the UST excavation where the soil was observed to be slightly stained. An odor characteristic of diesel was noted as coming from the excavated, stained soil.

3.1.6.2.2 Chemical Analysis

The concentrations and distribution of the compounds detected in the ten soil samples collected from the excavations are presented in Tables 9, 10, and 11 and are shown on Plate 5. A table of analytical results for all chemicals is presented in Appendix B. VOCs were detected in the 10 soil samples collected from the excavation at the former UST location and the piping trench. Within the excavation, ethylbenzene was detected in two samples (9344Z275405F and -08F) at concentrations of 0.088 and 0.023 mg/kg, respectively. Xylenes were detected in two samples (-05F and -08F) at concentrations of 1.6 and 0.49 mg/kg, respectively. Unknown extractable hydrocarbons were detected in three samples (-07F, -08F and -05F) at concentrations ranging from 18 to 11,000 mg/kg. Acetone was detected in three samples (-01F, -03F, and -08F) at concentrations ranging from 0.016 to 0.047 mg/kg, which is below the PRG of 220 mg/kg (Table 9); this analyte occurs occasionally as a laboratory contaminant. Naphthalene was detected in two samples (-03F and -08F) at estimated concentrations of 0.044 and 1.2 mg/kg, respectively, below the PRG of 640 mg/kg (Table 12).

In one of two samples (-10F) collected from the piping excavation, toluene was detected at a concentration of 0.0011 mg/kg, xylenes were detected at 0.0015 mg/kg, and acetone was detected at 0.086 mg/kg. Several tentatively identified compounds (TICs) reported in both samples (-09F and -10F) appear to represent minor constituents of the petroleum hydrocarbons detected in soil at the site (Table 10). No other target analytes were detected above the reporting limits in soil samples from this area.

Three metals were found above the reporting limits in most of the soil samples analyzed (Table 11). Chromium and zinc were detected in all samples collected. Chromium was detected at concentrations ranging from 6.9 to 9.5 mg/kg in samples from the excavation and at 4.9 and 12 mg/kg in samples from below the piping. These concentrations are below the maximum shallow (<2 feet bgs) and deep (>2 feet bgs) background concentrations of 46.1 and 22.7 mg/kg (*HLA, 1993b*), respectively (Table 4), and below the PRG of 67,000 mg/kg for Chromium III (*HLA, 1994a*). Detected concentrations of chromium were also below the U.S. EPA Region 9 PRG of 210 mg/kg (total chromium in residential soil). The U.S. EPA PRG of 210 mg/kg (total chromium) assumes a sample composition of a 1/6 ratio of Chromium VI/Chromium III. However, total chromium detected at Facility 2754 is considered to be Chromium III because Chromium VI was detected at low concentrations in only 3 of 525 samples collected in the course of remedial investigations at other sites throughout Fort Ord. Zinc was detected in the eight excavation samples at concentrations ranging from 4.7 to 8.7 mg/kg and in the two samples from beneath the piping at 35.6 and 63.7 mg/kg. The detected concentrations are below their respective shallow and deep maximum background concentrations (75.8 and 13.9 mg/kg) and the PRG (20,000 mg/kg) for zinc. Lead was detected in three of the excavation samples (-05F, -07F, and -08F) at concentrations ranging from 4.4 to 54.4 mg/kg and at 14.5 mg/kg in one of two samples (-09F) from beneath the piping. The excavation concentrations exceed the maximum deep background concentration of 3.7 mg/kg. The lead concentration in the sample from beneath the piping, however, was below the maximum shallow background concentration of 51.8 mg/kg. All lead concentrations were well below the PRG of 240 mg/kg.

3.2 Phase 2

This section presents the results of the second phase of investigation activities. Phase 2, conducted in late 1994 and 1995, was designed to further assess the extent of petroleum hydrocarbons in soil at Buildings 4107 and 4110 and Facility 2754, based on the review and interpretation of the Phase 1 data. HLA conducted the second phase of activities in accordance with the Final Work Plan (*HLA, 1993e)* and the Final Addenda to the Work Plan (*HLA 1994b, 1994e*) and pursuant to Modifications P00063 and P00067 to Contract DACA 05-85-C-0240.

3.2.1 Scope of Work

The Phase 2 activities included:

- Excavating a total of approximately 1,950 cy of soil at three former UST sites (500 cy at Building 4107; 1,350 cy at Building 4110; and 100 cy at Facility 2754) and collecting 25 soil samples for chemical analysis
- Drilling and lithologic logging of four soil borings at one former UST site (Building 4110) and collecting eight soil samples from the borings for chemical analysis
- Stockpiling impacted soil from soil borings and excavations at the 519th Motor Pool, pending biotreatment at the Fort Ord USRA
- Analyzing excavation confirmation and stockpile characterization soil samples
- Submitting a clearance report for Building 4107 UST site
- Backfilling and compacting the excavations with clean imported fill and clean excavated soil at former UST Sites 4107 and 4110
- Running vadose zone leaching (VLEACH) and groundwater mixing models for selected compounds at Site 4110.

3.2.2 Preliminary Activities

Before intrusive activities began at each site:

- Utility clearance was obtained from either the Army DPW or the Naval Postgraduate School Public Works Department
- The MBUAPCD was notified before chemically impacted soil was excavated
- The COE, MCDOH, and POMA DENR were notified 48 hours before work began
- The Fort Ord Fire Department was notified.

3.2.3 Building 4107

3.2.3.1 Field Investigation

The Phase 2 field investigation at Building 4107 included excavating approximately 500 cy of impacted soil from the area of the former UST and fuel dispenser and obtaining 13 soil samples for chemical analysis from the walls and floor of the excavation. The excavation was performed to remove impacted soil that remained at concentrations above the MCDOH cleanup levels. Four soil samples were collected for characterization from screened stockpiled soil removed from the excavation.

3.2.3.1.1 Soil Excavation and Sampling

On June 28 and July 29, 1994, approximately 500 cy of soil was removed by backhoe from the area of the former UST 4107.1 (Plate 6) under the supervision of an HLA field geologist. Field conditions were noted and documented as excavation activities proceeded. The excavated soil was screened and described as discussed in Section 3.1.3.1.1.

On June 28, 1994, approximately 100 cy of soil was removed by backhoe from an area adjacent to a power pole (near the location of former UST 4107.1) to evaluate if soil contamination extended under the pole (Plate 2). Four confirmation soil samples (9426Z410001F through -04F) were collected as described below. Soil sample analytical results (Table 2) indicated that elevated concentrations of petroleum hydrocarbons were present in the vicinity of the power pole. The excavation was partically backfilled to stabilize the pole. The power pole was subsequently relocated by the Army DPW.

On July 29, 1994, an additional approximately 400 cy of soil was removed from the area of the former UST, fuel dispenser and power pole. The area excavated included the area backfilled adjacent to the former power pole location. Excavation continued until visual observations and PID readings indicated nondetectable petroleum hydrocarbon levels. Nine confirmation soil samples (9430Z410105F, -06F, -07E, and -08F through -13F) were collected by having the backhoe operator remove a bucket of soil at the desired sampling location. A clean stainless steel tube was pushed into the soil in the bucket until the tube was completely filled. The samples were collected in native soil from the floor and walls of the excavation at depths between 18 and 28 feet bgs. The sample tubes were capped with Teflon-lined plastic lids, labeled, stored in an iced, insulated container and transported under chain of custody control to the analytical laboratory on the following day. Chain of custody records are included in Appendix A. A discussion of the analytical program is presented in Section 3.2.3.1.2.

Excavated soil was segregated into clean and contaminated stockpiles on the basis of PID readings and visual observations. The contaminated soil (approximately 300 cy) was transported to the 519th Motor Pool, stockpiled on an impermeable liner to contain runoff and prevent run-on of water, and covered pending treatment at the USRA. The clean soil (approximately 200 cy) was stockpiled on and covered with an impermeable liner at the site pending receipt of soil stockpile characterization sampling results. One four-point composite soil sample was collected for chemical analysis from each 50 cy of clean soil to evaluate treatment or backfilling alternatives. To collect these samples, HLA removed at least 1 foot of surface material from the clean soil stockpile and pushed a clean stainless steel tube into the pile. This procedure was repeated in four different areas of each 50 cy pile. Four soil samples (9430Z4114AF through -7AF) were collected from the clean soil stockpiles and analyzed as described below. Fencing was erected around the excavation to secure the site.

3.2.3.1.2 Analytical Program

All soil samples were analyzed for TPHg and TPHd using EPA Test Method 8015m and for BTEX using EPA Test Method 8020. Eleven of the 13 confirmation samples and the four stockpile samples were analyzed by Onsite Environmental Laboratories. One duplicate confirmation quality control sample (9430Z410110F) was analyzed by Enseco. One duplicate confirmation quality control sample (9430Z410107E) was submitted to the COE QA laboratory.

3.2.3.1.3 Excavation Backfilling and Compaction

Following review of the clearance report (*HLA, 1994c*) and after approval from the MCDOH and the COE was obtained, the Building 4107 excavation was backfilled with clean excavated soil and clean imported fill. Backfill material was placed in the excavation in lifts not exceeding 8 inches in uncompacted thickness, moisture conditioned to near optimum moisture content, and compacted to approximately 90 percent relative compaction. Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material, as determined by the ASTM D 1557-78 laboratory compaction procedure. Soil compaction tests were performed at intervals and at depths necessary for determining compliance with the compaction requirements, as designated by an onsite HLA professional. Field testing was performed with a nuclear gauge using ASTM D 2922 and D 3017. The excavation was backfilled to existing grade. The concrete golf cart path removed during excavation activities was replaced.

3.2.3.2 Chemical Analysis Results

Analytical results of all compounds detected are presented in Table 2 and on Plate 6. A table of analytical results for all chemicals is presented in Appendix B. TPHd was detected in two of four samples (9426Z410001F and -02F) collected on June 28, 1994 at concentrations of 1,200 and 410 mg/kg, respectively. Ethylbenzene and xylenes were detected in Sample -01F only at concentrations of 1.6 and 3.4 mg/kg, respectively. Subsequent excavation on July 29, 1994, removed soil exceeding MCDOH cleanup levels in the vicinity of the power pole as well the rest of the excavation. TPHd was detected in the two west sidewall samples (9430Z410106F and -12F) collected from depths of 18 and 26 feet at concentrations of 9 and 8 mg/kg, respectively (Plate 6). No TPHg or BTEX was detected above the reporting limits. TPHd was detected in one of the stockpile samples (9430Z4117AF) at a concentration of 4 mg/kg.

3.2.3.3 Clearance Report

A clearance report was prepared for the Building 4107 UST investigation site because confirmation sample analytical results were less than the cleanup standards established by RWQCB and MCDOH. The report was submitted to the MCDOH on October 5, 1994 (*HLA, 1994c*). The purpose of the clearance report was to request concurrence that the investigation activities had been completed and to request and obtain site closure from the MCDOH. After review of the clearance report, the MCDOH granted verbal authorization on October 19, 1994, for HLA to backfill the excavation. In a letter to POMA DENR, dated March 3, 1995, the MCDOH concurred that the cleanup criteria had been achieved and granted closure to UST 4107.1. A copy of the MCDOH closure letter is included in Appendix D.

3.2.4 Building 4110

3.2.4.1 Field Investigation

The Phase 2 field investigation at Building 4110 was completed in two parts. The first part included excavating approximately 1,350 cy of soil from the area of the former UST and obtaining confirmation soil samples for chemical analysis from the walls and floor of the excavation. In addition, soil samples were collected from screened stockpiled soil removed from the excavation. Due to a quality control issue with the analytical laboratory, it was necessary to re-sample the excavation and stockpiles. Eleven confirmation and six stockpile soil samples were re-collected as described below. The second part of the Phase 2 investigation included completion of four soil borings drilled to depths between 35 and 60 feet bgs using truck-mounted, hollow-stem auger, rotary drilling equipment. Eight soil samples from the four borings were collected for chemical analysis.

3.2.4.1.1 Soil Excavation and Sampling

On June 20 and 21, 1994, approximately 1,350 cy of soil were removed by backhoe in the vicinity of former UST 4110.1 (Plate 7) under the supervision of an HLA geologist. Field conditions were noted and documented as excavation activities proceeded. The excavated soil was screened and described as discussed in Section 3.1.3.1.1.

Twelve confirmation soil samples were collected (as described in Section 3.2.3.1.1) in native soil from the floor and walls of the excavation at depths between 18 and 41 feet bgs. Fencing was erected around the excavation to secure the site.

Excavated soil was segregated into clean and contaminated stockpiles on the basis of PID readings and visual observations. The contaminated soil (approximately 650 cy) was transported to the 519th Motor Pool and stockpiled as described in Section 3.1.3.1.1. Clean soil was stockpiled at Building 4110 and sampled as described in Section 3.2.3.1.1. Fourteen soil samples (9425Z411001F through

-14F) were collected from the clean soil stockpiles and analyzed as described below.

The samples were submitted to Onsite Environmental Laboratories' mobile laboratory for analysis. An audit of the mobile laboratory by COE and HLA representatives on June 29, 1994, indicated that diesel surrogates were not available for the TPHd analyses for soil samples collected from the excavation and stockpiles. The laboratory analytical results from these samples were not acceptable for use as confirmation samples. On July 27, 1994, additional soil was removed from the June 21 excavation, and 11 confirmation soil samples (9430Z411088F through -91F, -96F, -97F, -98E, and -99F through -102F) were collected from the walls and floor of the excavation. Based on preliminary positive TPHd results, six of the stockpile samples (9425Z411002F, -03F, -06F, -07F, -09F, and -10F) were also re-collected (9430Z41192AF through -95AF, -03AF, and -04AF). The analytical program is described below.

3.2.4.1.2 Analytical Program

Confirmation samples re-collected from the excavation were analyzed for TPHg and TPHd using EPA Test Method 8015m; BTEX using EPA Test Method 8020; and organic lead using EPA Test Method 7420M. The original 14 soil samples collected from the stockpiles were analyzed for TPHg, TPHd, BTEX, and organic lead using the EPA test methods listed above. The samples collected from the re-sampled stockpiles were analyzed for TPHd and organic lead using the EPA test methods listed above. All but three of the samples were analyzed by Onsite Environmental Laboratories. Two duplicate quality control samples (-91F and -99F) were analyzed by Enseco. One duplicate quality control sample (-98E) was submitted to the COE QA laboratory.

3.2.4.1.3 Excavation Backfilling and Compaction

After approval from the MCDOH and the COE was obtained, the Building 4110 excavation was backfilled to existing grade with clean excavated soil and clean imported fill as described in Section 3.2.3.1.3. Although soil with hydrocarbon concentrations in excess of the RWQCB and MCDOH cleanup levels remained in place, the excavation was backfilled because of the potential public safety hazard of an open excavation.

3.2.4.1.4 Soil Boring and Sampling

On December 13 and 14, 1994, and January 27, 1995, four soil borings (SB-4110-08 through -11) were drilled around the former UST location to evaluate the vertical and horizontal extent of petroleum hydrocarbon impacted soil from product releases associated with the former UST. These borings were drilled in an area where excavation soil samples contained petroleum hydrocarbons at concentrations in excess of MCDOH cleanup levels. The borings were drilled to a maximum depth of 60 feet bgs, and no groundwater was encountered. The soil borings were lithologically logged by an HLA field geologist under the supervision of a California-registered geologist. Soil was described in accordance with standard geologic techniques and the ASTM D2488-90, which is based on the Unified Soil Classification System. Soil boring logs are presented in Appendix C.

Eight soil samples were collected from the four soil borings (9450Z411009F through -14F and 9504Z411062F and -63F). Soil samples were collected, screened, and handled as described in Section 3.1.4.1.1. Chain of custody records are included in Appendix A. The drill cuttings were placed on polyethylene sheeting at the site and transported to the 519th Motor Pool, where they were stockpiled separately as described in Section 3.1.3.1.1. Downhole equipment (e.g., augers and drill bits) was steam cleaned at the Site 17 decontamination area. The split-barrel sampler was cleaned between sampling events by washing with phosphate-free detergent followed by a clean water rinse. Following completion of drilling, the borings were backfilled to ground surface with bentonite cement grout.

3.2.4.1.5 Analytical Program

Soil boring samples were analyzed for TPHg and TPHd using EPA Test Method 8015m; BTEX using EPA Test Method 8020; and organic lead using EPA Test Method 7420M. The eight samples collected from the borings were analyzed by Quanterra Laboratories (formerly Enseco).

3.2.4.2 Results

3.2.4.2.1 Soil Excavation Sampling

Analytical results from the resampling of the former UST 4110 excavation and stockpiles are presented in Tables 5 and 6 on Plate 7. All chemical results are presented in Appendix B. TPHg, TPHd, ethylbenzene, toluene, and xylenes were detected in two confirmation samples (9430Z411096F and -100F). The maximum concentration of TPHg, TPHd, ethylbenzene, toluene, and xylenes (190, 850, 7.4, 6.1, and 35 mg/kg, respectively) was detected in Sample -096F at a depth of 26 feet bgs in the east side of the excavation. These concentrations exceed MCDOH cleanup levels. No other organic compounds were detected.

TPHd was detected in five of the stockpile samples (9425Z411003F, -06F, -07F, -09F, and -10F) at concentrations of 25, 35, 210, 19, and 42 mg/kg, respectively. TPHd was detected in three of the six re-sampled stockpile samples (9430Z41192AF, -94AF, and -95AF) at concentrations of 24, 41, and 28 mg/kg. TPHg was detected in six of the stockpile samples (9425Z411003F, -04F, -06F, -07F, -08F, and -10F) at concentrations of 4, 2.3, 3.8, 14, 1.8, and 15 mg/kg, respectively. Benzene, ethylbenzene and toluene were detected in one stockpile sample (9425Z411004F) at concentrations of 0.077, 0.42, and 1.8, respectively. Xylenes were detected in two of the stockpile samples (9425Z411004F and -08F) at concentrations of 2.1 and 0.006 mg/kg, respectively. Organic lead was not detected in any of the stockpile samples.

3.2.4.2.2 Soil Boring Sampling

No compounds were detected in the eight samples collected from the four soil borings completed during Phase 2 of the site investigation (Table 5).

3.2.4.3 VLEACH and Groundwater Mixing Models

Analytical results of the samples collected from the excavation and from the four soil borings showed concentrations below MCDOH cleanup levels, except for one excavation sample (94302411096F) at 26 feet bgs. TPHd at a concentration of 850 mg/kg was detected in the sample. Results of the investigations indicate that a small amount of impacted soil may remain in place. Because the vertical extent of impacted soil probably does not extend deeper than 35 feet bgs, vadose zone leaching (VLEACH) and groundwater mixing models were performed to complete the site characterization. The VLEACH and groundwater mixing models were used to simulate the potential movement from soil to groundwater of organic compounds detected in soil samples at Building 4110. VLEACH was used to estimate the movement of chemicals through the soil column from where the chemicals were detected to the depth of the water table. The groundwater mixing model then used the output from the VLEACH model to estimate chemical concentrations in groundwater. The chemicals or groups of chemicals selected for modeling include benzene, hexane, dodecane, chrysene, naphthalene, toluene, ethylbenzene, and xylene. The results of the VLEACH and groundwater mixing models indicate that the concentrations of compounds remaining in soil at Building 4110 do not present a significant threat to groundwater. Detailed results of the VLEACH and groundwater mixing models are presented in Appendix E.

Based on our understanding of site conditions and our experience at Fort Ord, HLA requested that closure of former UST 4110.1 be granted. HLA requested that closure be granted on the following:

- The vast majority of petroleum hydrocarbon-impacted soil has been excavated from the site
- The remaining impacted soil is more than 25 feet bgs and extraordinary measures would be necessary to remove soil with petroleum hydrocarbon concentrations above RWQCB and MCDOH cleanup levels
- The solubility and mobility of diesel range petroleum hydrocarbons in the soil is relatively low
- The depth to groundwater in this area is approximately 200 feet bgs and there is a very low probability that there has been a release or a threat of a release of petroleum hydrocarbons to the groundwater

- Results of the VLEACH and groundwater mixing models indicate that the concentrations of compounds remaining in soil at the site of former UST 4110.1 do not present a significant threat to groundwater.

3.2.4.4 Site Closure

The draft version of this report was submitted to the RWQCB and the MCDOH on October 15, 1996. After reviewing the draft site investigation report, the MCDOH issued a letter on January 6, 1997 granting closure to UST 4110.1. The letter concurred with the findings of the draft report that no significant hydrocarbon contamination remains in soil at the former location of UST 4110.1. The RWQCB concurred with the MCDOH closure of UST 4110.1, in a letter dated February 10, 1997. Copies of the MCDOH and RWQCB closure letters are included in Appendix D.

3.2.5 Facility 2754

3.2.5.1 Field Investigation

The Phase 2 field investigation at Facility 2754 included excavating 100 cy of impacted soil from the area of the former UST and obtaining five soil samples for chemical analysis from the walls and floor of the excavation.

3.2.5.1.1 Soil Excavation and Sampling

On June 29, 1994, approximately 100 cy of impacted soil was removed by backhoe in the vicinity of former UST 2754.1 (Plate 8) under the supervision of an HLA geologist. Field conditions were noted and documented as excavation activities proceeded. The excavated soil was screened and described as discussed in Section 3.1.3.1.1. Based on PID readings and visual observations, all excavated soil was transported to the 519th Motor Pool and stockpiled pending biotreatment at the Fort Ord USRA.

Five soil samples (9426Z275007F, -09F, -10F, -11E and -12F) were collected (as described in Section 3.2.3.1.1) in native soil from the floor and walls of the excavation at depths ranging from 18 to 21 feet bgs. Fencing was erected around the excavation to secure the site.

3.2.5.1.2 Analytical Program

Excavation samples were analyzed for TPHg and TPHd using EPA Test Method 8015m; BTEX using EPA Test Method 8020; VOCs using EPA Test Method 8240; PAHs using EPA Test Method 8270; and organic lead using EPA Test Method

3.2.5.2 Results

The concentrations and distribution of the compounds detected in the samples collected from the excavation are presented in Tables 9 and 10 and are shown on Plate 8. A table of analytical results for all chemicals is presented in Appendix B. TPHd, xylenes, toluene, and ethylbenzene were detected in a soil sample collected from the south sidewall (9426Z275009F) at concentrations of 15,000, 2.7, 0.15, and 0.026 mg/kg, respectively. Other organic compounds detected in the sample included acetone, 1,2-dichloroethane (1,2-DCA), methyl ethyl ketone, naphthalene, fluorene, and phenanthrene, all at concentrations below PRGs (Table 12). These compounds were either not detected or detected at very low concentrations (below MCDOH cleanup levels and PRGs) in the other samples. Numerous unknown purgeables, unknown volatiles, unknown polynuclear aromatics, and TICs also were detected in several of the soil samples. Organic lead was not detected in any of the samples.

3.3 Phase 3

This section presents the results of the third phase of investigation activities. Phase 3 was designed to further assess the extent of petroleum hydrocarbons in soil at Facility 2754, based on the review and interpretation of the Phase 2 data. HLA conducted the third phase in accordance with the Final Work Plan (*HLA, 1993c*) and the Final Addenda to the Work Plan (*HLA, 1994b, 1994e, 1995*) and pursuant to Modifications P00008 and P00014 to Contract DACA 05-89-C-0136.

3.3.1 Scope of Work

The Phase 3 activities included:

- Drilling and lithologic logging of four soil borings at one former UST site (Facility 2754) and collecting 15 soil samples from the borings for chemical analysis

- Demolishing and removing approximately 35 linear feet of retaining wall and asphalt surfacing at Facility 2754
- Excavating a total of approximately 700 cy of soil at the former UST site at Facility 2754 and collecting eight soil samples for chemical analysis
- Stockpiling excavated soil onsite pending the outcome of the stockpile characterization sample analytical results
- Analyzing excavation confirmation and stockpile characterization soil samples
- Transporting impacted soil from the Facility 2754 excavation to the Fort Ord landfill
- Submitting a clearance report for UST 2754.1
- Backfilling and compacting the excavation with clean imported fill and clean excavated soil at the Facility 2754 UST Site
- Reconstructing site features (replacing retaining wall and resurfacing asphalt) at Facility 2754.

3.3.2 Preliminary Activities

Before intrusive activities began at the site:

- Utility clearance was obtained from the Naval Postgraduate School Public Works Department
- The MBUAPCD was notified before chemically impacted soil was excavated
- The COE, MCDOH, and POMA DENR were notified 48 hours before work began
- The Fort Ord Fire Department was notified.

3.3.3 Facility 2754

3.3.3.1 Field Investigation

The Phase 3 field investigation at Facility 2754 was completed in two parts. The first part included the completion of four soil borings (SB-2754-01 through -04) drilled to depths of 40 and 60 feet bgs using truck-mounted, hollow-stem auger rotary drilling equipment and the collection of fifteen soil samples from the four borings collected for chemical analysis. The second part of the Phase 3 investigation included the demolition and removal of approximately 35 linear feet of retaining wall, excavating 700 cy of soil from the area of the former UST, and obtaining ten soil samples for chemical analysis from the walls and floor of the excavation.

3.3.3.1.1 Soil Boring and Sampling

On December 16 and 22, 1994, and January 27, 1995, four soil borings were drilled around the former UST location at Facility 2754 to evaluate the vertical and horizontal extent of petroleum hydrocarbon impacted soil from product releases associated with the former UST. The borings were drilled to a maximum depth of 60 feet bgs, and no groundwater was encountered. The soil borings were lithologically logged by an HLA field geologist under the supervision of a California-registered geologist. Soil was described in accordance with ASTM D2488-90, which is based on the Unified Soil Classification System, and standard geologic techniques. Soil boring logs are presented in Appendix C.

Soil samples were collected (9450Z275019F through -24F, 9451Z275034F through -37F and 9504Z275064F through -68F), screened, and handled as described in Section 3.1.4.1. Chain of custody records are included in Appendix A. The drill cuttings were placed on polyethylene sheeting at the site and transported to the 519th Motor Pool where they were stockpiled separately as described in Section 3.1.3.1.1. Downhole equipment (e.g., augers and drill bits) was steam cleaned at the Site 17 decontamination area. The split-barrel sampler was cleaned between samplings by washing with phosphate-free detergent followed by a clean-water rinse. Following completion of drilling, the borings were backfilled to ground surface with bentonite cement grout.

3.3.3.1.2 Analytical Program

Soil boring samples were analyzed for TPHg and TPHd using EPA Test Method 8015m; VOCs using EPA Test Method 8240; PAHs using EPA Test Method 8270; and the metals cadmium, chromium, lead, nickel, and zinc using EPA Test Method 6010. The 15 samples collected from the borings were analyzed by Quanterra Laboratories.

3.3.3.1.3 Soil Excavation and Sampling

Based on the results of the soil boring investigation, the extent of impacted soil appeared to be limited, and additional excavation was selected by the COE as the most cost-effective cleanup alternative. On January 15, 1996, approximately 35 linear feet of a 2-foot-high concrete retaining wall was removed. The portion of the retaining wall that was removed lay within the proposed excavation limits.

On January 16 and 17, approximately 700 cy of soil was removed by backhoe under the supervision of an HLA geologist in the vicinity of the former UST 2754.1 (Plate 9). The soil was screened using an OVA for organic vapors and the readings and depths recorded. Soil types, soil staining, and other relevant field conditions were noted and documented as excavation activities proceeded. In addition, a "PetroFLAG" hydrocarbon field test was used as an additional field screening tool. The "PetroFLAG" test provides an indication of whether or not contamination is present and, if so, gives a conservative semiquantitative analytical result.

Upon completion of the excavation, ten confirmation soil samples (9603H275170F, -171E, -172D, -173F, -174F, -177F, -178F, -182F, -183E, and -184D) were collected (as described in Section 3.2.3.1.1) in native soil from the floor and walls of the excavation at depths of 20 to 22 feet bgs. Fencing was erected around the excavation to secure the site.

Excavated soil was segregated into clean and contaminated stockpiles on the basis of OVA readings and visual observations. One four-point composite soil sample was collected for chemical analysis from each 100 cy of stockpiled soil as agreed upon by HLA and the MCDOH (*MCDOH, 1995*). Eight soil samples (-175F, -176F and -185F through -190F) were collected from the soil stockpiles and analyzed as described below. Excavated soil was stockpiled on an impermeable liner to contain runoff and prevent run-on of water and covered pending the outcome of stockpile characterization sample analytical results.

On January 18, a decision was made to partially backfill the excavation because an excavation wall had collapsed and there was a possibility that Building 2756 might be damaged if further collapse occurred. Approximately 100 cy of clean backfill material was placed in the southeast corner of the excavation to stabilize the excavation walls.

3.3.3.1.4 Analytical Program

All soil samples were analyzed for TPHd and TPHg using EPA Test Method 8015m; BTEX using EPA Test Method 8020; and PAHs using EPA Test Method 8270. Eight confirmation samples (including duplicate samples -172D and -184D) and eight stockpile samples were analyzed by Agriculture and Priority Pollutant Laboratories, Inc. (APPL), Fresno, California. Two duplicate quality control samples (9603H275171E and -183E) were submitted to the COE QA laboratory.

3.3.3.1.5 Excavation Backfilling and Compaction

In a letter dated January 25, 1996, HLA requested authorization from the COE and the MCDOH to backfill the excavation due to its instability. On January 29, 1996, verbal authorization was given by MCDOH to backfill the excavation. Authorization to backfill from the MCDOH was based upon achieving the established cleanup criteria. Clean excavated soil stockpiled at Facility 2754 as well as clean sand imported from the Marina Landfill was used as backfill material. The excavation was backfilled as described in Section 3.2.3.1.3. One hundred and fifty cubic yards of impacted soil (concentrations in excess of MCDOH cleanup levels) was transported to the Fort Ord landfill for use in the foundation layer of the landfill cap.

The Facility 2754 excavation area was restored to preexisting conditions. In previously asphalted areas, the excavation was backfilled to within 8 inches of existing grade. Four inches of subbase was then placed and 4 inches of asphalt was paved over the subbase. The concrete retaining wall was also replaced.

3.3.3.2 Results

3.3.3.2.1 Soil Boring Sampling

Analytical results for all compounds detected are presented in Tables 9, 10, and 11 and on Plate 9. A table of analytical results for all chemicals is presented in Appendix B. No TPHg, TPHd, or BTEX were detected in any of the samples collected from the soil borings. Acetone was detected in several samples (9450Z275019F, -22F through -24F, and -34F through -37F) at concentrations ranging from 0.002 to 0.074 mg/kg. The maximum concentration was detected in Sample -35F from Boring -02 collected at a depth of 20 feet. All other acetone concentrations were below the reporting limits and are estimated. Methyl ethyl ketone was detected in Samples -35F and -36F at estimated (below reporting limits) concentrations of 0.002 and 0.003 mg/kg, respectively. Acetone and methyl ethyl ketone are common laboratory contaminants, and the results are not considered indicative of environmental conditions. Naphthalene was detected at a concentration of 0.037 mg/kg in Sample -65F collected at a depth of 10 feet bgs. Numerous TICs and unknown TICs were detected in the boring samples. Concentrations of detected inorganic compounds did not exceed the established maximum background concentrations (*HLA, 1993b*).

3.3.3.2.2 Soil Excavation Sampling

Analytical results for all compounds detected are presented in Table 9 and on Plate 9. A table of analytical results for all chemicals is presented in Appendix B. TPHd was detected in five of the excavation samples (9603H275173F, -174F, -177F, -178F, and -182F) at concentrations of 2, 4, 5, 4, and 3 mg/kg, respectively. TPHg was detected in three of the excavation samples (-173F, -174F, and -182F) at concentrations of 1.4, 1.7, and 2 mg/kg, respectively. No other organic compounds were detected in the excavation samples. TPHd was detected in each of the stockpile samples. Concentrations of TPHd exceeding the MCDOH cleanup levels were detected in two stockpile samples (-175F and -190F), at concentrations of 200 mg/kg each. TPHd was detected in the remaining stockpile samples (-176F and -185F through -189F) at concentrations of 9, 20, 20, 9, 10, and 30 mg/kg, respectively. TPHg was detected in three of the stockpile samples (-175F, -186F, and -190F) at concentrations of 7.9, 2.1, and 9.6 mg/kg, respectively. No other organic compounds were detected in the stockpile samples.

3.3.3.3 Clearance Report

A clearance report was prepared for UST 2754.1 because confirmation sample analytical results were less than the cleanup levels established by RWQCB and MCDOH. The report was submitted to the MCDOH on April 23, 1996 (*HLA, 1996a*). The purpose of the clearance report was to request concurrence that the investigation activities had been completed and to request and obtain site closure from the MCDOH. After review of the clearance report, the MCDOH granted verbal authorization on January 29, 1996, for HLA to backfill the excavation. In a letter to POMA DENR, dated August 22, 1996, the MCDOH concurred that the cleanup criteria had been achieved and granted closure to UST 2854.1. A copy of the MCDOH closure letter is included in Appendix D.

3.4 Data Quality Assessment

The analytical data from Buildings 4107, 4110, and 4590 and Facility 2754 were reviewed to assess whether the quality of the data was sufficient to support project objectives. The project objectives were to:

- Refine the list of chemicals of concern at the sites
- Assess the horizontal and vertical extent of the chemicals of concern in soil
- Assess the maximum concentrations of chemicals of concern at the sites
- Assess if remedial action (i.e., excavation) removed contaminated material
- Assess if requirements for site closure were met.

The analytical results of the site investigation were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). During validation, the quality of the data was evaluated with respect to a set of quality control criteria, including precision, accuracy, and completeness. The quality QA/QC samples used to assess data quality included laboratory duplicate samples; matrix spike/matrix spike duplicates (MS/MSDs); blank spike/blank spike duplicates (BS/BSDs, also known as laboratory control samples [LCS]); field (water) blanks; method blanks; trip blanks; and equipment rinsate blanks. Holding times and laboratory surrogate spike recoveries also were evaluated.

A quality control summary report (QCSR), which documents the findings of the data validation, is included in Appendix F. Attached to the QCSR are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results, and data qualifiers applied to sample results. Results of the data validation indicate that the quality of the data was sufficient to support project objectives.

4.0 ENGINEERING EVALUATION AND COST ANALYSIS

An engineering evaluation and cost analysis (EE/CA) was performed to document the comparison of the cost, implementability, and effectiveness of the implemented site investigation and remediation approach with the cost, implementability, and effectiveness of other site investigation and remediation alternatives. The objective of site investigation was to delineate the extent of contamination at the site, and the objective of remediation was to meet closure criteria for the site. Investigation and remediation technologies were assessed for the contaminated soil at Buildings 4107, 4110, and 4590 and Facility 2754.

4.1 Identification of Site Investigation Approaches

Two approaches to site investigation were identified on the basis of chemical concentrations, soil volumes, and physical locations of the soil: one approach that did not include soil excavation and one approach, which included soil excavation. These approaches are described below.

4.1.1 Site Investigation Without Soil Excavation

For this alternative, the site investigation at Buildings 4107, 4110 and 4590 and Facility 2754 would have included geophysical/utility clearances, and 32 hollow-stem auger soil borings. Soil samples would have been analyzed by one or more of the following methods, depending on the UST contents: TPHg, TPHd, and TPHmo using EPA Test Method 8015m; BTEX using EPA Test Method 8020; VOCs using EPA Test Method 8240; PAHs using EPA Test Method 8270; TRPH using SM5520; arsenic, cadmium, total chromium, nickel, zinc, and lead using EPA Test Method 6010; lead using EPA Test Method 7421; and organic lead using EPA Test Method 7420m. Soil generated from the borings would have been transported to the Fort Ord USRA and stockpiled.

4.1.2 Site Investigation With Soil Excavation

The implemented site investigation at Buildings 4107 and 4110, and Facility 2754 included geophysical/utility clearances and agency notification, 3 CPT soundings, and 23 hollow-stem auger soil borings. The soil samples were analyzed for a subset of the constituents discussed in Section 4.1.1 based on UST contents. Soil generated from the borings was transported to the Fort Ord USRA and stockpiled. Approximately 550, 1,350, and 900 cy of soil was excavated at Buildings 4107, 4110, and Facility 2754, respectively (2,800 cy total). The excavated soil was separated into clean and contaminated 50-or 100-cy soil stockpiles. Four-point composite soil samples from the clean stockpiles were collected and analyzed to assess the level of contamination in the stockpile. Soil samples were collected from the excavations. All soil samples were analyzed for a subset of the constituents discussed in Section 4.1.1 based on UST contents. The excavations were backfilled and compacted with clean soil.

4.2 Identification of Remedial Technologies

Soil remedial technologies were evaluated for application at Buildings 4107 and 4110, and Facility 2754. On the basis of the results of the site investigation, evaluation of remedial technologies for Building 4590 is not necessary. Three soil remedial technologies were identified on the basis of chemistry, quantity, and physical locations of the soil at the sites. These technologies are described below.

4.2.1 In Situ Treatment (Biovent/Soil Vapor Extraction [SVE])

In situ treatment (biovent/SVE) is a method of removing organic contaminants from soil. Biovent treatment is effective for nonvolatile hydrocarbons, while SVE is effective on volatile hydrocarbons. SVE involves applying a vacuum to extraction wells screened in the unsaturated (vadose) zone to pull air through the soil and evaporate existing contaminants. Biovent treatment involves injecting air into or extracting air from the unsaturated zone to enhance subsurface biodegradation of contaminants. A field pilot test would have been necessary to evaluate the effectiveness of biovent/SVE treatment under actual site conditions. Hydrocarbons at Buildings 4107 and 4110 consisted mainly of TPHg and BTEX, which are volatile; therefore, SVE would have been applicable to these buildings. Hydrocarbons at Facility 2754 consisted mainly of TPHmo, which is nonvolatile; therefore, biovent would have been applicable to this facility.

4.2.2 Treatment at Fort Ord USRA

The USRA is an ex situ (i.e., soil is excavated and transported to the USRA rather than being treated in situ) bioremediation/aeration treatment unit classified as a Class II waste pile for receiving nonhazardous soil wastes. The section of the USRA that will be used to treat contaminated soil from the site is approximately 200 feet by 100 feet by 1 foot deep, with a capacity for approximately 720 cy of soil. The USRA is bermed and lined with high-density polyethylene. A soil stockpile area is adjacent to the treatment unit where nonhazardous soil will be stored pending analytical results and/or placement in the treatment unit. An aboveground tank is also used for the collection of stormwater runoff from the unit as necessary.

4.2.3 Disposal

Disposal would have required excavating and transporting contaminated soil to a Class II disposal facility.

4.3 Development and Description of Site Remedial Alternatives

The characterization approaches and remedial technologies considered for this site were combined into site characterization/soil treatment alternatives that address the site as a whole. The developed alternatives are described below.

4.3.1 Alternative 1

Alternative 1 would have consisted of site investigation with no soil excavation and in situ treatment of the contaminated soil by biovent treatment at Facility 2754 and SVE at Buildings 4107 and 4110. Site investigation would have been performed as described in Section 4.1. SVE and biovent treatment would have included a separate system for the contaminated soil at each of the above-mentioned buildings and the facility. Each system would have included two air extraction wells, either an SVE or biovent system, and two 200-pound carbon vessels for offgas treatment. The estimated cleanup time for these sites would have been 1 year. At the conclusion of 6 months, site conditions would have been assessed to estimate the mass of contamination remaining at the site. The treatment operating parameters for each system would have been adjusted according to the results of this assessment to enhance treatment, if possible.

4.3.2 Alternative 2

Alternative 2 consisted of site investigation with excavation of approximately 550, 1,350, and 900 cy of soil at Buildings 4107 and 4110 and Facility 2754, respectively (2,800 cy total), and treatment of the contaminated soil (1,450 cy total) at the USRA. Excavation consisted of activities as described in Section 4.1. Contaminated soil was transported to the USRA for treatment. Any excavated soil not designated as contaminated was used as backfill at the excavation sites.

4.3.3 Alternative 3

Alternative 3 would have consisted of site investigation with soil excavation of approximately 550, 1,350, and 900 cy of soil at Buildings 4107 and 4110 and Facility 2754, respectively (2,800 cy total) and disposal of the contaminated soil (1,450 cy) at a Class II disposal facility. Excavation would have consisted of activities as described in Section 4.1. Contaminated soil would have been loaded into trucks and transported and disposed at a Class II disposal facility. Any excavated soil not designated as contaminated would have been used as backfill at the excavation sites. Operations and maintenance

(O&M) activities would not have been necessary for this alternative.

4.4 Comparison of Site Remedial Alternatives

4.4.1 Effectiveness

The remedial alternatives were evaluated as to future exposures and residual risks both during remedial activities and after remedial objectives have been satisfied. The magnitude of the risk was evaluated for each alternative, as well as the adequacy and reliability of required long-term management controls. The effects of each alternative in its construction, implementation, and operation phases were also assessed. Factors considered included protection of the community and workers during remedial operations, time required to implement the alternative and to achieve the remedial goals, and potential adverse environmental impacts.

4.4.2 Implementability

The three major factors considered in assessing the implementability of a remedial action alternative were:

- Technical feasibility - The ability to construct a treatment system, the reliability of the technology, and the ability to monitor the effectiveness of the remedy
- Administrative feasibility - The effort and resources required to obtain approvals from responsible agencies
- Availability of services and materials - The availability of contractors with the equipment and knowledge to implement the remedial alternative technologies.

4.4.3 Cost

Remedial alternative cost estimates were prepared using technical resource documents, contractor quotes, and experience on this site and other projects with similar scopes. Both capital and O&M costs were developed conceptually for each remedial action alternative. These cost estimates have an accuracy of plus 50 to minus 30 percent. The net present value (NPV) cost for biovent treatment over the 1 year treatment period for Alternative 1 was calculated using a 5 percent discount rate. Assumptions used to develop costs are listed with the cost breakdown for each alternative in Table 13.

4.5 Detailed Analyses of the Alternatives

4.5.1 Detailed Analysis of Alternative 1

Alternative 1 would have consisted of the following elements:

- Site investigation without soil excavation
- In situ treatment of the contaminated soil.

4.5.1.1 Effectiveness

The site investigation considered as part of Alternative 1 would have been expected to reduce future and residual risks. A pilot study would have been required to fully evaluate the effectiveness of in situ treatment at this site; however, data from similar sites with similar chemicals indicate PRGs could have been achieved through in situ treatment within 1 year. Pilot study results and an evaluation after 6 months of operation would have been needed to verify or modify the length of treatment time required. Residual risks associated with the soil contamination for SVE or biovent treatment would have decreased as chemical concentrations decreased to below PRGs. Short-term impacts to the environment would have been expected from intrusive construction activities such as the installation of wells and trenching and backfilling of subsurface piping. These impacts could have been mitigated using dust, noise, and traffic controls. Personal protective equipment (PPE) and a safety training program would have been implemented for workers.

4.5.1.2 Implementability

Alternative 1 could have been implemented at this site. Hollow-stem auger soil borings could have been performed using standard methods. SVE and biovent wells could have been constructed using standard well installation methods. The civil, mechanical, and electrical work could have been performed using standard practices common to the construction industry. Materials and equipment would have been readily available.

4.5.1.3 Cost

The total estimated cost of Alternative 1 is $474,000. The estimated capital cost is $312,000 for site investigation, three in situ treatment systems, and pilot tests. The estimated O&M cost is $162,000 for O&M costs of the one biovent and two SVE systems for 1 year.

4.5.2 Detailed Analysis of Alternative 2

Alternative 2 comprised the following elements:

- Site investigation with excavation of approximately 2,800 cy of soil (550 cy at Building 4107, 1,350 cy at Building 4110, and 900 cy at Facility 2754)
- Treatment of the excavated approximately 1,450 cy of contaminated soil (350 cy at Building 4107, 700 cy at Building 4110, and 400 cy at Facility 2754) at the USRA.

4.5.2.1 Effectiveness

Risk associated with petroleum hydrocarbon concentrations in soil above RWQCB and MCDOH cleanup levels was reduced to an insignificant level by the implemented site investigation and excavation. Short-term impacts to the environment were expected from intrusive construction activities, but the impacts were mitigated using dust, noise, and traffic controls. PPE and a safety training program were implemented for workers.

Residual risks associated with USRA treatment will decrease as chemical concentrations decrease to below PRGs. The treatment time for one batch of the excavated soil at the USRA for this alternative is approximately 3 months. Short-term impacts to the environment resulted from loading and transporting contaminated soil from the stockpile area to the USRA. These impacts were mitigated through dust, noise, and traffic controls. PPE and a safety training program were implemented for workers.

4.5.2.2 Implementability

CPT soundings and hollow-stem auger soil borings were performed using standard methods. Excavation of soil is a common construction industry practice and was implemented using standard practices. Materials and equipment were readily available. Treatment via the USRA is also implementable using materials and equipment that are readily available.

4.5.2.3 Cost

The total estimated cost of Alternative 2 is $339,000. The estimated capital cost is $291,000 for site investigation, excavation, stockpiling, separation of clean and contaminated soil at Buildings 4107, 4110, and Facility 2754; transportation of the soil to the USRA; backfilling and compacting the excavation sites with clean soil; and restoring the Building 4107 and Facility 2754 sites. The estimated O&M cost of this alternative is $49,000 for USRA sampling costs and O&M costs of the USRA for 6 months.

4.5.3 Detailed Analysis of Alternative 3

Alternative 3 would have comprised the following elements:

- Site investigation with excavation of approximately 2,800 cy of soil (550 cy at Building 4107, 1,350 cy at Building 4110, and 900 cy at Facility 2754)
- Disposal of the excavated 1,450 cy of contaminated soil (350 cy at Building 4107, 700 cy at Building 4110, and 400 cy at Facility 2754) at a Class II disposal facility.

4.5.3.1 Effectiveness

The site investigation and excavation of the in situ contaminated soil considered as part of Alternative 3 would have eliminated significant residual risks from the soil at the site. Short-term impacts to the environment would have been expected from intrusive construction activities, but the impacts could have been mitigated using dust, noise, and traffic controls. PPE and a safety training program would have been implemented for workers.

Disposal would have resulted in the elimination of future and residual risks associated with the contaminated soil at the site. Short-term impacts to the environment may have resulted from loading and transporting the contaminated soil from the stockpile area to a designated

Class II disposal facility. These impacts would have been mitigated through dust, noise, and traffic controls. PPE and a safety training program would have been implemented for workers. Because this alternative would have transferred the contaminated soil from one location to another, long-term liability and other long-term risks would not have been eliminated. However, the contaminated soil would have been disposed at a licensed and permitted landfill facility where current regulatory requirements for landfill usage and integrity are met.

4.5.3.2 Implementability

Alternative 3 could have been implemented at this site. Hollow-stem auger soil borings could have been performed using standard methods. Excavation of soil is a common construction industry practice and would have been implementable using standard practices. Materials and equipment would have been readily available. Disposal also would have been implementable.

4.5.3.3 Cost

The total estimated cost of Alternative 3 is $378,000. The estimated capital cost is $378,000 for site investigation, excavation, stockpiling, separation of clean and contaminated soil at Buildings 4107, 4110, and Facility 2754; transportation and disposal of contaminated soil; backfilling and compacting the excavation sites with clean soil; and restoring the Building 4107 and Facility 2754 sites. There is no O&M cost for this alternative.

4.6 Preferred Remedial Alternative

After comparing alternatives, Alternative 2 is the preferred alternative for the following reasons:

- Site investigation with soil excavation was more effective, as implementable, and more cost effective than site investigation without soil excavation to delineate the extent of contaminated soil
- Using the USRA allowed the contaminated soil to be recycled rather than disposed and reduced long-term risks
- The total cost of Alternative 2 is lower than any other evaluated alternative.

5.0 SUMMARY AND CONCLUSIONS

The extent of soil with petroleum hydrocarbon concentrations above RWQCB and MCDOH cleanup levels has been evaluated at the former UST locations at Buildings 4107 and 4110 and Facility 2754 by excavation and confirmation soil sampling and at Building 4590 by site investigation. During this evaluation, contaminated soil in excess of RWQCB and MCDOH cleanup levels was removed from the vicinity of the former diesel and gasoline USTs and piping at Building 4107 and Facility 2754. No TPHg, TPHd, or BTEX was detected above the reporting limits in soil samples from the former UST site at Building 4590. However, unknown extractable hydrocarbons were detected in six soil boring samples collected at Building 4590, but a concentration below MCDOH cleanup levels. Clearance reports were prepared for USTs 4107.1, 4590.1, and 2754.1 and submitted on October 5, 1994, and December 8, 1994, and April 23, 1996, respectively. After reviewing the clearance reports, the MCDOH agreed that cleanup criteria had been met and granted closure for the sites.

At Building 4110, analytical results of samples collected from excavation and soil borings showed concentrations below MCDOH cleanup levels or nondetect results in all but one sample. The concentration of TPHd exceeded the cleanup levels in an excavation sample collected at a depth of 26 feet. A VLEACH and groundwater mixing model using the constituents of organic compounds detected in soil at the site, was performed to estimate the movement and concentration of these chemicals to groundwater. The results of the VLEACH and groundwater mixing models indicate that the concentrations of compounds remaining in soil at Building 4110 do not present a significant threat to groundwater. Based on our understanding of site conditions and our experience at Fort Ord, HLA requested that closure of former UST 4110.1 be granted. HLA requested that closure be granted on the following:

- The vast majority of petroleum hydrocarbon-impacted soil has been excavated from the site
- The remaining impacted soil is more than 25 feet bgs and extraordinary measures would be necessary to remove soil with petroleum hydrocarbon concentrations above RWQCB and MCDOH cleanup levels
- The solubility and mobility of diesel range petroleum hydrocarbons in the soil is relatively low
- The depth to groundwater in this area is approximately 200 feet bgs and there is a very low probability that there has been a release or a threat of a release of petroleum hydrocarbons to the groundwater
- Results of the VLEACH groundwater mixing models indicate that the concentrations of compounds remaining in soil at the site of former UST 4110.1 do not present a significant threat to groundwater.

A letter granting closure to UST 4110.1 was issued by the MCDOH on January 6, 1997. In a letter dated February 10, 1997, the RWQCB concurred with the MCDOH closure of UST 4110.1.

The contaminated soil excavated during Phases 1 and 2 from Buildings 4107 and 4110 and Facility 2754 UST sites was transported to the 519th Motor Pool, stockpiled on an impermeable liner, and covered pending biotreatment at the Fort Ord USRA. All three excavations have been backfilled. The stockpiled clean soil excavated from Buildings 4107 and 4110 and Facility 2754 was used as backfill material along with clean imported fill. During Phase 3 of the excavation, soil with TPHd, TPHmo, or TRPH concentrations exceeding MCDOH and RWQCB cleanup levels, but less than 500 mg/kg was transported to the Fort Ord Landfill.

An EE/CA was completed to document and evaluate the effectiveness, implementability, and cost of selected site investigation and remediation alternatives; results were used to select an approach to site investigation and remediation. After comparing alternatives, Alternative 2, which involves site investigation with excavation of soil and treatment of the excavated contaminated soil at the USRA, was selected as the preferred alternative for the following reasons:

- Site investigation with soil excavation was more effective, as implementable, and more cost effective than site investigation without soil excavation to delineate the extent of contaminated soil
- Using the USRA allowed the contaminated soil to be recycled rather than disposed and reduced long-term risks
- The total cost of Alternative 2 is lower than any other evaluated alternative.

6.0 REFERENCES

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TABLES

TABLES

Table 1. Summary of Historical Analytical Results for Soil Samples
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Site Name	Sample Number	Sample Depths (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	TPHk (mg/kg)	TPI (m
Bldg. 4107(1)	S-4-E	12	06/08/92	ND	ND	ND	ND	ND	NA	NA	N
Bldg. 4107(1)	S-4-W	12	06/08/92	ND	ND	ND	ND	ND	NA	NA	N
Bldg. 4107(1)	S-4-D	unk.	06/08/92	0.25	5.8	8.6	57	2,600	NA	NA	N
Bldg. 4110(1)	4110	10	06/12/92	1.0	98	69	460	2,900	NA	NA	N
Bldg. 4590(1)	4590-1	unk.	04/17/92	NA	NA	NA	NA	NA	21.4	NA	N
Bldg. 4590(1)	4590-2	unk.	04/17/92	NA	NA	NA	NA	NA	2,750	NA	N
Fcly. 2754(2)	C22444	9	09/16/91	NA	NA	NA	NA	NA	ND	ND	24

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bgs	Below ground surface.
mg/kg	Milligrams per kilogram (parts per million equivalent).
TPHg	Total petroleum hydrocarbons as gasoline.
TPHd	Total petroleum hydrocarbons as diesel.
TPHk	Total petroleum hydrocarbons as kerosene.
TPHmo	Total petroleum hydrcarbons as motor oil.
ND	Not detected.
NA	Not analyzed.
(1)	Samples collected by Shewey.
(2)	Samples collected by SEMCO.
unk.	Unknown.

Table 2. Analytical Results for Organic Compounds Detected in Soil, Building 4107
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		ES-4107-01	ES-4107-02	ES-4107-03	ES-4107-04
Sample Depth(feet):		10.50	7.00	13.00	8.00
Sample Number:		9344Z410701F	9344Z410702F	9344Z410703F	9344Z410704F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		11/01/93	11/01/93	11/01/93	11/01/93
Lab Sample Number:		0723900001SA	0723900002SA	0723900003SA	0723900004SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8020					
Ethylbenzene	mg/kg	ND(0.25) A	3.7 AJ+	3 A	ND(0.005) A
Toluene	mg/kg	ND(0.25) A	4.2 AJ+	0.65 A	ND(0.005) A
Xylenes	mg/kg	ND(0.5) A	130 AJ+	28 A	ND(0.005) A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(82) A	ND(64) A	ND(49) A/R	ND(11) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	660 A/1	2300 A/1	620 A/1	ND(11) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(50) A	3000 AJ+/1	1800 A/1	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	610 A/1	ND(50) A	ND(50) A	ND(1) A
OIL & GREASE					
Non-Polar Oil and Grease (TRPH)	mg/kg	220 A	5500 A/R	1200 A/R	ND(50) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 2. Analytical Results for Organic Compounds Detected in Soil, Building 4107
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	ES-4107-05	ES-4107-06	ES-4107-07	ES-4107-08
	Sample Depth(feet):	10.00	11.00	19.00	20.00
	Sample Number:	9344Z410705F	9344Z410706F	9426Z410001F	9426Z410002F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	11/01/93	11/01/93	06/28/94	06/28/94
	Lab Sample Number:	0723900005SA	0723900006SA	1A062-35	1A062-36

Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	4.9 AJ+	ND(0.005) A	1.6 A	0.55 A
Toluene	mg/kg	3.9 AJ+	ND(0.005) A	0.028 A	ND(0.005) A/U
Xylenes	mg/kg	210 AJ+	ND(0.005) A	3.4 A	0.84 A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(67) A/R	ND(11) A	1200 A	410 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	2200 A/1	ND(11) A	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	4900 AJ+/1	ND(1) A	95 A	78 A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(50) A	ND(1) A	NA	NA
OIL & GREASE					
Non-Polar Oil and Grease (TRPH)	mg/kg	2700 A/R	ND(50) A	NA	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 2. Analytical Results for Organic Compounds Detected in Soil, Building 4107
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:	ES-4107-09	ES-4107-10	ES-4107-11	ES-4107-12
Sample Depth(feet):	17.00	16.00	28.00	26.00
Sample Number:	9426Z410003F	9426Z410004F	9430Z410105F	9430Z410106F
Matrix:	SOIL	SOIL	SOIL	SOIL
Sample Date:	06/28/94	06/28/94	07/29/94	07/29/94
Lab Sample Number:	1A062-37	1A062-38	1A088-05	1A088-06

Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A/U	0.009 AJ+	ND(0.005) A/U	ND(0.005) A/U
Toluene	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U
Xylenes	mg/kg	0.1 AJ+	0.02 AJ+	ND(0.005) A/U	ND(0.005) A/U
TPH DIESEL					
TPH-Diesel	mg/kg	ND(10) A/U	ND(10) A/U	ND(1) A/U	9 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	4.6 AJ+	2.2 AJ+	ND(1) A/U	ND(1) A/U
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
OIL & GREASE					
Non-Polar Oil and Grease (TRPH)	mg/kg	NA	NA	NA	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 2. Analytical Results for Organic Compounds Detected in Soil, Building 4107
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:	ES-4107-13	ES-4107-14	ES-4107-15	ES-4107-16
Sample Depth(feet):	26.00	22.00	28.00	18.00
Sample Number:	9430Z410108F	9430Z410109F	9430Z410111F	9430Z410112F
Matrix:	SOIL	SOIL	SOIL	SOIL
Sample Date:	07/29/94	07/29/94	07/29/94	07/29/94
Lab Sample Number:	1A088-07	1A088-08	1A088-09	1A088-10

Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U
Toluene	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U
Xylenes	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A/U	ND(1) A/U	ND(1) A/U	8 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A/U	ND(1) A/U	ND(1) A/U	ND(1) A/U
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
OIL & GREASE					
Non-Polar Oil and Grease (TRPH)	mg/kg	NA	NA	NA	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 2. Analytical Results for Organic Compounds Detected in Soil, Building 4107
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		ES-4107-17	SP-4107-4A-4D	SP-4107-5A-5D	SP-4107-6A-6D
Sample Depth(feet):		18.00	0.00	0.00	0.00
Sample Number:		9430Z410113F	9430Z41114AF	9430Z41115AF	9430Z41116AF
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		07/29/94	07/29/94	07/29/94	07/29/94
Lab Sample Number:		1A088-11	1A088-03	1A088-04	1A088-01
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U
Toluene	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U
Xylenes	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A/U	ND(1) A/U	ND(1) A/U	ND(1) A/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A/U	ND(1) A/U	ND(1) A/U	ND(1) A/U
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
OIL & GREASE					
Non-Polar Oil and Grease (TRPH)	mg/kg	NA	NA	NA	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 2. Analytical Results for Organic Compounds Detected in Soil, Building 4107
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:	SP-4107-7A-7D
Sample Depth(feet):	0.00
Sample Number:	9430Z41117AF
Matrix:	SOIL
Sample Date:	07/29/94
Lab Sample Number:	1A088-02

Test Method/Analyte Name	Units	value qual
EPA-8020		
Ethylbenzene	mg/kg	ND(0.005) A/U
Toluene	mg/kg	ND(0.005) A/U
Xylenes	mg/kg	ND(0.005) A/U
TPH DIESEL		
TPH-Diesel	mg/kg	4 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA
TPH GAS		
TPH-Gasoline	mg/kg	ND(1) A/U
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA
OIL & GREASE		
Non-Polar Oil and Grease (TRPH)	mg/kg	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 2

Description of Organic Qualifiers Used in Database

HLA Validation Assigned Qualifiers

A : Sample has undergone routine data validation.

J+: Data are qualified as estimated, with a high bias likely to occur. False positives or false negatives are unlikely to have been reported.

Laboratory Assigned Qualifiers

1 : Hydrocarbons present in this sample represent an unknown mixture in the diesel range. Quantification based on diesel references.

R : Reporting limit raised due to high level of analyte present in sample.

U : Compound was analyzed for but not detected.

Table 3. Analytical Results for Inorganic Compounds Detected in Soil, Building 4107
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	ES-4107-01	ES-4107-02	ES-4107-03	ES-4107-04
	Sample Depth(feet):	10.50	7.00	13.00	8.00
	Sample Number:	9344Z410701F	9344Z410702F	9344Z410703F	9344Z410704F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	11/01/93	11/01/93	11/01/93	11/01/93
	Lab Sample Number:	0723900001SA	0723900002SA	0723900003SA	0723900004SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	3.8 A	6.4 A	2.9 A	2.9 A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 3. Analytical Results for Inorganic Compounds Detected in Soil, Building 4107
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		ES-4107-05	ES-4107-06
Sample Depth(feet):		10.00	11.00
Sample Number:		9344Z410705F	9344Z410706F
Matrix:		SOIL	SOIL
Sample Date:		11/01/93	11/01/93
Lab Sample Number:		0723900005SA	0723900006SA
Test Method/Analyte Name	Units	value qual	value qual
FUAA-EPA7421			
Lead	mg/kg	4.8 A	1.7 A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 3

Description of Inorganic Qualifiers Used in Database

HLA Validation Assigned Qualifiers

A : Sample has undergone routine data validation.

Table 4. Maximum Background Metal Concentrations and Preliminary Remediation Goals for Soil
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Detected Metals	Maximum Background Concentration Detected in Soil[a] (mg/kg) Shallow NQTP[b]	Deep NQTP[c]	PRG (mg/kg)
Lead	51.8	3.7	240
Cadmium	NA	1.9	8.1
Chromium	46.1	22.7	67,000[d]
Nickel	58	19.5	130
Zinc	75.8	13.9	20,000

NQTP	Non-QTP (Soil of local geologic formations other than the Paso Robles (i.e., Qal, Qoal, Qod, Qd, Tsm).
a	Maximum background value from Table 19, *Draft Final Basewide Background Soil Investigation*, (*HLA, 1993b*).
b	Soil sample collected from 0 to 2 feet bgs and derived from the following geologic units: Qal, Qoal, Qod, Qd, Tsm.
c	Soil sample collected from greater than 2 feet bgs and derived from the following geologic units: Qal, Qoal, Qar, Qd, Tsm.
d	PRG for chromium III.
mg/kg	Milligrams per kilogram.
PRG	Preliminary remediation goal.
NA	Not applicable.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-01	SB-4110-01	SB-4110-01	SB-4110-01
Sample Depth(feet):		6.00	11.00	16.00	21.00
Sample Number:		9343C411030F	9343C411032F	9343C411033F	9343C411034F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/27/93	10/27/93	10/27/93	10/27/93
Lab Sample Number:		0723470001SA	0723470002SA	0723470003SA	0723470004SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) AJ-	1.4 A	34 AJ+	25 A
Toluene	mg/kg	ND(0.005) AJ-	0.27 A/J	23 AJ+	13 A
Xylenes	mg/kg	ND(0.005) AJ-	5.8 A	300 AJ+	180 A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(31) A/R	ND(190) A/R	ND(62) A/R	ND(93) A/R
TPH-Extractable Unknown Hydrocarbon	mg/kg	220 A/1	1700 A/1	2300 A/1	840 A/1
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) AJ-	4000 A/1	6300 AJ+/1	2700 A/1
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) AJ-	ND(500) A	ND(500) A	ND(500) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4110-01	SB-4110-01	SB-4110-02	SB-4110-02
	Sample Depth(feet):	26.00	81.00	6.00	21.00
	Sample Number:	9343C411035F	9343C411040F	9343C411042F	9343C411045F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/27/93	10/27/93	10/28/93	10/28/93
	Lab Sample Number:	0723470005SA	0723470006SA	0721740008SA	0723870007SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) AJ-	ND(0.005) A	ND(0.005) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) AJ-	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) AJ-	ND(0.005) A	ND(0.005) A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(10) A	ND(10) A	ND(10) A	ND(10) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) A	ND(10) A	ND(10) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1) AJ-	ND(1) A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1) AJ-	ND(1) A	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-02	SB-4110-02	SB-4110-03	SB-4110-03
Sample Depth(feet):		31.00	36.00	26.00	31.00
Sample Number:		9343C411048F	9343C411049F	9343C411055F	9343C411056F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/28/93	10/28/93	10/28/93	10/28/93
Lab Sample Number:		0721740010SA	0721740009SA	0721740012SA	0721740013SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(10) A	ND(10) A	ND(11) A	ND(10) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) A	ND(11) A	ND(10) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1) A	ND(1) A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1) A	ND(1) A	ND(1) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4110-03	SB-4110-04	SB-4110-04	SB-4110-04
	Sample Depth(feet):	41.00	11.00	26.00	31.00
	Sample Number:	9343C411058F	9343C411060F	9343C411063F	9343C411064F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/28/93	10/28/93	10/28/93	10/28/93
	Lab Sample Number:	0721740011SA	0723870006SA	0721740014SA	0721740015SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(10) A	ND(10) A	ND(11) A	ND(11) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) A	21 A/1	ND(11) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1) A	ND(1) A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	NA	ND(1) A	ND(1) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-04	SB-4110-05	SB-4110-05	SB-4110-05
Sample Depth(feet):		41.00	11.00	16.00	21.00
Sample Number:		9343C411066F	9343C411068F	9343C411069F	9343C411070F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/28/93	10/28/93	10/28/93	10/28/93
Lab Sample Number:		0721740016SA	0721740019SA	0721740018SA	0721740017SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	13 A	ND(0.005) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	5.4 A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	150 A	ND(0.005) A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(10) A	ND(10) A	ND(93) A/R	ND(16) A/R
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) A	2000 A/1	34 A/1
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1) A	4300 A/1	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1) A	ND(500) A	ND(1) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-06	SB-4110-06	SB-4110-06	SB-4110-07
Sample Depth(feet):		16.00	21.00	41.00	26.00
Sample Number:		9343C411077F	9343C411078F	9343C411082F	9343C411087F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/29/93	10/29/93	10/29/93	10/29/93
Lab Sample Number:		0721740020SA	0723870001SA	0723870002SA	0723870003SA

Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	44 A	ND(0.005) A	ND(0.005) A	ND(0.05) AJ-
Toluene	mg/kg	25 A	ND(0.005) A	ND(0.005) A	ND(0.05) AJ-
Xylenes	mg/kg	380 A	ND(0.005) A	ND(0.005) A	ND(0.05) AJ-
TPH DIESEL					
TPH-Diesel	mg/kg	ND(94) A/R	ND(10) A	ND(10) A	ND(11) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	2100 A/1	ND(10) A	ND(10) A	ND(11) A
TPH GAS					
TPH-Gasoline	mg/kg	5500 A/1	ND(1) A	ND(1) A	ND(10) AJ-
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(500) A	NA	NA	37 AJ-/d

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-07	SB-4110-07	SP-4110-09I	SP-4110-10J
Sample Depth(feet):		31.00	41.00	0.00	0.00
Sample Number:		9343C411088F	9343C411090F	9430Z41103AF	9430Z41104AF
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/29/93	10/29/93	07/27/94	07/27/94
Lab Sample Number:		0723870004SA	0723870005SA	1A084-16	1A084-20
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8020					
Ethylbenzene	mg/kg	ND(0.25) AJ-	ND(0.005) A	NA	NA
Toluene	mg/kg	ND(0.25) AJ-	ND(0.005) A	NA	NA
Xylenes	mg/kg	ND(0.5) AJ-	ND(0.005) A	NA	NA
TPH DIESEL					
TPH-Diesel	mg/kg	ND(48) A/R	ND(12) A	ND(1) A/U	ND(1) A/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	1200 A/d	ND(12) A	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	ND(50) AJ-	ND(1) A	NA	NA
TPH-Purgeable Unknown Hydrocarbon	mg/kg	360 AJ-/d	NA	NA	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		ES-4110-12	ES-4110-13	ES-4110-14	ES-4110-15
Sample Depth(feet):		18.00	26.00	28.00	26.00
Sample Number:		9430Z411088F	9430Z411089F	9430Z411090F	9430Z411096F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		07/27/94	07/27/94	07/27/94	07/27/94
Lab Sample Number:		1A084-36	1A084-37	1A084-43	1A084-38
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	7.4 A
Toluene	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	6.1 A
Xylenes	mg/kg	ND(0.005) A/U	ND(0.005) A/U	ND(0.005) A/U	35 A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A	ND(1) A/U	ND(1) A/U	850 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A/U	ND(1) A/U	ND(1) A/U	190 A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		ES-4110-16	ES-4110-17	ES-4110-18	ES-4110-19
Sample Depth(feet):		40.00	20.00	20.00	20.00
Sample Number:		9430Z411097F	9430Z411100F	9430Z411101F	9430Z411102F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		07/27/94	07/27/94	07/27/94	07/27/94
Lab Sample Number:		1A084-39	1A084-40	1A084-41	1A084-42
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A/U	0.32 A	ND(0.005) A/U	ND(0.005) A/U
Toluene	mg/kg	ND(0.005) A/U	0.009 A	ND(0.005) A/U	ND(0.005) A/U
Xylenes	mg/kg	ND(0.005) A/U	0.17 A	ND(0.005) A/U	ND(0.005) A/U
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A/U	63 A	ND(1) A/U	ND(1) A/U
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A/U	14 A	ND(1) A/U	ND(1) A/U
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg)
of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SP-4110-02B	SP-4110-03C	SP-4110-06F	SP-4110-07G
Sample Depth(feet):		0.00	0.00	0.00	0.00
Sample Number:		9430Z41192AF	9430Z41193AF	9430Z41194AF	9430Z41195AF
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		07/27/94	07/27/94	07/27/94	07/27/94
Lab Sample Number:		1A084-01	1A084-05	1A084-09	1A084-12
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA	NA
TPH DIESEL					
TPH-Diesel	mg/kg	24 A	ND(1) A/U	41 A	28 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	NA	NA	NA	NA
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-08	SB-4110-08	SB-4110-09	SB-4110-09
Sample Depth(feet):		30.00	40.00	30.00	40.00
Sample Number:		9450Z411009F	9450Z411010F	9450Z411011F	9450Z411012F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		12/13/94	12/13/94	12/14/94	12/14/94
Lab Sample Number:		0794210009SA	0794210010SA	0794210011SA	0794210012SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1.1) A	ND(1) A	ND(1) A	ND(1) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11) A	ND(10) A	ND(10) A	ND(10) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1.1) A	ND(1) A	ND(1) A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1.1) A	ND(1) A	ND(1) A	ND(1) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5. Analytical Results for Organic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-11	SB-4110-11	SB-4110-10	SB-4110-10
Sample Depth(feet):		30.00	40.00	25.00	35.00
Sample Number:		9450Z411013F	9450Z411014F	9504Z411062F	9504Z411063F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		12/14/94	12/14/94	01/27/95	01/27/95
Lab Sample Number:		0794210013SA	0794210014SA	0800070013SA	0800070014SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A	ND(1) A	ND(1.1) A	ND(1) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) A	ND(11) A	ND(10) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1) A	ND(1.1) A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1) A	ND(1.1) A	ND(1) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 5

Description of Organic Qualifiers Used in Database

HLA Validation Assigned Qualifiers

A : Sample has undergone routine data validation.

J+: Data are qualified as estimated, with a high bias likely to occur. False positives or false negatives are unlikely to have been reported.

J-: Data are qualified as estimated, with a low bias likely to occur. False positives or false negatives are unlikely to have been reported.

Laboratory Assigned Qualifiers

1 : Hydrocarbons present in this sample represent an unknown mixture in the diesel range. Quantification based on diesel references.

J : Result is detected below the reporting limit or is an estimated concentration.

R : Reporting limit raised due to high level of analyte present in sample.

U : Compound was analyzed for but not detected.

Table 6. Analytical Results for Inorganic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-01	SB-4110-01	SB-4110-01	SB-4110-01
Sample Depth(feet):		6.00	11.00	16.00	21.00
Sample Number:		9343C411030F	9343C411032F	9343C411033F	9343C411034F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/27/93	10/27/93	10/27/93	10/27/93
Lab Sample Number:		0723470001SA	0723470002SA	0723470003SA	0723470004SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
FUAA-EPA7421					
Lead	mg/kg	13.5 AJ+/N	1.4 AJ+/N	0.79 AJ+/N	1 AJ+/N

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Report Date: Aug 20, 1996

Table 6. Analytical Results for Inorganic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-01	SB-4110-01	SB-4110-02	SB-4110-02
Sample Depth(feet):		26.00	81.00	6.00	21.00
Sample Number:		9343C411035F	9343C411040F	9343C411042F	9343C411045F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/27/93	10/27/93	10/28/93	10/28/93
Lab Sample Number:		0723470005SA	0723470006SA	0721740008SA	0723870007SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	0.88 AJ+/N	0.74 AJ+/N	2.1 A/W	ND(0.32) A/U

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 6. Analytical Results for Inorganic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4110-02	SB-4110-02	SB-4110-03	SB-4110-03
	Sample Depth(feet):	31.00	36.00	26.00	31.00
	Sample Number:	9343C411048F	9343C411049F	9343C411055F	9343C411056F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/28/93	10/28/93	10/28/93	10/28/93
	Lab Sample Number:	0721740010SA	0721740009SA	0721740012SA	0721740013SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(1.2) AU	ND(1.2) AU	ND(1.7) AU	ND(1.2) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 6. Analytical Results for Inorganic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4110-03	SB-4110-04	SB-4110-04	SB-4110-04
	Sample Depth(feet):	41.00	11.00	26.00	31.00
	Sample Number:	9343C411058F	9343C411060F	9343C411063F	9343C411064F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/28/93	10/28/93	10/28/93	10/28/93
	Lab Sample Number:	0721740011SA	0723870006SA	0721740014SA	0721740015SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(1.1) AU	0.33 AJ+/B	ND(1.6) AU	ND(1.1) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 6. Analytical Results for Inorganic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4110-04	SB-4110-05	SB-4110-05	SB-4110-05
	Sample Depth(feet):	41.00	11.00	16.00	21.00
	Sample Number:	9343C411066F	9343C411068F	9343C411069F	9343C411070F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/28/93	10/28/93	10/28/93	10/28/93
	Lab Sample Number:	07217400168A	07217400198A	07217400188A	07217400178A
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(0.66) AU/W	12.6 A	ND(1.1) AU/W	ND(0.85) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 6. Analytical Results for Inorganic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4110-06	SB-4110-06	SB-4110-06	SB-4110-07
	Sample Depth(feet):	16.00	21.00	41.00	26.00
	Sample Number:	9343C411077F	9343C411078F	9343C411082F	9343C411087F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/29/93	10/29/93	10/29/93	10/29/93
	Lab Sample Number:	0721740020SA	0723870001SA	0723870002SA	0723870003SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
FUAA-EPA7421					
Lead	mg/kg	ND(0.74) AU	ND(0.32) A/U	0.82 AJ+	0.53 AJ+/B

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 6. Analytical Results for Inorganic Compounds Detected in Soil, Building 4110
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4110-07	SB-4110-07
Sample Depth(feet):		31.00	41.00
Sample Number:		9343C411088F	9343C411090F
Matrix:		SOIL	SOIL
Sample Date:		10/29/93	10/29/93
Lab Sample Number:		0723870004SA	0723870005SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**
FUAA-EPA7421			
Lead	mg/kg	0.39 AJ+/B	ND(0.37) A/U

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 6

Description of Inorganic Qualifiers Used in Database

HLA Validation Assigned Qualifiers

A : Sample has undergone routine data validation.

J+: Data are qualified as estimated, with a high bias likely to occur.
False positives or false negatives are unlikely to have been reported.

U : Data are qualified as nondetected, because the analyte was observed in an associated laboratory or field blank.

Laboratory Assigned Qualifiers

B : Reported value is less than the CRDL and greater than or equal to the instrument detection limit.

N : Spiked sample recovery not within control limits.

U : Compound was analyzed for but not detected.

W : Post-digestion spike for furnace AA analysis is outside of control limits.

Table 7. Analytical Results for Organic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4590-04	SB-4590-04	SB-4590-04	SB-4590-06
	Sample Depth(feet):	5.50	10.50	19.00	5.50
	Sample Number:	9341HCPT001	9341HCPT002	9341HCPT004	9342HUST006F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/12/93	10/12/93	10/12/93	10/19/93
	Lab Sample Number:	0720520001SA	0720520002SA	0720520003SA	0720520004SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
TPH DIESEL					
TPH-Extractable Unknown Hydrocarbon	mg/kg	14 A/1	ND(10) A	ND(10) A	ND(10) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg)
of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 7. Analytical Results for Organic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4590-06	SB-4590-06	SB-4590-05	SB-4590-05
Sample Depth(feet):		15.50	20.00	5.50	10.50
Sample Number:		9342HUST008F	9342HUST009F	9342HUST010F	9342HUST011F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/19/93	10/19/93	10/19/93	10/19/93
Lab Sample Number:		0720520005SA	0720520006SA	0720520007SA	0720520008SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
TPH DIESEL					
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11) A	ND(10) A	ND(10) A	ND(11) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 7. Analytical Results for Organic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4590-05	SB-4590-02	SB-4590-02	SB-4590-02
	Sample Depth(feet):	20.50	10.50	16.00	20.50
	Sample Number:	9342HUST013F	9342HUST015F	9342HUST016F	9342HUST017F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/19/93	10/19/93	10/19/93	10/19/93
	Lab Sample Number:	0720520009SA	0720520010SA	0720520011SA	0720520012SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
TPH DIESEL					
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	74 A/1	ND(10) A	ND(10) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 7. Analytical Results for Organic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4590-03	SB-4590-03	SB-4590-03	SB-4590-07
Sample Depth(feet):		5.50	15.50	25.50	30.50
Sample Number:		9342HUST018F	9342HUST020F	9342HUST022F	9342HUST026F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/19/93	10/19/93	10/19/93	10/20/93
Lab Sample Number:		07205200138A	07205200148A	07205200158A	07205200168A
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
TPH DIESEL					
TPH-Extractable Unknown Hydrocarbon	mg/kg	12 A/1	11 A/1	15 A/1	18 A/1

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 7. Analytical Results for Organic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4590-07	SB-4590-07	SB-4590-07	SB-4590-07
	Sample Depth(feet):	35.50	40.50	60.50	80.50
	Sample Number:	9342HUST027F	9342HUST028F	9342HUST029F	9342HUST030F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/20/93	10/20/93	10/20/93	10/20/93
	Lab Sample Number:	0720520017SA	0720520018SA	0720520019SA	0720520020SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
TPH DIESEL					
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) A	ND(10) A	ND(10) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 7. Analytical Results for Organic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4590-07	SB-4590-01	SB-4590-01	SB-4590-01
Sample Depth(feet):		100.50	5.50	20.50	30.50
Sample Number:		9342HUST031F	9342HUST032F	9342HUST035F	9342HUST037F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/20/93	10/20/93	10/20/93	10/20/93
Lab Sample Number:		0721740001SA	0721740002SA	0721740003SA	0721740004SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
TPH DIESEL					
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	47 A/1	ND(10) A	ND(10) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg)
of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 7. Analytical Results for Organic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4590-08	SB-4590-08	SB-4590-08
Sample Depth(feet):		5.50	15.50	25.50
Sample Number:		9342HUST040F	9342HUST042F	9342HUST044F
Matrix:		SOIL	SOIL	SOIL
Sample Date:		10/21/93	10/21/93	10/21/93
Lab Sample Number:		0721740005SA	0721740006SA	0721740007SA
Test Method/Analyte Name	Units	value qual	value qual	value qual
TPH DIESEL				
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(11) A	ND(12) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 7

Description of Organic Qualifiers Used in Database

HLA Validation Assigned Qualifiers

A : Sample has undergone routine data validation.

Laboratory Assigned Qualifiers

1 : Hydrocarbons present in this sample represent an unknown mixture in the diesel range. Quantification based on diesel references.

Table 8. Analytical Results for Inorganic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4590-04	SB-4590-04	SB-4590-04	SB-4590-06
	Sample Depth(feet):	5.50	10.50	19.00	5.50
	Sample Number:	9341HCPT001	9341HCPT002	9341HCPT004	9342HUST006F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/12/93	10/12/93	10/12/93	10/19/93
	Lab Sample Number:	0720520001SA	0720520002SA	0720520003SA	0720520004SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(2.5) AU	ND(1.2) AU	ND(0.93) AU	ND(1.4) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 8. Analytical Results for Inorganic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4590-06	SB-4590-06	SB-4590-05	SB-4590-05
	Sample Depth(feet):	15.50	20.00	5.50	10.50
	Sample Number:	9342HUST008F	9342HUST009F	9342HUST010F	9342HUST011F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/19/93	10/19/93	10/19/93	10/19/93
	Lab Sample Number:	0720520005SA	0720520006SA	0720520007SA	0720520008SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(1.2) AU	ND(0.65) AU	ND(0.75) AU	ND(1.1) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 8. Analytical Results for Inorganic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4590-05	SB-4590-02	SB-4590-02	SB-4590-02
	Sample Depth(feet):	20.50	10.50	16.00	20.50
	Sample Number:	9342HUST013F	9342HUST015F	9342HUST016F	9342HUST017F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/19/93	10/19/93	10/19/93	10/19/93
	Lab Sample Number:	0720520009SA	0720520010SA	0720520011SA	0720520012SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(0.96) AU	ND(1.7) AU	ND(0.7) AU	ND(0.84) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 8. Analytical Results for Inorganic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4590-03	SB-4590-03	SB-4590-03	SB-4590-07
	Sample Depth(feet):	5.50	15.50	25.50	30.50
	Sample Number:	9342HUST018F	9342HUST020F	9342HUST022F	9342HUST026F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/19/93	10/19/93	10/19/93	10/20/93
	Lab Sample Number:	07205200138A	07205200148A	07205200158A	07205200168A
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
FUAA-EPA7421					
Lead	mg/kg	ND(1.1) AU	ND(0.92) AU	ND(0.67) AU	ND(0.77) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 8. Analytical Results for Inorganic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-4590-07	SB-4590-07	SB-4590-07	SB-4590-07
Sample Depth(feet):		35.50	40.50	60.50	80.50
Sample Number:		9342HUST027F	9342HUST028F	9342HUST029F	9342HUST030F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		10/20/93	10/20/93	10/20/93	10/20/93
Lab Sample Number:		0720520017SA	0720520018SA	0720520019SA	0720520020SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(0.78) AU	ND(0.57) AU/B	ND(1.1) AU	ND(0.8) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 8. Analytical Results for Inorganic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SB-4590-07	SB-4590-01	SB-4590-01	SB-4590-01
	Sample Depth(feet):	100.50	5.50	20.50	30.50
	Sample Number:	9342HUST031F	9342HUST032F	9342HUST035F	9342HUST037F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	10/20/93	10/20/93	10/20/93	10/20/93
	Lab Sample Number:	0721740001SA	0721740002SA	0721740003SA	0721740004SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(1.4) AU	2.2 A	ND(1.3) AU	ND(1.4) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 8. Analytical Results for Inorganic Compounds Detected in Soil, Building 4590
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Test Method/Analyte Name	Units			
Station Number:		SB-4590-08	SB-4590-08	SB-4590-08
Sample Depth(feet):		5.50	15.50	25.50
Sample Number:		9342HUST040F	9342HUST042F	9342HUST044F
Matrix:		SOIL	SOIL	SOIL
Sample Date:		10/21/93	10/21/93	10/21/93
Lab Sample Number:		0721740005SA	0721740006SA	0721740007SA
		value qual	value qual	value qual
FUAA-EPA7421				
Lead	mg/kg	ND(1.4) AU	ND(1.7) AU	ND(1.2) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 8

Description of Inorganic Qualifiers Used in Database

HLA Validation Assigned Qualifiers

A : Sample has undergone routine data validation.

U : Data are qualified as nondetected, because the analyte was observed in an associated laboratory or field blank.

Laboratory Assigned Qualifiers

B : Reported value is less than the CRDL and greater than or equal to the instrument detection limit.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:	ES-2754-01	ES-2754-02	ES-2754-03	ES-2754-04
Sample Depth(feet):	14.00	7.00	12.00	11.00
Sample Number:	9344Z275401F	9344Z275402F	9344Z275403F	9344Z275404F
Matrix:	SOIL	SOIL	SOIL	SOIL
Sample Date:	11/02/93	11/02/93	11/02/93	11/02/93
Lab Sample Number:	0724320001SA	0724320002SA	0724320003SA	0724320004SA

Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8240					
Acetone	mg/kg	0.016 A/b	ND(0.003) AU/bJ	0.044 A/b	ND(0.004) AU/bJ
1,2-Dichloroethane	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Methyl ethyl ketone	mg/kg	ND(0.01) A	ND(0.01) A	ND(0.006) AU/J	ND(0.011) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
EPA-8020					
Ethylbenzene	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA	NA
TPH DIESEL					
TPH-Diesel	mg/kg	ND(10) A	ND(10) A	ND(19) A/r	ND(11) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) A	ND(19) A	ND(11) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1) A	ND(1.1) A	ND(1.1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1) A	ND(1.1) A	ND(1.1) A
PAH-8270					
Phenanthrene	mg/kg	ND(0.35) A	ND(0.34) A	ND(0.35) A	ND(0.35) A
Fluorene	mg/kg	ND(0.35) A	ND(0.34) A	ND(0.35) A	ND(0.35) A
Naphthalene	mg/kg	ND(0.35) A	ND(0.34) A	0.044 A/J	ND(0.35) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		ES-2754-05	ES-2754-06	ES-2754-07	ES-2754-08
Sample Depth(feet):		10.00	9.00	10.00	8.00
Sample Number:		9344Z275405F	9344Z275406F	9344Z275407F	9344Z275408F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		11/02/93	11/02/93	11/02/93	11/02/93
Lab Sample Number:		0724320005SA	0724320006SA	0724320007SA	0724320008SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8240					
Acetone	mg/kg	ND(0.055) A	ND(0.003) AU/bJ	ND(0.011) A	0.047 A/bJ
1,2-Dichloroethane	mg/kg	ND(0.027) A	ND(0.005) A	ND(0.005) A	ND(0.026) A
Methyl ethyl ketone	mg/kg	ND(0.008) AU/J	ND(0.01) A	ND(0.011) A	ND(0.053) A
Toluene	mg/kg	ND(0.027) A	ND(0.005) A	ND(0.005) A	ND(0.026) A
Ethylbenzene	mg/kg	0.088 A	ND(0.005) A	ND(0.005) A	0.023 A/J
Xylenes	mg/kg	1.6 A	ND(0.005) A	ND(0.005) A	0.49 A
EPA-8020					
Ethylbenzene	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA	NA
TPH DIESEL					
TPH-Diesel	mg/kg	ND(490) A	ND(10) A	ND(11) A	ND(190) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	11000 A/d	ND(10) A	18 A/d	5300 A/d
TPH GAS					
TPH-Gasoline	mg/kg	ND(55) A/R	ND(1) A	ND(1.1) AJ-	ND(53) A/R
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(55) A/d	ND(1) A	ND(1.1) AJ-	ND(53) A/d
PAH-8270					
Phenanthrene	mg/kg	ND(7.3) A	ND(0.35) A	ND(0.35) A	ND(6.9) A
Fluorene	mg/kg	ND(7.3) A	ND(0.35) A	ND(0.35) A	ND(6.9) A
Naphthalene	mg/kg	ND(7.3) A/j	ND(0.35) A	ND(0.35) A	1.2 A/Jj

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		ES-2754-09	ES-2754-10	ES-2754-11	ES-2754-12
Sample Depth(feet):		1.00	1.00	21.00	18.00
Sample Number:		9344Z275409F	9344Z275410F	9426Z275007F	9426Z275009F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		11/03/93	11/03/93	06/29/94	06/29/94
Lab Sample Number:		0724320009SA	0724320010SA	0765150001SA	0765150002SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8240					
Acetone	mg/kg	ND(0.007) AU/BbJ	0.086 A/b	ND(0.034) AU/Bb	0.16 A/BbR
1,2-Dichloroethane	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	0.006 A/J
Methyl ethyl ketone	mg/kg	ND(0.01) A	ND(0.013) AU	0.008 A/J	0.037 A/J
Toluene	mg/kg	ND(0.005) A	0.001 A/J	0.004 A/J	ND(0.028) A
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	0.026 A/J
Xylenes	mg/kg	ND(0.005) A	0.002 A/J	0.003 A/J	1 A
EPA-8020					
Ethylbenzene	mg/kg	NA	NA	ND(0.005) A	ND(0.17) A
Toluene	mg/kg	NA	NA	ND(0.005) A	0.15 A/J
Xylenes	mg/kg	NA	NA	ND(0.005) A	2.7 A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(10) A	ND(11) A	ND(1.1) A	15000 A/R
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(11) A	ND(11) A	ND(11000) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1.1) AJ-	ND(1.1) A	ND(28) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1.1) AJ-	1.6 AJ-/1	890 A/1
PAH-8270					
Phenanthrene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.35) A	4.9 A/J
Fluorene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.35) A	4 A/J
Naphthalene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.35) A	7.5 A/J

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	ES-2754-13	ES-2754-14	SB-2754-04	SB-2754-04
	Sample Depth(feet):	18.00	20.00	25.00	30.00
	Sample Number:	9426Z275010F	9426Z275012F	9450Z275019F	9450Z275020F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	06/29/94	06/29/94	12/16/94	12/16/94
	Lab Sample Number:	0765150003SA	0765150004SA	0794210019SA	0794210020SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8240					
Acetone	mg/kg	ND(0.01) AU/BbJ	ND(0.014) AU/Bb	0.01 A/Jb	ND(0.01) A
1,2-Dichloroethane	mg/kg	ND(0.005) A	0.003 A/J	ND(0.005) A	ND(0.005) A
Methyl ethyl ketone	mg/kg	ND(0.01) A	ND(0.011) A	ND(0.01) A	ND(0.01) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	0.001 A/J	ND(0.005) A	ND(0.005) A	ND(0.005) A
EPA-8020					
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	NA	NA
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	NA	NA
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	NA	NA
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A	ND(1.1) A	ND(1) A	ND(1) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(11) A	ND(10) A	ND(10) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1.1) A	ND(1) A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1.1) A	ND(1) A	ND(1) A
PAH-8270					
Phenanthrene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.33) A	ND(0.34) A
Fluorene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.33) A	ND(0.34) A
Naphthalene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.33) A	ND(0.34) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg)
of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-2754-04	SB-2754-03	SB-2754-03	SB-2754-03
Sample Depth(feet):		40.00	25.00	30.00	50.00
Sample Number:		9450Z275021F	9450Z275022F	9450Z275023F	9450Z275024F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		12/16/94	12/16/94	12/16/94	12/16/94
Lab Sample Number:		0794290001SA	0794290002SA	0794290003SA	0794290004SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8240					
Acetone	mg/kg	ND(0.01) A	0.008 A/Jb	0.007 A/Jb	0.002 A/Jb
1,2-Dichloroethane	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Methyl ethyl ketone	mg/kg	ND(0.01) A	ND(0.01) A	ND(0.01) A	ND(0.01) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
EPA-8020					
Ethylbenzene	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA	NA
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A	ND(1) AJ-	ND(1) A	ND(1) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) AJ-	ND(10) A	ND(10) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1) A	ND(1) A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1) A	ND(1) A	ND(1) A
PAH-8270					
Phenanthrene	mg/kg	ND(0.34) A	ND(0.34) A	ND(0.34) A	ND(0.35) A
Fluorene	mg/kg	ND(0.34) A	ND(0.34) A	ND(0.34) A	ND(0.35) A
Naphthalene	mg/kg	ND(0.34) A	ND(0.34) A	ND(0.34) A	ND(0.35) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-2754-02	SB-2754-02	SB-2754-02	SB-2754-02
Sample Depth(feet):		10.00	20.00	30.00	40.00
Sample Number:		9451Z275034F	9451Z275035F	9451Z275036F	9451Z275037F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		12/22/94	12/22/94	12/22/94	12/22/94
Lab Sample Number:		0795300005SA	0795300006SA	0795300007SA	0795300008SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8240					
Acetone	mg/kg	0.008 A/Jb	0.074 A	0.007 A/Jb	0.01 A/Jb
1,2-Dichloroethane	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Methyl ethyl ketone	mg/kg	ND(0.01) A	0.002 A/Jb	0.003 A/Jb	ND(0.01) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
EPA-8020					
Ethylbenzene	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA	NA
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A	ND(1) A	ND(1) A	ND(1) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	ND(10) A	ND(10) A	ND(10) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1) A	ND(1) A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	ND(1) A	ND(1) A	ND(1) A
PAH-8270					
Phenanthrene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.34) A	ND(0.34) A
Fluorene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.34) A	ND(0.34) A
Naphthalene	mg/kg	ND(0.34) A	ND(0.35) A	ND(0.34) A	ND(0.34) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-2754-01	SB-2754-01	SB-2754-01	SB-2754-01
Sample Depth(feet):		5.00	10.00	20.00	30.00
Sample Number:		9504Z275064F	9504Z275065F	9504Z275066F	9504Z275067F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		01/27/95	01/27/95	01/27/95	01/27/95
Lab Sample Number:		0800070015SA	0800070016SA	0800070017SA	0800070018SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8240					
Acetone	mg/kg	ND(0.011) A	ND(0.011) A	ND(0.034) AU/Bb	ND(0.011) A
1,2-Dichloroethane	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Methyl ethyl ketone	mg/kg	ND(0.011) A	ND(0.011) A	ND(0.011) A	ND(0.011) A
Toluene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Ethylbenzene	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
Xylenes	mg/kg	ND(0.005) A	ND(0.005) A	ND(0.005) A	ND(0.005) A
EPA-8020					
Ethylbenzene	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA	NA
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1.1) A	ND(1.1) A	ND(1.1) A	ND(1.1) A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(11) A	ND(11) A	ND(11) A	ND(11) A
TPH GAS					
TPH-Gasoline	mg/kg	ND(1.1) A	ND(1.1) A	ND(1.1) A	ND(1.1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1.1) A	ND(1.1) A	ND(1.1) A	ND(1.1) A
PAH-8270					
Phenanthrene	mg/kg	ND(0.36) A	ND(0.37) A	ND(0.36) A	ND(0.35) A
Fluorene	mg/kg	ND(0.36) A	ND(0.37) A	ND(0.36) A	ND(0.35) A
Naphthalene	mg/kg	ND(0.36) A	0.037 A/J	0.058 A/J	ND(0.35) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754 Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754 Former Fort Ord, California

Station Number:	SS-2754-01	ES-2754-15	ES-2754-16	ES-2754-17
Sample Depth(feet):	40.00	22.00	20.00	20.00
Sample Number:	9504Z275068F	9603H275170F	9603H275173F	9603H275174F
Matrix:	SOIL	SOIL	SOIL	SOIL
Sample Date:	01/27/95	01/17/96	01/17/96	01/17/96
Lab Sample Number:	0800070019SA	33795	33797	33798

Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8240					
Acetone	mg/kg	ND(0.01) A	NA	NA	NA
1,2-Dichloroethane	mg/kg	ND(0.005) A	NA	NA	NA
Methyl ethyl ketone	mg/kg	ND(0.01) A	NA	NA	NA
Toluene	mg/kg	ND(0.005) A	NA	NA	NA
Ethylbenzene	mg/kg	ND(0.005) A	NA	NA	NA
Xylenes	mg/kg	ND(0.005) A	NA	NA	NA
EPA-8020					
Ethylbenzene	mg/kg	NA	ND(0.021) A	ND(0.021) A	ND(0.021) A
Toluene	mg/kg	NA	ND(0.021) A	ND(0.021) A	ND(0.021) A
Xylenes	mg/kg	NA	ND(0.021) A	ND(0.021) A	ND(0.021) A
TPH DIESEL					
TPH-Diesel	mg/kg	ND(1) A	ND(1) A	2 A	4 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	ND(10) A	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	ND(1) A	ND(1.1) A	1.4 A	1.7 A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	ND(1) A	NA	NA	NA
PAH-8270					
Phenanthrene	mg/kg	ND(0.35) A	ND(0.63) A	ND(0.632) A	ND(0.628) A
Fluorene	mg/kg	ND(0.35) A	ND(0.63) A	ND(0.632) A	ND(0.628) A
Naphthalene	mg/kg	ND(0.35) A	ND(0.63) A	ND(0.632) A	ND(0.628) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SP-2754-D	SP-2754-E	ES-2754-18	ES-2754-19
	Sample Depth(feet):	0.00	0.00	21.00	21.00
	Sample Number:	9603H275175F	9603H275176F	9603H275177F	9603H275178F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	01/17/96	01/17/96	01/17/96	01/17/96
	Lab Sample Number:	33793	33794	33799	33800
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
EPA-8240					
Acetone	mg/kg	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	NA	NA	NA
Methyl ethyl ketone	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA	NA
EPA-8020					
Ethylbenzene	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A	ND(0.021) A
Toluene	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A	ND(0.021) A
Xylenes	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A	ND(0.021) A
TPH DIESEL					
TPH-Diesel	mg/kg	200 A	9 A	5 A	4 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	7.9 A	ND(1.1) A	ND(1) A	ND(1.1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
PAH-8270					
Phenanthrene	mg/kg	ND(0.626) A	ND(0.632) A	ND(0.628) A	ND(0.636) A
Fluorene	mg/kg	ND(0.626) A	ND(0.632) A	ND(0.628) A	ND(0.636) A
Naphthalene	mg/kg	ND(0.626) A	ND(0.632) A	ND(0.628) A	ND(0.636) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	ES-2754-20	SP-2754-C	SP-2754-F	SP-2754-B
	Sample Depth(feet):	22.00	0.00	0.00	0.00
	Sample Number:	9603H275182F	9603H275185F	9603H275186F	9603H275187F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	01/17/96	01/17/96	01/17/96	01/17/96
	Lab Sample Number:	33801	33803	33804	33805
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
EPA-8240					
Acetone	mg/kg	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	NA	NA	NA
Methyl ethyl ketone	mg/kg	NA	NA	NA	NA
Toluene	mg/kg	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA	NA
EPA-8020					
Ethylbenzene	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A	ND(0.021) A
Toluene	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A	ND(0.021) A
Xylenes	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A	ND(0.021) A
TPH DIESEL					
TPH-Diesel	mg/kg	3 A	20 A	20 A	9 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
TPH GAS					
TPH-Gasoline	mg/kg	2 A	ND(1) A	2.1 A	ND(1) A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA	NA
PAH-8270					
Phenanthrene	mg/kg	ND(0.636) A	ND(0.626) A	ND(0.625) A	ND(0.627) A
Fluorene	mg/kg	ND(0.636) A	ND(0.626) A	ND(0.625) A	ND(0.627) A
Naphthalene	mg/kg	ND(0.636) A	ND(0.626) A	ND(0.625) A	ND(0.627) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9. Analytical Results for Organic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	SP-2754-A	SP-2754-G	SP-2754-H
	Sample Depth(feet):	0.00	0.00	0.00
	Sample Number:	9603H275188F	9603H275189F	9603H275190F
	Matrix:	SOIL	SOIL	SOIL
	Sample Date:	01/17/96	01/17/96	01/17/96
	Lab Sample Number:	33806	33807	33808
Test Method/Analyte Name	Units	value qual	value qual	value qual
EPA-8240				
Acetone	mg/kg	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	NA	NA
Methyl ethyl ketone	mg/kg	NA	NA	NA
Toluene	mg/kg	NA	NA	NA
Ethylbenzene	mg/kg	NA	NA	NA
Xylenes	mg/kg	NA	NA	NA
EPA-8020				
Ethylbenzene	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A
Toluene	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A
Xylenes	mg/kg	ND(0.021) A	ND(0.021) A	ND(0.021) A
TPH DIESEL				
TPH-Diesel	mg/kg	10 A	30 A	200 A
TPH-Extractable Unknown Hydrocarbon	mg/kg	NA	NA	NA
TPH GAS				
TPH-Gasoline	mg/kg	ND(1) A	ND(1.1) A	9.6 A
TPH-Purgeable Unknown Hydrocarbon	mg/kg	NA	NA	NA
PAH-8270				
Phenanthrene	mg/kg	ND(0.624) A	ND(0.631) A	ND(0.637) A
Fluorene	mg/kg	ND(0.624) A	ND(0.631) A	ND(0.637) A
Naphthalene	mg/kg	ND(0.624) A	ND(0.631) A	ND(0.637) A

Notes: Units expressed as micrograms (ug), milligrams (mg) or picograms (pg) of chemical per kilogram (kg) or gram (g) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 9

Description of Organic Qualifiers Used in Database

HLA Validation Assigned Qualifiers

A : Sample has undergone routine data validation.

J-: Data are qualified as estimated, with a low bias likely to occur. False positives or false negatives are unlikely to have been reported.

N : Analytical results are for a tentatively identified compound. Reported value should not be considered a reliable indication of compound concentration.

U : Data are qualified as nondetected, because the analyte was observed in an associated laboratory or field blank.

Laboratory Assigned Qualifiers

1 : Hydrocarbons present in this sample represent an unknown mixture in the diesel range. Quantification based on diesel references.

B : Compound is also detected in the laboratory method blank.

J : Result is detected below the reporting limit or is an estimated concentration.

R : Reporting limit raised due to high level of analyte present in sample.

a : Or structurally similar compound.

b : Analytical results should not be considered reliable for this common lab contaminant, unless the sample result exceeds five times the reporting limit or ten times the blank result.

j : All reporting limits for this sample raised due to matrix interferences.

r : Reporting limit changed due to sample volume limitations.

Table 10. Analytical Results for Tentatively Identified Organic Compounds Detected in Soil Samples
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number	Sample Number	Sample Date	Test Method	Analyte	Units	Value	HLA Qual	Lab Qual
ES-2754-01	9344Z275401F	11/02/93	EPA8240	1H-indene, 2,3-dihydro-5-methyl-	mg/kg	0.01	AN	
	9344Z275401F	11/02/93	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.01	AN	
	9344Z275401F	11/02/93	PAH8270	1,3,5-Trimethylbenzene	mg/kg	0.20	AN	
	9344Z275401F	11/02/93	PAH8270	Octathiocane S8	mg/kg	0.17	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown	mg/kg	0.28	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown	mg/kg	0.69	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown	mg/kg	0.99	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown Alkane	mg/kg	0.17	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown Compound	mg/kg	1.30	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown Oxygenated Compound	mg/kg	0.16	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown alkane	mg/kg	0.40	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown alkane	mg/kg	0.86	AN	
	9344Z275401F	11/02/93	PAH8270	Unknown oxygenated compound	mg/kg	18.00	AUN	B
ES-2754-02	9344Z275402F	11/02/93	PAH8270	Unknown	mg/kg	0.17	AN	
	9344Z275402F	11/02/93	PAH8270	Unknown	mg/kg	0.77	AN	
	9344Z275402F	11/02/93	PAH8270	Unknown	mg/kg	0.85	AN	
	9344Z275402F	11/02/93	PAH8270	Unknown Alkane	mg/kg	0.31	AN	
	9344Z275402F	11/02/93	PAH8270	Unknown Compound	mg/kg	0.15	AN	
	9344Z275402F	11/02/93	PAH8270	Unknown Oxygenated Compound	mg/kg	15.00	AUN	B
ES-2754-03	9344Z275403F	11/02/93	EPA8240	1,2,3-Trimethylbenzene	mg/kg	0.02	AN	
	9344Z275403F	11/02/93	EPA8240	1,2,3-Trimethylbenzene	mg/kg	0.04	AN	
	9344Z275403F	11/02/93	EPA8240	1H-Indene, 2,3-dihydro-1-methyl-	mg/kg	0.02	AN	
	9344Z275403F	11/02/93	EPA8240	2,3-Dihydro-1-methylindene	mg/kg	0.05	AN	
	9344Z275403F	11/02/93	EPA8240	2-Propenylbenzene	mg/kg	0.02	AN	
	9344Z275403F	11/02/93	EPA8240	Benzene, 1-ethenyl-3-ethyl-	mg/kg	0.03	AN	
	9344Z275403F	11/02/93	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	mg/kg	0.03	AN	
	9344Z275403F	11/02/93	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	mg/kg	0.03	AN	
	9344Z275403F	11/02/93	EPA8240	Benzene, cyclobutyl-	mg/kg	0.02	AN	
	9344Z275403F	11/02/93	EPA8240	Benzene, methyl(1-methy-lethyl)-	mg/kg	0.03	AN	
	9344Z275403F	11/02/93	PAH8270	1,3,5-Trimethylbenzene	mg/kg	0.15	AN	a
	9344Z275403F	11/02/93	PAH8270	1,3,5-Trimethylbenzene	mg/kg	0.34	AN	a
	9344Z275403F	11/02/93	PAH8270	1H-indene, 2,3-dihydro-4-methyl-	mg/kg	0.22	AN	a
	9344Z275403F	11/02/93	PAH8270	Benzene, 1-ethenyl-2-methyl	mg/kg	0.16	AN	a
	9344Z275403F	11/02/93	PAH8270	Benzene, 1-ethenyl-4-ethyl-	mg/kg	0.17	AN	a
	9344Z275403F	11/02/93	PAH8270	Benzene, 1-methyl-3-propyl-	mg/kg	0.16	AN	a
	9344Z275403F	11/02/93	PAH8270	Benzene, 2-ethyl-1,4-dimethyl-	mg/kg	0.26	AN	a
	9344Z275403F	11/02/93	PAH8270	Octathiocane S8	mg/kg	0.19	AN	
	9344Z275403F	11/02/93	PAH8270	Unknown	mg/kg	0.16	AN	
	9344Z275403F	11/02/93	PAH8270	Unknown	mg/kg	0.22	AN	
	9344Z275403F	11/02/93	PAH8270	Unknown	mg/kg	0.51	AN	
	9344Z275403F	11/02/93	PAH8270	Unknown	mg/kg	0.53	AN	
	9344Z275403F	11/02/93	PAH8270	Unknown	mg/kg	0.65	AN	

Table 10. Analytical Results for Tentatively Identified Organic Compounds Detected in Soil Samples
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number	Sample Number	Sample Date	Test Method	Analyte	Units	Value	HLA Qual	Lab Qual
	9344Z275403F	11/02/93	PAH8270	Unknown Alkane	mg/kg	0.33	AN	
	9344Z275403F	11/02/93	PAH8270	Unknown Compound	mg/kg	0.16	AN	
	9344Z275403F	11/02/93	PAH8270	Unknown Oxygenated Compound	mg/kg	0.17	AN	
	9344Z275403F	11/02/93	PAH8270	Unknown oxygenated compound	mg/kg	0.18	AUN	B
ES-2754-04	9344Z275404F	11/02/93	PAH8270	Unknown	mg/kg	0.18	AN	
	9344Z275404F	11/02/93	PAH8270	Unknown	mg/kg	0.19	AN	
	9344Z275404F	11/02/93	PAH8270	Unknown	mg/kg	0.46	AN	
	9344Z275404F	11/02/93	PAH8270	Unknown	mg/kg	0.74	AN	
	9344Z275404F	11/02/93	PAH8270	Unknown	mg/kg	0.77	AN	
	9344Z275404F	11/02/93	PAH8270	Unknown Alkane	mg/kg	0.16	AN	
	9344Z275404F	11/02/93	PAH8270	Unknown Compound	mg/kg	0.16	AN	
	9344Z275404F	11/02/93	PAH8270	Unknown Oxygenated Compound	mg/kg	0.18	AUN	B
	9344Z275404F	11/02/93	PAH8270	Unknown oxygenated compound	mg/kg	0.22	AN	
ES-2754-05	9344Z275405F	11/02/93	EPA8240	1,2,3-Trimethylbenzene	mg/kg	3.10	AN	
	9344Z275405F	11/02/93	EPA8240	1,2,3-Trimethylbenzene	mg/kg	4.80	AN	
	9344Z275405F	11/02/93	EPA8240	1,2,3-Trimethylbenzene	mg/kg	8.60	AN	
	9344Z275405F	11/02/93	EPA8240	1-Ethyl 3-Methyl 1-Benzene	mg/kg	2.20	AN	
	9344Z275405F	11/02/93	EPA8240	Benzene, 1-ethyl-2-methyl-	mg/kg	3.00	AN	
	9344Z275405F	11/02/93	EPA8240	Undecane	mg/kg	3.30	AN	
	9344Z275405F	11/02/93	EPA8240	Unknown	mg/kg	3.30	AN	
	9344Z275405F	11/02/93	EPA8240	Unknown Alkane	mg/kg	5.10	AN	
	9344Z275405F	11/02/93	EPA8240	Unknown Compound	mg/kg	2.50	AN	
	9344Z275405F	11/02/93	EPA8240	n-Nonane	mg/kg	3.20	AN	
	9344Z275405F	11/02/93	PAH8270	3-Octadecene, (E)	mg/kg	8.00	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	5.40	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	5.40	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	5.50	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	5.60	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	5.60	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	5.70	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	5.80	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	6.20	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	6.60	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	6.70	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	6.90	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	7.60	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	7.70	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	8.40	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	8.40	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	8.90	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown	mg/kg	13.00	AN	
	9344Z275405F	11/02/93	PAH8270	Unknown Alkane	mg/kg	11.00	AN	

Table 10. Analytical Results for Tentatively Identified Organic Compounds Detected in Soil Samples
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number	Sample Number	Sample Date	Test Method	Analyte	Units	Value	HLA Qual	Lab Qual
	9344Z275405F	11/02/93	PAH8270	Unknown Compound	mg/kg	11.00	AN	
ES-2754-06	9344Z275406F	11/02/93	EPA8240	Unknown Compound	mg/kg	0.01	AN	
	9344Z275406F	11/02/93	PAH8270	Unknown	mg/kg	0.28	AN	
	9344Z275406F	11/02/93	PAH8270	Unknown	mg/kg	0.28	AN	
	9344Z275406F	11/02/93	PAH8270	Unknown Alkane	mg/kg	0.15	AN	
	9344Z275406F	11/02/93	PAH8270	Unknown Compound	mg/kg	0.16	AN	
	9344Z275406F	11/02/93	PAH8270	Unknown Oxygenated Compound	mg/kg	0.18	AUN	B
	9344Z275406F	11/02/93	PAH8270	Unknown alkane	mg/kg	0.16	AN	
ES-2754-07	9344Z275407F	11/02/93	PAH8270	2-Phenanthrenol, 4B,5,6,7,8,8A,9,1	mg/kg	0.21	AN	a
	9344Z275407F	11/02/93	PAH8270	9-Hexadecenoic acid	mg/kg	1.20	AN	
	9344Z275407F	11/02/93	PAH8270	Bicyclo[3.1.0]hex-2-ene,2-methyl-5-(1-me	mg/kg	0.27	AN	a
	9344Z275407F	11/02/93	PAH8270	Palmitic Acid	mg/kg	0.26	AN	
	9344Z275407F	11/02/93	PAH8270	Tetradecanoic acid	mg/kg	0.24	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.22	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.22	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.23	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.27	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.27	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.30	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.31	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.37	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.41	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.44	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown	mg/kg	0.86	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown Alkane	mg/kg	0.82	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown Compound	mg/kg	1.50	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown Oxygenated Compound	mg/kg	0.29	AN	
	9344Z275407F	11/02/93	PAH8270	Unknown alkane	mg/kg	0.84	AN	
ES-2754-08	9344Z275408F	11/02/93	EPA8240	1,2,4-Trimethylbenzene	mg/kg	4.50	AN	
	9344Z275408F	11/02/93	EPA8240	1,3,5-Trimethylbenzene	mg/kg	1.40	AN	
	9344Z275408F	11/02/93	EPA8240	Benzene, 1-ethyl-2-methyl-	mg/kg	1.10	AN	
	9344Z275408F	11/02/93	EPA8240	Benzene, 1-ethyl-2-methyl-	mg/kg	2.30	AN	
	9344Z275408F	11/02/93	EPA8240	Isopropylbenzene(1-Methylethylbenzene)	mg/kg	1.00	AN	
	9344Z275408F	11/02/93	EPA8240	Octane, 2,3-dimethyl	mg/kg	1.70	AN	
	9344Z275408F	11/02/93	EPA8240	Unknown	mg/kg	1.40	AN	
	9344Z275408F	11/02/93	EPA8240	Unknown Alkane	mg/kg	2.20	AN	
	9344Z275408F	11/02/93	EPA8240	Unknown Compound	mg/kg	1.20	AN	
	9344Z275408F	11/02/93	EPA8240	Unknown alkane	mg/kg	2.30	AN	
	9344Z275408F	11/02/93	PAH8270	7-Methyltridecane	mg/kg	34.00	AN	
	9344Z275408F	11/02/93	PAH8270	Dodecane	mg/kg	17.00	AN	

Table 10. Analytical Results for Tentatively Identified Organic Compounds Detected in Soil Samples
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number	Sample Number	Sample Date	Test Method	Analyte	Units	Value	HLA Qual	Lab Qual
	9344Z275408F	11/02/93	PAH8270	Dodecane,2,6,10-trimethyl- C15H32	mg/kg	29.00	AN	
	9344Z275408F	11/02/93	PAH8270	Hexadecane	mg/kg	50.00	AN	
	9344Z275408F	11/02/93	PAH8270	Octadecane C18H38	mg/kg	40.00	AN	
	9344Z275408F	11/02/93	PAH8270	Pentadecane	mg/kg	46.00	AN	
	9344Z275408F	11/02/93	PAH8270	Pentadecane,2,6,10,14-tetramethyl-C19H20	mg/kg	120.00	AN	
	9344Z275408F	11/02/93	PAH8270	Phytane	mg/kg	54.00	AN	
	9344Z275408F	11/02/93	PAH8270	Tetradecane	mg/kg	37.00	AN	
	9344Z275408F	11/02/93	PAH8270	Tridecane	mg/kg	32.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown	mg/kg	37.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown Alkane	mg/kg	16.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown Compound	mg/kg	19.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown alkane	mg/kg	17.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown alkane	mg/kg	27.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown alkane	mg/kg	37.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown alkane	mg/kg	43.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown alkane	mg/kg	47.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown alkane	mg/kg	52.00	AN	
	9344Z275408F	11/02/93	PAH8270	Unknown alkane	mg/kg	55.00	AN	
ES-2754-09	9344Z275409F	11/03/93	PAH8270	Cholest-8(14)-en-3-ol, 4-methyl-, (3.bet	mg/kg	0.18	AN	
	9344Z275409F	11/03/93	PAH8270	Octathiocane S8	mg/kg	1.10	AN	
	9344Z275409F	11/03/93	PAH8270	Unknown	mg/kg	0.90	AN	
	9344Z275409F	11/03/93	PAH8270	Unknown Compound	mg/kg	0.83	AN	
	9344Z275409F	11/03/93	PAH8270	Unknown Oxygenated Compound	mg/kg	0.22	AUN	B
	9344Z275409F	11/03/93	PAH8270	Unknown hopane	mg/kg	0.20	AN	
	9344Z275409F	11/03/93	PAH8270	Unknown lactone	mg/kg	0.17	AN	
ES-2754-10	9344Z275410F	11/03/93	EPA8240	1,2,4-Trimethylbenzene	mg/kg	0.06	AN	
	9344Z275410F	11/03/93	EPA8240	1,3,5-Trimethylbenzene	mg/kg	0.01	AN	
	9344Z275410F	11/03/93	EPA8240	2,3-Dihydro-1-methylindene	mg/kg	0.03	AN	
	9344Z275410F	11/03/93	EPA8240	Benzene, 1-ethenyl-2-methyl	mg/kg	0.03	AN	
	9344Z275410F	11/03/93	EPA8240	Benzene, 1-ethyl-2-methyl-	mg/kg	0.01	AN	
	9344Z275410F	11/03/93	EPA8240	Benzene, 1-ethyl-2-methyl-	mg/kg	0.01	AN	
	9344Z275410F	11/03/93	EPA8240	Benzene, 1-methyl-3-(1-methylethyl)-	mg/kg	0.02	AN	
	9344Z275410F	11/03/93	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	mg/kg	0.02	AN	
	9344Z275410F	11/03/93	EPA8240	Ethanone, 1-(3-methylphenyl)-	mg/kg	0.02	AN	
	9344Z275410F	11/03/93	EPA8240	Isopropylbenzene(1-Methylethylbenzene)	mg/kg	0.01	AN	
	9344Z275410F	11/03/93	PAH8270	Octathiocane S8	mg/kg	0.26	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown	mg/kg	0.15	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown	mg/kg	0.18	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown	mg/kg	0.20	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown	mg/kg	0.33	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown	mg/kg	0.48	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown	mg/kg	0.62	AN	

Table 10. Analytical Results for Tentatively Identified Organic Compounds Detected in Soil Samples
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number	Sample Number	Sample Date	Test Method	Analyte	Units	Value	HLA Qual	Lab Qual
	9344Z275410F	11/03/93	PAH8270	Unknown	mg/kg	0.85	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown	mg/kg	1.20	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown Alkane	mg/kg	0.57	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown Compound	mg/kg	1.10	AN	
	9344Z275410F	11/03/93	PAH8270	Unknown Oxygenated Compound	mg/kg	0.15	AUN	B
	9344Z275410F	11/03/93	PAH8270	Unknown oxygenated compound	mg/kg	18.00	AUN	B
ES-2754-11	9426Z275007F	06/29/94	EPA8240	1,2,4-Trimethylbenzene	mg/kg	0.11	AN	a
	9426Z275007F	06/29/94	EPA8240	1H-Indene, 2,3-dihydro-1,1-dimethyl-	mg/kg	0.08	AN	a
	9426Z275007F	06/29/94	EPA8240	1H-indene, 2,3-dihydro-5-methyl-	mg/kg	0.10	AN	a
	9426Z275007F	06/29/94	EPA8240	2,3-Dihydro-1-methylindene	mg/kg	0.32	AN	a
	9426Z275007F	06/29/94	EPA8240	Benzene, 1-methyl-3-(1-methylethyl)-	mg/kg	0.21	AN	a
	9426Z275007F	06/29/94	EPA8240	Benzene, 1-methyl-3-propyl-	mg/kg	0.08	AN	a
	9426Z275007F	06/29/94	EPA8240	Naphthalene	mg/kg	0.10	AN	
	9426Z275007F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.14	AN	
	9426Z275007F	06/29/94	PAH8270	2-Pyrrolidinone, 1-methyl-	mg/kg	0.18	AN	a
	9426Z275007F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.15	AN	
	9426Z275007F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.17	AN	
	9426Z275007F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.75	AN	
	9426Z275007F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.84	AUN	B
	9426Z275007F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.92	AUN	B
	9426Z275007F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	9.00	AUN	B
ES-2754-12	9426Z275009F	06/29/94	EPA8240	Benzene, 1-methyl-3-(1-methylethyl)-	mg/kg	5.10	AN	a
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	3.30	AN	
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	5.50	AN	
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	6.10	AN	
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	7.80	AN	
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	8.40	AN	
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	8.40	AN	
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	8.40	AN	
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	9.50	AN	
	9426Z275009F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	9.50	AN	
	9426Z275009F	06/29/94	PAH8270	Hexadecane	mg/kg	150.00	AN	
	9426Z275009F	06/29/94	PAH8270	Naphthalene,1,3-dimethyl- C12H12	mg/kg	62.00	AN	a
	9426Z275009F	06/29/94	PAH8270	Pentadecane,2,6,10,14-tetramethyl-C19H20	mg/kg	220.00	AN	a
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	33.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	36.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	37.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	41.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	42.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	44.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	46.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	47.00	AN	

Table 10. Analytical Results for Tentatively Identified Organic Compounds Detected in Soil Samples
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number	Sample Number	Sample Date	Test Method	Analyte	Units	Value	HLA Qual	Lab Qual
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	52.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	57.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	68.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	69.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	90.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	93.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	99.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	99.00	AN	
	9426Z275009F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	120.00	AN	
ES-2754-13	9426Z275010F	06/29/94	EPA8240	2,3-Dihydro-1-methylindene	mg/kg	0.39	AN	a
	9426Z275010F	06/29/94	EPA8240	2-Methylnaphthalene	mg/kg	0.28	AN	a
	9426Z275010F	06/29/94	EPA8240	Benzene, 1-ethyl-2,4-dimethyl-	mg/kg	0.23	AN	a
	9426Z275010F	06/29/94	EPA8240	Isopropylbenzene(1-Methylethylbenzene)	mg/kg	0.17	AN	a
	9426Z275010F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.31	AN	
	9426Z275010F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.33	AN	
	9426Z275010F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.33	AN	
	9426Z275010F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.46	AN	
	9426Z275010F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.58	AN	
	9426Z275010F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.80	AN	
	9426Z275010F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.17	AN	
	9426Z275010F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.22	AN	
	9426Z275010F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.23	AN	
	9426Z275010F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.27	AN	
	9426Z275010F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.29	AN	
	9426Z275010F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.50	AUN	B
	9426Z275010F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.97	AUN	B
	9426Z275010F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	11.00	AUN	B
ES-2754-14	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.11	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.13	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.15	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.17	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.20	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.22	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.23	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.29	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.44	AN	
	9426Z275012F	06/29/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.61	AN	
	9426Z275012F	06/29/94	PAH8270	Palmitic Acid	mg/kg	0.18	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.15	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.18	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.21	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.25	AN	

Table 10. Analytical Results for Tentatively Identified Organic Compounds Detected in Soil Samples
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number	Sample Number	Sample Date	Test Method	Analyte	Units	Value	HLA Qual	Lab Qual
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.26	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.29	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.34	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.44	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.45	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.68	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.72	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	1.20	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	1.50	AN	
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	0.38	AUN	B
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	1.40	AUN	B
	9426Z275012F	06/29/94	PAH8270	Unknown Tentatively Identified Compound	mg/kg	8.80	AUN	B
SB-2754-01	9504Z275066F	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1,3-dimethyl	mg/kg	0.02	AN	
	9504Z275066F	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-2-methyl-	mg/kg	0.03	AN	
	9504Z275066F	01/27/95	EPA8240	2,3-Dihydro-1-methylindene	mg/kg	0.05	AN	
	9504Z275066F	01/27/95	EPA8240	Benzene, 1,4-dimethyl-2-(1-methylethyl)	mg/kg	0.02	AN	
	9504Z275066F	01/27/95	EPA8240	Benzene, 1-methyl-2-(1-methylethyl)-	mg/kg	0.02	AN	
	9504Z275066F	01/27/95	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	mg/kg	0.02	AN	
	9504Z275066F	01/27/95	EPA8240	Benzene, methyl(1-methy-lethyl)-	mg/kg	0.01	AN	
	9504Z275066F	01/27/95	EPA8240	Isopropylbenzene(1-Methylethylbenzene)	mg/kg	0.02	AN	
	9504Z275066F	01/27/95	EPA8240	Napthalene,1,2,3,4 Tetrahydro-119642	mg/kg	0.02	AN	
	9504Z275066F	01/27/95	EPA8240	Unknown Compound	mg/kg	0.01	AN	
	9504Z275067F	01/27/95	EPA8240	1,2,3,4-Tetramethylbenzene	mg/kg	0.01	AN	
	9504Z275067F	01/27/95	EPA8240	1H-Indene, 1-methylene	mg/kg	0.01	AN	
	9504Z275067F	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1,2-dimethyl-	mg/kg	0.01	AN	
	9504Z275067F	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1,3-dimethyl	mg/kg	0.01	AN	
	9504Z275067F	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1,6-dimethyl-	mg/kg	0.01	AN	
	9504Z275067F	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1-methyl-	mg/kg	0.03	AN	
	9504Z275067F	01/27/95	EPA8240	2,3-Dihydro-1-methylindene	mg/kg	0.01	AN	
	9504Z275067F	01/27/95	EPA8240	Indene,1-ethylidene-C11H10	mg/kg	0.01	AN	
	9504Z275067F	01/27/95	EPA8240	Napthalene,1,2,3,4 Tetrahydro-119642	mg/kg	0.01	AN	
SB-2754-02	9451Z275034F	12/22/94	EPA8240	1,2,3-Trimethylbenzene	mg/kg	0.02	AN	
	9451Z275034F	12/22/94	EPA8240	1,2,4-Trimethylbenzene	mg/kg	0.01	AN	
	9451Z275034F	12/22/94	EPA8240	1H-Indene, 2,3-dihydro-1-methyl-	mg/kg	0.02	AN	
	9451Z275034F	12/22/94	EPA8240	Benzene, 1-methyl-2-(1-methylethyl)-	mg/kg	0.01	AN	
	9451Z275034F	12/22/94	EPA8240	Benzene, 1-methyl-3-(1-methylethyl)-	mg/kg	0.01	AN	
	9451Z275034F	12/22/94	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	mg/kg	0.01	AN	
	9451Z275034F	12/22/94	EPA8240	Benzene, diethyl-	mg/kg	0.01	AN	
	9451Z275034F	12/22/94	EPA8240	Benzeneacetonitrile	mg/kg	0.01	AN	
	9451Z275035F	12/22/94	EPA8240	Heptanal	mg/kg	0.01	AN	

Table 10. Analytical Results for Tentatively Identified Organic Compounds Detected in Soil Samples
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number	Sample Number	Sample Date	Test Method	Analyte	Units	Value	HLA Qual	Lab Qual
	9451Z275035F	12/22/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.01	AN	
	9451Z275035F	12/22/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.01	AN	
	9451Z275035F	12/22/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.01	AN	
	9451Z275035F	12/22/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.01	AN	
	9451Z275035F	12/22/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.05	AN	
	9451Z275036F	12/22/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.01	AN	
SB-2754-03	9450Z275023F	12/16/94	EPA8240	Benzocycloheptatriene	mg/kg	0.01	AN	
SB-2754-04	9450Z275021F	12/16/94	EPA8240	Unknown Tentatively Identified Compound	mg/kg	0.01	AN	

Table 11. Analytical Results for Inorganic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	ES-2754-01	ES-2754-02	ES-2754-03	ES-2754-04
	Sample Depth(feet):	14.00	7.00	12.00	11.00
	Sample Number:	9344Z275401F	9344Z275402F	9344Z275403F	9344Z275404F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	11/02/93	11/02/93	11/02/93	11/02/93
	Lab Sample Number:	0724320001SA	0724320002SA	0724320003SA	0724320004SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	ND(1.8) AU	ND(0.62) AU	ND(1.2) AU/W	ND(1.2) AU
METALS BY ICP					
Chromium	mg/kg	10.6 AJ/*	6.9 AJ/*	8.6 AJ/*	8.9 AJ/*
Lead	mg/kg	NA	NA	NA	NA
Nickel	mg/kg	ND(5.7) A/U	ND(5.6) A/U	ND(5.8) A/U	ND(5.7) A/U
Zinc	mg/kg	ND(4.7) AU	ND(3.7) AU/B	ND(5.9) AU	ND(6.6) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 11. Analytical Results for Inorganic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	ES-2754-05	ES-2754-06	ES-2754-07	ES-2754-08
	Sample Depth(feet):	10.00	9.00	10.00	8.00
	Sample Number:	9344Z275405F	9344Z275406F	9344Z275407F	9344Z275408F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	11/02/93	11/02/93	11/02/93	11/02/93
	Lab Sample Number:	0724320005SA	0724320006SA	0724320007SA	0724320008SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	54.4 A/S	ND(0.64) AU	ND(4.4) AU	ND(8.1) AU
METALS BY ICP					
Chromium	mg/kg	10.8 AJ/*	9.5 AJ/*	9.2 AJ/*	9.8 AJ/*
Lead	mg/kg	NA	NA	NA	NA
Nickel	mg/kg	ND(5.9) A/U	ND(5.7) A/U	ND(5.7) A/U	ND(5.7) A/U
Zinc	mg/kg	ND(6) AU	ND(6) AU	ND(8.7) AU	ND(6.8) AU

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 11. Analytical Results for Inorganic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

	Station Number:	ES-2754-09	ES-2754-10	SB-2754-04	SB-2754-04
	Sample Depth(feet):	1.00	1.00	25.00	30.00
	Sample Number:	9344Z275409F	9344Z275410F	9450Z275019F	9450Z275020F
	Matrix:	SOIL	SOIL	SOIL	SOIL
	Sample Date:	11/03/93	11/03/93	12/16/94	12/16/94
	Lab Sample Number:	0724320009SA	0724320010SA	0794210019SA	0794210020SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
FUAA-EPA7421					
Lead	mg/kg	14.5 A	ND(1) AU/W	NA	NA
METALS BY ICP					
Chromium	mg/kg	4.9 AJ/*	12 AJ/*	11.7 A	7.1 A
Lead	mg/kg	NA	NA	ND(10) A/U	ND(10.1) A/U
Nickel	mg/kg	ND(5.6) A/U	ND(5.7) A/U	15.5 A	10.4 A
Zinc	mg/kg	63.7 A	35.6 A	6.3 A	6 A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 11. Analytical Results for Inorganic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-2754-04	SB-2754-03	SB-2754-03	SB-2754-03
Sample Depth(feet):		40.00	25.00	30.00	50.00
Sample Number:		9450Z275021F	9450Z275022F	9450Z275023F	9450Z275024F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		12/16/94	12/16/94	12/16/94	12/16/94
Lab Sample Number:		0794290001SA	0794290002SA	0794290003SA	0794290004SA
Test Method/Analyte Name	**Units**	**value qual**	**value qual**	**value qual**	**value qual**
FUAA-EPA7421					
Lead	mg/kg	NA	NA	NA	NA
METALS BY ICP					
Chromium	mg/kg	7 AJ/*	11.7 AJ/*	15.6 AJ/*	8.9 AJ/*
Lead	mg/kg	ND(10.1) A/U	ND(10) A/U	ND(10.1) A/U	ND(10.2) A/U
Nickel	mg/kg	8.3 A	13.2 A	14.8 A	12.8 A
Zinc	mg/kg	6.1 A	5.4 A	5.2 A	7.1 A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 11. Analytical Results for Inorganic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:		SB-2754-02	SB-2754-02	SB-2754-02	SB-2754-02
Sample Depth(feet):		10.00	20.00	30.00	40.00
Sample Number:		9451Z275034F	9451Z275035F	9451Z275036F	9451Z275037F
Matrix:		SOIL	SOIL	SOIL	SOIL
Sample Date:		12/22/94	12/22/94	12/22/94	12/22/94
Lab Sample Number:		0795300005SA	0795300006SA	0795300007SA	0795300008SA
Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	NA	NA	NA	NA
METALS BY ICP					
Chromium	mg/kg	7.9 A	10.2 A	6.9 A	8.3 A
Lead	mg/kg	ND(10) A/U	ND(10.2) A/U	ND(10) A/U	ND(10.1) A/U
Nickel	mg/kg	4.8 A/B	9.2 A	9.3 A	12 A
Zinc	mg/kg	6.3 A	8 A	5.4 A	6.2 A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 11. Analytical Results for Inorganic Compounds Detected in Soil, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Station Number:	SB-2754-01	SB-2754-01	SB-2754-01	SB-2754-01
Sample Depth(feet):	5.00	10.00	20.00	30.00
Sample Number:	9504Z275064F	9504Z275065F	9504Z275066F	9504Z275067F
Matrix:	SOIL	SOIL	SOIL	SOIL
Sample Date:	01/27/95	01/27/95	01/27/95	01/27/95
Lab Sample Number:	0800070015SA	0800070016SA	0800070017SA	0800070018SA

Test Method/Analyte Name	Units	value qual	value qual	value qual	value qual
FUAA-EPA7421					
Lead	mg/kg	NA	NA	NA	NA
METALS BY ICP					
Chromium	mg/kg	8.4 A	9 A	9.3 A	6.8 A
Lead	mg/kg	ND(10.5) A/U	ND(10.6) A/U	ND(10.5) A/U	ND(10.5) A/U
Nickel	mg/kg	ND(4.5) A/U	ND(4.6) AU/B	ND(5.3) AU/B	ND(7.9) AU/B
Zinc	mg/kg	4.6 A	5.9 A	7.8 A	5 A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 11. Analytical Results for Inorganic Compounds Detected in Soil, Facility 2754 Site Investigation Report, Buildings 4107, 4110, and 4590, and Facility 2754 Former Fort Ord, California

Station Number:	SB-2754-01
Sample Depth(feet):	40.00
Sample Number:	9504Z275068F
Matrix:	SOIL
Sample Date:	01/27/95
Lab Sample Number:	0800070019SA

Test Method/Analyte Name	Units	value qual
FUAA-EPA7421		
Lead	mg/kg	NA
METALS BY ICP		
Chromium	mg/kg	9.5 A
Lead	mg/kg	ND(10.2) A/U
Nickel	mg/kg	ND(9.5) AU
Zinc	mg/kg	6.2 A

Notes: Units expressed as milligrams (mg) of chemical per kilogram (kg) of soil.

NA: Not Analyzed.
ND(): Not Detected at a specific reporting limit. Reporting limit is included in parentheses.

Table 11

Description of Inorganic Qualifiers Used in Database

HLA Validation Assigned Qualifiers

A : Sample has undergone routine data validation.

J : Data are qualified as estimated. It is not possible to assess the direction of the potential bias. False positives or false negatives are unlikely to have been reported.

U : Data are qualified as nondetected, because the analyte was observed in an associated laboratory or field blank.

Laboratory Assigned Qualifiers

* : Duplicate analysis not within control limits.

B : Reported value is less than the CRDL and greater than or equal to the instrument detection limit.

S : The reported value was determined by the Method of Standard Additions (MSA).

U : Compound was analyzed for but not detected.

W : Post-digestion spike for furnace AA analysis is outside of control limits.

Table 12. Preliminary Remediation Goals for Organic Compounds Detected in Soil
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Detected Chemical	PRG* (mg/kg)
Acetone	220
1,2-Dichloroethane	0.074
Methyl ethyl ketone	620
Toluene	190
Ethylbenzene	830
Xylenes	130
Phenanthrene	640
Fluorene	640
Naphthalene	640

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* Based on noncancer health effects in child resident

Source: *Draft Final Technical Memorandum, Preliminary Remediation Goals, Fort Ord, California (HLA, 1994a).*

Table 13. Engineering Cost Summary
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Alternative 1: Site Investigation without Soil Excavation/In Situ Biotreatment (Biovent and SVE)

Total Capital Cost	$	312,157
Total O&M Cost	$	162,202
Total Alternative 1 Cost	**$**	**474,359**

Alternative 2: Site Investigation with Soil Excavation/Fort Ord USRA Treatment

Total Capital Cost	$	290,544
Total O&M Cost	$	48,593
Total Alternative 2 Cost	**$**	**339,137**

Alternative 3: Site Investigation with Soil Excavation/Disposal at Class II Disposal Facility

Total Capital Cost	$	378,277
Total O&M Cost	$	0
Total Alternative 3 Cost	**$**	**378,277**

**Note: These costs are for comparison purposes only and are intended to have an estimated accuracy of only +50% to -30%.
Many design variables and permitting requirements have not been established.
Construction cost estimates will be refined after system design is complete.**

Table 13. Engineering Cost Summary
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Alternative 1
Site Investigation without Soil Excavation/In Situ Biotreatment (Biovent and SVE)

Item	Quantity	Unit	Unit Cost	Total
Capital Cost				
Site Investigation without Soil Excavation				
Mob/demobilization hollow-stem auger (HSA)	1	each	$ 650	$ 650
Building 4107				
HSA soil boring	8	each	$ 2,500	$ 20,000
HSA soil boring laboratory analyses	27	sample	$ 200	$ 5,400
Building 4110				
HSA soil boring	8	each	$ 2,500	$ 20,000
HSA soil boring laboratory analyses	27	sample	$ 200	$ 5,400
Building 4590				
HSA soil boring	8	each	$ 2,500	$ 20,000
HSA soil boring laboratory analyses	27	sample	$ 200	$ 5,400
Facility 2754				
HSA soil boring	8	each	$ 2,500	$ 20,000
HSA soil boring laboratory analyses	27	sample	$ 700	$ 18,900
One field personnel (including PPE)	12	day	$ 600	$ 7,200
Geophysical/utility clearance	4	each	$ 1,000	$ 4,000
Load and transport soil from borings from site to USRA	5	cy	$ 7	$ 35
Mobile phone	11	day	$ 20	$ 220
Field equipment	11	day	$ 350	$ 3,850
Vehicle	11	day	$ 80	$ 880
Project management	12	day	$ 300	$ 3,600
Total Site Investigation Costs				$ 135,535
In Situ Treatment (Biovent [for one system] and SVE [for two systems])				
Mob/demobilization	3	each	$ 500	$ 1,500
Install new biovent/SVE well with vault	6	each	$ 5,000	$ 30,000
Control panel and blower	3	each	$ 5,000	$ 15,000
Offgas treatment unit (two 200-lb carbon vessels)	3	each	$ 1,200	$ 3,600
Underground piping (single wall)	300	lf	$ 40	$ 12,000
Pilot test	3	each	$ 10,000	$ 30,000
System startup costs	3	each	$ 5,000	$ 15,000
Electrical service drop with meter	3	each	$ 500	$ 1,500
Install and rent temporary fence	700	lf	$ 16	$ 11,200
Project management	21	day	$ 100	$ 2,100
Biovent/SVE construction costs subtotal				$ 121,900
Biovent/SVE construction oversight (15% of construction costs total)	15%			$ 18,285
Biovent/SVE design				$ 5,000
Biovent/SVE permitting/regulatory interaction				$ 2,000
Biovent/SVE capital cost subtotal				$ 147,185
Biovent/SVE capital cost contingency (20% of capital cost subtotal)	20%			$ 29,437
Total Biovent/SVE costs				$ 176,622
Total capital cost				$ 312,157
O&M Cost				
Site Investigation without Soil Excavation				
Note: No O&M costs are associated with site characterization.				
In Situ Treatment (Biovent [for one system] and SVE [for two systems])				
Electricity for three 5-hp blowers	78,900	kWh	$ 0.12	$ 9,468
Carbon replacements	24	200 lbs	$ 700	$ 16,800
Maintenance (including sampling)	12	month	$ 6,000	$ 72,000
Maintenance - materials	3	each	$ 300	$ 900
Project management/reporting	12	month	$ 3,000	$ 36,000
Annual biovent O&M cost				$ 135,168
Total O&M cost				$ 135,168
O&M cost contingency	20%			$ 27,034
Total O&M cost				$ 162,202

Note: These costs are for comparison purposes only and are intended to have an estimated accuracy of only +50% to -30%.
Many design variables and permitting requirements have not been established.
Construction cost estimates will be refined after system design is complete.

Assumptions: Site investigation: Utility clearance = 1 day, soil borings = 2.5 per day, 10-hour workday.
Biovent/SVE: 80% runtime, transformer is available, fence is rented for 1 year.

Table 13. Engineering Cost Summary
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Alternative 2
Site Investigation with Soil Excavation/Fort Ord USRA Treatment

Item	Quantity	Unit	Unit Cost	Total ($)
Capital Cost				
Site Investigation with Soil Excavation				
Mob/demobilization (Excavation)	3	each	$ 3,240	$ 9,720
Mob/demobilization (HSA)	4	each	$ 650	$ 2,600
Geophysical/utility clearance	4	each	$ 1,000	$ 4,000
Building 4107				
Excavate and stockpile soil	550	cy	$ 7	$ 3,850
Confirmation sample	22	sample	$ 200	$ 4,400
Building 4110				
HSA soil boring	11	each	$ 2,500	$ 27,500
HSA soil boring laboratory analyses	34	sample	$ 200	$ 6,800
Excavate and stockpile soil	1,350	cy	$ 7	$ 9,450
Confirmation sample	24	sample	$ 200	$ 4,800
Building 4590				
HSA soil boring	8	each	$ 2,500	$ 20,000
HSA soil boring laboratory analyses	27	sample	$ 200	$ 5,400
Facility 2754				
HSA soil borings	4	each	$ 2,500	$ 10,000
HSA soil boring laboratory analyses	15	sample	$ 700	$ 10,500
Excavate and stockpile soil	900	cy	$ 7	$ 6,300
Confirmation sample	30	sample	$ 700	$ 21,000
Site demolition and restoration	1	each	$ 3,534	$ 3,534
One field personnel (including PPE)	59	day	$ 600	$ 35,400
Load and transport soil from borings from site to USRA	4	cy	$ 7	$ 28
Load, transport, and stockpile contaminated soil at USRA	1,450	cy	$ 7	$ 10,150
Provide clean imported soil	1,450	cy	$ 11	$ 15,950
Backfill and compact excavation area with clean soils	2,800	cy	$ 10	$ 28,000
Install and rent temporary fence	576	lf	$ 12	$ 6,912
Mobile phone	59	day	$ 20	$ 1,180
Field equipment	59	day	$ 350	$ 20,650
Vehicle	59	day	$ 80	$ 4,720
Project management	59	day	$ 300	$ 17,700
Total site investigation cost				**$ 290,544**
O&M Cost				
Site Investigation with Soil Excavation				
Note: No O&M costs are associated with excavation.				
Treatment at the Fort Ord USRA (2 batch treatments for 3 months each)				
Sampling: 1 sample/100 cy soil = 12 samples				
Weekly environmental sample	144	sample	$ 23	$ 3,240
Biweekly microbial monitoring sample	72	sample	$ 75	$ 5,400
Biweekly chemical monitoring sample	78	sample	$ 75	$ 5,850
Monthly nutrient level monitoring sample	36	sample	$ 45	$ 1,620
Confirmation sample (1 sample/100 cy soil)	13	sample	$ 288	$ 3,744
Mobile phone	24	day	$ 20	$ 480
Rental OVA	12	day	$ 100	$ 1,200
Rental sampler	24	day	$ 40	$ 960
Project management	6	month	$ 3,000	$ 18,000
Total Fort Ord USRA O&M Cost				$ 40,494
Total O&M cost				$ 40,494
O&M cost contingency	20%			$ 8,099
Total O&M cost				**$ 48,593**

Note: These costs are for comparison purposes only and are intended to have an estimated accuracy of only +50% to -30%.
Many design variables and permitting requirements have not been established.
Construction cost estimates will be refined after system design is complete.

Assumptions: Excavation: 1 QA sample every 10 samples.
USRA: Four weeks in a month, one weekly site visit for sampling, 1 QA sample every 10 samples.
No QA sample for environmental, nutrient, or microbial samples.

Table 13. Engineering Cost Summary
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Alternative 3
Site Investigation with Soil Excavation/Disposal at Class II Disposal Facility

Item	Quantity	Unit	Unit Cost	Total
Capital Cost				
Site Investigation with Soil Excavation				
Mob/demobilization (excavation)	3	each	$ 3,240	$ 9,720
Mob/demobilization (HSA)	4	each	$ 650	$ 2,600
Geophysical/utility clearance	4	each	$ 1,000	$ 4,000
Building 4107				
Excavate and stockpile soil	550	cy	$ 7	$ 3,850
Confirmation sample	22	sample	$ 200	$ 4,400
Building 4110				
HSA soil boring	11	each	$ 2,500	$ 27,500
HSA soil boring laboratory analyses	34	sample	$ 200	$ 6,800
Excavate and stockpile soil	1,350	cy	$ 7	$ 9,450
Confirmation sample	24	sample	$ 200	$ 4,800
Building 4590				
HSA soil boring	8	each	$ 2,500	$ 20,000
HSA soil boring laboratory analyses	27	sample	$ 200	$ 5,400
Facility 2754				
HSA soil borings	4	each	$ 2,500	$ 10,000
HSA soil boring laboratory analyses	15	sample	$ 700	$ 10,500
Excavate and stockpile soil	900	cy	$ 7	$ 6,300
Confirmation sample	30	sample	$ 700	$ 21,000
Site demolition and restoration	1	each	$ 3,570	$ 3,570
One field personnel (including PPE)	59	day	$ 600	$ 35,400
Purchase additional clean imported soils	1,450	cy	$ 11	$ 15,950
Backfill and compact excavation area with clean soils	2,800	cy	$ 10	$ 28,000
Install and rent temporary fence	576	lf	$ 12	$ 6,912
Mobile phone	59	day	$ 20	$ 1,180
Field equipment	59	day	$ 350	$ 20,650
Vehicle	59	day	$ 80	$ 4,720
Project management	59	day	$ 300	$ 17,700
Disposal				
Transportation and disposal of contaminated soil	1,450	cy	$ 67.50	$ 97,875
Total site investigation cost				$ 378,277
O&M Cost				
Note: O&M is not needed for this alternative				
Total O&M cost				$ 0

Note: These costs are for comparison purposes only and are intended to have an estimated accuracy of only +50% to -30%. Many design variables and permitting requirements have not been established. Construction cost estimates will be refined after system design is complete.

Assumptions: Excavation: 1 QA sample every 10 samples.

PLATES

PLATES

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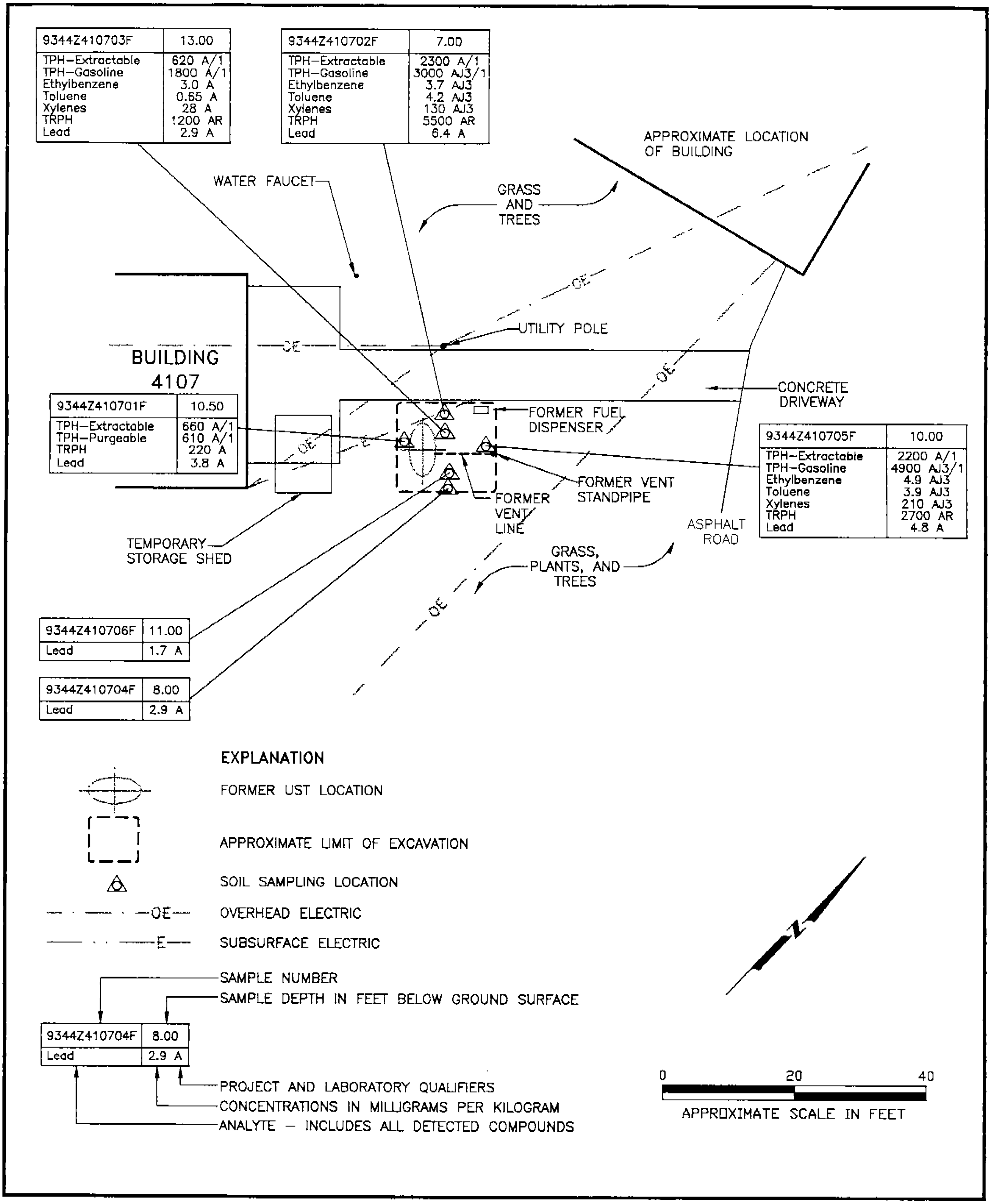
Document # BW-1682



9344Z410703F	13.00
TPH–Extractable	620 A/1
TPH–Gasoline	1800 A/1
Ethylbenzene	3.0 A
Toluene	0.65 A
Xylenes	28 A
TRPH	1200 AR
Lead	2.9 A

9344Z410702F	7.00
TPH–Extractable	2300 A/1
TPH–Gasoline	3000 AJ3/1
Ethylbenzene	3.7 AJ3
Toluene	4.2 AJ3
Xylenes	130 AJ3
TRPH	5500 AR
Lead	6.4 A

9344Z410701F	10.50
TPH–Extractable	660 A/1
TPH–Purgeable	610 A/1
TRPH	220 A
Lead	3.8 A

9344Z410705F	10.00
TPH–Extractable	2200 A/1
TPH–Gasoline	4900 AJ3/1
Ethylbenzene	4.9 AJ3
Toluene	3.9 AJ3
Xylenes	210 AJ3
TRPH	2700 AR
Lead	4.8 A

9344Z410706F	11.00
Lead	1.7 A

9344Z410704F	8.00
Lead	2.9 A

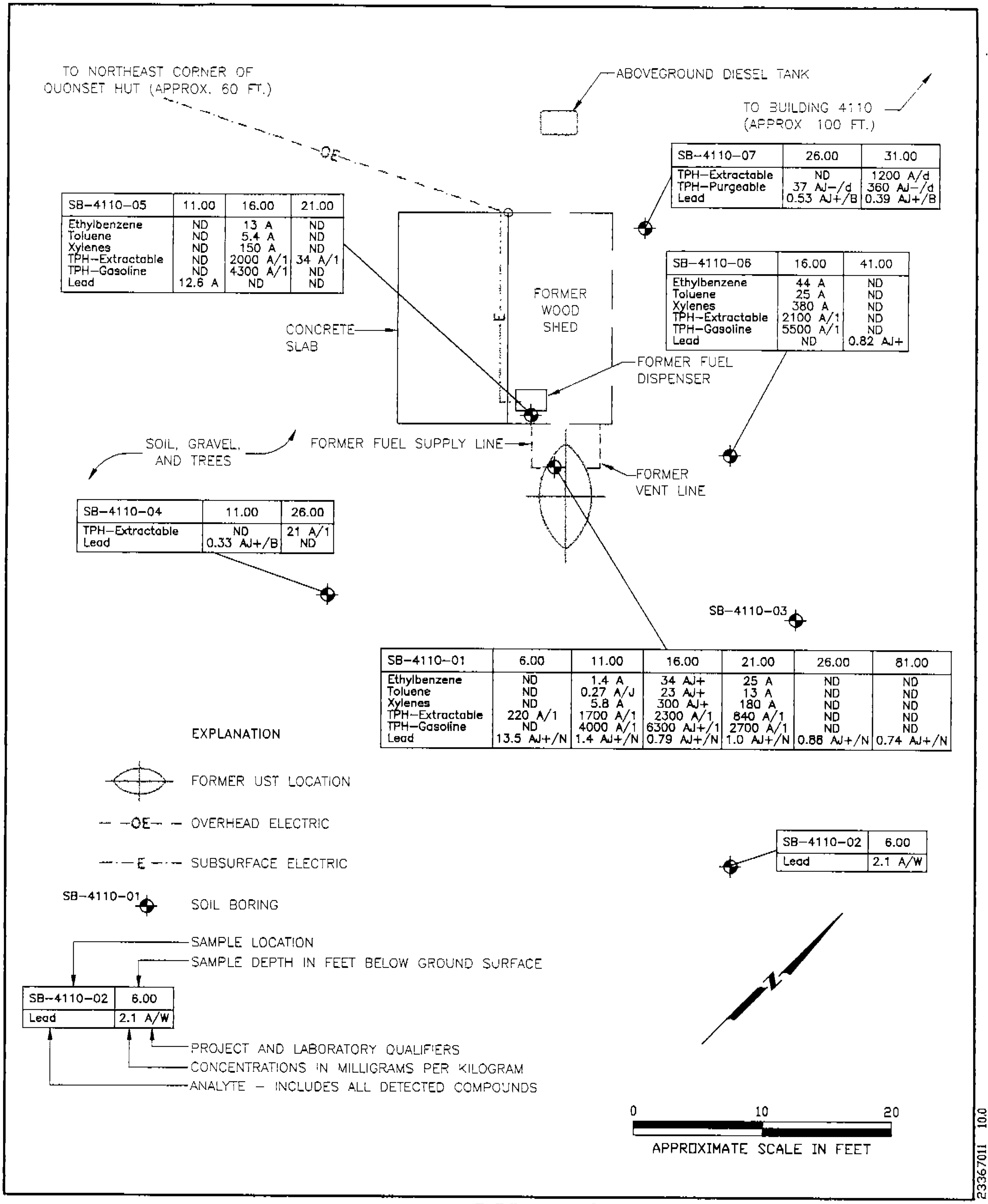
23367406 20.0
19960819.1150

Harding Lawson Associates
Engineering and
Environmental Services

Building 4107 Site Plan and
Phase 1 Soil Analytical Results
Site Investigation Report
Buildings 4107, 4110, 4590 and Facility 2754
Former Fort Ord, California

PLATE
2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DMC	23367 02671	17	9/94	5/96



SB-4110-05	11.00	16.00	21.00
Ethylbenzene	ND	13 A	ND
Toluene	ND	5.4 A	ND
Xylenes	ND	150 A	ND
TPH-Extractable	ND	2000 A/1	34 A/1
TPH-Gasoline	ND	4300 A/1	ND
Lead	12.6 A	ND	ND

SB-4110-07	26.00	31.00
TPH-Extractable	ND	1200 A/d
TPH-Purgeable	37 AJ-/d	360 AJ-/d
Lead	0.53 AJ+/B	0.39 AJ+/B

SB-4110-06	16.00	41.00
Ethylbenzene	44 A	ND
Toluene	25 A	ND
Xylenes	380 A	ND
TPH-Extractable	2100 A/1	ND
TPH-Gasoline	5500 A/1	ND
Lead	ND	0.82 AJ+

SB-4110-04	11.00	26.00
TPH-Extractable	ND	21 A/1
Lead	0.33 AJ+/B	ND

SB-4110-01	6.00	11.00	16.00	21.00	26.00	81.00
Ethylbenzene	ND	1.4 A	34 AJ+	25 A	ND	ND
Toluene	ND	0.27 A/J	23 AJ+	13 A	ND	ND
Xylenes	ND	5.8 A	300 AJ+	180 A	ND	ND
TPH-Extractable	220 A/1	1700 A/1	2300 A/1	840 A/1	ND	ND
TPH-Gasoline	ND	4000 A/1	6300 AJ+/1	2700 A/1	ND	ND
Lead	13.5 AJ+/N	1.4 AJ+/N	0.79 AJ+/N	1.0 AJ+/N	0.88 AJ+/N	0.74 AJ+/N

SB-4110-02	6.00
Lead	2.1 A/W

EXPLANATION

FORMER UST LOCATION

— —OE— — OVERHEAD ELECTRIC

—·—E—·— SUBSURFACE ELECTRIC

SB-4110-01 SOIL BORING

SAMPLE LOCATION

SAMPLE DEPTH IN FEET BELOW GROUND SURFACE

SB-4110-02	6.00
Lead	2.1 A/W

PROJECT AND LABORATORY QUALIFIERS

CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

ANALYTE – INCLUDES ALL DETECTED COMPOUNDS

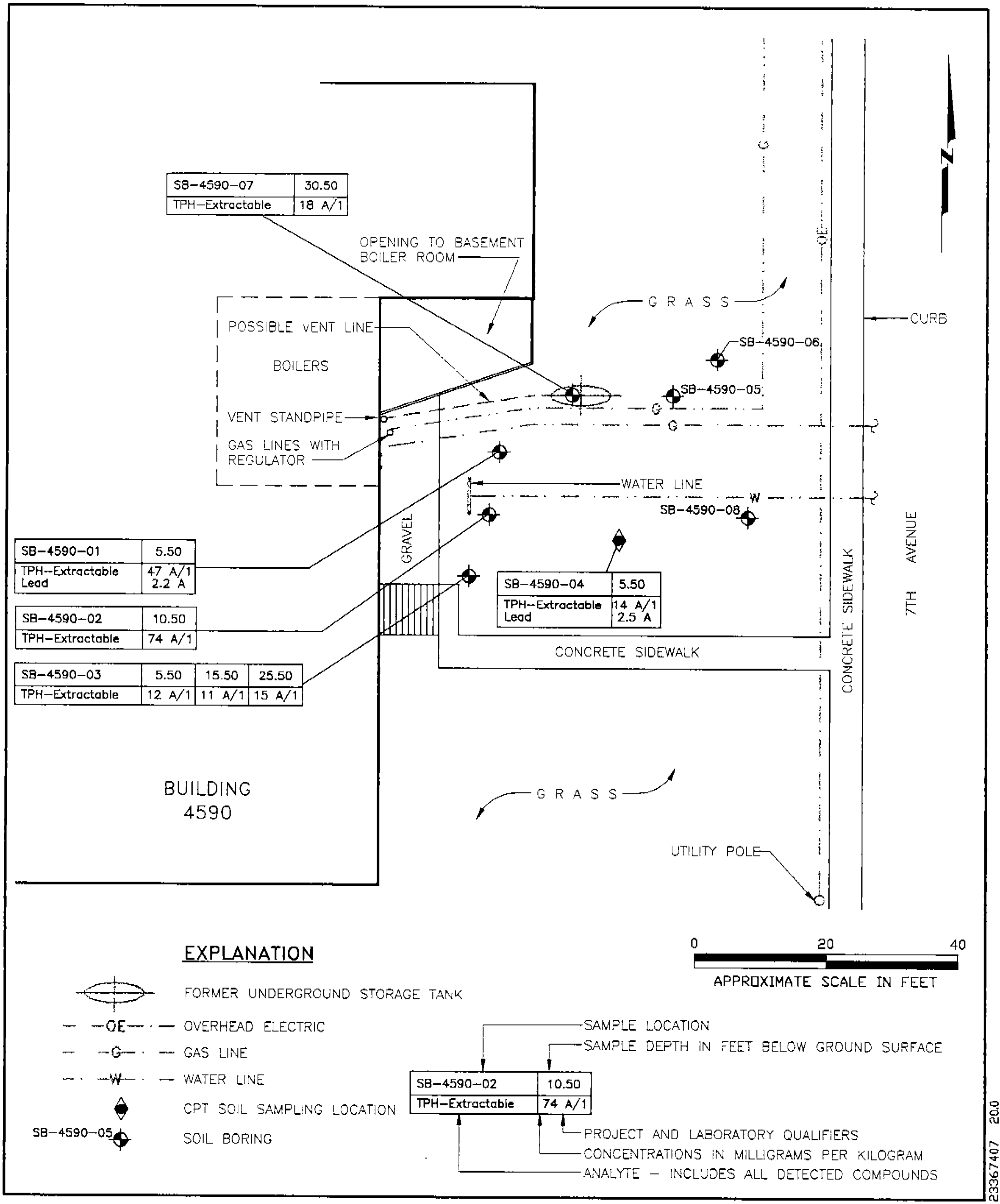
23367011 10.0
19960903.1341

Harding Lawson Associates
Engineering and
Environmental Services

Building 4110 Site Plan and
Phase 1 Soil Analytical Results
Site Investigation Report
Buildings 4107, 4110, 4590 and Facility 2754
Former Fort Ord, California

PLATE
3

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CEG	23367 02671	JZ	6/96	

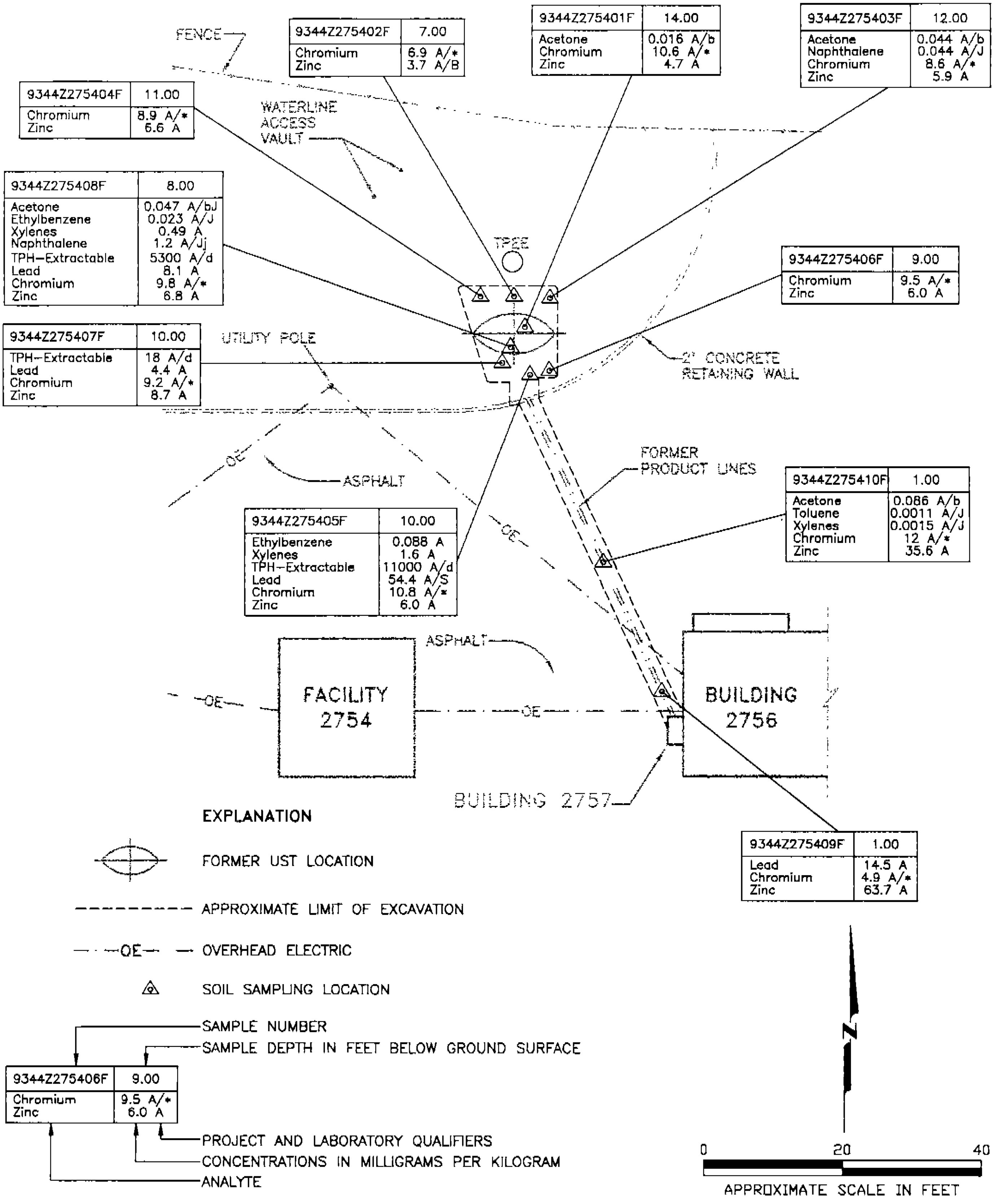


Harding Lawson Associates
Engineering and
Environmental Services

Building 4590 Site Plan and
Phase 1 Soil Analytical Results
Site Investigation Report
Buildings 4107, 4110, 4590 and Facility 2754
Former Fort Ord, California

PLATE
4

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CSN	23367 02671	JJ	1/94	11/94



9344Z275402F	7.00
Chromium	6.9 A/*
Zinc	3.7 A/B

9344Z275401F	14.00
Acetone	0.016 A/b
Chromium	10.6 A/*
Zinc	4.7 A

9344Z275403F	12.00
Acetone	0.044 A/b
Naphthalene	0.044 A/J
Chromium	8.6 A/*
Zinc	5.9 A

9344Z275404F	11.00
Chromium	8.9 A/*
Zinc	6.6 A

9344Z275408F	8.00
Acetone	0.047 A/bJ
Ethylbenzene	0.023 A/J
Xylenes	0.49 A
Naphthalene	1.2 A/Jj
TPH–Extractable	5300 A/d
Lead	8.1 A
Chromium	9.8 A/*
Zinc	6.8 A

9344Z275406F	9.00
Chromium	9.5 A/*
Zinc	6.0 A

9344Z275407F	10.00
TPH–Extractable	18 A/d
Lead	4.4 A
Chromium	9.2 A/*
Zinc	8.7 A

9344Z275410F	1.00
Acetone	0.086 A/b
Toluene	0.0011 A/J
Xylenes	0.0015 A/J
Chromium	12 A/*
Zinc	35.6 A

9344Z275405F	10.00
Ethylbenzene	0.088 A
Xylenes	1.6 A
TPH–Extractable	11000 A/d
Lead	54.4 A/S
Chromium	10.8 A/*
Zinc	6.0 A

9344Z275409F	1.00
Lead	14.5 A
Chromium	4.9 A/*
Zinc	63.7 A

EXPLANATION

FORMER UST LOCATION

APPROXIMATE LIMIT OF EXCAVATION

—OE— OVERHEAD ELECTRIC

SOIL SAMPLING LOCATION

SAMPLE NUMBER

SAMPLE DEPTH IN FEET BELOW GROUND SURFACE

9344Z275406F	9.00
Chromium	9.5 A/*
Zinc	6.0 A

PROJECT AND LABORATORY QUALIFIERS

CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

ANALYTE

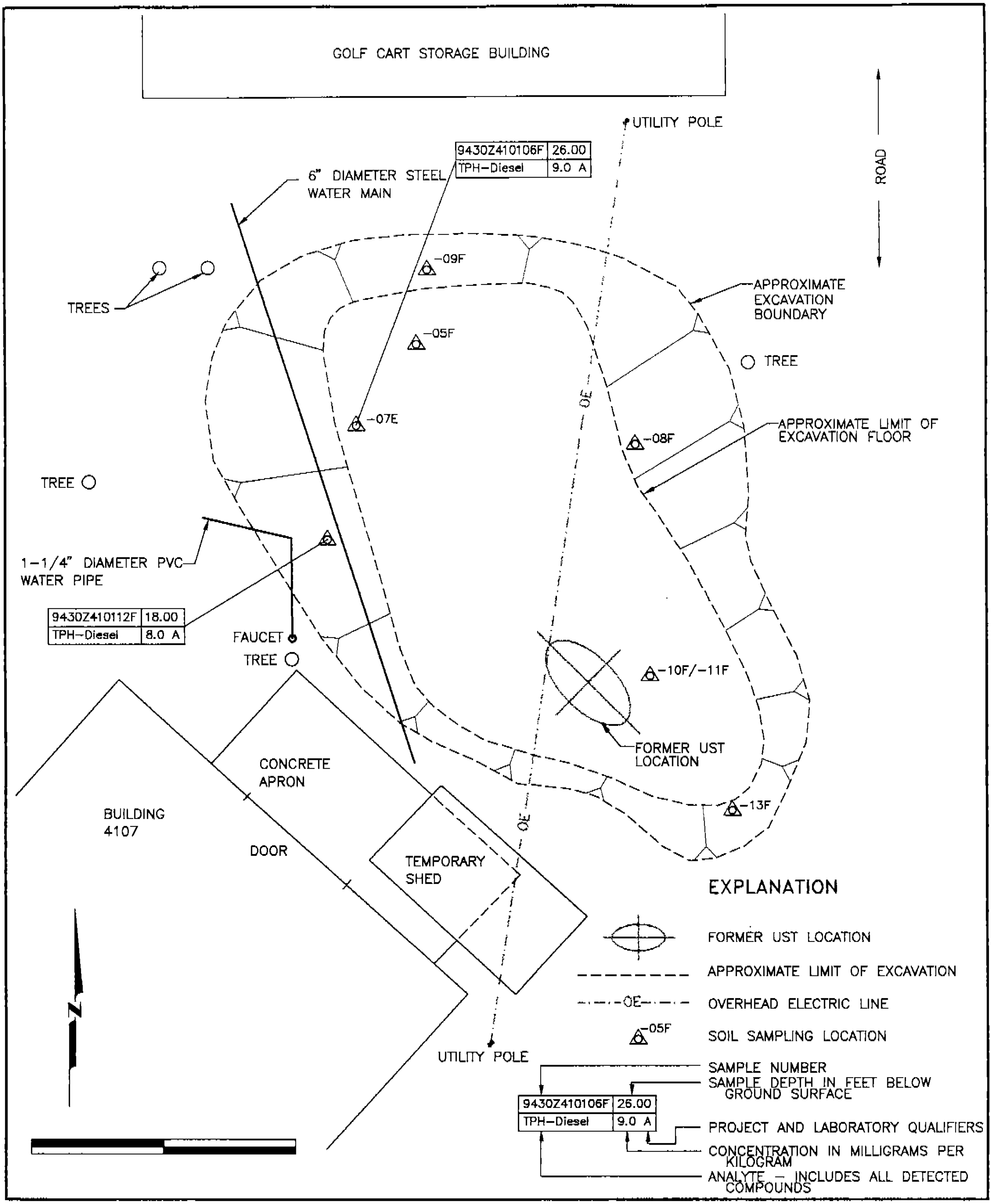
23367408 20.0
19960819.1336

Harding Lawson Associates
Engineering and
Environmental Services

Facility 2754 Site Plan and
Phase 1 Soil Analytical Results
Site Investigation Report
Buildings 4107, 4110, 4590 and Facility 2754
Former Fort Ord, California

PLATE
5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CEG	23367 02671	J7	3/96	



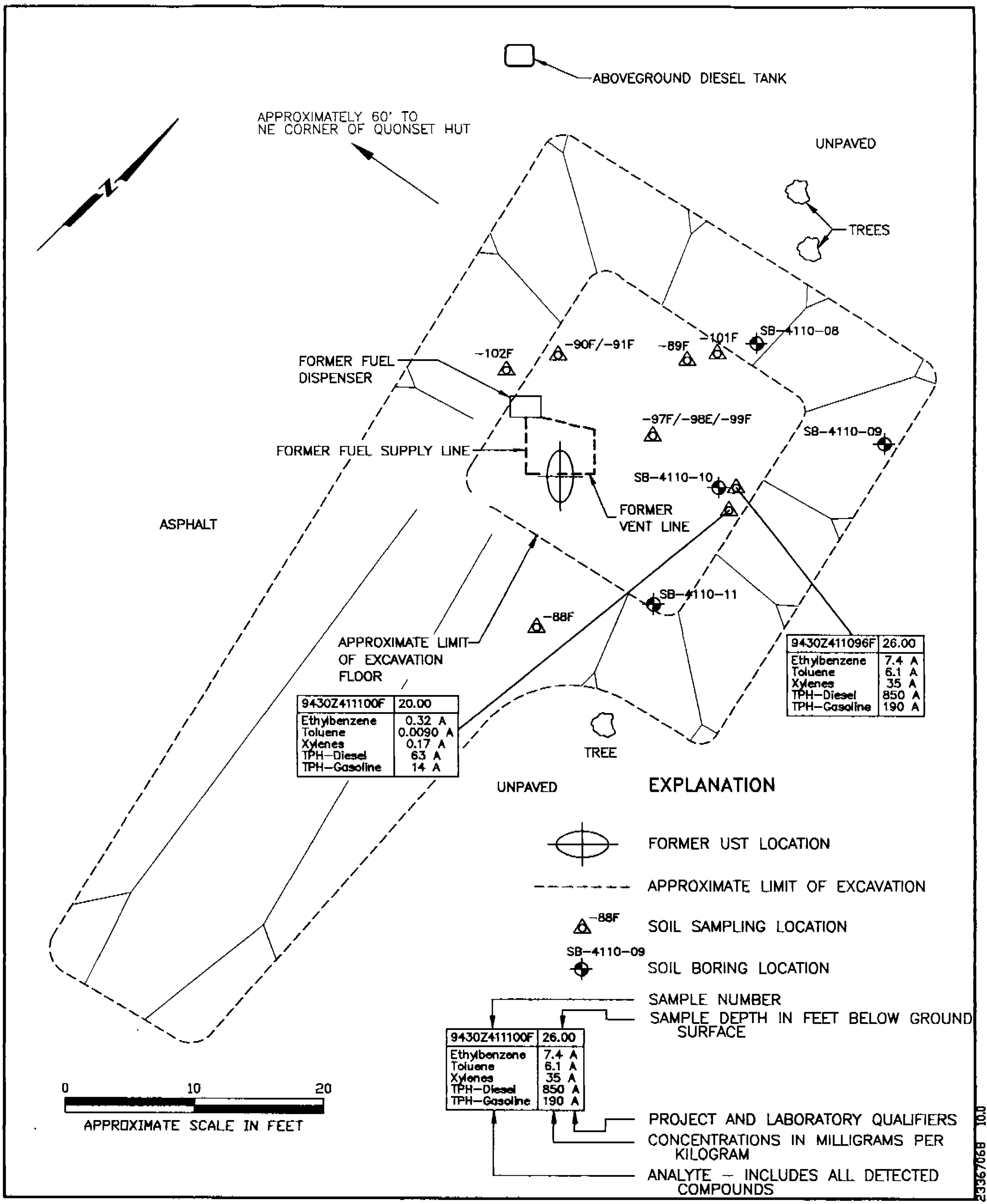
23367070 10.0
19960819.1343

Harding Lawson Associates
Engineering and
Environmental Services

Building 4107 Site Plan and
Phase 2 Soil Analytical Results
Site Investigation Report
Buildings 4107, 4110, 4590 and Facility 2754
Former Fort Ord, California

PLATE
6

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
DMC	23367 02671	J7	6/96	



9430Z411096F	26.00
Ethylbenzene	7.4 A
Toluene	6.1 A
Xylenes	35 A
TPH–Diesel	850 A
TPH–Gasoline	190 A

9430Z411100F	20.00
Ethylbenzene	0.32 A
Toluene	0.0090 A
Xylenes	0.17 A
TPH–Diesel	63 A
TPH–Gasoline	14 A

9430Z411100F	26.00
Ethylbenzene	7.4 A
Toluene	6.1 A
Xylenes	35 A
TPH–Diesel	850 A
TPH–Gasoline	190 A

2336706B 10.0
19960903.1343

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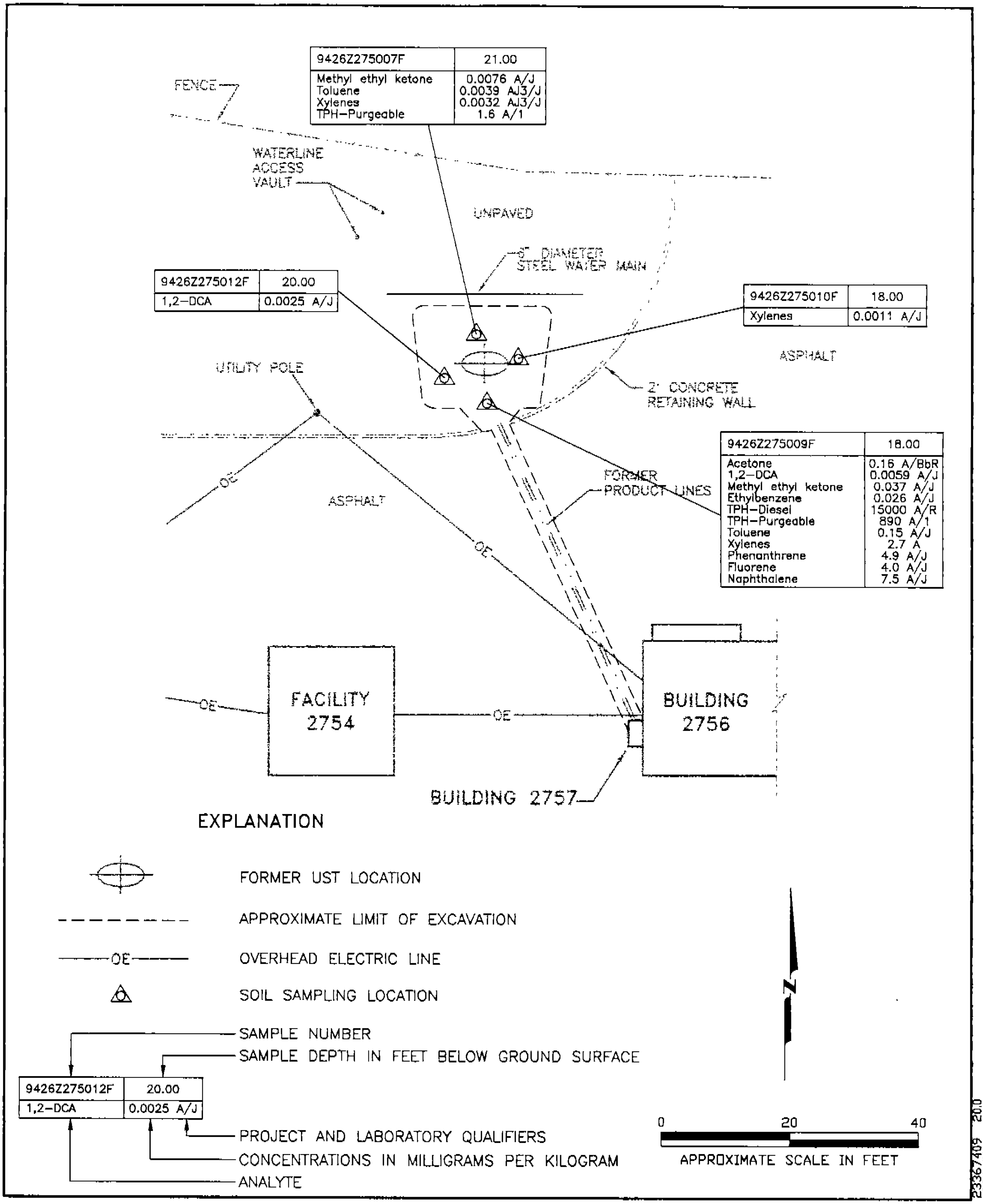
Environmental Services

Building 4110 Site Plan and
Phase 2 Soil Analytical Results
Site Investigation Report
Buildings 4107, 4110, 4590 and Facility 2754
Former Fort Ord, California

PLATE
7

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CEG	23367 02671	J7	6/96	



9426Z275007F	21.00
Methyl ethyl ketone	0.0076 A/J
Toluene	0.0039 AJ3/J
Xylenes	0.0032 AJ3/J
TPH–Purgeable	1.6 A/1

9426Z275012F	20.00
1,2–DCA	0.0025 A/J

9426Z275010F	18.00
Xylenes	0.0011 A/J

9426Z275009F	18.00
Acetone	0.16 A/BbR
1,2–DCA	0.0059 A/J
Methyl ethyl ketone	0.037 A/J
Ethylbenzene	0.026 A/J
TPH–Diesel	15000 A/R
TPH–Purgeable	890 A/1
Toluene	0.15 A/J
Xylenes	2.7 A
Phenanthrene	4.9 A/J
Fluorene	4.0 A/J
Naphthalene	7.5 A/J

9426Z275012F	20.00
1,2–DCA	0.0025 A/J

Harding Lawson Associates
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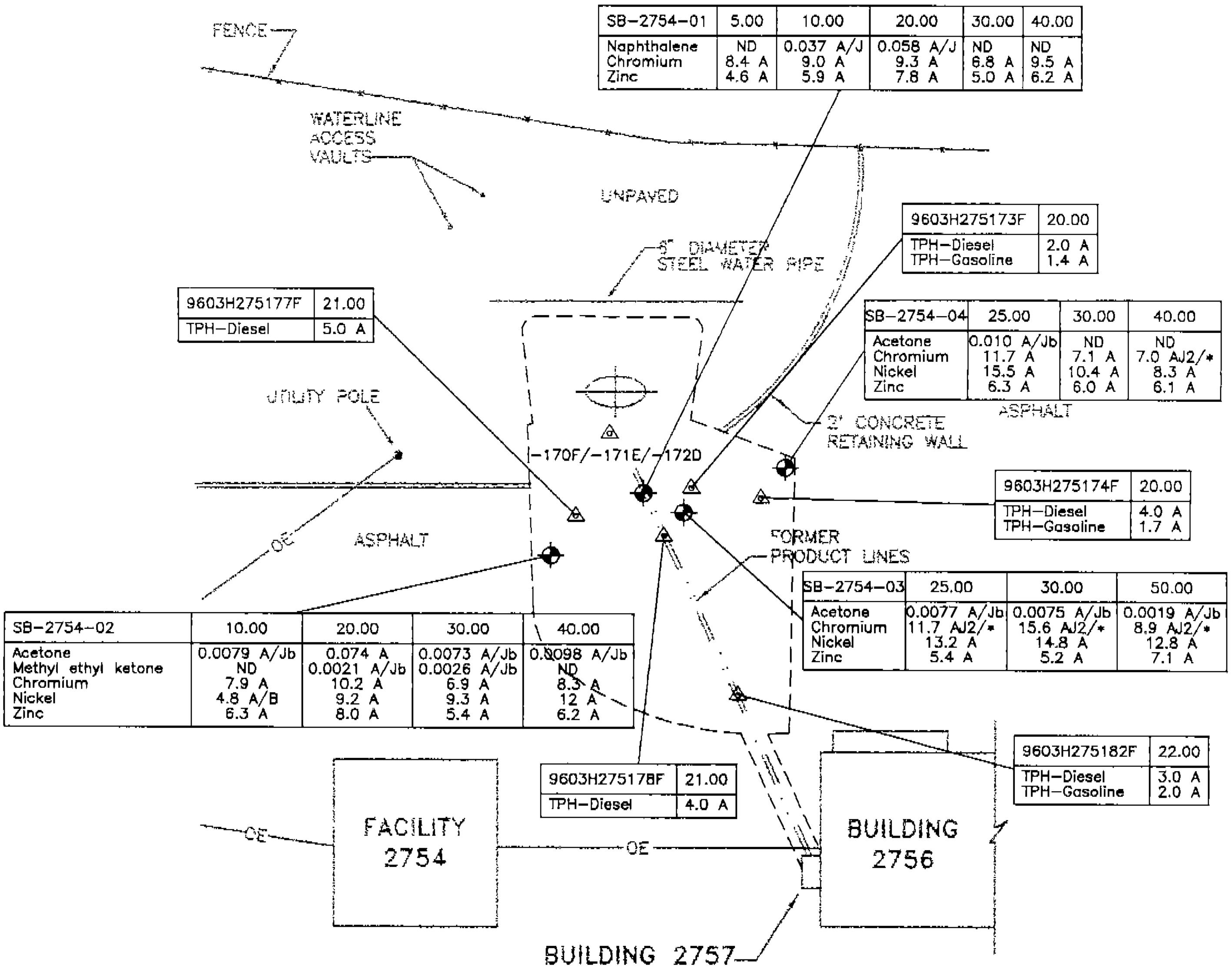
Environmental Services

Facility 2754 Site Plan and
Phase 2 Soil Analytical Results
Site Investigation Report
Buildings 4107, 4110, 4590 and Facility 2754
Former Fort Ord, California

PLATE
8

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CEG	23367 02671	JT	3/96	



SB-2754-01	5.00	10.00	20.00	30.00	40.00
Naphthalene	ND	0.037 A/J	0.058 A/J	ND	ND
Chromium	8.4 A	9.0 A	9.3 A	6.8 A	9.5 A
Zinc	4.6 A	5.9 A	7.8 A	5.0 A	6.2 A

9603H275173F	20.00
TPH-Diesel	2.0 A
TPH-Gasoline	1.4 A

9603H275177F	21.00
TPH-Diesel	5.0 A

SB-2754-04	25.00	30.00	40.00
Acetone	0.010 A/Jb	ND	ND
Chromium	11.7 A	7.1 A	7.0 AJ2/*
Nickel	15.5 A	10.4 A	8.3 A
Zinc	6.3 A	6.0 A	6.1 A

9603H275174F	20.00
TPH-Diesel	4.0 A
TPH-Gasoline	1.7 A

SB-2754-03	25.00	30.00	50.00
Acetone	0.0077 A/Jb	0.0075 A/Jb	0.0019 A/Jb
Chromium	11.7 AJ2/*	15.6 AJ2/*	8.9 AJ2/*
Nickel	13.2 A	14.8 A	12.8 A
Zinc	5.4 A	5.2 A	7.1 A

SB-2754-02	10.00	20.00	30.00	40.00
Acetone	0.0079 A/Jb	0.074 A	0.0073 A/Jb	0.0098 A/Jb
Methyl ethyl ketone	ND	0.0021 A/Jb	0.0026 A/Jb	ND
Chromium	7.9 A	10.2 A	6.9 A	8.3 A
Nickel	4.8 A/B	9.2 A	9.3 A	12 A
Zinc	6.3 A	8.0 A	5.4 A	6.2 A

9603H275178F	21.00
TPH-Diesel	4.0 A

9603H275182F	22.00
TPH-Diesel	3.0 A
TPH-Gasoline	2.0 A

EXPLANATION

⊕ FORMER UST LOCATION

– – – – – – – APPROXIMATE LIMIT OF EXCAVATION

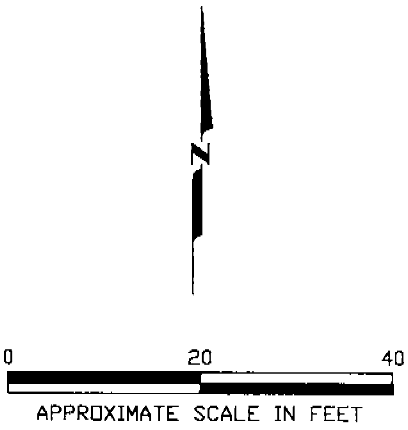
△ SOIL SAMPLING LOCATION

⊕ SOIL BORING LOCATION

——OE—— OVERHEAD ELECTRIC LINE

9603H275177F	21.00
TPH-Diesel	5.0 A

SAMPLE NUMBER
SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
PROJECT AND LABORATORY QUALIFIERS
CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM
ANALYTE



APPROXIMATE SCALE IN FEET

23367410 20.0
19960819.1409

Harding Lawson Associates
Engineering and
Environmental Services

Facility 2754 Site Plan and
Phase 3 Soil Analytical Results
Site Investigation Report
Building 4107, 4110, 4590 and Facility 2754
Former Fort Ord, California

PLATE
9

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CEG	23367 02671	JT	3/96	

APPENDIX A

APPENDIX A

CHAIN OF CUSTODY FORMS

ng Lawson Associates
7‑‑edwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1311
Lab: onsite - Fremont

Job Number: 23367 02621
Name/Location: Bldg 4107
Project Manager: Tom Williams
Samplers: Cary Bean
Recorder: (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION *				ANALYSIS REQUESTED												
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	~~TRPH~~	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	
		X		1					94	30	2410105F	94	07	29	1445	ES	4107	11	28'						X	X					X	
		X		1					94	30	2410106F	94	07	29	1500	ES	4107	~~08~~ 12	26' ~~27~~						X	X					X	
		X		1					94	30	2410108F	94	07	29	1530	ES	4107	~~09~~ 13	26' ~~?~~ JJF						X	X					X	
		X							94	30	2410109F	94	07	29	1535	ES	4107	~~10~~ 14	22' ~~20~~ 3/4/96						X	X					X	
		X							94	30	2410111F	94	07	29	1600	ES	4107	~~11~~ 15	28' ~~27~~						X	X					X	
		X							94	30	2410112F	94	07	29	1615	ES	4107	~~12~~ 16	18'						X	X					X	
		X							94	30	2410113F	94	07	29	1630	ES	4107	~~13~~ 17	18'						X	X					X	

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	NOTE THESE ARE RESAMPLES.
			7-day TAT
		110F	-Sample went to Enseco
			Note: Return all Samples to Novato/Cary Bean when Finished
		*	ES-4107-11 ES-4107-15 JJF
			ES-4107-12 ES-4107-16 J. Fenton 3-5-96
			ES-4107-13 ES-4107-17 LRH
			ES-4107-14

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Cary L. C. Date/Time 8/1/94 1130
RELINQUISHED BY: (Signature) Cary L. C.	RECEIVED BY: (Signature) Date/Time 8-1-94 1130
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time
Method of Shipment: VIA EXPRESS # H0140492 / cooler w/ice	

Laboratory Copy White Project Office Copy Yellow Field Copy Pink Office Copy Goldenrod

H g Lawson Associates
76 dwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORWORD
CHAIN OF CUSTODY FORM

Entered 8-16-94 LRH

Seq. No.: 1309

Lab: Enseco

Samplers: Cary Bean

Job Number: 23367 02621

Name/Location: Bldg 4107

Project Manager: Tom Williams

Recorder:

(Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION			
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					94	30	2410110F	94	07	29	1545	ES	4107		5.FC-28'
																ES	4107-	15	FDUP
																	per J. Fenton 3-5-96 LRH		OF -111F

ANALYSIS REQUESTED

SAMPLE	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX
94 30 2410110F						X	X					X

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			7-day TAT

Chain of Custody Record

RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Cary C. Bean Date/Time 8/1/94 1300
RELINQUISHED BY: *(Signature)* Cary C. Bean	RECEIVED BY: *(Signature)* Date/Time 8-1-94 1220
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA Express IT Courier #0104051 / cooler w/ ice

Laboratory Copy White   Project Office Copy   Field Copy   Office Copy

23368 01721

H[illegible]g Lawson Associates
76[illegible]dwood Boulevard
P.O.[illegible] 578
Novato, CA 94948
(415)892-0821

FO[illegible]ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1310
Lab: COE

Samplers: Cary Bean

Job Number: 23367 02621

Name/Location: Bldg 4107

Project Manager: Tom Williams

Recorder: (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION			
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					94	30	2410107E	94	07	29	1515	ES	4107		6,46-26'

ANALYSIS REQUESTED											
EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX
					X	X					X

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	

Chain of Custody Record

RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Cathy F. C	Date/Time 8/1/94 1390
RELINQUISHED BY: *(Signature)* Cathy F. C	RECEIVED BY: *(Signature)*	Date/Time 8-1-94 1720
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)*	Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)*	Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)*	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: VIA Express IT # H0140490 / Cooler w/Ice

Laboratory Copy White
Project Office Copy Yellow
Field Copy Pink
Office Copy Goldenrod

P.O. Box 6107
o, CA 94948
383 0112

FORT ORD
CHAIN OF CUSTODY FORM

Faxed 7-25-94 LRH

Seq. No.:

Lab: Onsite Env

Samplers: Cory Bean

Job Number: 23367 02621

Name/Location: Building 4107

Project Manager: Tom Williams

Recorder:
(Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION *: SAMP. TYPE	SITE	SEQ	DEPTH
		X							94	26	Z410001F	94	06	28	1600	ES	41	00~~1~~7	19'
		X							94	26	Z410002F	94	06	28	1610	ES	41	00~~2~~8	20'
		X							94	26	Z410003F	94	06	28	1620	ES	41	00~~3~~9	17'
		X							94	26	Z410004F	94	06	28	1630	ES	41	0~~04~~10	16'
		X							94	26	Z410005F	94	06	28	1640	ES	41	005	12' HOLD
		X							94	26	Z410006F	94	06	28	1650	ES	41	006	10' HOLD

ANALYSIS REQUESTED

SAMPLE NUMBER	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX
9426Z410001F						X	X					X
9426Z410002F						X	X					X
9426Z410003F						X	X					X
9426Z410004F						X	X					X
9426Z410005F						X	X					X
9426Z410006F						X	X					X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			HOLD 6/28 / Phoned in
94	26	Z410001F	ES-4107-07 per J. Fenton 3-5-96 LRH
↓		↓ 002F	ES-4107-08
		003F	ES-4107-09
		004F	ES-4107-10

Chain of Custody Record

RELINQUISHED BY (Signature)	RECEIVED BY (Signature) Roberto Arullo Date/Time 6/28/94 172
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY. (Signature)	RECEIVED BY. (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY. (Signature) Date/Time
RELINQUISHED BY. (Signature)	RECEIVED BY (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by. (Signature). Date/Time
Method of Shipment:	

Laboratory Copy White
Project Office Copy Yellow
Field Copy Pink
Office Copy Goldenrod

H ing Lawson Associates
7 edwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

TONY BLAKE

FOI ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00438

Lab: COE

Samplers: Craig Been

Job Number: 23367 00123

Name/Location: BJ Ring 4107 ~~SITE 12~~ DOB

Project Manager: Kent Nue

Recorder: (Signature Required)

MATRIX					#CONTAINERS & PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED														
WATER	SEDIMENT	SOIL	OIL		UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Tot. Lead	TRPH	
		X								93	44	Z41072EF	93	11	02	1210	SS	4107	2	7.0'						X	X					X	X	-	

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			14-Day TAT
			Samp 9311Z41072EF
			taken in conjunction with
			9344Z4107 02F

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Don Bache Date/Time 11/2/93 1724
RELINQUISHED BY: (Signature) Don Bache	RECEIVED BY: (Signature) R O'Connell Date/Time 11/2/93 1724
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: HLA COURIER IN COOLER W/ ICE

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Goldenrod

23366 01723

ng Lawson Associates
Redwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 17 00442
Lab: ENSECO

Samplers: Craig Bean

Job Number: 23367 06/23

Name/Location: Building 4107

Project Manager: Kent Ave

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					93	44	2410701F	93	11	01	0115	S	41	0701	10.5
		X		1					93	44	2410702F	93	11	01	0130	S	41	0702	7.0
		X		1					93	44	2410703F	93	11	01	0200	S	41	0703	13.0
		X		1					93	44	2410704F	93	11	01	0210	S	41	0704	8.0
		X		1					93	44	2410705F	93	11	01	0245	S	41	0705	10.0
		X		1					93	44	2410706F	93	11	01	0255	S	41	0706	11.0

ANALYSIS REQUESTED

SEQ	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL / Motor Oil	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead (7421)	TRPH Method 5520 E&F
2410701F						X	X					X	X	X
2410702F						X	X					X	X	X
2410703F						X	X					X	X	X
2410704F						X	X					X	X	X
2410705F						X	X					X	X	X
2410706F						X	X					X	X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			5-Day T/AT

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Don J. Beale	11/1/93 1121
RELINQUISHED BY: (Signature) Don J. Beale	RECEIVED BY: (Signature) 1450 – Louis Angel	11-1-9
RELINQUISHED BY: (Signature)	RECEIVED BY (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature).	Date/Time

Method of Shipment: HLA COURIER, IN COOLER W/ICE

Laboratory Copy White Project Office Copy Yellow Copy Pink Office Goldenrod

Harding Lawson Associates
7655 Redwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1308

Lab: Onsite - Fremont

Job Number: 23367 02621

Samplers: Cary Bean

Name/Location: Bld 4107

Project Manager: Tom Wilson

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		✓							94	30	24116AF	94	07	25	1715	①			Stkpile
		X							94	30	24116BF	94	07	25	1716				
		✓							94	30	24116CF	94	07	25	1717				
		✓							94	30	24116DF	94	07	25	1718				
		✓							94	30	24117AF	94	07	25	1750	②			
		✓							94	30	24117BF	94	07	25	1751				
		✓							94	30	24117CF	94	07	25	1752				
		✓							94	30	24117DF	94	07	25	1753				↓

ANALYSIS REQUESTED

SEQ	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX
24116AF						✓	✓					✓
24116BF						✓	✓					✓
24116CF						✓	✓					✓
24116DF						X	X					✓
24117AF						✓	✓					X
24117BF						✓	✓					✓
24117CF						✓	✓					✓
24117DF						✓	✓					✓

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ

NOTE THESE ARE RESAMPLES

REMARKS

7-Day TAT

① Composite to 1 Sample from 116AF, 116BF, 116CF, 116DF

② Composite to: 1 Sample from 117AF 117BF, 117CF, 117DF

NOTE: RETURN ALL SAMPLES TO NOVATO / Cary Bean When Finished

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Cary Bean	5/1/94 113-
Cary Bean		

Dispatched by (signature) Date/Time

Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA Express It Carrier H 0140492 / cooler w/ Ice

Laboratory Copy White   Project Office Copy   Field Copy   Office C

Harding Lawson Associates
7655 Redwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1307

Lab: Onsl - Fremont

Job Number: 23307 02621

Samplers: Cary Bean

Name/Location: Bldg 4007

Project Manager: K. Williams

Recorder: (Signature Required)

MATRIX: WATER	MATRIX: SEDIMENT	MATRIX: SOIL	MATRIX: OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX
		X							94	30	Z41114AF	94	07	29	1735				Slough						✓	✓					✓
		X							94	30	Z41114BF	94	07	29	1736	⊛									✓	✓					✓
		X							94	30	Z41114CF	94	07	29	1737										✓	✓					✓
		X							94	30	Z41111DF	94	07	29	1738										✓	✓					✓
		X							94	30	Z41115AF	94	07	29	1740										✓	✓					✓
		X							94	30	Z41115BF	94	07	29	1741	⊛									✓	✓					✓
		X							9	30	Z41115CF	94	07	29	1742										✓	✓					✓
		X							94	30	Z41115DF	94	07	29	1743				↓						✓	✓					✓

SAMPLE NUMBER OR LAB NUMBER

YR	WK	SEQ

NOTE THESE ARE RESAMPLES

REMARKS

7-day TAT

⊛ Composite: 1 sample from 114AF, 114BF, 114CF, 114DF

⊛ Composite: 1 sample from 115AF, 115BF, 115CF, 115DF

NOTE: Return All Samples to Novato / Cary Bean when finished

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Cathy F. C Date/Time 8/1/94 1130
RELINQUISHED BY: (Signature) Cathy F. C	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: via Express CO # H0140492 / Courier

Laboratory Copy White | Project Office Copy | Field Copy | Office Copy

ng Lawson Associates
1 al Drive
P.O 6107
Nov CA 94949
(415) 883-0112

FOR ORD CHAIN OF CUSTODY FORM

Entered 2-13-95 LCH

Seq. No.: 1732

Lab: Quanterra

Job Number: 23367 03821

Name/Location: BJ: Village 4110 2754

Project Manager: Tom Williams

Samplers: Bear (Cary Bean)

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL		#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION *: SAMP. TYPE	SITE	SEQ	DEPTH
		X			1					95	04	Z411062F	95	01	27	0900	SS	41	10	SB-~~3~~10 25'
		X			1					95	04	Z411063F	95	01	27	0930	SS	4[illegible]	[illegible]0	SB-~~3~~10 35'
		X			1					95	04	Z275064F	95	01	27	1110	SS	27	54	SB-1 5'
		X			1					95	04	Z275065F	95	01	27	1120	SS	27	54	SB-1 10'
		X			1					95	04	Z275066F	95	01	27	1130	SS	27	54	SB-1 20'
		X			1					95	04	Z275067F	95	01	27	1140	SS	27	54	SB-1 30'
		X			1					95	04	Z275068F	95	01	27	1150	SS	27	54	SB-1 40'

ANALYSIS REQUESTED

Sample (SEQ)	EPA 601/8010	EPA 602/8020	EPA 624/8240 / 8260	EPA 625/8270	TRPH	TPH as GASOLINE	BTEX	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions			
Z411062F						X	X	X					X		
Z411063F						X	X	X					X		
Z275064F			X			X	X	X						X	X
Z275065F			X			X	X	X						X	X
Z275066F			X			X	X	X						X	X
Z275067F			X			X	X	X						X	X
Z275068F			X			X		X						X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			14 DAY TURNAROUND
			-Results to Tom Williams
		*	SB-4110-~~05~~10 per J. Fenton 10-19-95
			SB-2754-01

Chain of Custody Record

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Cary F. C Date/Time 1/27/95 1730

RELINQUISHED BY: (Signature) Cary F. C
RECEIVED BY: (Signature) Ken Goldman Date/Time 1-27-95 1[illegible]

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Date/Time

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Date/Time

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Date/Time

Dispatched by (signature) Date/Time
Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT COURIER # A2750065/ Cooler w/ ice

Laboratory Copy White
Project Office Copy Yellow
Field Copy Pink
Office Copy Goldenrod

H   ng Lawson Associates
76   dwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORWORD Entered 1-4-95 LRH
CHAIN OF CUSTODY FORM

Seq. No.: 1304

Lab: Quanterra

Samplers: Cory Bean

Job Number: 23367, ~~02622~~ 03811

Name/Location: Building 4110

Project Manager: Tom Williams

Recorder: (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATIONS*				ANALYSIS REQUESTED													
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	[illegible]	
		X		1					94	50	Z411011F	94	12	14	0800	SS	41	10	SB-~~29~~30'						X	X					X	X	
		X		1					94	50	Z411012F	94	12	14	0830	SS	41	10	SB-~~29~~40'						X	X					X	X	
		X		1					94	50	Z411013F	94	12	14	1030	SS	41	10	SB-~~4~~ " 30'						X	X					X	X	
		X		1					94	50	Z411014F	94	12	14	1100	SS	41	10	SB~~4~~ " - 40'						X	X					X	X	
																			per J. Fenton 10-19-95 LRH														

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			Results due by 1/11/95
		*	SB-4110-029 } per J. Fenton 10-19-95 LRH per C. Bean
			SB-4110-34)

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Matt W. Wolf	12/15/94 1535
Matt W. Wolf	B. Gardner	12/15/94 1604
B. Gardner X1391		

Dispatched by (signature) Date/Time

Received for Lab by: (Signature): Date/Time

Method of Shipment: Expresit Courier # L15 40072 / Intact, ICE

Laboratory Copy White · Project Office Copy Yellow · Field Copy Pink · Office Copy Goldenrod

Ha ; Lawson Associates
7655 ; ldwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORT ORD Entered 1-4-95 LRH

CHAIN OF CUSTODY FORM

Seq. No.: 1305

Lab: Quanterra

Samplers: C Bean

Job Number: 23367 03811

Name/Location: Building 3803 Soil Borings

Project Manager: Tim Williams

Recorder:

(Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATIONS*			
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					94	SU	Z380001F	94	12	12	1100	SS	3803		SB-3 20'
		↓		1					94	SU	Z380002F	94	12	12	1200	SS	3803		SB-3 30'
		↓		1					94	SU	Z380003F	94	12	12	1300	SS	3803		SB-1 20'
		↓		1					94	SU	Z380004F	94	12	12	1500	SS	3803		SB-1 30'
		↓		1					94	SU	Z380005F	94	12	13	0800	SS	3803		SB-4 20'
		↓		1					94	SU	Z380006F	94	12	13	0830	SS	3803		SB-4 30'
		↓		1					94	SU	Z380007F	94	12	13	0930	SS	3803		SB-2 20'
		↓		1					94	SU	Z380008F	94	12	13	1000	SS	3803		SB-2 30'
		↓		1					94	SU	Z411009F	94	12	13	1400	SS	4110		SB-108 30'
		↓		1					94	SU	Z411010F	94	12	13	1430	SS	4110		SB-108 10'

ANALYSIS REQUESTED

SEQ	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	O/Scan Ucl
Z380001F						X	X					X	X
Z380002F						↓	↓					↓	↓
Z380003F						↓	↓					↓	↓
Z380004F						↓	↓					↓	↓
Z380005F						↓	↓					↓	↓
Z380006F						↓	↓					↓	↓
Z380007F						↓	↓					↓	↓
Z380008F						↓	↓					↓	↓
Z411009F						↓	↓					↓	↓
Z411010F						↓	↓					↓	↓

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	~~10 day Turnaround~~
			(Results due by 1/11/95)
		*	SB-3803-03 } per C. Bean
			SB-3803-01
			SB-3803-04
			SB-3803-02
			SB-4110-~~01~~ 08 per J. Fenton 10-19-95 LRH

Chain of Custody Record

per J. Fenton 10-19-95 LRH

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
		12/15/94 1525
	B. Gardner	12/15/94 16:40
B. Gardner X1391		

Dispatched by (signature)	Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: EXPRESS LT Courier # 4154 0071 \| IN COOLER WITH ICE

Laboratory Copy Project Office Copy Field Copy Office Copy

Hing Lawson Associates**
1 tal Drive
P.O. ox 6107
Novato, CA 94948
(415)883-0112

FO ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1289
Lab: Enseco

Job Number: 23367 02623
Samplers: Gary Bean
Name/Location: Building 4110 UST Excav.
Project Manager: Tom Williams
Recorder:
(Signature Required)

>FDUP OF 9430Z411090F per J. Fenton 6-6-96 LRH

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					94	30	Z411091F	94	07	27	1120	ES	41	10-14	W. Wall-28
		X		1					94	30	Z411098F	94	07	27	1620	ES	41	10-16	Floor -40'

FDUP OF 9430Z411097F per J. Fenton 6-6-96 LRH

per J. Fenton 3-27-96 LRH

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Organic Lead		
					X	X					X	X		
					X	X					X	X		

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			7-Day TAT

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time 7/28
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) 7/28/94 Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT COURIER G2704054 / Cooler w/ ice

H[illegible]ng Lawson Associates
1[illegible]tal Drive
P.[illegible]x 6107
Novato, CA 94948
(415)883-0112

entered 8-16-94 LRH

FO[illegible]ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1291

Lab: Onsite - Fremont

Job Number: 23367, 02623

Name/Location: Building 4110

Project Manager: Tom (Williams

Samplers: Cory Bean

Recorder: (Signature Required)

MATRIX				#CONTAINERS & PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED													
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Special Lead ⊛
		X		1					94	30	Z41108 8F	94	07	27	1330	ES	41	10-12	S. Well-18'						X	X					X	X
		X		1					94	30	Z41108 9F	94	07	27	1400	ES	41	10-13	N. Well-26'						X	X					X	X
		X		1					94	30	Z41109 6F	94	07	27	1530	ES	41	10-15	E. Well-26'						X	X					X	X
		X		1					94	30	Z41109 7F	94	07	27	1600	ES	41	10-16	Floor-40'						X	X					X	X
		X		1					94	30	Z41110 0F	94	07	27	1630	ES	41	10-17	E. Well-20'						X	X					X	X
		X		1					94	30	Z41110 1F	94	07	27	1640	ES	41	10-18	N. Well-20'						X	X					X	X
		X		1					94	30	Z41110 2F	94	07	27	1650	ES	41	10-19	W. Well-20'						X	X					X	X
		X		1					94	30	Z41109 0F	94	07	27	1415	ES	41	10-14	W. Well-28'						X	X					X	X

per J. Fenton 3-27-96 LRH

SAMPLE NUMBER OR LAB NUMBER		
YR	WK	SEQ

REMARKS

7 Day TA. Time
KEEP COLD
⊛ DO NOT DO LEAD — Please return Samples to Tom Williams in Novato to Be forwarded to other lab for lead tests

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time 7/28 1600
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) 7/28/94 17 Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT (G 2840510) / cooler w/ ice

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Goldenrod

H ng Lawson Associates
1 ital Drive
P. ox 6107
Novato, CA 94948
(415)883-0112

FO ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1290

Lab: COE

Samplers: Craig Been

Job Number: 23367 02623

Name/Location: Bldg 4110 UST Excavation

Project Manager: Tom Williams

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL		#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$		SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP TYPE	SITE	SEQ	DEPTH
		X			1						94	30	Z411098E	94	07	27	1610	ES	4110		Floor-40'

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	O&G		
					X	X					X	X		

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			COE Sacramento Contact is Dan McMindes

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Craig E.	7/28/94 1600
Craig E.	R. O.	7/28/94

Dispatched by (signature)	Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: VIA EXPRESS IT #G2840501 / Cooler w/ Ice

H ng Lawson Associates
1 tal Drive
P.C. ox 6107
Novato, CA 94948
(415)883-0112

FOF. ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1151
Lab: ENSECO

Samplers: Cary Bean
Job Number: 23367 02621
Name/Location: Building 4110
Project Manager: Tom Williams
Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL		#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION *: SAMP. TYPE	SITE	SEQ	DEPTH
		X								94	25	2411026F	94	06	23	1715	ES	411	26	4

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead *	Organic	
					X	X					X	X		

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
		025F	Note: Sample collected immediately Adjacent to 025F 7 Day TURNAROUND
			* per TONY BLAKE 6-29-94 (see attached)
		*	ES-4110-26

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Cory C. C	6/29 1600
Cory C. C		6/27/94 1636

Dispatched by (signature) Date/Time

Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT COURIER # F2740059 / Cooler w/ Ice

Laboratory Copy White
Project Office Copy Yellow
Field Copy Pink
Office Copy Goldenrod

23306 01/23

H[illegible]ng Lawson Associates
1[illegible]al Drive
P[illegible]x 6107
Novato, CA 94948
(415)883-0112

F[illegible]ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1277
Lab: ENSECO/QUANTERRA

Samplers: Cary Bean
Job Number: 2336702621
Name/Location: Fort Ord Building 4110 VST
Project Manager: Tom Williams
Recorder: Cathy F. (Signature Required)

MATRIX: WATER	MATRIX: SEDIMENT	MATRIX: SOIL	MATRIX: OIL	#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	Small Tube	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	LRH **	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X							1	94	25	2411011F	F	94	06	22	0950	Stockpile		11	SP-4110-11
		X							1	↓	↓	2411012F	F	↓	↓	↓	0955			12	12
		X							1	↓	↓	2411013F	F	↓	↓	↓	1000			13	13
		X							1	94	25	2411014F	F				1005			14	14
		X		1						94	25	2411025F	F	94	06	23	1700	ES**		25	Depth 24??
																		ES-4110-11			per J. Fenton 3-27-96 LRH

ANALYSIS REQUESTED

SEQ	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	ORGANIC LEAD
2411011F													X
2411012F													X
2411013F													X
2411014F													X
2411025F													X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			Originally Tested by Onsite Mobile
			lab on COC form 00654 -
			Refer to That COC
			- All Stockpile Samples
		025F	** Sidewall Sample - was
			tested by Onsite under COC
			Form* 1149 - Refer to COC
			(025F collected Next to 026F)
		**	ADD 'F' TO SAMPLES TO INDICATE
			ENSECO/QUANTERRA ANALYSES. PER TOM HUNT

Chain of Custody Record

RELINQUISHED BY: (Signature) Cathy F.	RECEIVED BY: (Signature) Jim L[illegible] Date/Time 1521 7-25-94
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT COURIER # 62504060 / Cooler w/ Ice

Lab[illegible] Copy White Pro[illegible]ice Co[illegible] Yellow F[illegible]py Pink Office [illegible] Goldenrod 2 23

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76 dwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FO ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00656

Lab: ~~Enseco~~ ONSITE

Samplers: Bean

Job Number: 23367 02621

Name/Location: Building 4110

Project Manager: Tom Williams

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead
		X							94	25	Z411015F	94	06	22	1400	ES	41101	1AUB2- 25						X	X					X	X
		X							94	25	Z411016F	94	06	22	1145	ES	41102	4ra HOLD						X	X					X	X
		X							94	25	Z411017F	94	06	22	1130	ES	41103	39 -27						X	X					X	X
		X							94	25	Z411018F	94	06	22	1145	ES	41104	38 -28						X	X					X	X
		X							94	25	Z411019F	94	06	22	1200	ES	41105	38 -29						X	X					X	X
		X							94	25	Z411020F	94	06	22	0915	ES	41106	38 -30						X	X					X	X
		X							94	25	Z411021F	94	06	22	0200	ES	41107	32 -31						X	X					X	X
		X							94	25	Z411022F	94	06	22	0400	ES	41108	16' -32						X	X					X	X
		X							94	25	Z411023F	94	06	22	0430	ES	41109	20' -33						X	X					X	X
		X							94	25	Z411024F	94	06	22	0500	ES	41110	20' -34						X	X					X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			Note times in A.m & P.m.
			6/23 Hold # 9425Z41016F

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Cathy	6/22 17:00
RELINQUISHED BY: (Signature) Cathy	RECEIVED BY: (Signature) Roberto Arcilla	6/23 1041
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: Hand Delivered to mobile lab 6/23

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Goldenrod

H' ng Lawson Associates
1(llal Drive
P.C. .ox 6107
Novato, CA 94948
(415)883-0112

FC ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1149

Lab: ONSITE Mobile Lab

Samplers: Craig Bean

Job Number: 23367 02621

Name/Location: Building 4110

Project Manager: Tom Williams

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X							94	25	2411025F	94	06	23	1700	ES	411	~~25~~	48062-41
																		11	per J. Fenton 3-27-96 LRH

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Tot. Lead
					X	X					X	

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
		026F	Note! Sample collected immediately Adjacent to 026F

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	C. Thy	6/24 16
C. Thy	Roberto Arcilla	6/29 1500

Dispatched by (signature) Date/Time

Received for Lab by: (Signature): Date/Time

Method of Shipment:

ng Lawson Associates
tal Drive
x 6107
ovato, CA 94948
(415)883-0112

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1145

Lab: COE

Samplers: Cary Bean

b Number: 23367 02621

ime/Location: Building 4110 - Fort Ord

oject Manager: Tom Williams

Recorder: (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED												
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Organic Lead ⊕
		X							94	25	Z411014E	94	06	22	1010	CS	411	14							X	X					X	X
		X							94	25	Z411020E	94	06	22	0830	ES	411	20	38						X	X					X	X

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			COE SACRAMENTO CONTACT IS Mr. DAN MCMINDES
			⊕ Note sent via FAX 6/24/94 by AFC. Please Add organic lead Analysis to 2 samples

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time 6/22/94 /Cou
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) EXPRESS-IT GORDON MACK 704 Date/Time 6/23/94 1500
RELINQUISHED BY: (Signature) EXPRESS-IT GORDON MACK 704	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time.	Received for Lab by: (Signature): Date/Time

Method of Shipment: EXPRESS IT COURIER F2340227 / Cooler/Ice

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P.O. Box 578
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FORT ORD
CHAIN OF CUSTODY FORM

Entered 11-18-93 SEH

Seq. No.: 00393

Lab: Enseco

Samplers: WJB

Job Number: 2356F,0122

Name/Location: Fort Ord 4UCTS Building 4110

Project Manager: [illegible]

Recorder: W. Jeff Bar (Signature Required)

MATRIX					#CONTAINERS & PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED												
WATER	SEDIMENT	SOIL	OIL		UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	[illegible]
X				K	4	2	1	6		93	43	C411091B	93	10	29	1615										X	X					X	X
X								6		93	43	C411092A	93	10	29	1615										\						X	
		X			1					93	43	C411063F	93	10	28	1615	SB	41	10	B004 1615						X	X					X	X
		X			1					93	43	C411064F	93	10	28	1625	SB	41	10	B004 1625						X	X					X	X
		X			1					93	43	C411066F	93	10	28	1650	SB	41	10	B004 1650						X	X					X	X

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
93	43	C411091B	After 4110 B007 .
93	43	C411092A	" " "

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
W Jeff Bar	Dan J. Backe 11/1/93	1704
Dan J. Backe	1450 Louis Angel	11-1-93 1810

Dispatched by (signature)	Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: UEA COURIER, [illegible] 11/1 [illegible]

ing Lawson Associates
Redwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FO ORD CHAIN OF CUSTODY FORM

11 17

Seq. No.: 00427

Lab: Enseco

Samplers: WJB

Job Number: 23367,00122

Name/Location: 4 UST's building 410

Project Manager: Kent Aue

Recorder: W. Jeff [illegible] (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED												
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	total lead
		X		1					93	43	C411070F	93	10	28	1755	SB	41	10	B005 21'						X	X					X	X
		X		1					93	43	C411069F	93	10	28	1745	SB	41	10	B005 16'						X	X					X	X
		X		1					93	43	C411068F	93	10	28	1738	SB	41	10	B005 11'						X	X					X	X
		X		1					93	43	C411077F	93	10	29	1330	SB	41	10	B006 16'						X	X					X	X
		X		1					93	43	C411078F	93	10	29	1350	SB	41	10	B006 21'						X	X					X	X
		X		1					93	43	C411082F	93	10	29	1420	SB	41	10	B006 41						X	X					X	X
		X		1					93	43	C411087F	93	10	29	1505	SB	41	10	B007 26'						X	X					X	X
		X		1					93	43	C411068F	93	10	29	1510	SB	41	10	B007 31'						X	X					X	X
		X		1					93	43	C411070F	93	10	29	1527	SB	41	10	B007 40'						X	X					X	X

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	

Chain of Custody Record

RELINQUISHED BY: (Signature) W. Jeff [illegible]	RECEIVED BY: (Signature) Don J. Bucke Date/Time 11/1/93 1710
RELINQUISHED BY: (Signature) Don J. Bucke	RECEIVED BY: (Signature) EXP-17 1450 - Louis Angel Date/Time 11-1-93 1710
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA COURIER, IN COOLER WITH ICE

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edwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

TONY BLAKE

FO ORD
CHAIN OF CUSTODY FORM

17
Seq. No.: 00443
Lab: Enseco

Samplers: W. Jeff[illegible]
Job Number: ~~Fort Ord Staff~~ 23367,00122
Name/Location: Fort Ord ~~Staff~~ BMC 4 USTs 4110
Project Manager: Kent Ane
Recorder: (Signature Required)

MATRIX				#CONTAINERS & PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED														
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead		
~~X~~		X		1					93	43	C411060F	93	10	28	1555	SB	4110	B004	11.0'						X	X					X	X		
		X		1					93	43	C411045F	93	10	28	0900	SB	4110	B002	21.0'						X	X					X	X		

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
W. Jeff[illegible]	Don J. Bache	11/2/93 1645
Don J. Bache	R O'Connell	11/2/93 1745

Dispatched by (signature) Date/Time
Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA COURIER, IN COOLER W/ICE

K023066

Labor opy White
Proje Cop Yellow
Fie y Pink
ice Co Goldenrod

233

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5 Redwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00428

Lab: Enseco

Samplers: DTB, Bcd

Job Number: 23366,0122

Name/Location: Fort Ord UST's 4110

Project Manager: Kent Am

Recorder: W Jeff Race (Signature Required)

	MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME
✓			X		1					93	43	C411042F	93	10	28	0835
✓			X		1					93	43	C411049F	93	10	28	0930
✓			X		1					93	43	C411058F	93	10	28	0925
✓			X		1					93	43	C411058F	93	10	28	~~1021~~
✓			X		1					93	43	C411055F	93	10	28	1050
✓			X		1					93	43	C411056F	93	10	28	1100
																DTB

STATION: SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead
SB	411	0002	6'						X	X					✓	✓
SB	411	0002	36'						X	X					X	✓
SB	411	0002	31'						X	X					✓	✓
SB	411	0003	41'						X	X					✓	✓
SB	411	0003	26'						X	X					✓	✓
SB	411	0003	31'	X					Y	X					✓	X

ANALYSIS REQUESTED

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
~~93~~	~~43~~	~~C4110~~	~~[illegible] RUSH~~ TAT WILL
			BE REQUIRED.
			CONTACT TONY BLAKE
			AT (415) 892-0821 FOR
			TAT!

Chain of Custody Record

RELINQUISHED BY: (Signature) W Jeff Race	RECEIVED BY: (Signature) Dan J. Backe	Date/Time 10
RELINQUISHED BY: (Signature) Dan J. Back	RECEIVED BY: (Signature) 1401 10/2	Date/Time 10
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: VIA COURIER, IN COOLER W/ICE

Inv# [illegible]

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Novato, CA 94948
(415)892-0821

[illegible]RT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00425
Lab: Enseco

Samplers: WJB, BCD
Job Number: 23367,00122
Name/Location: Fort Ord 4 UST
Project Manager: Kent Aur
Recorder: W Jeffkin (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead
		X		1					93	43	C411030F	93	10	27	1000	SB	4110	1							X	X					X	X
		X		1					93	43	C411031F	93	10	27	1020	SB	4110	1							X	X					X	X
		X		1					93	43	C411033F	93	10	27	1030	SB	4110	1							X	X					X	X
		X		1					93	43	C411034F	93	10	27	1035	SB	4110	1							X	X					X	X
		X		1					93	43	C411035F	93	10	27	1045	SB	4110	1							X	X					X	X
		X		1					93	43	C411040F	93	10	27	1230	SB	4110	1							X	X					X	X
											~~41104~~																					
											~~4145~~																					

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS

Chain of Custody Record

RELINQUISHED BY: (Signature) W. Jeffkin	RECEIVED BY: (Signature) Danl. Beche Date/Time 10/27/93 15..
RELINQUISHED BY: (Signature) Danl. Beche	RECEIVED BY: (Signature) Benny D. Gardner Date/Time 10/27/93 1..
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: [illegible]

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5 Redwood Boulevard
O. Box 578
Novato, CA 94948
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FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00395

Lab: ENSECO

Samplers: Bill Feller

Job Number: 22367 00122

Name/Location: HUST

Project Manager: Kent Ave

Recorder: (Signature Required)

MATRIX						#CONTAINERS &PRESERV.						SAMPLE NUMBER OR LAB NUMBER			DATE				STATION			
	WATER	SEDIMENT	SOIL	OIL		UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$		YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
	X						2	1	6			93	42	HUST048B	93	10	21	1000	SB	41	10B	—
	X								6			93	42	HUST049A	93	10	21	1015	SB	41	10A	—
	X						2	1	6			93	42	HUST050C	93	10	21	1515	SB	45	90C	—

ANALYSIS REQUESTED

SAMPLE SEQ	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Tot. Lead		
HUST048B						X	X					X	X		
HUST049A						X						X			
HUST050C						X	X					X	X		

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			28 Day TAT
93	42	HUST048B	Rinsate
93	42	HUST049A	Trip Blank
93	42	HUST050C	Field blank

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
	Dan J. Bache 10/22/93 1400
Dan J. Bache	1401 10-25-93 071

Dispatched by (signature) Date/Time

Received for Lab by: (Signature): Date/Time

Method of Shipment: Cooler w/ Ice, HLA Courier

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Goldenrod

Tail # 7753497

Harding Lawson Associates
105 Digital Drive
P.O. Box 6107
Novato, CA 94948
(415)883-0112

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1286

Lab: OnSite (Fremont)

Job Number: 23367 02623

Name/Location: Bldg 4110

Project Manager: Tom Williams

Samplers: Cary Bro

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					94	30	241192AF	94	07	27	1130				
		X		1					94	30	241192BF	94	07	27	1131				
		X		1					94	30	241192CF	94	07	27	1432				
		X		1					94	30	241192DF	94	07	27	1133				
		X		1					94	30	241193AF	94	07	27	1135				
		X		1					94	30	241193BF	94	07	27	1136				
		X		1					94	30	241193CF	94	07	27	1137				
		X		1					94	30	241193DF	94	07	27	1138				
		X		1					94	30	241194AF	94	07	27	1140				
		X		1					94	30	241194BF	94	07	27	1141				

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL ⓧ	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX
						X					

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ

REMARKS

7-Day T.A.Time

x Composite - 92AF, 92BF, 92CF, 92DF

x Composite - 93AF, 93BF, 93CF, 93DF

x Composite - 94AF, 94BF, 94CF, 94DF

ⓧ (Composite 4 tubes each, into ① Sample for Diesel)

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Amy Date/Time 7/28 1?0
RELINQUISHED BY: (Signature) Amy	RECEIVED BY: (Signature) Date/Time 7/28/94
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: Via Express # 6784 [illegible] 1 cooler [illegible]

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Goldenrod

Harding Lawson Associates
105 Digital Drive
P.O. Box 6107
Novato, CA 94948
(415)883-0112

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1287
Lab: [illegible] (Fremont)

Job Number: Bldg 4110 23367 02023
Samplers: Craig Boon
Name/Location: Bldg 4110
Project Manager: Tom Williams
Recorder: (Signature Required)

WATER	SEDIMENT	SOIL	OIL		UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX
		~~X~~			~~1~~					~~94~~	~~30~~	~~Z41154CF~~	~~94~~	~~07~~	~~27~~	~~1142~~			MISSING!								X					
		X			1					94	30	Z41154DF	94	07	27	1143											X					
		X			1					94	30	Z41195AF	94	07	27	1145											X					
		X			1					94	30	Z41195BF	94	07	27	1146											↓					
		X			1					94	30	Z41195CF	94	07	27	1147											↓					
		X			1					94	30	Z41195DF	94	07	27	1148											↓					
		X			1					94	30	Z41103AF	94	07	27	1500											↓					
		X			1					94	30	Z41103BF	94	07	27	1501											↓					
		X			1					94	30	Z41103CF	94	07	27	1502											↓					
		X			1					94	30	Z41103DF	94	07	27	1503											↓					

SAMPLE NUMBER OR LAB NUMBER (YR / WK / SEQ)

REMARKS

7 day T/Time

Composite for 1 Diesel test
54AF, 54BF, ([illegible]) 54DF
MISSING

Composite for 1 Diesel Test
55AF, 55BF, 55CF, 55DF

Composite for 1 Diesel test
103AF, 103BF, 103CF, 103DF

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Craig Boon	7/27 1600
Craig Boon	R.C. [illegible]	7/28/94 [illegible]

Dispatched by (signature) Date/Time
Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT # 6 2840510 / Cooler w/ Ice

Laboratory Copy White — Project Office Copy Yellow — Field Copy Pink — Office Copy Goldenrod

Harding Lawson Associates
105 Digital Drive
P.O. Box 6107
Novato, CA 94948
(415)883-0112

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1288
Lab: OnSite (Fremont)

Samplers: Craig Brown

Job Number: 23367 02623
Name/Location: Bldg 4110
Project Manager: Tim Williams
Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX
		X		1					94	30	241104AF	94	07	27	1505											X					
		X		1					94	30	241104BF	94	07	27	1506																
		X		1					94	30	241104CF	94	07	27	1507																
		X		1					94	30	241104DF	94	07	27	1508																

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			7-day TAT
			x compos. to:
			104AF, 104BF, 104CF, 104DF

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time 7/27, 1600
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time 7/28/94 775
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESSIT # 6-2840510 / Cooler w/ice

Labor opy White Proje Copy Yellow Fie Pink ice Co Goldenrod 233

Harding Lawson Associates
7655 Redwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

Stockpile
Samples

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: **00653**
Lab: ONSITE

Job Number: 23367 02621
Name/Location: Building 4/11
Project Manager: Tim Williams
Samplers: Brian
Recorder: (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED															
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead			
		X							94	25	Z411001F	94	06	22	0900	CS	411	01	1A002-11						X	X					X	X			
		X							94	25	Z411002F	94	06	22	9005	CS	411	02	-12						X	X					X	X			
		X							94	25	Z411003F	94	06	22	0910	CS	411	03	-13						X	X					X	X			
		X							94	25	Z411004F	94	06	22	0915	CS	411	04	-14						X	X					X	X			
		X							94	25	Z411005F	9	06	22	0920	CS	411	05	-15						X	X					X	X			
		X							94	25	Z411006F	9	06	22	0925	CS	411	06	-16						X	X					X	X			
		X							94	25	Z411007F	94	06	22	0930	CS	411	07	-17						X	X					X	X			
		X							94	25	Z411008F	94	06	22	0935	CS	411	08	-18						X	X					X	X			
		X							94	25	Z411009F	9	06	22	09 0	CS	411	09	-19						X	X					X	X			
		X							94	25	Z411010F	9	06	22	09 5	CS	411	10	-20						X	X					X	X			

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	

Chain of Custody Record

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Date/Time 6/22 1330

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Date/Time 6/23 1040

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Date/Time

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Date/Time

RELINQUISHED BY: (Signature)
RECEIVED BY: (Signature) Date/Time

Dispatched by (signature) Date/Time
Received for Lab by: (Signature): Date/Time

Method of Shipment: Hand Deliver to Mobile lab 6/22

Laboratory Copy White   Project Office Copy   Field Copy   Office Copy

Harding Lawson Associates
7655 Redwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

Stockpile Samples

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00654

Lab: ~~Enseco~~ ONSITE

Job Number: 23367 02621

Samplers: Bean

Name/Location: Building 4111

Project Manager: Tom Williams

Recorder: (Signature Required)

WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	Sample YR	Sample WK	Sample SEQ	Date YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Tot.l Led
		X							94	25	Z411011F	94	06	22	0955	CS	41	111	1A062-21						X	X					X	X
		X							94	25	Z411012F	94	06	22	0955	CS	41	112	-22						X	X					X	X
		X							94	25	Z411013F	94	06	22	1000	CS	41	113	-23						X	X					X	X
		X							94	25	Z411014F	94	06	22	1005	CS	41	114	-24						X	X					X	X

SAMPLE NUMBER OR LAB NUMBER YR	WK	SEQ	REMARKS

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time 6/22 1700
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time 6.23 1106
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: [illegible]

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Goldenrod

ding Lawson Associates
Redwood Boulevard
Box 578
Novato, CA 94948
(415)892-0821

F ORD
CHAIN OF CUSTODY FORM

Entered 11-22-93 LRH

Seq. No.: 00395

Lab: EUSCO

Samplers: Bill Feller

Job Number: 22367 00122

Name/Location: 4 USTs

Project Manager: Kent Ave

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE SEQ	DEPTH
X					2	1	6		93	42	HUCF048B	93	10	21	1000	SB	4110B	—
X							6		93	42	HUST044A	93	10	20	1015	SS	4110A	—
X					2	1	6		93	42	HUST050C	93	10	21	1515	SB	4590C	—

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	[illegible]
					X	X					A	A
					X						X	
					X	X					X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			28 Day TAT
93	42	HUST048B	Rinsate
93	42	NUST049A	Trip Blank
93	42	HUST050C	Fieldblank

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Dean J. Backe	10/25/93 1??
RELINQUISHED BY: (Signature) Dean J. Backe	RECEIVED BY: (Signature)	1401 10-25-93 1714
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: Cooler w/Ice, UEA COURIER

Tall# T253A97

Laboratory Copy White
Project Office Copy Yellow
Field Copy Pink
Office Copy Goldenrod

ding Lawson Associates
5 Redwood Boulevard
Box 578
Novato, CA 94948
(415)892-0821

[illegible] ORD
CHAIN OF CUSTODY FORM

Seq. No.: **00398**
Lab: [illegible]

Samplers: [illegible]
Job Number: 32367 00122
Name/Location: 4Uts 4110
Project Manager: Kent Ave
Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL		#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$		SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X			1						93	42	HUST040F	93	10	21	0815	SB	45	908	5.5
		X			1						93	42	HUST042F	93	10	21	0832	SB	45	908	15.5
		X			1						93	42	HUST044F	93	10	21	0851	SB	45	908	25.5

ANALYSIS REQUESTED

SEQ	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total lead		
HUST040F						X	X					X	X		
HUST042F						X	X					X	X		
HUST044F						X	X					X	X		

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			72 Day TAT

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Don L. Backe	Date/Time 10/25/93 1151
RELINQUISHED BY: (Signature) Don L. Backe	RECEIVED BY: (Signature) 1401	Date/Time 10-25-93 17
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: Cooler w/ ice, UEA CAURIER

TAIL # 1163044

Lab Copy White   Office Yellow   Copy Pink   Office Goldenrod

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Novato, CA 94948
(415)892-0821

FO ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00397
Lab: DS Enseco

Samplers: Bill Feller

Job Number: 23367 00122

Name/Location: 4 UST, 4590

Project Manager: Kent Aue

Recorder:
(Signature Required)

	MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION			
	WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
X			X		1					93	42	HUST026A	93	10	20	0901	SB	4590	7	30.5
X			X		1					93	42	HUST027A	93	10	20	0912	SB	4590	7	35.5
X			X		1					93	42	HUST028A	93	10	20	0923	SB	4590	7	40.5
X			X		1					93	42	HUST029A	93	10	20	0944	SB	4590	7	60.5
X			X		1					93	42	HUST030A	93	10	20	1014	SB	4590	7	80.5
X			X		1					93	42	HUST031A	93	10	20	1041	SB	4590	7	100.5
X			X		1					93	42	HUST032F	93	10	20	1123	SB	4590	1	5.5
X			X		1					93	42	HUST035F	93	10	20	1140	SB	4590	1	20.5
X			X		1					93	42	HUST037F	93	10	20	1152	SB	4590	1	30.5

ANALYSIS REQUESTED

SEQ	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Tot. lead		
HUST026A						X	X					X	X		
HUST027A						X	X					X	X		
HUST028A						X	X					X	X		
HUST029A						X	X					X	X		
HUST030A						X	X					X	X		
HUST031A						X	X					X	X		
HUST032F						X	X					X	X		
HUST035F						X	X					X	X		
HUST037F						X	X					X	X		

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			28 Day TAT

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Dan J. Bucke 10/20/93	Date/Time 11
RELINQUISHED BY: (Signature) Dan J. Bucke	RECEIVED BY: (Signature) R.O Connell 10/20/93	Date/Time 18
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: Cooler w/ Blue Ice, VIA COURIER

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Goldenrod

23368 0172

[illegible]

ding Lawson Associates
Redwood Boulevard
.O. Box 578
Novato, CA 94948
(415)892-0821

FC ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00382
Lab: ENSECO

Samplers: Bin F. Mo
Job Number: 33367 00122
Name/Location: HUST 4590
Project Manager: Kent Ave
Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					93	42	HUST018F	93	10	19	1506	SB	4590	3	5.5
		X		1					93	42	HUST020F	13	10	19	1529	SB	4590	3	15.5
		X		1					93	42	HUST022F	13	10	19	1556	SB	4590	3	25.5

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total lead
					X	X					X	X
					X	X					X	X
					X	X					X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			2 Day TAT

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
		10/19/93 11
	Dan J. Bache	10/19/93 1
Dan J. Bache	R Oconnell	10/20/93 1
		10/20/93 1

Dispatched by (signature) Date/Time
Received for Lab by: (Signature): Date/Time

Method of Shipment: Via COURIER

ory C White Office Yellow Copy Pink Offi Goldenrod

ˑding Lawson Associates
5 Redwood Boulevard
. O. Box 578
Novato, CA 94948
(415)892-0821

F__T ORD CHAIN OF CUSTODY FORM

Seq. No.: 00385
Lab: Euseco

Samplers: Bill Felle
Job Number: 2336700122
Name/Location: HUST 4540
Project Manager: Kent Ave
Recorder: (Signature Required)

	WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER YR	WK	SEQ	DATE YR	MO	DAY	TIME	STATION SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	[illegible]
✓			X		1					93	42	HUST006F	93	10	19	1602	SB	4540	6	5						X	X					X	X
✓			X		1							008F				1623				15.5						X	X					X	X
✓			X		1							009F				1051				20						X	X					X	X
✓			X		1							010F				1654	SB	4540	5	5.5						X	X					X	X
✓			X		1							011F				1708				10.5						X	X					X	X
✓			X		1							013F				1724				20.5						X	X					X	X
✓			X		1							015F				1051	SB	4540	2	10.5						X	X					X	X
✓			X		1							016F				1354				16						X	X					X	X
✓			X		1							017F				1308				20.5						X	X					X	X

SAMPLE NUMBER OR LAB NUMBER YR	WK.	SEQ	REMARKS
			2 Day TAT

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Dan J. Bucke Date/Time 10/18/93 1530
RELINQUISHED BY: (Signature) Dan J. Bucke	RECEIVED BY: (Signature) #657 Date/Time 10-19-93 18[illegible]
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: [illegible] OED COURIER

Tm# T1930091

Laboratory Copy White · Project Office Copy Yellow · Field Copy Pink · Office Copy Goldenrod

23366 017

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7 edwood Boulevard
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Novato, CA 94948
(415)892-0821

FO ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00343

Lab: ENSECO

Samplers: Bittello

Job Number: 2306,00122

Name/Location: 4 OST 4590

Project Manager: Kent Ave

Recorder: (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION			
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
X					2	1			93	41	HCPTCC5B	93	10	12	1210		EQUIP		RINSATE

ANALYSIS REQUESTED													
EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead	
					X	X					X	X	

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			☆ NOTE: SAMPLE IS ONE VOA SHORT!

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Don J. Bache Date/Time 10/12/93 1449
RELINQUISHED BY: (Signature) Don J. Bache	RECEIVED BY: (Signature) Date/Time 10/12/93 1910
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Don J. Bache Date/Time 10/12/93 1725
RELINQUISHED BY: (Signature) Don J. Bache	RECEIVED BY: (Signature) 617 10.12.93 Date/Time 1750
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: Cooler with ice VIA COURIER

EXPRESS I, #J12300193

Labor White opy Proje Yellow Cop Fl Pink y ice Co Goldenrod

233oo u1/cJ

ding Lawson Associates
Redwood Boulevard
Box 578
Novato, CA 94948
(415)892-0821

FIELD RECORD
CHAIN OF CUSTODY FORM

Seq. No.: 00344

Lab: ENSECO

Samplers: Bill Fello

Job Number: 23367/60122

Name/Location: 4 USD 4590

Project Manager: Kent Ar

Recorder:
(Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE / SITE / SEQ	DEPTH
		X		1					93	41	HCPT001	93	10	12	0935	SB45904	5.5'
		X		1							002				0950		10.5'
		X		1							004				1030		19'

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total lead
					X	X					X	X
					X	X					X	X
					X	X					X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
93	41	HCPT005B	EQUIP RINSATE POURED (see COC form 343)

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Don J. Bache	10/12/93 1100
Don J. Bache		10/12/93 1740
	Don J. Bache	10/12/93 1720
Don J. Bache		10/12/93

Dispatched by (signature): Date/Time

Received for Lab by: (Signature): Date/Time

Method of Shipment: Cooler w/ ice via UEA COURIER

EXPRESS IT # J12300A3

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Goldenrod

Harding Lawson Associates
7655 Redwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00387

Lab: COE

Samplers: Bill Feller

Job Number: 23367 00122

Name/Location: Fort Ord

Project Manager: Kevin Aue

Recorder: (Signature Required)

	MATRIX					#CONTAINERS &PRESERV.						SAMPLE NUMBER OR LAB NUMBER			DATE				STATION			
		WATER	SEDIMENT	SOIL	OIL		UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
X				X			1					93	42	HUST032E	93	10	20	1135	SB	45	901	6

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total lead		
					X	X					X	X		

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	

Chain of Custody Record

RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Don J. Barke 10/21/93 Date/Time 12
RELINQUISHED BY: *(Signature)* Don J. Barke	RECEIVED BY: *(Signature)* S.A. Ambrusto 10-21-93 Date/Time 12
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: Cooler with ice USA AVIATOR

Laboratory Copy White | Office Copy Yellow | Field Copy Pink | Office Copy Gold

.. # [illegible]

rding Lawson Associates
5 Redwood Boulevard
O. Box 578
Novato, CA 94948
(415)892-0821

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00383

Lab: COE

Samplers: Bill Feller

Job Number: 23367 0012

Name/Location: 4 USTS 4510

Project Manager: Kent Ave

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Total Lead
		X		1					93	42	HU5T004	93	10	19	1031	SB	45	906	20.5						X	X					X	X
		X		1					93	42	HU5T006	93	10	19	1259	SB	45	405	15.5						X	X					X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			28 Day TAT

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Dan J. Bache	10/19/93
RELINQUISHED BY: (Signature) Dan J. Bache	RECEIVED BY: (Signature)	10-21-93
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: Cooler w/ Blue Ice, [illegible]

Laboratory Copy White
Project Office Copy Yellow
Field Copy Pink
Office Copy Goldenrod

ding Lawson Associates
5 Rodwood Boulevard
. Box 578
Novato, CA 94948
(415)892-0821

CARY
BEAN

T ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00345
Lab: COE

Samplers: Billfello

Job Number: 23367 00122

Name/Location: 4 USTs 4590

Project Manager: Kent Ave

Recorder: (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION			
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					93	41	HCPT0025	93	10	12	0950	SP	45	404	10.5'

ANALYSIS REQUESTED													
EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	TTLC LEAD	
					X	X					X	X	

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Don J. Buche	Date/Time 10/21/93
RELINQUISHED BY: (Signature) Don J. Buche	RECEIVED BY: (Signature) 10-21-93	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: UZA COURIER, IN COOLER W/ICE

Trutt# 5T2150441

Laboratory Copy White | Project Office Copy Yellow | Field Copy Pink | Office Copy Go

23268 01

H   ng Lawson Associates
1C   gital Drive
P.O. Box 6107
Novato, CA 94948
(415)883-0112

HLA/Corp of Engineers
CHAIN OF USTODY FORM

Seq. No.: 002399
Lab: Agl

Samplers: Dillfello   Entered 2-7-96 LRH

Job Number: 23367 63822

Name/Location: 2754 (UST)

Project Manager: TOM WILLIAMS

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL		#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$		SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION *: SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240/8260	EPA 625/8270 PAHs	TRPH	TPH as Gasoline	BTEX	TPH as Diesel	Priority Pollutant Metals (13)	CCR Title 22 Metals (17)	T/H 6., /BTEX				
		X			4						96	03	H275185F	96	01	17	1440	Stock pile composit			C ~~E~~				X				X			X				
		X			4						96	03	H275186F	96	01	17	1500				F				X				X			X				
		X			4						96	03	H275187F	96	01	17	1515				B ~~A~~				X				X			X				
		X			4						96	03	H275188F	96	01	17	1530				A				X				X			X				
		X			2						96	03	H275189F	96	01	17	1540				G				X				X			X				
		X			2						96	03	H275190F	96	01	17	1545				H				X				X			X				
X								3 WJP			96	03	H275191A	96	01	17	1550	Trip blank							~~X~~ WJF				~~X~~ WJG			X				

DO NOT SAMPLE FOR this

ADDITIONAL INFORMATION

SAMPLE NUMBER: YR	WK	SEQ	REMARKS
			Composit each soil
			sample set -
			Each series of same
			sample #s composited
			together -8 vary
		*	SP-2754-C SP-2754-H
			SP-2754-F
			SP-2754-B
			SP-2754-A
			SP-2754-G

Chain of Custody Record

	(Print Name)	(Company)	Date/Time
Relinquished By: (Signature)	Billlele	HLA	1/17/96 1610
Received By: (Signature) Shelia J Brown	Shelia J Brown	HUT	1/17-96 1610
Relinquished By: (Signature) Shelia J Brown	Shelia J Brown	HUT	1/18/96 1210
Received By: (Signature) Don Paddock	PADDOCK	PMS	1/18/96 5:00
Relinquished By: (Signature)			
Received By: (Signature)			
Relinquished By: (Signature)			
Received for Lab By: (Signature)			

Method of Shipment: AEROSPEED COURIER

Laboratory Copy White   Project Office Copy Yellow   Field Office Copy Pink   Manager Copy Goldenrod

H[illegible]g Lawson Associates
1[illegible]gital Drive
P.O. Box 6107
Novato, CA 94948
(415)883-0112

HLA/Corps of Engineers
CHAIN OF CUSTODY FORM

Seq. No.: 002400

Lab: Anl

Samplers: Bill Fello   Entered 2-7-96 LRH

Job Number: 23367 03822

Name/Location: 2754

Project Manager: Tom Williams

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240/8260	EPA 625/8270 PAHs	TRPH	TPH as Gasoline	BTEX	TPH as Diesel	Priority Pollutant Metals (13)	CCR Title 22 Metals (17)	TPH Gas/BTEX	See Remarks
		X		H					96	03	H275175F	96	0~~3~~1	1~~7~~	1045	S Stockpile composit * D							X				X			X	X
		X		4					96	03	H275176F	96	01	1~~7~~	1110	Stockpile composit ** E							X				X			X	X
		X		1					96	03	H275170F	96	01	1~~7~~	0930	E	S2754	135	22'				X				X			X	
		X		1					96	03	H275172D	96	01	1~~7~~	0940	E	S2754	135	22'				X				X			X	
		X		1					96	03	H275173F	96	01	1~~7~~	0955	E	S2754	146	20'				X				X			X	
		X		1					96	03	H275174F	96	01	1~~7~~	1010	E	S2754	147	20'				X				X			X	
		X		1					96	03	H275177F	96	01	1~~7~~	1140	E	S2754	168	21'				X				X			X	
		X		1					96	03	H275178F	96	01	1~~7~~	1200	E	S2754	179	21'				X				X			X	
		X		1					96	03	H275182F	96	01	17	1350	E	S2754	28	22				X				X			X	
		X		1					96	03	H275184D	96	01	17	1400	E	S2754	28	22				X				X			X	

wk

station changes per J. Benton 3-6-96 LRH

ADDITIONAL INFORMATION

SAMPLE NUMBER: YR	WK	SEQ	REMARKS
			X composit these 4 samples into 1 sample & analyse after composit
~~ES~~	~~27~~	~~54~~	
96	03	H27517 2 D	= Dup for 170F COE Sample = 171
96	03	H27518 4 D	= Dup for 182F COE Sample = 183E
		*	SP-2754-D
		* *	SP-2754-E

Chain of Custody Record

Relinquished By: (Signature)	(Print Name)	(Company)	Date/Time
	Bill Fello	HLA	1/17/96 1600

Received By: (Signature)	(Print Name)	(Company)	Date/Time
Shelia G Brown	Shelia Brown	HLA	1/17/96 16[illegible]

Relinquished By: (Signature)	(Print Name)	(Company)	Date/Time
Shelia G Brown	Shelia Brown	HLA	1/18/96 12[illegible]

Received By: (Signature)	(Print Name)	(Company)	Date/Time
[illegible]	[illegible]	PAS	1/18/96 15[illegible]

Relinquished By: (Signature)	(Print Name)	(Company)	Date/Time

Received By: (Signature)	(Print Name)	(Company)	Date/Time

Relinquished By: (Signature)	(Print Name)	(Company)	Date/Time

Received for Lab By: (Signature)	(Print Name)	(Company)	Date/Time

Method of Shipment: [illegible] [illegible]

H[illegible]ng Lawson Associates
1[illegible]gital Drive
P.O. Box 6107
Novato, CA 94948
(415)883-0112

HLA/Corps of Engineers
CHAIN OF CUSTODY FORM

Seq. No.: 002401

Lab: COE

Samplers: Billfelo

Job Number: 23367 03822

Name/Location: ~~2754~~ UST Bldg. 2754 Fort Ord

Project Manager: TOM WILLIAMS

Recorder: (Signature Required)

MATRIX				#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED										
WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240/8260	EPA 625/8270 PAHS	TRPH	TPH as Gasoline	BTEX	TPH as Diesel	Priority Pollutant Metals (13)	CCR Title 22 Metals (17)	TPH Gas / BTEX
		X		1					96	03	H27517 1E	96	01	17	0930	ES	2754	13	22'				X				X			X
		X		1					96	03	H27518 3E	96	01	17	1250	ES	2754	18	~~21~~ 22'				X				X			X
X							3		96	03	H27519 1A	96	01	17	1550	TRIP BLANK														X

ADDITIONAL INFORMATION

SAMPLE NUMBER			REMARKS
YR	WK	SEQ	

Chain of Custody Record

Relinquished By: (Signature)	(Print Name)	(Company)	Date/Tim
	Billfelo	HLA	01-18-96 15
Received By: (Signature)	(Print Name)	(Company)	Date/Tim
Relinquished By: (Signature)	(Print Name)	(Company)	Date/Tim
Received By: (Signature)	(Print Name)	(Company)	Date/Tim
Relinquished By: (Signature)	(Print Name)	(Company)	Date/Tim
Received By: (Signature)	(Print Name)	(Company)	Date/Tim
Relinquished By: (Signature)	(Print Name)	(Company)	Date/Tim
Received for Lab By: (Signature)	(Print Name)	(Company)	Date/Tim

Method of Shipment: FEDERAL EXPRESS

Laboratory Copy White Project Office Copy Yellow Field Office Copy Pink Manager Copy Goldenrod

H ng Lawson Associates
1 tal Drive
P.O. 6107
Novato, CA 94949
(415) 883-0112

FOR ORD CHAIN OF CUSTODY FORM

Entered 2-13-95 LRH

Seq. No.: 1732

Lab: Quanterra

Job Number: 23367 03821

Name/Location: Bldgs 4110 S2754

Project Manager: Tom Williams

Samplers: Bear (Cary Bean)

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	NAHSO4	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH (per J. Fenton 10-19-95 LRH)
		X		1					95	04	Z411062F	95	01	27	0900	SS	4110		SB-~~3~~10 25'
		X		1					95	04	Z411063F	95	01	27	0930	SS	4110		SB-~~3~~10 35'
		X		1					95	04	Z275061F	95	01	27	1110	SS	2754		SB-1 5'
		X		1					95	04	Z275065F	95	01	27	1120	SS	2754		SB-1 10'
		X		1					95	04	Z275066F	95	01	27	1130	SS	2754		SB-1 20'
		X		1					95	04	Z275067F	95	01	27	1140	SS	2754		SB-1 30'
		X		1					95	04	Z275068F	95	01	27	1150	SS	2754		SB-1 40'

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240/8260	EPA 625/8270	TRPH	TPH as GASOLINE	BTEX	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	[illegible] Lead	Cd Cr Pb Ni Zn	PAH (8270)
					X	X	X					X		
					X	X	X					X		
		X			X	X	X						X	X
		X			X	X	X						X	X
		X			X	X	X						X	X
		X			X		X						X	X
		X			X		X						X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			14 DAY TURNAROUND
			Results to Tom Williams
			* SB-4110-~~03~~10 per J. Fenton 10-19-95 LRH
			SB 2754-01

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Cary F. C	1/27/95 1300
Cary F. C	Ken Goldman	1-27-95 16:1

Dispatched by (signature) Date/Time

Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT COURIER # A235006 / Condo [illegible]

orald White   oject Yellow   opy   Field Pink   Copy Goldenrod

Ha g Lawson Associates
76 dwood Boulevard
P.O. Box 578
Novato, CA 94948
(415)892-0821

FOR. ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1387
Lab: COE

Samplers: Bean
Job Number: 23367 03871
Name/Location: Buildings ~~470~~, 2754 UST invest.
Project Manager: Tom Williams
Recorder:
(Signature Required)

MATRIX					#CONTAINERS &PRESERV.					SAMPLE NUMBER OR LAB NUMBER			DATE				STATION			
WATER	SEDIMENT	SOIL	OIL		UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH
		Y			1					95	04	2275066E	95	01	27	1135	SS	27	S-1	SB-1 20'

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	[illegible]	Cd Cr Pb Ni Zn	PAH (8270)	
		X			X	X					X	X	X		

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			14-DAY TURNAROUND
			COE SACRAMENTO CONTACT IS
			Mr DAN McMINDES

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time 1/27/95 1300
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) 1-30-95, 4:57 PM Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT COURIER # A3050406 / Cooler w/ice

Laboratory Copy White
Project Office Copy Yellow
Field Copy Pink
Office Copy Goldenrod

23368 01723

Harding Lawson Associates
1[illegible] [illegible]l Drive
P.O. [illegible]107
Novato, CA 94949
(415) 883-0112

FOR[illegible]RD CHAIN OF CUSTODY FORM

Entered 1-26-95 LRH

Seq. No.: 1627

Lab: Quanterra

Job Number: 23367 03821

Name/Location: Building 3803 & 2754

Project Manager: Tom Williams

Samplers: Greg Bean

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION *: SAMP. TYPE	SITE	SEQ	DEPTH
		X							94	51	2380030F	94	12	22	1000	SS	3803		SB-5 20'
		X							94	51	2380031F	94	12	22	1030	SS	3803		SB-5 30'
		X							94	51	2380032F	94	12	22	1200	SS	3803		SB-6 20'
		X							94	51	2380033F	94	12	22	1230	SS	3803		SB-6 30'
		X							94	51	2275034F	94	12	22	1600	SS	2754		SB-2 10'
		X							94	51	2275035F	94	12	22	1615	SS	2754		SB-2 20'
		X							94	51	2275036F	94	12	22	1630	SS	2754		SB-2 30'
		X							94	51	2275037F	94	12	22	1700	SS	2754		SB-2 40'
		X							94	51	2449038F	94	12	23	0800	SS	4493		SB-4 20'
		X							94	51	2449039F	94	12	23	0830	SS	4493		SB-4 30'

ANALYSIS REQUESTED

SAMPLE NUMBER	EPA 601/8010	EPA 602/8020	EPA 624/8240/8260	EPA 625/8270	TRPH	TPH as GASOLINE	BTEX	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	~~Cations / Anions~~ Total Lead	PAH (8270)	Organic Lead	Cd, Cr, Ni, Zn	[illegible]
94512380030F						X	X	X					■	X		
94512380031F						X	X	X						X		
94512380032F						X	X	X						X		
94512380033F						X	X	X						X		
94512275034F						X	■	X				X	X	X	X	X
94512275035F						X	■	X				X	X	X	X	X
94512275036F						X	■	X				X	X	X	X	X
94512275037F						X	■	X				X	X	X	X	X
94512449038F						X	X	X							X	e
94512449039F						X	X	X							X	e

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ
SB-3803-05		
SB-3803-06		
SB-2754-02		
SB-4493-04		

REMARKS

10-day TAT

SAMPLES 9451Z275034F
" 035F
" 036F
" 037F
SHOULD BE ANALYZED FOR
TOTAL LEAD RATHER THAN
ORGANIC LEAD. DELETE
Cd, Cr, Ni, AND Zn AS ANALYTES
FOR SAMPLES 9451Z44938F
AND 39.

Thomas R Williams 12/27/94

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Ray Ruiz Date/Time 12-23-94 0912
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment:

[illegible]borator[illegible] White [illegible]oject Copy Yellow Field [illegible] Pink [illegible] Copy [illegible]enrod

23366

H[illegible]ng Lawson Associates
1[illegible]al Drive
P.O. [illegible]x 6107
Novato, CA 94949
(415) 883-0112

FOR[illegible]ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1626
Lab: Cof

Job Number: 23367, 03821
Samplers: Cary Bean
Name/Location: Building 41,43
Project Manager: Tom Williams
Recorder: (Signature Required)

MATRIX					#CONTAINERS &PRESERV.						SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED															
WATER	SEDIMENT	SOIL	OIL		UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$		YR	WK	SEQ	YR	MO	DAY	TIME	SAMP TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240 / 8260	EPA 625/8270	TRPH	TPH as GASOLINE	BTEX	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations/Anions	Total Lead	pH ([illegible])	[illegible]	[illegible]
		X									94	51	Z275036E	94	12	22	1635	SS	27	54	SB 2 30'						X	X	X					X	X	X	X
		X									94	51	Z449042E	94	12	23	1135	SS	44	93	SB-2 30'						X	X	X								

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	
			(1) Duplicate sample of sample number 9451Z275036F
			(2) 10-day TAT
			Sample 9451Z4490[illegible] 36E SHOULD BE ANALYZED FOR TOTAL LEAD RATHER THAN ORGANIC LEAD. Thanks R. Williams 12/27/94

Chain of Custody Record

RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Kay [illegible] Date/Time 12 27 94 0922
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
RELINQUISHED BY: *(Signature)*	RECEIVED BY: *(Signature)* Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment:

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105 Drive
P.O. Box 6107
Novato, CA 94949
(415) 883-0112

FOR[illegible]RD Entered 1-4-95 [illegible] Seq. No.: 1624

CHAIN OF CUSTODY FORM

Lab: Quanterra

Samplers: Cory Bean

Job Number: 23367 03811

Name/Location: Bridges 4493

Project Manager: Tom Williams

Recorder: (Signature Required)

WATER	SEDIMENT	SOIL	OIL		UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$		SAMPLE NUMBER OR LAB NUMBER YR	WK	SEQ	DATE YR	MO	DAY	TIME	STATIONS* SAMP TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240/8260	EPA 625/8270	TRPH	TPH as GASOLINE	BTEX	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	PAH	[illegible]	
		X			1						94	50	Z449015F	94	12	15	1400	SS	4493		SB-1 20'							X	X							
		X			1						94	50	Z449016F	94	12	15	1450	SS	4493		SB-1 30'							X	X							
		X			1						94	50	Z449017F	94	12	16	0730	SS	4493		SB-3 20'							X	X							
		X			1						94	50	Z449018F	94	12	16	0805	SS	4493		SB-3 30'							X	X							
		X			1						94	50	Z275019F	94	12	16	1030	SS	2754		SB-4 25'						X	X	X					X	X	
		X			1						94	50	Z275020F	94	12	16	1200	SS	2754		SB-4 30'						X	X	X					X	X	
		X			1						94	50	Z275021F	94	12	16	1230	SS	2754		SB-4 40'						X	X	X					X	X	
		X			1						94	50	Z275022F	94	12	16	1400	SS	2754		SB-3 25'						X	X	X					X	X	
		X			1						94	50	Z275023F	94	12	16	1430	SS	2754		SB-3 30'						X	X	X					X	X	
		X			1						94	50	Z275024F	94	12	16	15[illegible]0	SS	2754		SB-3 50'						X	X	X					X	X	

SAMPLE NUMBER OR LAB NUMBER YR	WK	SEQ	REMARKS
			Analyze by 1/4/95
		*	SB-4493-01 } per C Bean
			SB-4493-03
			SB-2754-04
			SB-2754-03

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
		12/16/94 14:45
		12-16-94 1721

Dispatched by (signature)	Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment:

Laboratory Copy White
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23366 08022

Harding Lawson Associates
7655 Redwood Blvd...

FORD CHAIN OF CUSTODY FORM

Seq. No.: 1625

Lab: COE

Job Number: 23367 03811

Name/Location: Building 2754

Project Manager: Tom Williams

Samplers: Greg Bean

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X		1					94	50	2275023E	94	12	16	1435	SS	2754		SB-3 30'

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240 / 8260	EPA 625/8270	TRPH	TPH as GASOLINE	BTEX	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	PNA	Organic Lead
					X	X	X					X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			COE CONTACT FOR UST PROJECTS IS MR DAN McMINDES

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Gary F.	12/19/94 1640
Gary F.	R. GUFFIN EXP-IT X447	12/19/94 1715

Dispatched by (signature) Date/Time

Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT COURIER # 4940186 / Cooler w/ice

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Novato, CA 94948
(415)883-0112

FC ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1157
Lab: ENSECO

Samplers: C. Bro
Job Number: 23367 02621
Name/Location: ~~77~~ 2754
Project Manager: Tom Williams
Recorder: (Signature Required)

MATRIX: WATER	MATRIX: SEDIMENT	MATRIX: SOIL	MATRIX: OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION *: SAMP TYPE	SITE	SEQ	DEPTH
		X							94	26	Z275007F	94	06	29	1140	ES	275	~~07~~ 11	21'
		X							94	26	Z275009F	94	06	29	1215	ES	275	~~08~~ 12	18'
		X							94	26	Z275010F	94	06	29	1220	ES	275	~~10~~ 13	18'
		X							94	26	Z275012F	94	06	29	1240	ES	275	14	20'

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	VOC (8240)	PAH (8270)	[illegible]
					X	X					X	X	X	X
					X	X					X	X	X	X
					X	X					X	X	X	X
					X	X					X	X	X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			STORED IN FRIDGE
		*	ES-2754-11 per J. Fenton 3-6-96 LRH
			ES-2754-12
			ES-2754-13
			ES-2754-14

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
		7/5/94 1700
		7/5/94 172

Dispatched by (signature) Date/Time
Received for Lab by: (Signature): Date/Time
Method of Shipment: VIA EXPRESS Courier G0540053/ Cooler w/ice

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1(tal Drive
P.C. ox 6107
Novato, CA 94948
(415)883-0112

FC ORD
CHAIN OF CUSTODY FORM

Seq. No.: 1158
Lab: CoE

Samplers: Gary Breen

Job Number: 23667, 02621
Name/Location: Building 2754
Project Manager: Tom Williams
Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL		#CONTAINERS &PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$		SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	TRPH	TPH as GASOLINE	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	VOCs 8240	PAHs 8270	[illegible]	
		X									94	26	2275011E	94	06	29	1225	ES	275	11	18'						X	X					X			X	

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			Note: COE SACRAMENTO CONTACT IS DAN MCMINDES

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Gary F. G	6/29/94 1630
Gary E. G		1724 7/5/94

Dispatched by (signature) Date/Time
Received for Lab by: (Signature): Date/Time

Method of Shipment: VIA EXPRESS IT COURIER # G0540492 / Cooler w/ ICE

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FORT ORD
CHAIN OF CUSTODY FORM

17

Seq. No.: 00450

Lab: Ens[illegible]

Samplers: C. Bean

Job Number: 23367 20/23

Name/Location: Building 2774

Project Manager: Ken [illegible]

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X							93	44	2275409E	93	11	03	0210	E SS	275	409	2.0
		X							93	44	2275[illegible]E	93	11	03	0245	E SS	275	400	2.0

ANALYSIS REQUESTED

EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270 ([illegible])	TRPH	TPH as GASOLINE	TPH as DIESEL / [illegible]	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	[illegible]	[illegible]
		X	X		X	X						X	X
		X	X		X	X						X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Don J. Bashe Date/Time 11/3/93 1741
RELINQUISHED BY: (Signature) Don J. Bashe	RECEIVED BY: (Signature) Richard O'Connell Date/Time 11/3/93 1715
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature): Date/Time

Method of Shipment: LEA COURIER ENSECO/R [illegible]

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Novato, CA 94946
(415)892-0821

FO ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00451

Lab: COE

Samplers: C. Bean

Job Number: 23367 00123

Name/Location: Bu. King 27541

Project Manager: [illegible]

Recorder: [illegible] (Signature Required)

MATRIX					#CONTAINERS & PRESERV.						SAMPLE NUMBER OR LAB NUMBER			DATE				STATION				ANALYSIS REQUESTED														
	WATER	SEDIMENT	SOIL	OIL	UNPRES.	H_2SO_4	HNO_3	HCL	$NAHSO_4$		YR	WK	SEQ	YR	MO	DAY	TIME	SAMP. TYPE	SITE	SEQ	DEPTH	EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270 [illegible]	TRPH	TPH as GASOLINE/motor oil	TPH as DIESEL	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	[illegible]	[illegible]	
			X		1						93	41	2275420E	93	11	03	~~0144~~	SS	27	542	8.0			X	X		X	X						X	X	
																	1340																			

SAMPLE NUMBER OR LAB NUMBER			REMARKS
YR	WK	SEQ	

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Dan I. Bache Date/Time 11/11/93 1735
RELINQUISHED BY: (Signature) Dan I. Bache	RECEIVED BY: (Signature) Date/Time 11-11-93 1824
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Date/Time
Dispatched by (signature) Date/Time	Received for Lab by: (Signature) Date/Time

Method of Shipment: VIA COURIER IN COOLER W/ICE

[illegible] 1/93

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TONY
BLAKE

FORT ORD
CHAIN OF CUSTODY FORM

Seq. No.: 00439

Lab: Enseco

Job Number: 23367 00123

Name/Location: Bldg 2754

Project Manager: Kent Ave

Samplers: Cory Bean

Recorder: (Signature Required)

MATRIX: WATER	SEDIMENT	SOIL	OIL	#CONTAINERS & PRESERV.: UNPRES	H_2SO_4	HNO_3	HCL	$NAHSO_4$	SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	DATE: YR	MO	DAY	TIME	STATION: SAMP. TYPE	SITE	SEQ	DEPTH
		X							93	44	Z275401F	93	11	02	0130	B	S275	41	14.0
		X							93	44	Z275402F	93	11	02	0150	1	S275	42	7.0
		X							93	44	Z275403F	93	11	02	0200	1	S275	43	12.0
		X							93	44	Z275404F	93	11	02	0240	1	S275	44	11.0
		X							93	44	Z275405F	93	11	02	0330	1	S275	45	10.0
		X							93	44	Z275406F	93	11	02	0340	1	S275	46	9.0
		X							93	44	Z275407F	93	11	02	0315	1	S275	47	10.0
		X							93	44	Z275408F	93	11	02	0350	1	S275	48	8.0

ANALYSIS REQUESTED

SEQ	EPA 601/8010	EPA 602/8020	EPA 624/8240 (VOC)	EPA 625/8270 (PAH)	TRPH	TPH as GASOLINE	TPH as DIESEL/motor oil	PRIORITY POLLUTANT METALS	CCR Title 22 Metals	Hexavalent Chromium	Cations / Anions	BTEX	Cadmium Chrome Ni, Zn	Total Lead
Z275401F			X	X		X	X						X	X
Z275402F			X	X		X	X						X	X
Z275403F			X	X		X	X						X	X
Z275404F			X	X		X	X						X	X
Z275405F			X	X		X	X						X	X
Z275406F			X	X		X	X						X	X
Z275407F			X	X		X	X						X	X
Z275408F			X	X		X	X						X	X

SAMPLE NUMBER OR LAB NUMBER: YR	WK	SEQ	REMARKS
			14-Day TAT

Chain of Custody Record

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	Date/Time
	Dan Bache	11/2/93 1751
Dan Bache	R O'Connell	11/2/93 1740

Dispatched by (signature)	Date/Time	Received for Lab by: (Signature):	Date/Time

Method of Shipment: UEA COURIER . [illegible]

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23 23

APPENDIX B

APPENDIX B

CHEMICAL DATA REPORT - ALL CHEMICAL RESULTS

Report Date: Aug 2, 1996

Table B1. Chemical Data Report - All Chemical Results, Site 4107
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-07/30/94

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units	Value	Reporting Limit		HLA Qual	Lab Qual
* Station Number * ES-4107-01			* Matrix Type * SOIL								
9344E410701F	10.50	ES-4107-01	11/01/93	8015G/8020	Benzene	ug/kg	< 250.000	250.000	ND	A	R
9344E410701F	10.50	ES-4107-01	11/01/93	8015G/8020	Ethylbenzene	ug/kg	< 250.000	250.000	ND	A	
9344E410701F	10.50	ES-4107-01	11/01/93	8015G/8020	TPH-Gasoline	ug/kg	< 50000.000	50000.000	ND	A	
9344E410701F	10.50	ES-4107-01	11/01/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	610000.000	50000.000		A	1
9344E410701F	10.50	ES-4107-01	11/01/93	8015G/8020	Toluene	ug/kg	< 250.000	250.000	ND	A	
9344E410701F	10.50	ES-4107-01	11/01/93	8015G/8020	Xylenes	ug/kg	< 500.000	500.000	ND	A	
9344E410701F	10.50	ES-4107-01	11/01/93	EPA7421	Lead	mg/kg	3.800	0.340		A	
9344E410701F	10.50	ES-4107-01	11/01/93	EPA8015D	TPH-Diesel	mg/kg	< 82.000	82.000	ND	A	
9344E410701F	10.50	ES-4107-01	11/01/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	660.000	82.000		A	1
9344E410701F	10.50	ES-4107-01	11/01/93	EPA8015D	TPH-Motor Oil	mg/kg	< 66.000	66.000	ND	A	R
9344E410701F	10.50	ES-4107-01	11/01/93	SM5520	Non-Polar Oil and Grease (TRPH)	mg/kg	220.000	50.000		A	
* Station Number * ES-4107-02			* Matrix Type * SOIL								
9344E410702F	7.00	ES-4107-02	11/01/93	8015G/8020	Benzene	ug/kg	< 250.000	250.000	ND	A	R
9344E410702F	7.00	ES-4107-02	11/01/93	8015G/8020	Ethylbenzene	ug/kg	3700.000	1200.000		AJ+	
9344E410702F	7.00	ES-4107-02	11/01/93	8015G/8020	TPH-Gasoline	ug/kg	3000000.000	50000.000		AJ+	1
9344E410702F	7.00	ES-4107-02	11/01/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	< 50000.000	50000.000	ND	A	
9344E410702F	7.00	ES-4107-02	11/01/93	8015G/8020	Toluene	ug/kg	4200.000	250.000		AJ+	
9344E410702F	7.00	ES-4107-02	11/01/93	8015G/8020	Xylenes	ug/kg	130000.000	2500.000		AJ+	
9344E410702F	7.00	ES-4107-02	11/01/93	EPA7421	Lead	mg/kg	6.400	0.330		A	
9344E410702F	7.00	ES-4107-02	11/01/93	EPA8015D	TPH-Diesel	mg/kg	< 64.000	64.000	ND	A	
9344E410702F	7.00	ES-4107-02	11/01/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	2300.000	64.000		A	1
9344E410702F	7.00	ES-4107-02	11/01/93	EPA8015D	TPH-Motor Oil	mg/kg	< 64.000	64.000	ND	A	R
9344E410702F	7.00	ES-4107-02	11/01/93	SM5520	Non-Polar Oil and Grease (TRPH)	mg/kg	5500.000	500.000		A	R
* Station Number * ES-4107-03			* Matrix Type * SOIL								
9344E410703F	13.00	ES-4107-03	11/01/93	8015G/8020	Benzene	ug/kg	< 250.000	250.000	ND	A	R
9344E410703F	13.00	ES-4107-03	11/01/93	8015G/8020	Ethylbenzene	ug/kg	3000.000	250.000		A	
9344E410703F	13.00	ES-4107-03	11/01/93	8015G/8020	TPH-Gasoline	ug/kg	1800000.000	50000.000		A	1
9344E410703F	13.00	ES-4107-03	11/01/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	< 50000.000	50000.000	ND	A	
9344E410703F	13.00	ES-4107-03	11/01/93	8015G/8020	Toluene	ug/kg	650.000	250.000		A	
9344E410703F	13.00	ES-4107-03	11/01/93	8015G/8020	Xylenes	ug/kg	28000.000	2500.000		A	
9344E410703F	13.00	ES-4107-03	11/01/93	EPA7421	Lead	mg/kg	2.900	0.340		A	
9344E410703F	13.00	ES-4107-03	11/01/93	EPA8015D	TPH-Diesel	mg/kg	< 49.000	49.000	ND	A	R
9344E410703F	13.00	ES-4107-03	11/01/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	620.000	49.000		A	1
9344E410703F	13.00	ES-4107-03	11/01/93	EPA8015D	TPH-Motor Oil	mg/kg	< 54.000	54.000	ND	A	
9344E410703F	13.00	ES-4107-03	11/01/93	SM5520	Non-Polar Oil and Grease (TRPH)	mg/kg	1200.000	500.000		A	R
* Station Number * ES-4107-04			* Matrix Type * SOIL								
9344E410704F	8.00	ES-4107-04	11/01/93	8015G/8020	Benzene	ug/kg	< 5.000	5.000	ND	A	
9344E410704F	8.00	ES-4107-04	11/01/93	8015G/8020	Ethylbenzene	ug/kg	< 5.000	5.000	ND	A	
9344E410704F	8.00	ES-4107-04	11/01/93	8015G/8020	TPH-Gasoline	ug/kg	< 1000.000	1000.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B1. Chemical Data Report - All Chemical Results, Site 4107
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-07/30/94

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E410704F	8.00	ES-4107-04	11/01/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9344E410704F	8.00	ES-4107-04	11/01/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9344E410704F	8.00	ES-4107-04	11/01/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9344E410704F	8.00	ES-4107-04	11/01/93	EPA7421	Lead	mg/kg		2.900	0.330		A	
9344E410704F	8.00	ES-4107-04	11/01/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9344E410704F	8.00	ES-4107-04	11/01/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9344E410704F	8.00	ES-4107-04	11/01/93	EPA8015D	TPH-Motor Oil	mg/kg	<	54.000	54.000	ND	A	
9344E410704F	8.00	ES-4107-04	11/01/93	SM5520	Non-Polar Oil and Grease (TRPH)	mg/kg	<	50.000	50.000	ND	A	

* Station Number * ES-4107-05 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E410705F	10.00	ES-4107-05	11/01/93	8015G/8020	Benzene	ug/kg	<	250.000	250.000	ND	A	R
9344E410705F	10.00	ES-4107-05	11/01/93	8015G/8020	Ethylbenzene	ug/kg		4900.000	1200.000		AJ+	
9344E410705F	10.00	ES-4107-05	11/01/93	8015G/8020	TPH-Gasoline	ug/kg		4900000.000	50000.000		AJ+	1
9344E410705F	10.00	ES-4107-05	11/01/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	50000.000	50000.000	ND	A	
9344E410705F	10.00	ES-4107-05	11/01/93	8015G/8020	Toluene	ug/kg		3900.000	250.000		AJ+	
9344E410705F	10.00	ES-4107-05	11/01/93	8015G/8020	Xylenes	ug/kg		210000.000	2500.000		AJ+	
9344E410705F	10.00	ES-4107-05	11/01/93	EPA7421	Lead	mg/kg		4.800	0.350		A	
9344E410705F	10.00	ES-4107-05	11/01/93	EPA8015D	TPH-Diesel	mg/kg	<	67.000	67.000	ND	A	R
9344E410705F	10.00	ES-4107-05	11/01/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		2200.000	67.000		A	1
9344E410705F	10.00	ES-4107-05	11/01/93	EPA8015D	TPH-Motor Oil	mg/kg	<	56.000	56.000	ND	A	
9344E410705F	10.00	ES-4107-05	11/01/93	SM5520	Non-Polar Oil and Grease (TRPH)	mg/kg		2700.000	500.000		A	R

* Station Number * ES-4107-06 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E410706F	11.00	ES-4107-06	11/01/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	EPA7421	Lead	mg/kg		1.700	0.330		A	
9344E410706F	11.00	ES-4107-06	11/01/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	EPA8015D	TPH-Motor Oil	mg/kg	<	54.000	54.000	ND	A	
9344E410706F	11.00	ES-4107-06	11/01/93	SM5520	Non-Polar Oil and Grease (TRPH)	mg/kg	<	50.000	50.000	ND	A	

* Station Number * ES-4107-07 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E410001F	19.00	ES-4107-07	06/28/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9426E410001F	19.00	ES-4107-07	06/28/94	8015G/8020	Ethylbenzene	mg/kg		1.600	0.005		A	
9426E410001F	19.00	ES-4107-07	06/28/94	8015G/8020	TPH-Gasoline	mg/kg		95.000	1.000		A	
9426E410001F	19.00	ES-4107-07	06/28/94	8015G/8020	Toluene	mg/kg		0.028	0.005		A	
9426E410001F	19.00	ES-4107-07	06/28/94	8015G/8020	Xylenes	mg/kg		3.400	0.005		A	
9426E410001F	19.00	ES-4107-07	06/28/94	EPA8015D	TPH-Diesel	mg/kg		1200.000	10.000		A	

* Station Number * ES-4107-08 * Matrix Type * SOIL

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B1. Chemical Data Report - All Chemical Results, Site 4107
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-07/30/94

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E410002F	20.00	ES-4107-08	06/28/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9426E410002F	20.00	ES-4107-08	06/28/94	8015G/8020	Ethylbenzene	mg/kg		0.550	0.005		A	
9426E410002F	20.00	ES-4107-08	06/28/94	8015G/8020	TPH-Gasoline	mg/kg		78.000	1.000		A	
9426E410002F	20.00	ES-4107-08	06/28/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9426E410002F	20.00	ES-4107-08	06/28/94	8015G/8020	Xylenes	mg/kg		0.840	0.005		A	
9426E410002F	20.00	ES-4107-08	06/28/94	EPA8015D	TPH-Diesel	mg/kg		410.000	10.000		A	
* Station Number * ES-4107-09			* Matrix Type * SOIL									
9426E410003F	17.00	ES-4107-09	06/28/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9426E410003F	17.00	ES-4107-09	06/28/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9426E410003F	17.00	ES-4107-09	06/28/94	8015G/8020	TPH-Gasoline	mg/kg		4.600	1.000		AJ+	
9426E410003F	17.00	ES-4107-09	06/28/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9426E410003F	17.00	ES-4107-09	06/28/94	8015G/8020	Xylenes	mg/kg		0.100	0.005		AJ+	
9426E410003F	17.00	ES-4107-09	06/28/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U
* Station Number * ES-4107-10			* Matrix Type * SOIL									
9426E410004F	16.00	ES-4107-10	06/28/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9426E410004F	16.00	ES-4107-10	06/28/94	8015G/8020	Ethylbenzene	mg/kg		0.009	0.005		AJ+	
9426E410004F	16.00	ES-4107-10	06/28/94	8015G/8020	TPH-Gasoline	mg/kg		2.200	1.000		AJ+	
9426E410004F	16.00	ES-4107-10	06/28/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9426E410004F	16.00	ES-4107-10	06/28/94	8015G/8020	Xylenes	mg/kg		0.020	0.005		AJ+	
9426E410004F	16.00	ES-4107-10	06/28/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U
* Station Number * ES-4107-11			* Matrix Type * SOIL									
9430E410105F	28.00	ES-4107-11	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410105F	28.00	ES-4107-11	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410105F	28.00	ES-4107-11	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E410105F	28.00	ES-4107-11	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E410105F	28.00	ES-4107-11	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E410105F	28.00	ES-4107-11	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * ES-4107-12			* Matrix Type * SOIL									
9430E410106F	26.00	ES-4107-12	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410106F	26.00	ES-4107-12	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410106F	26.00	ES-4107-12	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E410106F	26.00	ES-4107-12	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E410106F	26.00	ES-4107-12	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E410106F	26.00	ES-4107-12	07/29/94	EPA8015D	TPH-Diesel	mg/kg		9.000	1.000		A	
* Station Number * ES-4107-13			* Matrix Type * SOIL									
9430E410108F	26.00	ES-4107-13	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410108F	26.00	ES-4107-13	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410108F	26.00	ES-4107-13	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B1. Chemical Data Report - All Chemical Results, Site 4107
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-07/30/94

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E410108F	26.00	ES-4107-13	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E410108F	26.00	ES-4107-13	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E410108F	26.00	ES-4107-13	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * ES-4107-14			* Matrix Type * SOIL									
9430E410109F	22.00	ES-4107-14	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410109F	22.00	ES-4107-14	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410109F	22.00	ES-4107-14	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E410109F	22.00	ES-4107-14	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E410109F	22.00	ES-4107-14	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E410109F	22.00	ES-4107-14	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * ES-4107-15			* Matrix Type * SOIL									
9430E410110F	28.00	ES-4107-15	07/29/94	8015G/8020	Benzene	ug/kg	<	5.300	5.300	ND	A	
9430E410110F	28.00	ES-4107-15	07/29/94	8015G/8020	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9430E410110F	28.00	ES-4107-15	07/29/94	8015G/8020	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9430E410110F	28.00	ES-4107-15	07/29/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9430E410110F	28.00	ES-4107-15	07/29/94	8015G/8020	Toluene	ug/kg	<	5.300	5.300	ND	A	
9430E410110F	28.00	ES-4107-15	07/29/94	8015G/8020	Xylenes	ug/kg	<	5.300	5.300	ND	A	
9430E410110F	28.00	ES-4107-15	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9430E410110F	28.00	ES-4107-15	07/29/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9430E410111F	28.00	ES-4107-15	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410111F	28.00	ES-4107-15	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410111F	28.00	ES-4107-15	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E410111F	28.00	ES-4107-15	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E410111F	28.00	ES-4107-15	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E410111F	28.00	ES-4107-15	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * ES-4107-16			* Matrix Type * SOIL									
9430E410112F	18.00	ES-4107-16	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410112F	18.00	ES-4107-16	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410112F	18.00	ES-4107-16	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E410112F	18.00	ES-4107-16	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E410112F	18.00	ES-4107-16	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E410112F	18.00	ES-4107-16	07/29/94	EPA8015D	TPH-Diesel	mg/kg		8.000	1.000		A	
* Station Number * ES-4107-17			* Matrix Type * SOIL									
9430E410113F	18.00	ES-4107-17	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410113F	18.00	ES-4107-17	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E410113F	18.00	ES-4107-17	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E410113F	18.00	ES-4107-17	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E410113F	18.00	ES-4107-17	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E410113F	18.00	ES-4107-17	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B1. Chemical Data Report - All Chemical Results, Site 4107
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-07/30/94

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
* Station Number * SP-4107-4A-4D		* Matrix Type * SOIL										
9430E41114AF	0.00	SP-4107-4A-4D	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E41114AF	0.00	SP-4107-4A-4D	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E41114AF	0.00	SP-4107-4A-4D	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E41114AF	0.00	SP-4107-4A-4D	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E41114AF	0.00	SP-4107-4A-4D	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E41114AF	0.00	SP-4107-4A-4D	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * SP-4107-5A-5D		* Matrix Type * SOIL										
9430E41115AF	0.00	SP-4107-5A-5D	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E41115AF	0.00	SP-4107-5A-5D	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E41115AF	0.00	SP-4107-5A-5D	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E41115AF	0.00	SP-4107-5A-5D	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E41115AF	0.00	SP-4107-5A-5D	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E41115AF	0.00	SP-4107-5A-5D	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * SP-4107-6A-6D		* Matrix Type * SOIL										
9430E41116AF	0.00	SP-4107-6A-6D	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E41116AF	0.00	SP-4107-6A-6D	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E41116AF	0.00	SP-4107-6A-6D	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E41116AF	0.00	SP-4107-6A-6D	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E41116AF	0.00	SP-4107-6A-6D	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E41116AF	0.00	SP-4107-6A-6D	07/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * SP-4107-7A-7D		* Matrix Type * SOIL										
9430E41117AF	0.00	SP-4107-7A-7D	07/29/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E41117AF	0.00	SP-4107-7A-7D	07/29/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E41117AF	0.00	SP-4107-7A-7D	07/29/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E41117AF	0.00	SP-4107-7A-7D	07/29/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E41117AF	0.00	SP-4107-7A-7D	07/29/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E41117AF	0.00	SP-4107-7A-7D	07/29/94	EPA8015D	TPH-Diesel	mg/kg		4.000	1.000		A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

* Station Number * ES-4110-01 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411015F	41.00	ES-4110-01	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411015F	41.00	ES-4110-01	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411015F	41.00	ES-4110-01	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411015F	41.00	ES-4110-01	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411015F	41.00	ES-4110-01	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411015F	41.00	ES-4110-01	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U

* Station Number * ES-4110-03 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411017F	39.00	ES-4110-03	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411017F	39.00	ES-4110-03	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411017F	39.00	ES-4110-03	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411017F	39.00	ES-4110-03	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411017F	39.00	ES-4110-03	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411017F	39.00	ES-4110-03	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U

* Station Number * ES-4110-04 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411018F	38.00	ES-4110-04	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411018F	38.00	ES-4110-04	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411018F	38.00	ES-4110-04	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411018F	38.00	ES-4110-04	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411018F	38.00	ES-4110-04	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411018F	38.00	ES-4110-04	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U

* Station Number * ES-4110-05 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411019F	38.00	ES-4110-05	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411019F	38.00	ES-4110-05	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411019F	38.00	ES-4110-05	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411019F	38.00	ES-4110-05	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411019F	38.00	ES-4110-05	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411019F	38.00	ES-4110-05	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U

* Station Number * ES-4110-06 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411020F	38.00	ES-4110-06	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411020F	38.00	ES-4110-06	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411020F	38.00	ES-4110-06	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411020F	38.00	ES-4110-06	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411020F	38.00	ES-4110-06	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411020F	38.00	ES-4110-06	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U

* Station Number * ES-4110-07 * Matrix Type * SOIL

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411021F	32.00	ES-4110-07	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411021F	32.00	ES-4110-07	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411021F	32.00	ES-4110-07	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411021F	32.00	ES-4110-07	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411021F	32.00	ES-4110-07	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411021F	32.00	ES-4110-07	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U
* Station Number * ES-4110-08			* Matrix Type * SOIL									
9425E411022F	16.00	ES-4110-08	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411022F	16.00	ES-4110-08	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411022F	16.00	ES-4110-08	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411022F	16.00	ES-4110-08	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411022F	16.00	ES-4110-08	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411022F	16.00	ES-4110-08	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U
* Station Number * ES-4110-09			* Matrix Type * SOIL									
9425E411023F	20.00	ES-4110-09	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411023F	20.00	ES-4110-09	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411023F	20.00	ES-4110-09	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411023F	20.00	ES-4110-09	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411023F	20.00	ES-4110-09	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411023F	20.00	ES-4110-09	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U
* Station Number * ES-4110-10			* Matrix Type * SOIL									
9425E411024F	20.00	ES-4110-10	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411024F	20.00	ES-4110-10	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411024F	20.00	ES-4110-10	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411024F	20.00	ES-4110-10	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411024F	20.00	ES-4110-10	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411024F	20.00	ES-4110-10	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U
* Station Number * ES-4110-11			* Matrix Type * SOIL									
9425E411025F	41.00	ES-4110-11	06/23/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411025F	41.00	ES-4110-11	06/23/94	8015G/8020	Ethylbenzene	mg/kg		0.190	0.005		A	
9425E411025F	41.00	ES-4110-11	06/23/94	8015G/8020	TPH-Gasoline	mg/kg		11.000	1.000		A	
9425E411025F	41.00	ES-4110-11	06/23/94	8015G/8020	Toluene	mg/kg		0.006	0.005		A	
9425E411025F	41.00	ES-4110-11	06/23/94	8015G/8020	Xylenes	mg/kg		0.430	0.005		A	
9425E411025F	41.00	ES-4110-11	06/23/94	EPA8015D	TPH-Diesel	mg/kg		21.000	10.000		A	
9425E411025FF	0.00	ES-4110-11	06/23/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9425E411026F	41.00	ES-4110-11	06/23/94	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9425E411026F	41.00	ES-4110-11	06/23/94	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9425E411026F	41.00	ES-4110-11	06/23/94	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411026F	41.00	ES-4110-11	06/23/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg		7900.000	1000.000		A	d
9425E411026F	41.00	ES-4110-11	06/23/94	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9425E411026F	41.00	ES-4110-11	06/23/94	8015G/8020	Xylenes	ug/kg		11.000	5.000		A	
9425E411026F	41.00	ES-4110-11	06/23/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9425E411026F	41.00	ES-4110-11	06/23/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	R
9425E411026F	41.00	ES-4110-11	06/23/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		45.000	10.000		A	d

* Station Number * ES-4110-12 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E411088F	18.00	ES-4110-12	07/27/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411088F	18.00	ES-4110-12	07/27/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411088F	18.00	ES-4110-12	07/27/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E411088F	18.00	ES-4110-12	07/27/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E411088F	18.00	ES-4110-12	07/27/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E411088F	18.00	ES-4110-12	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E411088F	18.00	ES-4110-12	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	

* Station Number * ES-4110-13 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E411089F	26.00	ES-4110-13	07/27/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411089F	26.00	ES-4110-13	07/27/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411089F	26.00	ES-4110-13	07/27/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E411089F	26.00	ES-4110-13	07/27/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E411089F	26.00	ES-4110-13	07/27/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E411089F	26.00	ES-4110-13	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9430E411089F	26.00	ES-4110-13	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U

* Station Number * ES-4110-14 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E411090F	28.00	ES-4110-14	07/27/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411090F	28.00	ES-4110-14	07/27/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411090F	28.00	ES-4110-14	07/27/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E411090F	28.00	ES-4110-14	07/27/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E411090F	28.00	ES-4110-14	07/27/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E411090F	28.00	ES-4110-14	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9430E411090F	28.00	ES-4110-14	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9430E411091F	28.00	ES-4110-14	07/27/94	8015G/8020	Benzene	ug/kg	<	6.000	6.000	ND	A	
9430E411091F	28.00	ES-4110-14	07/27/94	8015G/8020	Ethylbenzene	ug/kg	<	6.000	6.000	ND	A	
9430E411091F	28.00	ES-4110-14	07/27/94	8015G/8020	TPH-Gasoline	ug/kg	<	1200.000	1200.000	ND	A	
9430E411091F	28.00	ES-4110-14	07/27/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1200.000	1200.000	ND	A	
9430E411091F	28.00	ES-4110-14	07/27/94	8015G/8020	Toluene	ug/kg	<	6.000	6.000	ND	A	
9430E411091F	28.00	ES-4110-14	07/27/94	8015G/8020	Xylenes	ug/kg	<	6.000	6.000	ND	A	
9430E411091F	28.00	ES-4110-14	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.200	1.200	ND	A	
9430E411091F	28.00	ES-4110-14	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.200	1.200	ND	A	
9430E411091F	28.00	ES-4110-14	07/27/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	12.000	12.000	ND	A	

* Station Number * ES-4110-15 * Matrix Type * SOIL

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E411096F	26.00	ES-4110-15	07/27/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411096F	26.00	ES-4110-15	07/27/94	8015G/8020	Ethylbenzene	mg/kg		7.400	0.005		A	
9430E411096F	26.00	ES-4110-15	07/27/94	8015G/8020	TPH-Gasoline	mg/kg		190.000	1.000		A	
9430E411096F	26.00	ES-4110-15	07/27/94	8015G/8020	Toluene	mg/kg		6.100	0.005		A	
9430E411096F	26.00	ES-4110-15	07/27/94	8015G/8020	Xylenes	mg/kg		35.000	0.005		A	
9430E411096F	26.00	ES-4110-15	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E411096F	26.00	ES-4110-15	07/27/94	EPA8015D	TPH-Diesel	mg/kg		850.000	1.000		A	

* Station Number * ES-4110-16 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E411097F	40.00	ES-4110-16	07/27/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411097F	40.00	ES-4110-16	07/27/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411097F	40.00	ES-4110-16	07/27/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E411097F	40.00	ES-4110-16	07/27/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E411097F	40.00	ES-4110-16	07/27/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E411097F	40.00	ES-4110-16	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9430E411097F	40.00	ES-4110-16	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9430E411099F	40.00	ES-4110-16	07/27/94	8015G/8020	Benzene	ug/kg	<	5.700	5.700	ND	A	
9430E411099F	40.00	ES-4110-16	07/27/94	8015G/8020	Ethylbenzene	ug/kg	<	5.700	5.700	ND	A	
9430E411099F	40.00	ES-4110-16	07/27/94	8015G/8020	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9430E411099F	40.00	ES-4110-16	07/27/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9430E411099F	40.00	ES-4110-16	07/27/94	8015G/8020	Toluene	ug/kg	<	5.700	5.700	ND	A	
9430E411099F	40.00	ES-4110-16	07/27/94	8015G/8020	Xylenes	ug/kg	<	5.700	5.700	ND	A	
9430E411099F	40.00	ES-4110-16	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9430E411099F	40.00	ES-4110-16	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9430E411099F	40.00	ES-4110-16	07/27/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	

* Station Number * ES-4110-17 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E411100F	20.00	ES-4110-17	07/27/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411100F	20.00	ES-4110-17	07/27/94	8015G/8020	Ethylbenzene	mg/kg		0.320	0.005		A	
9430E411100F	20.00	ES-4110-17	07/27/94	8015G/8020	TPH-Gasoline	mg/kg		14.000	1.000		A	
9430E411100F	20.00	ES-4110-17	07/27/94	8015G/8020	Toluene	mg/kg		0.009	0.005		A	
9430E411100F	20.00	ES-4110-17	07/27/94	8015G/8020	Xylenes	mg/kg		0.170	0.005		A	
9430E411100F	20.00	ES-4110-17	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E411100F	20.00	ES-4110-17	07/27/94	EPA8015D	TPH-Diesel	mg/kg		63.000	1.000		A	

* Station Number * ES-4110-18 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E411101F	20.00	ES-4110-18	07/27/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411101F	20.00	ES-4110-18	07/27/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411101F	20.00	ES-4110-18	07/27/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E411101F	20.00	ES-4110-18	07/27/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E411101F	20.00	ES-4110-18	07/27/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E411101F	20.00	ES-4110-18	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E411101F	20.00	ES-4110-18	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

* Station Number * ES-4110-19 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9430E411102F	20.00	ES-4110-19	07/27/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411102F	20.00	ES-4110-19	07/27/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9430E411102F	20.00	ES-4110-19	07/27/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9430E411102F	20.00	ES-4110-19	07/27/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9430E411102F	20.00	ES-4110-19	07/27/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9430E411102F	20.00	ES-4110-19	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.200	1.200	ND	A	
9430E411102F	20.00	ES-4110-19	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U

* Station Number * SB-4110-01 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9343C411030F	6.00	SB-4110-01	10/27/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	AJ-	
9343C411030F	6.00	SB-4110-01	10/27/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	AJ-	
9343C411030F	6.00	SB-4110-01	10/27/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	AJ-	
9343C411030F	6.00	SB-4110-01	10/27/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	AJ-	
9343C411030F	6.00	SB-4110-01	10/27/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	AJ-	
9343C411030F	6.00	SB-4110-01	10/27/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	AJ-	
9343C411030F	6.00	SB-4110-01	10/27/93	EPA7421	Lead	mg/kg		13.500	0.650		AJ+	N
9343C411030F	6.00	SB-4110-01	10/27/93	EPA8015D	TPH-Diesel	mg/kg	<	31.000	31.000	ND	A	R
9343C411030F	6.00	SB-4110-01	10/27/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		220.000	31.000		A	1
9343C411032F	11.00	SB-4110-01	10/27/93	8015G/8020	Benzene	ug/kg	<	300.000	300.000	ND	A	R
9343C411032F	11.00	SB-4110-01	10/27/93	8015G/8020	Ethylbenzene	ug/kg		1400.000	300.000		A	
9343C411032F	11.00	SB-4110-01	10/27/93	8015G/8020	TPH-Gasoline	ug/kg		4000000.000	500000.000		A	1
9343C411032F	11.00	SB-4110-01	10/27/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	500000.000	500000.000	ND	A	
9343C411032F	11.00	SB-4110-01	10/27/93	8015G/8020	Toluene	ug/kg		270.000	300.000		A	J
9343C411032F	11.00	SB-4110-01	10/27/93	8015G/8020	Xylenes	ug/kg		5800.000	600.000		A	
9343C411032F	11.00	SB-4110-01	10/27/93	EPA7421	Lead	mg/kg		1.400	0.330		AJ+	N
9343C411032F	11.00	SB-4110-01	10/27/93	EPA8015D	TPH-Diesel	mg/kg	<	190.000	190.000	ND	A	R
9343C411032F	11.00	SB-4110-01	10/27/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		1700.000	190.000		A	1
9343C411033F	16.00	SB-4110-01	10/27/93	8015G/8020	Benzene	ug/kg	<	2500.000	2500.000	ND	A	R
9343C411033F	16.00	SB-4110-01	10/27/93	8015G/8020	Ethylbenzene	ug/kg		34000.000	2500.000		AJ+	
9343C411033F	16.00	SB-4110-01	10/27/93	8015G/8020	TPH-Gasoline	ug/kg		6300000.000	500000.000		AJ+	1
9343C411033F	16.00	SB-4110-01	10/27/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	500000.000	500000.000	ND	A	
9343C411033F	16.00	SB-4110-01	10/27/93	8015G/8020	Toluene	ug/kg		23000.000	2500.000		AJ+	
9343C411033F	16.00	SB-4110-01	10/27/93	8015G/8020	Xylenes	ug/kg		300000.000	5000.000		AJ+	
9343C411033F	16.00	SB-4110-01	10/27/93	EPA7421	Lead	mg/kg		0.790	0.320		AJ+	N
9343C411033F	16.00	SB-4110-01	10/27/93	EPA8015D	TPH-Diesel	mg/kg	<	62.000	62.000	ND	A	R
9343C411033F	16.00	SB-4110-01	10/27/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		2300.000	62.000		A	1
9343C411034F	21.00	SB-4110-01	10/27/93	8015G/8020	Benzene	ug/kg	<	2500.000	2500.000	ND	A	R
9343C411034F	21.00	SB-4110-01	10/27/93	8015G/8020	Ethylbenzene	ug/kg		25000.000	2500.000		A	
9343C411034F	21.00	SB-4110-01	10/27/93	8015G/8020	TPH-Gasoline	ug/kg		2700000.000	500000.000		A	1
9343C411034F	21.00	SB-4110-01	10/27/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	500000.000	500000.000	ND	A	
9343C411034F	21.00	SB-4110-01	10/27/93	8015G/8020	Toluene	ug/kg		13000.000	2500.000		A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9343C411034F	21.00	SB-4110-01	10/27/93	8015G/8020	Xylenes	ug/kg		180000.000	5000.000		A	
9343C411034F	21.00	SB-4110-01	10/27/93	EPA7421	Lead	mg/kg		1.000	0.320		AJ+	N
9343C411034F	21.00	SB-4110-01	10/27/93	EPA8015D	TPH-Diesel	mg/kg	<	93.000	93.000	ND	A	R
9343C411034F	21.00	SB-4110-01	10/27/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		840.000	93.000		A	1
9343C411035F	26.00	SB-4110-01	10/27/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411035F	26.00	SB-4110-01	10/27/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411035F	26.00	SB-4110-01	10/27/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411035F	26.00	SB-4110-01	10/27/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411035F	26.00	SB-4110-01	10/27/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411035F	26.00	SB-4110-01	10/27/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411035F	26.00	SB-4110-01	10/27/93	EPA7421	Lead	mg/kg		0.880	0.320		AJ+	N
9343C411035F	26.00	SB-4110-01	10/27/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411035F	26.00	SB-4110-01	10/27/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411040F	81.00	SB-4110-01	10/27/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	AJ-	
9343C411040F	81.00	SB-4110-01	10/27/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	AJ-	
9343C411040F	81.00	SB-4110-01	10/27/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	AJ-	
9343C411040F	81.00	SB-4110-01	10/27/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	AJ-	
9343C411040F	81.00	SB-4110-01	10/27/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	AJ-	
9343C411040F	81.00	SB-4110-01	10/27/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	AJ-	
9343C411040F	81.00	SB-4110-01	10/27/93	EPA7421	Lead	mg/kg		0.740	0.320		AJ+	N
9343C411040F	81.00	SB-4110-01	10/27/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411040F	81.00	SB-4110-01	10/27/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SB-4110-02 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9343C411042F	6.00	SB-4110-02	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411042F	6.00	SB-4110-02	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411042F	6.00	SB-4110-02	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411042F	6.00	SB-4110-02	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411042F	6.00	SB-4110-02	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411042F	6.00	SB-4110-02	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411042F	6.00	SB-4110-02	10/28/93	EPA7421	Lead	mg/kg		2.100	0.320		A	W
9343C411042F	6.00	SB-4110-02	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411042F	6.00	SB-4110-02	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	8015G/8020	unknown hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	EPA7421	Lead	mg/kg	<	0.320	0.320	ND	A	U
9343C411045F	21.00	SB-4110-02	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411045F	21.00	SB-4110-02	10/28/93	EPA8015D	unknown hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9343C411048F	31.00	SB-4110-02	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411048F	31.00	SB-4110-02	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411048F	31.00	SB-4110-02	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411048F	31.00	SB-4110-02	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411048F	31.00	SB-4110-02	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411048F	31.00	SB-4110-02	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411048F	31.00	SB-4110-02	10/28/93	EPA7421	Lead	mg/kg	<	1.200	1.200	ND	AU	
9343C411048F	31.00	SB-4110-02	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411048F	31.00	SB-4110-02	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411049F	36.00	SB-4110-02	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411049F	36.00	SB-4110-02	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411049F	36.00	SB-4110-02	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411049F	36.00	SB-4110-02	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411049F	36.00	SB-4110-02	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411049F	36.00	SB-4110-02	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411049F	36.00	SB-4110-02	10/28/93	EPA7421	Lead	mg/kg	<	1.200	1.200	ND	AU	
9343C411049F	36.00	SB-4110-02	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411049F	36.00	SB-4110-02	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SB-4110-03 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9343C411055F	26.00	SB-4110-03	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411055F	26.00	SB-4110-03	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411055F	26.00	SB-4110-03	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411055F	26.00	SB-4110-03	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411055F	26.00	SB-4110-03	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411055F	26.00	SB-4110-03	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411055F	26.00	SB-4110-03	10/28/93	EPA7421	Lead	mg/kg	<	1.700	1.700	ND	AU	
9343C411055F	26.00	SB-4110-03	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9343C411055F	26.00	SB-4110-03	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9343C411056F	31.00	SB-4110-03	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411056F	31.00	SB-4110-03	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411056F	31.00	SB-4110-03	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411056F	31.00	SB-4110-03	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411056F	31.00	SB-4110-03	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411056F	31.00	SB-4110-03	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411056F	31.00	SB-4110-03	10/28/93	EPA7421	Lead	mg/kg	<	1.200	1.200	ND	AU	
9343C411056F	31.00	SB-4110-03	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411056F	31.00	SB-4110-03	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411058F	41.00	SB-4110-03	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411058F	41.00	SB-4110-03	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411058F	41.00	SB-4110-03	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411058F	41.00	SB-4110-03	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411058F	41.00	SB-4110-03	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411058F	41.00	SB-4110-03	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9343C411058F	41.00	SB-4110-03	10/28/93	EPA7421	Lead	mg/kg	<	1.100	1.100	ND	AU	
9343C411058F	41.00	SB-4110-03	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411058F	41.00	SB-4110-03	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SB-4110-04 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9343C411060F	11.00	SB-4110-04	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411060F	11.00	SB-4110-04	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411060F	11.00	SB-4110-04	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411060F	11.00	SB-4110-04	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411060F	11.00	SB-4110-04	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411060F	11.00	SB-4110-04	10/28/93	8015G/8020	unknown hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411060F	11.00	SB-4110-04	10/28/93	EPA7421	Lead	mg/kg		0.330	0.320		AJ+	B
9343C411060F	11.00	SB-4110-04	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411060F	11.00	SB-4110-04	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411060F	11.00	SB-4110-04	10/28/93	EPA8015D	unknown hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411063F	26.00	SB-4110-04	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411063F	26.00	SB-4110-04	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411063F	26.00	SB-4110-04	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411063F	26.00	SB-4110-04	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411063F	26.00	SB-4110-04	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411063F	26.00	SB-4110-04	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411063F	26.00	SB-4110-04	10/28/93	EPA7421	Lead	mg/kg	<	1.600	1.600	ND	AU	
9343C411063F	26.00	SB-4110-04	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9343C411063F	26.00	SB-4110-04	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		21.000	11.000		A	1
9343C411064F	31.00	SB-4110-04	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411064F	31.00	SB-4110-04	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411064F	31.00	SB-4110-04	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411064F	31.00	SB-4110-04	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411064F	31.00	SB-4110-04	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411064F	31.00	SB-4110-04	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411064F	31.00	SB-4110-04	10/28/93	EPA7421	Lead	mg/kg	<	1.100	1.100	ND	AU	
9343C411064F	31.00	SB-4110-04	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9343C411064F	31.00	SB-4110-04	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9343C411066F	41.00	SB-4110-04	10/28/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411066F	41.00	SB-4110-04	10/28/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411066F	41.00	SB-4110-04	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411066F	41.00	SB-4110-04	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411066F	41.00	SB-4110-04	10/28/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411066F	41.00	SB-4110-04	10/28/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411066F	41.00	SB-4110-04	10/28/93	EPA7421	Lead	mg/kg	<	0.660	0.660	ND	AU	W
9343C411066F	41.00	SB-4110-04	10/28/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411066F	41.00	SB-4110-04	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SB-4110-05 * Matrix Type * SOIL

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units	Value	Reporting Limit		HLA Qual	Lab Qual
9343C411068F	11.00	SB-4110-05	10/28/93	8015G/8020	Benzene	ug/kg	< 5.000	5.000	ND	A	
9343C411068F	11.00	SB-4110-05	10/28/93	8015G/8020	Ethylbenzene	ug/kg	< 5.000	5.000	ND	A	
9343C411068F	11.00	SB-4110-05	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	< 1000.000	1000.000	ND	A	
9343C411068F	11.00	SB-4110-05	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	< 1000.000	1000.000	ND	A	
9343C411068F	11.00	SB-4110-05	10/28/93	8015G/8020	Toluene	ug/kg	< 5.000	5.000	ND	A	
9343C411068F	11.00	SB-4110-05	10/28/93	8015G/8020	Xylenes	ug/kg	< 5.000	5.000	ND	A	
9343C411068F	11.00	SB-4110-05	10/28/93	EPA7421	Lead	mg/kg	12.600	0.320		A	
9343C411068F	11.00	SB-4110-05	10/28/93	EPA8015D	TPH-Diesel	mg/kg	< 10.000	10.000	ND	A	
9343C411068F	11.00	SB-4110-05	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	< 10.000	10.000	ND	A	
9343C411069F	16.00	SB-4110-05	10/28/93	8015G/8020	Benzene	ug/kg	< 2500.000	2500.000	ND	AJ	R
9343C411069F	16.00	SB-4110-05	10/28/93	8015G/8020	Ethylbenzene	ug/kg	13000.000	2500.000		A	
9343C411069F	16.00	SB-4110-05	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	4300000.000	500000.000		A	1
9343C411069F	16.00	SB-4110-05	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	< 500000.000	500000.000	ND	A	
9343C411069F	16.00	SB-4110-05	10/28/93	8015G/8020	Toluene	ug/kg	5400.000	2500.000		A	
9343C411069F	16.00	SB-4110-05	10/28/93	8015G/8020	Xylenes	ug/kg	150000.000	5000.000		A	
9343C411069F	16.00	SB-4110-05	10/28/93	EPA7421	Lead	mg/kg	< 1.100	1.100	ND	AU	W
9343C411069F	16.00	SB-4110-05	10/28/93	EPA8015D	TPH-Diesel	mg/kg	< 93.000	93.000	ND	A	R
9343C411069F	16.00	SB-4110-05	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	2000.000	93.000		A	1
9343C411070F	21.00	SB-4110-05	10/28/93	8015G/8020	Benzene	ug/kg	< 5.000	5.000	ND	A	
9343C411070F	21.00	SB-4110-05	10/28/93	8015G/8020	Ethylbenzene	ug/kg	< 5.000	5.000	ND	A	
9343C411070F	21.00	SB-4110-05	10/28/93	8015G/8020	TPH-Gasoline	ug/kg	< 1000.000	1000.000	ND	A	
9343C411070F	21.00	SB-4110-05	10/28/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	< 1000.000	1000.000	ND	A	
9343C411070F	21.00	SB-4110-05	10/28/93	8015G/8020	Toluene	ug/kg	< 5.000	5.000	ND	A	
9343C411070F	21.00	SB-4110-05	10/28/93	8015G/8020	Xylenes	ug/kg	< 5.000	5.000	ND	A	
9343C411070F	21.00	SB-4110-05	10/28/93	EPA7421	Lead	mg/kg	< 0.850	0.850	ND	AU	
9343C411070F	21.00	SB-4110-05	10/28/93	EPA8015D	TPH-Diesel	mg/kg	< 16.000	16.000	ND	A	R
9343C411070F	21.00	SB-4110-05	10/28/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	34.000	16.000		A	1

* Station Number * SB-4110-06 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units	Value	Reporting Limit		HLA Qual	Lab Qual
9343C411077F	16.00	SB-4110-06	10/29/93	8015G/8020	Benzene	ug/kg	< 2500.000	2500.000	ND	AJ	R
9343C411077F	16.00	SB-4110-06	10/29/93	8015G/8020	Ethylbenzene	ug/kg	44000.000	2500.000		A	
9343C411077F	16.00	SB-4110-06	10/29/93	8015G/8020	TPH-Gasoline	ug/kg	5500000.000	500000.000		A	1
9343C411077F	16.00	SB-4110-06	10/29/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	< 500000.000	500000.000	ND	A	
9343C411077F	16.00	SB-4110-06	10/29/93	8015G/8020	Toluene	ug/kg	25000.000	2500.000		A	
9343C411077F	16.00	SB-4110-06	10/29/93	8015G/8020	Xylenes	ug/kg	380000.000	5000.000		A	
9343C411077F	16.00	SB-4110-06	10/29/93	EPA7421	Lead	mg/kg	< 0.740	0.740	ND	AU	
9343C411077F	16.00	SB-4110-06	10/29/93	EPA8015D	TPH-Diesel	mg/kg	< 94.000	94.000	ND	A	R
9343C411077F	16.00	SB-4110-06	10/29/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	2100.000	94.000		A	1
9343C411078F	21.00	SB-4110-06	10/29/93	8015G/8020	Benzene	ug/kg	< 5.000	5.000	ND	A	
9343C411078F	21.00	SB-4110-06	10/29/93	8015G/8020	Ethylbenzene	ug/kg	< 5.000	5.000	ND	A	
9343C411078F	21.00	SB-4110-06	10/29/93	8015G/8020	TPH-Gasoline	ug/kg	< 1000.000	1000.000	ND	A	
9343C411078F	21.00	SB-4110-06	10/29/93	8015G/8020	Toluene	ug/kg	< 5.000	5.000	ND	A	
9343C411078F	21.00	SB-4110-06	10/29/93	8015G/8020	Xylenes	ug/kg	< 5.000	5.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		BLA Qual	Lab Qual
9343C411078F	21.00	SB-4110-06	10/29/93	8015G/8020	unknown hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411078F	21.00	SB-4110-06	10/29/93	EPA7421	Lead	mg/kg	<	0.320	0.320	ND	A	U
9343C411078F	21.00	SB-4110-06	10/29/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411078F	21.00	SB-4110-06	10/29/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411078F	21.00	SB-4110-06	10/29/93	EPA8015D	unknown hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	8015G/8020	unknown hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	EPA7421	Lead	mg/kg		0.820	0.320		AJ+	
9343C411082F	41.00	SB-4110-06	10/29/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9343C411082F	41.00	SB-4110-06	10/29/93	EPA8015D	unknown hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SB-4110-07 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		BLA Qual	Lab Qual
9343C411087F	26.00	SB-4110-07	10/29/93	8015G/8020	Benzene	ug/kg	<	50.000	50.000	ND	AJ-	
9343C411087F	26.00	SB-4110-07	10/29/93	8015G/8020	Ethylbenzene	ug/kg	<	50.000	50.000	ND	AJ-	
9343C411087F	26.00	SB-4110-07	10/29/93	8015G/8020	TPH-Gasoline	ug/kg	<	10000.000	10000.000	ND	AJ-	
9343C411087F	26.00	SB-4110-07	10/29/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg		37000.000	10000.000		AJ-	d
9343C411087F	26.00	SB-4110-07	10/29/93	8015G/8020	Toluene	ug/kg	<	50.000	50.000	ND	AJ-	
9343C411087F	26.00	SB-4110-07	10/29/93	8015G/8020	Xylenes	ug/kg	<	50.000	50.000	ND	AJ-	
9343C411087F	26.00	SB-4110-07	10/29/93	EPA7421	Lead	mg/kg		0.530	0.330		AJ+	B
9343C411087F	26.00	SB-4110-07	10/29/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9343C411087F	26.00	SB-4110-07	10/29/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9343C411087F	26.00	SB-4110-07	10/29/93	EPA8015D	unknown hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9343C411088F	31.00	SB-4110-07	10/29/93	8015G/8020	Benzene	ug/kg	<	250.000	250.000	ND	AJ-	R
9343C411088F	31.00	SB-4110-07	10/29/93	8015G/8020	Ethylbenzene	ug/kg	<	250.000	250.000	ND	AJ-	
9343C411088F	31.00	SB-4110-07	10/29/93	8015G/8020	TPH-Gasoline	ug/kg	<	50000.000	50000.000	ND	AJ-	
9343C411088F	31.00	SB-4110-07	10/29/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg		360000.000	50000.000		AJ-	d
9343C411088F	31.00	SB-4110-07	10/29/93	8015G/8020	Toluene	ug/kg	<	250.000	250.000	ND	AJ-	
9343C411088F	31.00	SB-4110-07	10/29/93	8015G/8020	Xylenes	ug/kg	<	500.000	500.000	ND	AJ-	
9343C411088F	31.00	SB-4110-07	10/29/93	EPA7421	Lead	mg/kg		0.390	0.330		AJ+	B
9343C411088F	31.00	SB-4110-07	10/29/93	EPA8015D	TPH-Diesel	mg/kg	<	48.000	48.000	ND	A	R
9343C411088F	31.00	SB-4110-07	10/29/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		1200.000	48.000		A	d
9343C411090F	41.00	SB-4110-07	10/29/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9343C411090F	41.00	SB-4110-07	10/29/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9343C411090F	41.00	SB-4110-07	10/29/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9343C411090F	41.00	SB-4110-07	10/29/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9343C411090F	41.00	SB-4110-07	10/29/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9343C411090F	41.00	SB-4110-07	10/29/93	8015G/8020	unknown hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9343C411090F	41.00	SB-4110-07	10/29/93	EPA7421	Lead	mg/kg	<	0.370	0.370	ND	A	U
9343C411090F	41.00	SB-4110-07	10/29/93	EPA8015D	TPH-Diesel	mg/kg	<	12.000	12.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9343C411090F	41.00	SB-4110-07	10/29/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	12.000	12.000	ND	A	
9343C411090F	41.00	SB-4110-07	10/29/93	EPA8015D	unknown hydrocarbon	mg/kg	<	12.000	12.000	ND	A	
* Station Number * SB-4110-08			* Matrix Type * SOIL									
9450Z411009F	30.00	SB-4110-08	12/13/94	8015G/8020	Benzene	ug/kg	<	5.300	5.300	ND	A	
9450Z411009F	30.00	SB-4110-08	12/13/94	8015G/8020	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9450Z411009F	30.00	SB-4110-08	12/13/94	8015G/8020	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9450Z411009F	30.00	SB-4110-08	12/13/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9450Z411009F	30.00	SB-4110-08	12/13/94	8015G/8020	Toluene	ug/kg	<	5.300	5.300	ND	A	
9450Z411009F	30.00	SB-4110-08	12/13/94	8015G/8020	Xylenes	ug/kg	<	5.300	5.300	ND	A	
9450Z411009F	30.00	SB-4110-08	12/13/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9450Z411009F	30.00	SB-4110-08	12/13/94	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9450Z411009F	30.00	SB-4110-08	12/13/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	8015G/8020	Benzene	ug/kg	<	5.100	5.100	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	8015G/8020	Ethylbenzene	ug/kg	<	5.100	5.100	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	8015G/8020	Toluene	ug/kg	<	5.100	5.100	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	8015G/8020	Xylenes	ug/kg	<	5.100	5.100	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450Z411010F	40.00	SB-4110-08	12/13/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
* Station Number * SB-4110-09			* Matrix Type * SOIL									
9450Z411011F	30.00	SB-4110-09	12/14/94	8015G/8020	Benzene	ug/kg	<	5.200	5.200	ND	A	
9450Z411011F	30.00	SB-4110-09	12/14/94	8015G/8020	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9450Z411011F	30.00	SB-4110-09	12/14/94	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450Z411011F	30.00	SB-4110-09	12/14/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450Z411011F	30.00	SB-4110-09	12/14/94	8015G/8020	Toluene	ug/kg	<	5.200	5.200	ND	A	
9450Z411011F	30.00	SB-4110-09	12/14/94	8015G/8020	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9450Z411011F	30.00	SB-4110-09	12/14/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9450Z411011F	30.00	SB-4110-09	12/14/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450Z411011F	30.00	SB-4110-09	12/14/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	8015G/8020	Benzene	ug/kg	<	5.200	5.200	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	8015G/8020	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	8015G/8020	Toluene	ug/kg	<	5.200	5.200	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	8015G/8020	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450Z411012F	40.00	SB-4110-09	12/14/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
* Station Number * SB-4110-10			* Matrix Type * SOIL									

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9504E411062F	25.00	SB-4110-10	01/27/95	8015G/8020	Benzene	ug/kg	<	5.300	5.300	ND	A	
9504E411062F	25.00	SB-4110-10	01/27/95	8015G/8020	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9504E411062F	25.00	SB-4110-10	01/27/95	8015G/8020	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9504E411062F	25.00	SB-4110-10	01/27/95	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9504E411062F	25.00	SB-4110-10	01/27/95	8015G/8020	Toluene	ug/kg	<	5.300	5.300	ND	A	
9504E411062F	25.00	SB-4110-10	01/27/95	8015G/8020	Xylenes	ug/kg	<	5.300	5.300	ND	A	
9504E411062F	25.00	SB-4110-10	01/27/95	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9504E411062F	25.00	SB-4110-10	01/27/95	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9504E411062F	25.00	SB-4110-10	01/27/95	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	8015G/8020	Benzene	ug/kg	<	5.200	5.200	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	8015G/8020	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	8015G/8020	Toluene	ug/kg	<	5.200	5.200	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	8015G/8020	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9504E411063F	35.00	SB-4110-10	01/27/95	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SB-4110-11 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450E411013F	30.00	SB-4110-11	12/14/94	8015G/8020	Benzene	ug/kg	<	5.200	5.200	ND	A	
9450E411013F	30.00	SB-4110-11	12/14/94	8015G/8020	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9450E411013F	30.00	SB-4110-11	12/14/94	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450E411013F	30.00	SB-4110-11	12/14/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450E411013F	30.00	SB-4110-11	12/14/94	8015G/8020	Toluene	ug/kg	<	5.200	5.200	ND	A	
9450E411013F	30.00	SB-4110-11	12/14/94	8015G/8020	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9450E411013F	30.00	SB-4110-11	12/14/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9450E411013F	30.00	SB-4110-11	12/14/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450E411013F	30.00	SB-4110-11	12/14/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	8015G/8020	Benzene	ug/kg	<	5.200	5.200	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	8015G/8020	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	8015G/8020	Toluene	ug/kg	<	5.200	5.200	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	8015G/8020	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450E411014F	40.00	SB-4110-11	12/14/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SP-4110-01 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411001F	0.00	SP-4110-01	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411001F	0.00	SP-4110-01	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411001F	0.00	SP-4110-01	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411001F	0.00	SP-4110-01	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411001F	0.00	SP-4110-01	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411001F	0.00	SP-4110-01	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9425E411001FF	0.00	SP-4110-01	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.300	1.300	ND	A	r
* Station Number * SP-4110-02			* Matrix Type * SOIL									
9425E411002F	0.00	SP-4110-02	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411002F	0.00	SP-4110-02	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411002F	0.00	SP-4110-02	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411002F	0.00	SP-4110-02	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411002F	0.00	SP-4110-02	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411002F	0.00	SP-4110-02	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	U
9425E411002FF	0.00	SP-4110-02	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-02B			* Matrix Type * SOIL									
9430E41192AF	0.00	SP-4110-02B	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E41192AF	0.00	SP-4110-02B	07/27/94	EPA8015D	TPH-Diesel	mg/kg		24.000	1.000		A	
* Station Number * SP-4110-03			* Matrix Type * SOIL									
9425E411003F	0.00	SP-4110-03	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411003F	0.00	SP-4110-03	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411003F	0.00	SP-4110-03	06/22/94	8015G/8020	TPH-Gasoline	mg/kg		4.000	1.000		A	
9425E411003F	0.00	SP-4110-03	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411003F	0.00	SP-4110-03	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411003F	0.00	SP-4110-03	06/22/94	EPA8015D	TPH-Diesel	mg/kg		25.000	10.000		A	
9425E411003FF	0.00	SP-4110-03	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-03C			* Matrix Type * SOIL									
9430E41193AF	0.00	SP-4110-03C	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E41193AF	0.00	SP-4110-03C	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * SP-4110-04			* Matrix Type * SOIL									
9425E411004F	0.00	SP-4110-04	06/22/94	8015G/8020	Benzene	mg/kg		0.077	0.005		A	
9425E411004F	0.00	SP-4110-04	06/22/94	8015G/8020	Ethylbenzene	mg/kg		0.042	0.005		A	
9425E411004F	0.00	SP-4110-04	06/22/94	8015G/8020	TPH-Gasoline	mg/kg		2.300	1.000		A	
9425E411004F	0.00	SP-4110-04	06/22/94	8015G/8020	Toluene	mg/kg		1.800	0.005		A	
9425E411004F	0.00	SP-4110-04	06/22/94	8015G/8020	Xylenes	mg/kg		2.100	0.005		A	
9425E411004F	0.00	SP-4110-04	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9425E411004FF	0.00	SP-4110-04	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
* Station Number * SP-4110-05			* Matrix Type * SOIL									
9425E411005F	0.00	SP-4110-05	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411005F	0.00	SP-4110-05	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411005F	0.00	SP-4110-05	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411005F	0.00	SP-4110-05	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411005F	0.00	SP-4110-05	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9425E411005FF	0.00	SP-4110-05	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-06			* Matrix Type * SOIL									
9425E411006F	0.00	SP-4110-06	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411006F	0.00	SP-4110-06	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411006F	0.00	SP-4110-06	06/22/94	8015G/8020	TPH-Gasoline	mg/kg		3.800	1.000		A	
9425E411006F	0.00	SP-4110-06	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411006F	0.00	SP-4110-06	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411006F	0.00	SP-4110-06	06/22/94	EPA8015D	TPH-Diesel	mg/kg		35.000	10.000		A	
9425E411006FF	0.00	SP-4110-06	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-06F			* Matrix Type * SOIL									
9430E41194AF	0.00	SP-4110-06F	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9430E41194AF	0.00	SP-4110-06F	07/27/94	EPA8015D	TPH-Diesel	mg/kg		41.000	1.000		A	
* Station Number * SP-4110-07			* Matrix Type * SOIL									
9425E411007F	0.00	SP-4110-07	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411007F	0.00	SP-4110-07	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411007F	0.00	SP-4110-07	06/22/94	8015G/8020	TPH-Gasoline	mg/kg		14.000	1.000		A	
9425E411007F	0.00	SP-4110-07	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411007F	0.00	SP-4110-07	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411007F	0.00	SP-4110-07	06/22/94	EPA8015D	TPH-Diesel	mg/kg		210.000	10.000		A	
9425E411007FF	0.00	SP-4110-07	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-07G			* Matrix Type * SOIL									
9430E41195AF	0.00	SP-4110-07G	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E41195AF	0.00	SP-4110-07G	07/27/94	EPA8015D	TPH-Diesel	mg/kg		28.000	1.000		A	
* Station Number * SP-4110-08			* Matrix Type * SOIL									
9425E411008F	0.00	SP-4110-08	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411008F	0.00	SP-4110-08	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411008F	0.00	SP-4110-08	06/22/94	8015G/8020	TPH-Gasoline	mg/kg		1.800	1.000		A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9425E411008F	0.00	SP-4110-08	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411008F	0.00	SP-4110-08	06/22/94	8015G/8020	Xylenes	mg/kg		0.006	0.005		A	
9425E411008F	0.00	SP-4110-08	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9425E411008FF	0.00	SP-4110-08	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-09			* Matrix Type * SOIL									
9425E411009F	0.00	SP-4110-09	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411009F	0.00	SP-4110-09	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411009F	0.00	SP-4110-09	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411009F	0.00	SP-4110-09	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411009F	0.00	SP-4110-09	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411009F	0.00	SP-4110-09	06/22/94	EPA8015D	TPH-Diesel	mg/kg		19.000	10.000		A	
9425E411009FF	0.00	SP-4110-09	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.200	1.200	ND	A	r
* Station Number * SP-4110-09I			* Matrix Type * SOIL									
9430E41103AF	0.00	SP-4110-09I	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E41103AF	0.00	SP-4110-09I	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * SP-4110-10			* Matrix Type * SOIL									
9425E411010F	0.00	SP-4110-10	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411010F	0.00	SP-4110-10	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411010F	0.00	SP-4110-10	06/22/94	8015G/8020	TPH-Gasoline	mg/kg		15.000	1.000		A	
9425E411010F	0.00	SP-4110-10	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411010F	0.00	SP-4110-10	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411010F	0.00	SP-4110-10	06/22/94	EPA8015D	TPH-Diesel	mg/kg		42.000	10.000		A	
9425E411010FF	0.00	SP-4110-10	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-10J			* Matrix Type * SOIL									
9430E41104AF	0.00	SP-4110-10J	07/27/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9430E41104AF	0.00	SP-4110-10J	07/27/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
* Station Number * SP-4110-11			* Matrix Type * SOIL									
9425E411011F	0.00	SP-4110-11	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411011F	0.00	SP-4110-11	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425E411011F	0.00	SP-4110-11	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425E411011F	0.00	SP-4110-11	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425E411011F	0.00	SP-4110-11	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425E411011F	0.00	SP-4110-11	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9425E411011FF	0.00	SP-4110-11	06/22/94	EPA7420M	Organic Lead	mg/kg	<	3.300	3.300	ND	A	r

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 21, 1996

Table B2. Chemical Data Report - All Chemical Results, Site 4110
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/01/93-01/01/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
* Station Number * SP-4110-12			* Matrix Type * SOIL									
9425X411012F	0.00	SP-4110-12	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425X411012F	0.00	SP-4110-12	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425X411012F	0.00	SP-4110-12	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425X411012F	0.00	SP-4110-12	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425X411012F	0.00	SP-4110-12	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425X411012F	0.00	SP-4110-12	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9425X411012FF	0.00	SP-4110-12	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-13			* Matrix Type * SOIL									
9425X411013F	0.00	SP-4110-13	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425X411013F	0.00	SP-4110-13	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425X411013F	0.00	SP-4110-13	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425X411013F	0.00	SP-4110-13	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425X411013F	0.00	SP-4110-13	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425X411013F	0.00	SP-4110-13	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9425X411013FF	0.00	SP-4110-13	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
* Station Number * SP-4110-14			* Matrix Type * SOIL									
9425X411014F	0.00	SP-4110-14	06/22/94	8015G/8020	Benzene	mg/kg	<	0.005	0.005	ND	A	U
9425X411014F	0.00	SP-4110-14	06/22/94	8015G/8020	Ethylbenzene	mg/kg	<	0.005	0.005	ND	A	U
9425X411014F	0.00	SP-4110-14	06/22/94	8015G/8020	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	U
9425X411014F	0.00	SP-4110-14	06/22/94	8015G/8020	Toluene	mg/kg	<	0.005	0.005	ND	A	U
9425X411014F	0.00	SP-4110-14	06/22/94	8015G/8020	Xylenes	mg/kg	<	0.005	0.005	ND	A	U
9425X411014F	0.00	SP-4110-14	06/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	U
9425X411014FF	0.00	SP-4110-14	06/22/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B3. Chemical Data Report - All Chemical Results, Site 4590
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/12/93-10/21/93

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
* Station Number * FIELD BLANK			* Matrix Type * H2O									
9342HUST050C	0.00	FIELD BLANK	10/21/93	8015G/8020	Benzene	ug/l	<	0.500	0.500	ND	A	
9342HUST050C	0.00	FIELD BLANK	10/21/93	8015G/8020	Ethylbenzene	ug/l	<	0.500	0.500	ND	A	
9342HUST050C	0.00	FIELD BLANK	10/21/93	8015G/8020	TPH-Gasoline	ug/l	<	500.000	500.000	ND	A	
9342HUST050C	0.00	FIELD BLANK	10/21/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/l	<	500.000	500.000	ND	A	
9342HUST050C	0.00	FIELD BLANK	10/21/93	8015G/8020	Toluene	ug/l	<	0.500	0.500	ND	A	
9342HUST050C	0.00	FIELD BLANK	10/21/93	8015G/8020	Xylenes	ug/l	<	0.500	0.500	ND	A	
9342HUST050C	0.00	FIELD BLANK	10/21/93	EPA7421	Lead	ug/l	<	1.600	1.600	ND	A	U
9342HUST050C	0.00	FIELD BLANK	10/21/93	EPA8015D	TPH-Diesel	mg/l	<	0.500	0.500	ND	A	
9342HUST050C	0.00	FIELD BLANK	10/21/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/l	<	0.500	0.500	ND	A	
* Station Number * RINSATE			* Matrix Type * H2O									
9341HCPT005B	0.00	RINSATE	10/12/93	8015G/8020	Benzene	ug/l	<	0.500	0.500	ND	A	
9341HCPT005B	0.00	RINSATE	10/12/93	8015G/8020	Ethylbenzene	ug/l	<	0.500	0.500	ND	A	
9341HCPT005B	0.00	RINSATE	10/12/93	8015G/8020	TPH-Gasoline	ug/l	<	500.000	500.000	ND	A	
9341HCPT005B	0.00	RINSATE	10/12/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/l	<	500.000	500.000	ND	A	
9341HCPT005B	0.00	RINSATE	10/12/93	8015G/8020	Toluene	ug/l	<	0.500	0.500	ND	A	
9341HCPT005B	0.00	RINSATE	10/12/93	8015G/8020	Xylenes	ug/l	<	0.500	0.500	ND	A	
9341HCPT005B	0.00	RINSATE	10/12/93	EPA7421	Lead	ug/l	<	1.600	1.600	ND	A	U
9341HCPT005B	0.00	RINSATE	10/12/93	EPA8015D	TPH-Diesel	mg/l	<	0.500	0.500	ND	A	
9341HCPT005B	0.00	RINSATE	10/12/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/l	<	0.500	0.500	ND	A	
9342HUST048B	0.00	RINSATE	10/21/93	8015G/8020	Benzene	ug/l	<	0.500	0.500	ND	A	
9342HUST048B	0.00	RINSATE	10/21/93	8015G/8020	Ethylbenzene	ug/l	<	0.500	0.500	ND	A	
9342HUST048B	0.00	RINSATE	10/21/93	8015G/8020	TPH-Gasoline	ug/l	<	500.000	500.000	ND	A	
9342HUST048B	0.00	RINSATE	10/21/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/l	<	500.000	500.000	ND	A	
9342HUST048B	0.00	RINSATE	10/21/93	8015G/8020	Toluene	ug/l	<	0.500	0.500	ND	A	
9342HUST048B	0.00	RINSATE	10/21/93	8015G/8020	Xylenes	ug/l	<	0.500	0.500	ND	A	
9342HUST048B	0.00	RINSATE	10/21/93	EPA7421	Lead	ug/l	<	1.600	1.600	ND	A	U
9342HUST048B	0.00	RINSATE	10/21/93	EPA8015D	TPH-Diesel	mg/l	<	0.500	0.500	ND	A	
9342HUST048B	0.00	RINSATE	10/21/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/l	<	0.500	0.500	ND	A	
* Station Number * SB-4590-01			* Matrix Type * SOIL									
9342HUST032F	5.50	SB-4590-01	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST032F	5.50	SB-4590-01	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST032F	5.50	SB-4590-01	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST032F	5.50	SB-4590-01	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST032F	5.50	SB-4590-01	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST032F	5.50	SB-4590-01	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST032F	5.50	SB-4590-01	10/20/93	EPA7421	Lead	mg/kg		2.200	0.330		A	
9342HUST032F	5.50	SB-4590-01	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9342HUST032F	5.50	SB-4590-01	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		47.000	11.000		A	1
9342HUST035F	20.50	SB-4590-01	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B3. Chemical Data Report - All Chemical Results, Site 4590
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/12/93-10/21/93

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9342HUST035F	20.50	SB-4590-01	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST035F	20.50	SB-4590-01	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST035F	20.50	SB-4590-01	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST035F	20.50	SB-4590-01	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST035F	20.50	SB-4590-01	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST035F	20.50	SB-4590-01	10/20/93	EPA7421	Lead	mg/kg	<	1.300	1.300	ND	AU	
9342HUST035F	20.50	SB-4590-01	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST035F	20.50	SB-4590-01	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST037F	30.50	SB-4590-01	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST037F	30.50	SB-4590-01	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST037F	30.50	SB-4590-01	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST037F	30.50	SB-4590-01	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST037F	30.50	SB-4590-01	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST037F	30.50	SB-4590-01	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST037F	30.50	SB-4590-01	10/20/93	EPA7421	Lead	mg/kg	<	1.400	1.400	ND	AU	
9342HUST037F	30.50	SB-4590-01	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST037F	30.50	SB-4590-01	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SB-4590-02 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9342HUST015F	10.50	SB-4590-02	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST015F	10.50	SB-4590-02	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST015F	10.50	SB-4590-02	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST015F	10.50	SB-4590-02	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST015F	10.50	SB-4590-02	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST015F	10.50	SB-4590-02	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST015F	10.50	SB-4590-02	10/19/93	EPA7421	Lead	mg/kg	<	1.700	1.700	ND	AU	
9342HUST015F	10.50	SB-4590-02	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9342HUST015F	10.50	SB-4590-02	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		74.000	11.000		A	1
9342HUST016F	16.00	SB-4590-02	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST016F	16.00	SB-4590-02	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST016F	16.00	SB-4590-02	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST016F	16.00	SB-4590-02	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST016F	16.00	SB-4590-02	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST016F	16.00	SB-4590-02	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST016F	16.00	SB-4590-02	10/19/93	EPA7421	Lead	mg/kg	<	0.700	0.700	ND	AU	
9342HUST016F	16.00	SB-4590-02	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST016F	16.00	SB-4590-02	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST017F	20.50	SB-4590-02	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST017F	20.50	SB-4590-02	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST017F	20.50	SB-4590-02	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST017F	20.50	SB-4590-02	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST017F	20.50	SB-4590-02	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST017F	20.50	SB-4590-02	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST017F	20.50	SB-4590-02	10/19/93	EPA7421	Lead	mg/kg	<	0.840	0.840	ND	AU	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B3. Chemical Data Report - All Chemical Results, Site 4590
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/12/93-10/21/93

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9342HUST017F	20.50	SB-4590-02	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST017F	20.50	SB-4590-02	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

* Station Number * SB-4590-03 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9342HUST018F	5.50	SB-4590-03	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST018F	5.50	SB-4590-03	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST018F	5.50	SB-4590-03	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST018F	5.50	SB-4590-03	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST018F	5.50	SB-4590-03	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST018F	5.50	SB-4590-03	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST018F	5.50	SB-4590-03	10/19/93	EPA7421	Lead	mg/kg	<	1.100	1.100	ND	AU	
9342HUST018F	5.50	SB-4590-03	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9342HUST018F	5.50	SB-4590-03	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		12.000	11.000		A	1
9342HUST020F	15.50	SB-4590-03	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST020F	15.50	SB-4590-03	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST020F	15.50	SB-4590-03	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST020F	15.50	SB-4590-03	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST020F	15.50	SB-4590-03	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST020F	15.50	SB-4590-03	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST020F	15.50	SB-4590-03	10/19/93	EPA7421	Lead	mg/kg	<	0.920	0.920	ND	AU	
9342HUST020F	15.50	SB-4590-03	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9342HUST020F	15.50	SB-4590-03	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		11.000	11.000		A	1
9342HUST022F	25.50	SB-4590-03	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST022F	25.50	SB-4590-03	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST022F	25.50	SB-4590-03	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST022F	25.50	SB-4590-03	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST022F	25.50	SB-4590-03	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST022F	25.50	SB-4590-03	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST022F	25.50	SB-4590-03	10/19/93	EPA7421	Lead	mg/kg	<	0.670	0.670	ND	AU	
9342HUST022F	25.50	SB-4590-03	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9342HUST022F	25.50	SB-4590-03	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		15.000	11.000		A	1

* Station Number * SB-4590-04 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9341HCPT001	5.50	SB-4590-04	10/12/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9341HCPT001	5.50	SB-4590-04	10/12/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9341HCPT001	5.50	SB-4590-04	10/12/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9341HCPT001	5.50	SB-4590-04	10/12/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9341HCPT001	5.50	SB-4590-04	10/12/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9341HCPT001	5.50	SB-4590-04	10/12/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9341HCPT001	5.50	SB-4590-04	10/12/93	EPA7421	Lead	mg/kg	<	2.500	2.500	ND	AU	
9341HCPT001	5.50	SB-4590-04	10/12/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9341HCPT001	5.50	SB-4590-04	10/12/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		14.000	10.000		A	1
9341HCPT002	10.50	SB-4590-04	10/12/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B3. Chemical Data Report - All Chemical Results, Site 4590
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/12/93-10/21/93

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9341HCPT002	10.50	SB-4590-04	10/12/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9341HCPT002	10.50	SB-4590-04	10/12/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9341HCPT002	10.50	SB-4590-04	10/12/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9341HCPT002	10.50	SB-4590-04	10/12/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9341HCPT002	10.50	SB-4590-04	10/12/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9341HCPT002	10.50	SB-4590-04	10/12/93	EPA7421	Lead	mg/kg	<	1.200	1.200	ND	AU	
9341HCPT002	10.50	SB-4590-04	10/12/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9341HCPT002	10.50	SB-4590-04	10/12/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9341HCPT004	19.00	SB-4590-04	10/12/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9341HCPT004	19.00	SB-4590-04	10/12/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9341HCPT004	19.00	SB-4590-04	10/12/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9341HCPT004	19.00	SB-4590-04	10/12/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9341HCPT004	19.00	SB-4590-04	10/12/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9341HCPT004	19.00	SB-4590-04	10/12/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9341HCPT004	19.00	SB-4590-04	10/12/93	EPA7421	Lead	mg/kg	<	0.930	0.930	ND	AU	
9341HCPT004	19.00	SB-4590-04	10/12/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9341HCPT004	19.00	SB-4590-04	10/12/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
* Station Number * SB-4590-05			* Matrix Type * SOIL									
9342HUST010F	5.50	SB-4590-05	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	AJ-	
9342HUST010F	5.50	SB-4590-05	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	AJ-	
9342HUST010F	5.50	SB-4590-05	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	AJ-	
9342HUST010F	5.50	SB-4590-05	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	AJ-	
9342HUST010F	5.50	SB-4590-05	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	AJ-	
9342HUST010F	5.50	SB-4590-05	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	AJ-	
9342HUST010F	5.50	SB-4590-05	10/19/93	EPA7421	Lead	mg/kg	<	0.750	0.750	ND	AU	
9342HUST010F	5.50	SB-4590-05	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST010F	5.50	SB-4590-05	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST011F	10.50	SB-4590-05	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST011F	10.50	SB-4590-05	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST011F	10.50	SB-4590-05	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST011F	10.50	SB-4590-05	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST011F	10.50	SB-4590-05	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST011F	10.50	SB-4590-05	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST011F	10.50	SB-4590-05	10/19/93	EPA7421	Lead	mg/kg	<	1.100	1.100	ND	AU	
9342HUST011F	10.50	SB-4590-05	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9342HUST011F	10.50	SB-4590-05	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9342HUST013F	20.50	SB-4590-05	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST013F	20.50	SB-4590-05	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST013F	20.50	SB-4590-05	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST013F	20.50	SB-4590-05	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST013F	20.50	SB-4590-05	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST013F	20.50	SB-4590-05	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST013F	20.50	SB-4590-05	10/19/93	EPA7421	Lead	mg/kg	<	0.960	0.960	ND	AU	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B3. Chemical Data Report - All Chemical Results, Site 4590
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/12/93-10/21/93

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		BLA Qual	Lab Qual
9342HUST013F	20.50	SB-4590-05	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST013F	20.50	SB-4590-05	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
* Station Number * SB-4590-06 * Matrix Type * SOIL												
9342HUST006F	5.50	SB-4590-06	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST006F	5.50	SB-4590-06	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST006F	5.50	SB-4590-06	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST006F	5.50	SB-4590-06	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST006F	5.50	SB-4590-06	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST006F	5.50	SB-4590-06	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST006F	5.50	SB-4590-06	10/19/93	EPA7421	Lead	mg/kg	<	1.400	1.400	ND	AU	
9342HUST006F	5.50	SB-4590-06	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST006F	5.50	SB-4590-06	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST008F	15.50	SB-4590-06	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST008F	15.50	SB-4590-06	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST008F	15.50	SB-4590-06	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST008F	15.50	SB-4590-06	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST008F	15.50	SB-4590-06	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST008F	15.50	SB-4590-06	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST008F	15.50	SB-4590-06	10/19/93	EPA7421	Lead	mg/kg	<	1.200	1.200	ND	AU	
9342HUST008F	15.50	SB-4590-06	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9342HUST008F	15.50	SB-4590-06	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9342HUST009F	20.00	SB-4590-06	10/19/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST009F	20.00	SB-4590-06	10/19/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST009F	20.00	SB-4590-06	10/19/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST009F	20.00	SB-4590-06	10/19/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST009F	20.00	SB-4590-06	10/19/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST009F	20.00	SB-4590-06	10/19/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST009F	20.00	SB-4590-06	10/19/93	EPA7421	Lead	mg/kg	<	0.650	0.650	ND	AU	
9342HUST009F	20.00	SB-4590-06	10/19/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST009F	20.00	SB-4590-06	10/19/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
* Station Number * SB-4590-07 * Matrix Type * SOIL												
9342HUST026F	30.50	SB-4590-07	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST026F	30.50	SB-4590-07	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST026F	30.50	SB-4590-07	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST026F	30.50	SB-4590-07	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST026F	30.50	SB-4590-07	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST026F	30.50	SB-4590-07	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST026F	30.50	SB-4590-07	10/20/93	EPA7421	Lead	mg/kg	<	0.770	0.770	ND	AU	
9342HUST026F	30.50	SB-4590-07	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST026F	30.50	SB-4590-07	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		18.000	10.000		A	1
9342HUST027F	35.50	SB-4590-07	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B3. Chemical Data Report - All Chemical Results, Site 4590
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/12/93-10/21/93

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9342HUST027F	35.50	SB-4590-07	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST027F	35.50	SB-4590-07	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST027F	35.50	SB-4590-07	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST027F	35.50	SB-4590-07	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST027F	35.50	SB-4590-07	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST027F	35.50	SB-4590-07	10/20/93	EPA7421	Lead	mg/kg	<	0.780	0.780	ND	AU	
9342HUST027F	35.50	SB-4590-07	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST027F	35.50	SB-4590-07	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST028F	40.50	SB-4590-07	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST028F	40.50	SB-4590-07	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST028F	40.50	SB-4590-07	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST028F	40.50	SB-4590-07	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST028F	40.50	SB-4590-07	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST028F	40.50	SB-4590-07	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST028F	40.50	SB-4590-07	10/20/93	EPA7421	Lead	mg/kg	<	0.570	0.570	ND	AU	B
9342HUST028F	40.50	SB-4590-07	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST028F	40.50	SB-4590-07	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST029F	60.50	SB-4590-07	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST029F	60.50	SB-4590-07	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST029F	60.50	SB-4590-07	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST029F	60.50	SB-4590-07	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST029F	60.50	SB-4590-07	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST029F	60.50	SB-4590-07	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST029F	60.50	SB-4590-07	10/20/93	EPA7421	Lead	mg/kg	<	1.100	1.100	ND	AU	
9342HUST029F	60.50	SB-4590-07	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST029F	60.50	SB-4590-07	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST030F	80.50	SB-4590-07	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST030F	80.50	SB-4590-07	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST030F	80.50	SB-4590-07	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST030F	80.50	SB-4590-07	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST030F	80.50	SB-4590-07	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST030F	80.50	SB-4590-07	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST030F	80.50	SB-4590-07	10/20/93	EPA7421	Lead	mg/kg	<	0.800	0.800	ND	AU	
9342HUST030F	80.50	SB-4590-07	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST030F	80.50	SB-4590-07	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST031F	100.50	SB-4590-07	10/20/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST031F	100.50	SB-4590-07	10/20/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST031F	100.50	SB-4590-07	10/20/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST031F	100.50	SB-4590-07	10/20/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST031F	100.50	SB-4590-07	10/20/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST031F	100.50	SB-4590-07	10/20/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST031F	100.50	SB-4590-07	10/20/93	EPA7421	Lead	mg/kg	<	1.400	1.400	ND	AU	
9342HUST031F	100.50	SB-4590-07	10/20/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST031F	100.50	SB-4590-07	10/20/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B3. Chemical Data Report - All Chemical Results, Site 4590
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 10/12/93-10/21/93

* Station Number * SB-4590-08 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9342HUST040F	5.50	SB-4590-08	10/21/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST040F	5.50	SB-4590-08	10/21/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST040F	5.50	SB-4590-08	10/21/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST040F	5.50	SB-4590-08	10/21/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST040F	5.50	SB-4590-08	10/21/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST040F	5.50	SB-4590-08	10/21/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST040F	5.50	SB-4590-08	10/21/93	EPA7421	Lead	mg/kg	<	1.400	1.400	ND	AU	
9342HUST040F	5.50	SB-4590-08	10/21/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9342HUST040F	5.50	SB-4590-08	10/21/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9342HUST042F	15.50	SB-4590-08	10/21/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST042F	15.50	SB-4590-08	10/21/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST042F	15.50	SB-4590-08	10/21/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST042F	15.50	SB-4590-08	10/21/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST042F	15.50	SB-4590-08	10/21/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST042F	15.50	SB-4590-08	10/21/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST042F	15.50	SB-4590-08	10/21/93	EPA7421	Lead	mg/kg	<	1.700	1.700	ND	AU	
9342HUST042F	15.50	SB-4590-08	10/21/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9342HUST042F	15.50	SB-4590-08	10/21/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9342HUST044F	25.50	SB-4590-08	10/21/93	8015G/8020	Benzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST044F	25.50	SB-4590-08	10/21/93	8015G/8020	Ethylbenzene	ug/kg	<	5.000	5.000	ND	A	
9342HUST044F	25.50	SB-4590-08	10/21/93	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST044F	25.50	SB-4590-08	10/21/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9342HUST044F	25.50	SB-4590-08	10/21/93	8015G/8020	Toluene	ug/kg	<	5.000	5.000	ND	A	
9342HUST044F	25.50	SB-4590-08	10/21/93	8015G/8020	Xylenes	ug/kg	<	5.000	5.000	ND	A	
9342HUST044F	25.50	SB-4590-08	10/21/93	EPA7421	Lead	mg/kg	<	1.200	1.200	ND	AU	
9342HUST044F	25.50	SB-4590-08	10/21/93	EPA8015D	TPH-Diesel	mg/kg	<	12.000	12.000	ND	A	
9342HUST044F	25.50	SB-4590-08	10/21/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	12.000	12.000	ND	A	

* Station Number * TRIP BLANK * Matrix Type * H2O

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9342HUST049A	0.00	TRIP BLANK	10/21/93	8015G/8020	Benzene	ug/l	<	0.500	0.500	ND	A	
9342HUST049A	0.00	TRIP BLANK	10/21/93	8015G/8020	Ethylbenzene	ug/l	<	0.500	0.500	ND	A	
9342HUST049A	0.00	TRIP BLANK	10/21/93	8015G/8020	TPH-Gasoline	ug/l	<	500.000	500.000	ND	A	
9342HUST049A	0.00	TRIP BLANK	10/21/93	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/l	<	500.000	500.000	ND	A	
9342HUST049A	0.00	TRIP BLANK	10/21/93	8015G/8020	Toluene	ug/l	<	0.500	0.500	ND	A	
9342HUST049A	0.00	TRIP BLANK	10/21/93	8015G/8020	Xylenes	ug/l	<	0.500	0.500	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

* Station Number * ES-2754-01 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275401F	14.00	ES-2754-01	11/02/93	EPA6010	Cadmium	mg/kg	<	0.890	0.890	ND	A	U
9344E275401F	14.00	ES-2754-01	11/02/93	EPA6010	Chromium	mg/kg		10.600	0.970		AJ	*
9344E275401F	14.00	ES-2754-01	11/02/93	EPA6010	Nickel	mg/kg	<	5.700	5.700	ND	A	U
9344E275401F	14.00	ES-2754-01	11/02/93	EPA6010	Zinc	mg/kg	<	4.700	4.700	ND	AU	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA7421	Lead	mg/kg	<	1.800	1.800	ND	AU	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8015D	TPH-Motor Oil	mg/kg	<	52.000	52.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	1.000	1.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	1H-indene, 2,3-dihydro-5-methyl-	ug/kg		7.900	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Acetone	ug/kg		16.000	10.000		A	b
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Methylene chloride	ug/kg	<	3.900	3.900	ND	AU	BbJ
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Unknown Tentatively Identified Compound	ug/kg		8.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275401F	14.00	ES-2754-01	11/02/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	1,3,5-Trimethylbenzene	ug/kg		200.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Octathiocane S8	ug/kg		170.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown	ug/kg		280.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown	ug/kg		690.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown	ug/kg		990.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown Alkane	ug/kg		170.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown Compound	ug/kg		1300.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown Oxygenated Compound	ug/kg		160.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown alkane	ug/kg		400.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown alkane	ug/kg		860.000	NR		AN	
9344E275401F	14.00	ES-2754-01	11/02/93	PAH8270	Unknown oxygenated compound	ug/kg	<	18000.000	NR	ND	AUN	B

* Station Number * ES-2754-02 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275402F	7.00	ES-2754-02	11/02/93	EPA6010	Cadmium	mg/kg	<	0.870	0.870	ND	A	U
9344E275402F	7.00	ES-2754-02	11/02/93	EPA6010	Chromium	mg/kg		6.900	0.960		AJ	*
9344E275402F	7.00	ES-2754-02	11/02/93	EPA6010	Nickel	mg/kg	<	5.600	5.600	ND	A	U
9344E275402F	7.00	ES-2754-02	11/02/93	EPA6010	Zinc	mg/kg	<	3.700	3.700	ND	AU	B
9344E275402F	7.00	ES-2754-02	11/02/93	EPA7421	Lead	mg/kg	<	0.620	0.620	ND	AU	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8015D	TPH-Motor Oil	mg/kg	<	51.000	51.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	1.000	1.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	1,1-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	1,1-Dichloroethene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	1,2-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.100	5.100	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	1,2-Dichloropropane	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Acetone	ug/kg	<	3.300	3.300	ND	AU	bJ
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Benzene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Bromodichloromethane	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Bromoform	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Carbon disulfide	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Carbon tetrachloride	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Chlorobenzene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Chloroform	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Dibromochloromethane	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Ethylbenzene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Methylene chloride	ug/kg	<	3.200	3.200	ND	AU	BbJ
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Styrene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Tetrachloroethene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Toluene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Trichloroethene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	Xylenes	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Unknown	ug/kg		170.000	NR		AN	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Unknown	ug/kg		770.000	NR		AN	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Unknown	ug/kg		850.000	NR		AN	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Unknown Alkane	ug/kg		310.000	NR		AN	
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Unknown Compound	ug/kg		150.000	NR		AN	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table E4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275402F	7.00	ES-2754-02	11/02/93	PAH8270	Unknown Oxygenated Compound	ug/kg	<	15000.000	NR	ND	AUN	B

* Station Number * ES-2754-03 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275403F	12.00	ES-2754-03	11/02/93	EPA6010	Cadmium	mg/kg	<	0.910	0.910	ND	A	U
9344E275403F	12.00	ES-2754-03	11/02/93	EPA6010	Chromium	mg/kg		8.600	0.990		AJ	*
9344E275403F	12.00	ES-2754-03	11/02/93	EPA6010	Nickel	mg/kg	<	5.800	5.800	ND	A	U
9344E275403F	12.00	ES-2754-03	11/02/93	EPA6010	Zinc	mg/kg	<	5.900	5.900	ND	AU	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA7421	Lead	mg/kg	<	1.200	1.200	ND	AU	N
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8015D	TPH-Diesel	mg/kg	<	19.000	19.000	ND	A	r
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	19.000	19.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8015D	TPH-Motor Oil	mg/kg	<	53.000	53.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8015G	TPH-Gasoline	mg/kg	<	1.100	1.100	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	1.100	1.100	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,1-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,1-Dichloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,2,3-Trimethylbenzene	ug/kg		18.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,2,3-Trimethylbenzene	ug/kg		44.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,2-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1,2-Dichloropropane	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	1H-Indene, 2,3-dihydro-1-methyl-	ug/kg		21.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	2,3-Dihydro-1-methylindene	ug/kg		52.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	2-Propenylbenzene	ug/kg		22.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Acetone	ug/kg		44.000	11.000		A	b
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Benzene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Benzene, 1-ethenyl-3-ethyl-	ug/kg		32.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	ug/kg		27.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	ug/kg		28.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Benzene, cyclobutyl-	ug/kg		17.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Benzene, methyl(1-methy-lethyl)-	ug/kg		26.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Bromodichloromethane	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Bromoform	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Carbon disulfide	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Carbon tetrachloride	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Chlorobenzene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Chloroform	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Dibromochloromethane	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Methylene chloride	ug/kg	<	3.800	3.800	ND	AU	BbJ

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Methyl ethyl ketone	ug/kg	<	5.900	5.900	ND	AU	J
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Styrene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Tetrachloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Toluene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Trichloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	Xylenes	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	1,3,5-Trimethylbenzene	ug/kg		150.000	NR		AN	a
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	1,3,5-Trimethylbenzene	ug/kg		340.000	NR		AN	a
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	1H-indene, 2,3-dihydro-4-methyl-	ug/kg		220.000	NR		AN	a
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzene, 1-ethenyl-2-methyl	ug/kg		160.000	NR		AN	a
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzene, 1-ethenyl-4-ethyl-	ug/kg		170.000	NR		AN	a
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzene, 1-methyl-3-propyl-	ug/kg		160.000	NR		AN	a
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzene, 2-ethyl-1,4-dimethyl-	ug/kg		260.000	NR		AN	a
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Naphthalene	ug/kg		44.000	350.000		A	J
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Octathiocane S8	ug/kg		190.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown	ug/kg		160.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown	ug/kg		220.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown	ug/kg		510.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown	ug/kg		530.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown	ug/kg		650.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown Alkane	ug/kg		330.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown Compound	ug/kg		160.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown Oxygenated Compound	ug/kg		170.000	NR		AN	
9344E275403F	12.00	ES-2754-03	11/02/93	PAH8270	Unknown oxygenated compound	ug/kg	<	180.000	NR	ND	AUN	B

* Station Number * ES-2754-04 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275404F	11.00	ES-2754-04	11/02/93	EPA6010	Cadmium	mg/kg	<	0.900	0.900	ND	A	U
9344E275404F	11.00	ES-2754-04	11/02/93	EPA6010	Chromium	mg/kg		8.900	0.980		AJ	*

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275404F	11.00	ES-2754-04	11/02/93	EPA6010	Nickel	mg/kg	<	5.700	5.700	ND	A	U
9344E275404F	11.00	ES-2754-04	11/02/93	EPA6010	Zinc	mg/kg	<	6.600	6.600	ND	AU	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA7421	Lead	mg/kg	<	1.200	1.200	ND	AU	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8015D	TPH-Motor Oil	mg/kg	<	53.000	53.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8015G	TPH-Gasoline	mg/kg	<	1.100	1.100	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	1.100	1.100	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	1,1-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	1,1-Dichloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	1,2-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	1,2-Dichloropropane	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Acetone	ug/kg	<	3.600	3.600	ND	AU	bJ
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Benzene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Bromodichloromethane	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Bromoform	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Carbon disulfide	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Carbon tetrachloride	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Chlorobenzene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Chloroform	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Dibromochloromethane	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Methylene chloride	ug/kg	<	4.000	4.000	ND	AU	BbJ
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Methyl ethyl ketone	ug/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Styrene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Tetrachloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Toluene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Trichloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	Xylenes	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table E4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown	ug/kg		180.000	NR		AN	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown	ug/kg		190.000	NR		AN	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown	ug/kg		460.000	NR		AN	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown	ug/kg		740.000	NR		AN	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown	ug/kg		770.000	NR		AN	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown Alkane	ug/kg		160.000	NR		AN	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown Compound	ug/kg		160.000	NR		AN	
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown Oxygenated Compound	ug/kg	<	180.000	NR	ND	AUN	B
9344E275404F	11.00	ES-2754-04	11/02/93	PAH8270	Unknown oxygenated compound	ug/kg		220.000	NR		AN	
* Station Number * ES-2754-05			* Matrix Type * SOIL									
9344E275405F	10.00	ES-2754-05	11/02/93	EPA6010	Cadmium	mg/kg	<	0.930	0.930	ND	A	U
9344E275405F	10.00	ES-2754-05	11/02/93	EPA6010	Chromium	mg/kg		10.800	1.000		AJ	*
9344E275405F	10.00	ES-2754-05	11/02/93	EPA6010	Nickel	mg/kg	<	5.900	5.900	ND	A	U
9344E275405F	10.00	ES-2754-05	11/02/93	EPA6010	Zinc	mg/kg	<	6.000	6.000	ND	AU	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA7421	Lead	mg/kg		54.400	3.400		A	S
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8015D	TPH-Diesel	mg/kg	<	490.000	490.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		11000.000	490.000		A	d
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8015D	TPH-Motor Oil	mg/kg	<	820.000	820.000	ND	A	R
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8015G	TPH-Gasoline	mg/kg	<	55.000	55.000	ND	A	R
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	55.000	55.000	ND	A	d
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,1-Dichloroethane	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,1-Dichloroethene	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,2,3-Trimethylbenzene	ug/kg		3100.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,2,3-Trimethylbenzene	ug/kg		4800.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,2,3-Trimethylbenzene	ug/kg		8600.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,2-Dichloroethane	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1,2-Dichloropropane	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	1-Ethyl 3-Methyl 1-Benzene	ug/kg		2200.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	2-Hexanone	ug/kg	<	55.000	55.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	55.000	55.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Acetone	ug/kg	<	55.000	55.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Benzene	ug/kg	<	27.000	27.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table E4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Benzene, 1-ethyl-2-methyl-	ug/kg		3000.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Bromodichloromethane	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Bromoform	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Bromomethane	ug/kg	<	55.000	55.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Carbon disulfide	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Carbon tetrachloride	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Chlorobenzene	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Chloroethane	ug/kg	<	55.000	55.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Chloroform	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Chloromethane	ug/kg	<	55.000	55.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Dibromochloromethane	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Ethylbenzene	ug/kg		88.000	27.000		A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Methylene chloride	ug/kg	<	26.000	26.000	ND	AU	BbJ
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Methyl ethyl ketone	ug/kg	<	7.800	7.800	ND	AU	J
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Styrene	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Tetrachloroethene	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Toluene	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Trichloroethene	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Undecane	ug/kg		3300.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Unknown	ug/kg		3300.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Unknown Alkane	ug/kg		5100.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Unknown Compound	ug/kg		2500.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Vinyl acetate	ug/kg	<	55.000	55.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Vinyl chloride	ug/kg	<	55.000	55.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	Xylenes	ug/kg		1600.000	27.000		A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	n-Nonane	ug/kg		3200.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	27.000	27.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	3-Octadecene, (E)	ug/kg		8000.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Acenaphthene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Acenaphthylene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Anthracene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Benzo(a)anthracene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Benzo(a)pyrene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Chrysene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Fluoranthene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Fluorene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Naphthalene	ug/kg	<	7300.000	7300.000	ND	A	J
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Phenanthrene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Pyrene	ug/kg	<	7300.000	7300.000	ND	A	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		5400.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		5400.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		5500.000	NR		AN	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		5600.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		5600.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		5700.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		5800.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		6200.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		6600.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		6700.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		6900.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		7600.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		7700.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		8400.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		8400.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		8900.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown	ug/kg		13000.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown Alkane	ug/kg		11000.000	NR		AN	
9344E275405F	10.00	ES-2754-05	11/02/93	PAH8270	Unknown Compound	ug/kg		11000.000	NR		AN	
* Station Number * ES-2754-06			* Matrix Type * SOIL									
9344E275406F	9.00	ES-2754-06	11/02/93	EPA6010	Cadmium	mg/kg	<	0.890	0.890	ND	A	U
9344E275406F	9.00	ES-2754-06	11/02/93	EPA6010	Chromium	mg/kg		9.500	0.970		AJ	*
9344E275406F	9.00	ES-2754-06	11/02/93	EPA6010	Nickel	mg/kg	<	5.700	5.700	ND	A	U
9344E275406F	9.00	ES-2754-06	11/02/93	EPA6010	Zinc	mg/kg	<	6.000	6.000	ND	AU	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA7421	Lead	mg/kg	<	0.640	0.640	ND	AU	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8015D	TPH-Motor Oil	mg/kg	<	52.000	52.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	1.000	1.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Acetone	ug/kg	<	3.200	3.200	ND	AU	bJ
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Unknown Compound	ug/kg		8.200	NR		AN	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Unknown	ug/kg		280.000	NR		AN	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Unknown	ug/kg		280.000	NR		AN	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Unknown Alkane	ug/kg		150.000	NR		AN	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Unknown Compound	ug/kg		160.000	NR		AN	
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Unknown Oxygenated Compound	ug/kg	<	180.000	NR	ND	AUN	B
9344E275406F	9.00	ES-2754-06	11/02/93	PAH8270	Unknown alkane	ug/kg		160.000	NR		AN	

* Station Number * ES-2754-07 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275407F	10.00	ES-2754-07	11/02/93	EPA6010	Cadmium	mg/kg	<	0.900	0.900	ND	A	U
9344E275407F	10.00	ES-2754-07	11/02/93	EPA6010	Chromium	mg/kg		9.200	0.980		AJ	*
9344E275407F	10.00	ES-2754-07	11/02/93	EPA6010	Nickel	mg/kg	<	5.700	5.700	ND	A	U
9344E275407F	10.00	ES-2754-07	11/02/93	EPA6010	Zinc	mg/kg	<	8.700	8.700	ND	AU	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA7421	Lead	mg/kg	<	4.400	4.400	ND	AU	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		18.000	11.000		A	d

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8015D	TPH-Motor Oil	mg/kg	<	95.000	95.000	ND	A	R
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8015G	TPH-Gasoline	mg/kg	<	1.100	1.100	ND	AJ-	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	1.100	1.100	ND	AJ-	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	1,1-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	1,1-Dichloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	1,2-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	1,2-Dichloropropane	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Acetone	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Benzene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Bromodichloromethane	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Bromoform	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Carbon disulfide	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Carbon tetrachloride	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Chlorobenzene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Chloroform	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Dibromochloromethane	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Methylene chloride	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Methyl ethyl ketone	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Styrene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Tetrachloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Toluene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Trichloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	Xylenes	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	2-Phenanthrenol, 4B,5,6,7,8,8A,9,1	ug/kg		210.000	NR		AN	a
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	9-Hexadecenoic acid	ug/kg		1200.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Bicyclo[3.1.0]hex-2-ene,2-methyl-5-(1-me	ug/kg		270.000	NR		AN	a

Notes:

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Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Palmitic Acid	ug/kg		260.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Tetradecanoic acid	ug/kg		240.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		220.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		220.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		230.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		270.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		270.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		300.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		310.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		370.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		410.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		440.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown	ug/kg		860.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown Alkane	ug/kg		820.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown Compound	ug/kg		1500.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown Oxygenated Compound	ug/kg		290.000	NR		AN	
9344E275407F	10.00	ES-2754-07	11/02/93	PAH8270	Unknown alkane	ug/kg		840.000	NR		AN	

* Station Number * ES-2754-08 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275408F	8.00	ES-2754-08	11/02/93	EPA6010	Cadmium	mg/kg	<	0.890	0.890	ND	A	U
9344E275408F	8.00	ES-2754-08	11/02/93	EPA6010	Chromium	mg/kg		9.800	0.980		AJ	*
9344E275408F	8.00	ES-2754-08	11/02/93	EPA6010	Nickel	mg/kg	<	5.700	5.700	ND	A	U
9344E275408F	8.00	ES-2754-08	11/02/93	EPA6010	Zinc	mg/kg	<	6.800	6.800	ND	AU	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA7421	Lead	mg/kg	<	8.100	8.100	ND	AU	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8015D	TPH-Diesel	mg/kg	<	190.000	190.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg		5300.000	190.000		A	d
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8015D	TPH-Motor Oil	mg/kg	<	320.000	320.000	ND	A	R
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8015G	TPH-Gasoline	mg/kg	<	53.000	53.000	ND	A	R
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	53.000	53.000	ND	A	d
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,1-Dichloroethane	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,1-Dichloroethene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,2,4-Trimethylbenzene	ug/kg		4500.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,2-Dichloroethane	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,2-Dichloropropane	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	1,3,5-Trimethylbenzene	ug/kg		1400.000	NR		AN	

Notes:

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Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	2-Hexanone	ug/kg	<	53.000	53.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	53.000	53.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Acetone	ug/kg		47.000	53.000		A	bJ
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Benzene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Benzene, 1-ethyl-2-methyl-	ug/kg		1100.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Benzene, 1-ethyl-2-methyl-	ug/kg		2300.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Bromodichloromethane	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Bromoform	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Bromomethane	ug/kg	<	53.000	53.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Carbon disulfide	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Carbon tetrachloride	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Chlorobenzene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Chloroethane	ug/kg	<	53.000	53.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Chloroform	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Chloromethane	ug/kg	<	53.000	53.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Dibromochloromethane	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Ethylbenzene	ug/kg		23.000	26.000		A	J
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Isopropylbenzene(1-Methylethylbenzene)	ug/kg		1000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Methylene chloride	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Methyl ethyl ketone	ug/kg	<	53.000	53.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Octane, 2,3-dimethyl	ug/kg		1700.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Styrene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Tetrachloroethene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Toluene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Trichloroethene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Unknown	ug/kg		1400.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Unknown Alkane	ug/kg		2200.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Unknown Compound	ug/kg		1200.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Unknown alkane	ug/kg		2300.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Vinyl acetate	ug/kg	<	53.000	53.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Vinyl chloride	ug/kg	<	53.000	53.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	Xylenes	ug/kg		490.000	26.000		A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	26.000	26.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	7-Methyltridecane	ug/kg		34000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Acenaphthene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Acenaphthylene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Anthracene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Benzo(a)anthracene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Benzo(a)pyrene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Chrysene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Dodecane	ug/kg		17000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Dodecane,2,6,10-trimethyl- C15H32	ug/kg		29000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Fluoranthene	ug/kg	<	6900.000	6900.000	ND	A	

Notes:

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NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Fluorene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Hexadecane	ug/kg		50000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Naphthalene	ug/kg		1200.000	6900.000		A	Jj
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Octadecane C18H38	ug/kg		40000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Pentadecane	ug/kg		46000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Pentadecane,2,6,10,14-tetramethyl-C19H20	ug/kg		120000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Phenanthrene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Phytane	ug/kg		54000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Pyrene	ug/kg	<	6900.000	6900.000	ND	A	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Tetradecane	ug/kg		37000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Tridecane	ug/kg		32000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown	ug/kg		37000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown Alkane	ug/kg		16000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown Compound	ug/kg		19000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown alkane	ug/kg		17000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown alkane	ug/kg		27000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown alkane	ug/kg		37000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown alkane	ug/kg		43000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown alkane	ug/kg		47000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown alkane	ug/kg		52000.000	NR		AN	
9344E275408F	8.00	ES-2754-08	11/02/93	PAH8270	Unknown alkane	ug/kg		55000.000	NR		AN	

* Station Number * ES-2754-09 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275409F	1.00	ES-2754-09	11/03/93	EPA6010	Cadmium	mg/kg	<	0.880	0.880	ND	A	U
9344E275409F	1.00	ES-2754-09	11/03/93	EPA6010	Chromium	mg/kg		4.900	0.960		AJ	*
9344E275409F	1.00	ES-2754-09	11/03/93	EPA6010	Nickel	mg/kg	<	5.600	5.600	ND	A	U
9344E275409F	1.00	ES-2754-09	11/03/93	EPA6010	Zinc	mg/kg		63.700	0.350		A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA7421	Lead	mg/kg		14.500	1.600		A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8015D	TPH-Diesel	mg/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8015D	TPH-Motor Oil	mg/kg	<	52.000	52.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	1.000	1.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Acetone	ug/kg	<	6.600	6.600	ND	AU	BbJ
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Methylene chloride	ug/kg	<	4.100	4.100	ND	AU	BbJ
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Cholest-8(14)-en-3-ol, 4-methyl-, (3.bet	ug/kg		180.000	NR		AN	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Octathiocane S8	ug/kg		1100.000	NR		AN	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Unknown	ug/kg		900.000	NR		AN	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Unknown Compound	ug/kg		830.000	NR		AN	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Unknown Oxygenated Compound	ug/kg	<	220.000	NR	ND	AUN	B
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Unknown hopane	ug/kg		200.000	NR		AN	
9344E275409F	1.00	ES-2754-09	11/03/93	PAH8270	Unknown lactone	ug/kg		170.000	NR		AN	

* Station Number * ES-2754-10 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275410F	1.00	ES-2754-10	11/03/93	EPA6010	Cadmium	mg/kg	<	0.900	0.900	ND	A	U

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275410F	1.00	ES-2754-10	11/03/93	EPA6010	Chromium	mg/kg		12.000	0.990		AJ	*
9344E275410F	1.00	ES-2754-10	11/03/93	EPA6010	Nickel	mg/kg	<	5.700	5.700	ND	A	U
9344E275410F	1.00	ES-2754-10	11/03/93	EPA6010	Zinc	mg/kg		35.600	0.360		A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA7421	Lead	mg/kg	<	1.000	1.000	ND	AU	W
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8015D	TPH-Diesel	mg/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8015D	TPH-Motor Oil	mg/kg	<	53.000	53.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8015G	TPH-Gasoline	mg/kg	<	1.100	1.100	ND	AJ-	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	mg/kg	<	1.100	1.100	ND	AJ-	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,1-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,1-Dichloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,2,4-Trimethylbenzene	ug/kg		55.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,2-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,2-Dichloropropane	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	1,3,5-Trimethylbenzene	ug/kg		12.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	2,3-Dihydro-1-methylindene	ug/kg		31.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Acetone	ug/kg		86.000	11.000		A	b
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Benzene	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Benzene, 1-ethenyl-2-methyl	ug/kg		29.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Benzene, 1-ethyl-2-methyl-	ug/kg		7.300	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Benzene, 1-ethyl-2-methyl-	ug/kg		9.800	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Benzene, 1-methyl-3-(1-methylethyl)-	ug/kg		17.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	ug/kg		22.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Bromodichloromethane	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Bromoform	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Carbon disulfide	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Carbon tetrachloride	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Chlorobenzene	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Chloroform	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Dibromochloromethane	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Ethanone, 1-(3-methylphenyl)-	ug/kg		22.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Isopropylbenzene(1-Methylethylbenzene)	ug/kg		15.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Methylene chloride	ug/kg	<	1.700	1.700	ND	AU	BbJ
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Methyl ethyl ketone	ug/kg	<	13.000	13.000	ND	AU	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Styrene	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Tetrachloroethene	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Toluene	ug/kg		1.100	5.300		A	J
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Trichloroethene	ug/kg	<	5.300	5.300	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	Xylenes	ug/kg		1.500	5.300		A	J
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Octathiocane S8	ug/kg		260.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown	ug/kg		150.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown	ug/kg		180.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown	ug/kg		200.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown	ug/kg		330.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown	ug/kg		480.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown	ug/kg		620.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown	ug/kg		850.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown	ug/kg		1200.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown Alkane	ug/kg		570.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown Compound	ug/kg		1100.000	NR		AN	
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown Oxygenated Compound	ug/kg	<	150.000	NR	ND	AUN	B
9344E275410F	1.00	ES-2754-10	11/03/93	PAH8270	Unknown oxygenated compound	ug/kg	<	18000.000	NR	ND	AUN	B

* Station Number * ES-2754-11 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275007F	21.00	ES-2754-11	06/29/94	8015G/8020	Benzene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	8015G/8020	Ethylbenzene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	8015G/8020	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg		1600.000	1100.000		AJ-	1
9426E275007F	21.00	ES-2754-11	06/29/94	8015G/8020	Toluene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	8015G/8020	Xylenes	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.400	5.400	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,2,4-Trimethylbenzene	ug/kg		110.000	NR		AN	a
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1H-Indene, 2,3-dihydro-1,1-dimethyl-	ug/kg		81.000	NR		AN	a
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	1H-indene, 2,3-dihydro-5-methyl-	ug/kg		99.000	NR		AN	a
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	2,3-Dihydro-1-methylindene	ug/kg		320.000	NR		AN	a
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Acetone	ug/kg	<	34.000	34.000	ND	AU	Bb
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Benzene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Benzene, 1-methyl-3-(1-methylethyl)-	ug/kg		208.000	NR		AN	a
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Benzene, 1-methyl-3-propyl-	ug/kg		80.000	NR		AN	a
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Bromodichloromethane	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Bromoform	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Carbon disulfide	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Chlorobenzene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Chloroform	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Dibromochloromethane	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Ethylbenzene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Methylene chloride	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Methyl ethyl ketone	ug/kg		7.600	11.000		A	J
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Naphthalene	ug/kg		100.000	NR		AN	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Styrene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Tetrachloroethene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Toluene	ug/kg		3.900	5.400		A	J
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Trichloroethene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		140.000	NR		AN	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	Xylenes	ug/kg		3.200	5.400		A	J
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.400	5.400	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	2-Pyrrolidinone, 1-methyl-	ug/kg		180.000	NR		AN	a
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Propanoic acid, 2-methyl-,1-(1,1-dimethy	ug/kg	<	150.000	NR	ND	AUN	Ba
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		150.000	NR		AN	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		170.000	NR		AN	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		750.000	NR		AN	
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	840.000	NR	ND	AUN	B
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	920.000	NR	ND	AUN	B
9426E275007F	21.00	ES-2754-11	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	9000.000	NR	ND	AUN	B
* Station Number * ES-2754-12			* Matrix Type * SOIL									
9426E275009F	18.00	ES-2754-12	06/29/94	8015G/8020	Benzene	ug/kg	<	170.000	170.000	ND	A	R
9426E275009F	18.00	ES-2754-12	06/29/94	8015G/8020	Ethylbenzene	ug/kg	<	170.000	170.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	8015G/8020	TPH-Gasoline	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg		890000.000	28000.000		A	1
9426E275009F	18.00	ES-2754-12	06/29/94	8015G/8020	Toluene	ug/kg		150.000	170.000		A	J
9426E275009F	18.00	ES-2754-12	06/29/94	8015G/8020	Xylenes	ug/kg		2700.000	330.000		A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8015D	TPH-Diesel	mg/kg		15000.000	1100.000		A	R
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11000.000	11000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	1,1-Dichloroethane	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	1,1-Dichloroethene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	1,2-Dichloroethane	ug/kg		5.900	28.000		A	J
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	1,2-Dichloropropane	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	2-Hexanone	ug/kg	<	56.000	56.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	56.000	56.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Acetone	ug/kg		160.000	56.000		A	BbR
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Benzene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Benzene, 1-methyl-3-(1-methylethyl)-	ug/kg		5100.000	NR		AN	a
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Bromodichloromethane	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Bromoform	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Bromomethane	ug/kg	<	56.000	56.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Carbon disulfide	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Carbon tetrachloride	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Chlorobenzene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Chloroethane	ug/kg	<	56.000	56.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Chloroform	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Chloromethane	ug/kg	<	56.000	56.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Dibromochloromethane	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Ethylbenzene	ug/kg		26.000	28.000		A	J
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Methylene chloride	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Methyl ethyl ketone	ug/kg		37.000	56.000		A	J
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Styrene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Tetrachloroethene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Toluene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Trichloroethene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		3300.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		5500.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		6100.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		7800.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		8400.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		8400.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		8400.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		9500.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		9500.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Vinyl acetate	ug/kg	<	56.000	56.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Vinyl chloride	ug/kg	<	56.000	56.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	Xylenes	ug/kg		1000.000	28.000		A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	28.000	28.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Acenaphthene	ug/kg	<	28000.000	28000.000	ND	A	j
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Acenaphthylene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Anthracene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Benzo(a)anthracene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Benzo(a)pyrene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Chrysene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Fluoranthene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Fluorene	ug/kg		4000.000	28000.000		A	J
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Hexadecane	ug/kg		150000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Naphthalene	ug/kg		7500.000	28000.000		A	J
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Naphthalene,1,3-dimethyl- C12H12	ug/kg		62000.000	NR		AN	a
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Pentadecane,2,6,10,14-tetramethyl-C19H20	ug/kg		220000.000	NR		AN	a
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Phenanthrene	ug/kg		4900.000	28000.000		A	J
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Pyrene	ug/kg	<	28000.000	28000.000	ND	A	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		33000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		36000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		37000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		41000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		42000.000	NR		AN	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		44000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		46000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		47000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		52000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		57000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		68000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		69000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		90000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		93000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		99000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		99000.000	NR		AN	
9426E275009F	18.00	ES-2754-12	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		120000.000	NR		AN	

* Station Number * ES-2754-13 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275010F	18.00	ES-2754-13	06/29/94	8015G/8020	Benzene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	8015G/8020	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	8015G/8020	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	8015G/8020	Toluene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	8015G/8020	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA7420M	Organic Lead	mg/kg	<	1.000	1.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	2,3-Dihydro-1-methylindene	ug/kg		390.000	NR		AN	a
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	2-Methylnaphthalene	ug/kg		280.000	NR		AN	a
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Acetone	ug/kg	<	10.000	10.000	ND	AU	BbJ
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Benzene, 1-ethyl-2,4-dimethyl-	ug/kg		230.000	NR		AN	a
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table E4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Isopropylbenzene(1-Methylethylbenzene)	ug/kg		170.000	NR		AN	a
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		310.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		330.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		330.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		460.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		580.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		800.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	Xylenes	ug/kg		1.100	5.200		A	J
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		170.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		220.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		230.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		270.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		290.000	NR		AN	
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	500.000	NR	ND	AUN	B
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	970.000	NR	ND	AUN	B
9426E275010F	18.00	ES-2754-13	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	11000.000	NR	ND	AUN	B

* Station Number * ES-2754-14 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275012F	20.00	ES-2754-14	06/29/94	8015G/8020	Benzene	ug/kg	<	5.300	5.300	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275012F	20.00	ES-2754-14	06/29/94	8015G/8020	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	8015G/8020	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	8015G/8020	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	8015G/8020	Toluene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	8015G/8020	Xylenes	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA7420M	Organic Lead	mg/kg	<	1.100	1.100	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	1,2-Dichloroethane	ug/kg		2.500	5.300		A	J
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Acetone	ug/kg	<	14.000	14.000	ND	AU	Bb
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Benzene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Bromodichloromethane	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Bromoform	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Carbon disulfide	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Chlorobenzene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Chloroform	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Dibromochloromethane	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Ethylbenzene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Methylene chloride	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Methyl ethyl ketone	ug/kg	<	11.000	11.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Styrene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Tetrachloroethene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Toluene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Trichloroethene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		110.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		130.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		150.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		170.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		200.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		220.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		230.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		290.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		440.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		610.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	Xylenes	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.300	5.300	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Palmitic Acid	ug/kg		180.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		150.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		180.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		210.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		250.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		260.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		290.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		340.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		440.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		450.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		680.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		720.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		1200.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg		1500.000	NR		AN	
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	380.000	NR	ND	AUN	B
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	1400.000	NR	ND	AUN	B
9426E275012F	20.00	ES-2754-14	06/29/94	PAH8270	Unknown Tentatively Identified Compound	ug/kg	<	8800.000	NR	ND	AUN	B

* Station Number * ES-2754-15 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275170F	22.00	ES-2754-15	01/17/96	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.100	1.100	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Acenaphthene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	630.000	630.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table E4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Anthracene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Chrysene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Fluoranthene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Fluorene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Naphthalene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Phenanthrene	ug/kg	<	630.000	630.000	ND	A	
9603H275170F	22.00	ES-2754-15	01/17/96	PAH8270	Pyrene	ug/kg	<	630.000	630.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Acenaphthene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Anthracene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Chrysene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Fluoranthene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Fluorene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Naphthalene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Phenanthrene	ug/kg	<	627.000	627.000	ND	A	
9603H275172D	22.00	ES-2754-15	01/17/96	PAH8270	Pyrene	ug/kg	<	627.000	627.000	ND	A	

* Station Number * ES-2754-16 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275173F	20.00	ES-2754-16	01/17/96	EPA8015D	TPH-Diesel	mg/kg		2.000	1.000		A	
9603H275173F	20.00	ES-2754-16	01/17/96	EPA8015G	TPH-Gasoline	mg/kg		1.400	1.100		A	
9603H275173F	20.00	ES-2754-16	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Acenaphthene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	632.000	632.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Anthracene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Chrysene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Fluoranthene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Fluorene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Naphthalene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Phenanthrene	ug/kg	<	632.000	632.000	ND	A	
9603H275173F	20.00	ES-2754-16	01/17/96	PAH8270	Pyrene	ug/kg	<	632.000	632.000	ND	A	

* Station Number * ES-2754-17 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275174F	20.00	ES-2754-17	01/17/96	EPA8015D	TPH-Diesel	mg/kg		4.000	1.000		A	
9603H275174F	20.00	ES-2754-17	01/17/96	EPA8015G	TPH-Gasoline	mg/kg		1.700	1.000		A	
9603H275174F	20.00	ES-2754-17	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Acenaphthene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Anthracene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Chrysene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Fluoranthene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Fluorene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Naphthalene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Phenanthrene	ug/kg	<	628.000	628.000	ND	A	
9603H275174F	20.00	ES-2754-17	01/17/96	PAH8270	Pyrene	ug/kg	<	628.000	628.000	ND	A	

* Station Number * ES-2754-18 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275177F	21.00	ES-2754-18	01/17/96	EPA8015D	TPH-Diesel	mg/kg		5.000	1.000		A	
9603H275177F	21.00	ES-2754-18	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Acenaphthene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Anthracene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Chrysene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Fluoranthene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Fluorene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Naphthalene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Phenanthrene	ug/kg	<	628.000	628.000	ND	A	
9603H275177F	21.00	ES-2754-18	01/17/96	PAH8270	Pyrene	ug/kg	<	628.000	628.000	ND	A	

* Station Number * ES-2754-19 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275178F	21.00	ES-2754-19	01/17/96	EPA8015D	TPH-Diesel	mg/kg		4.000	1.000		A	
9603H275178F	21.00	ES-2754-19	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.100	1.100	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Acenaphthene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Anthracene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Chrysene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Fluoranthene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Fluorene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Naphthalene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Phenanthrene	ug/kg	<	636.000	636.000	ND	A	
9603H275178F	21.00	ES-2754-19	01/17/96	PAH8270	Pyrene	ug/kg	<	636.000	636.000	ND	A	

* Station Number * ES-2754-20 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275182F	22.00	ES-2754-20	01/17/96	EPA8015D	TPH-Diesel	mg/kg		3.000	1.000		A	
9603H275182F	22.00	ES-2754-20	01/17/96	EPA8015G	TPH-Gasoline	mg/kg		2.000	1.100		A	
9603H275182F	22.00	ES-2754-20	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275182F	22.00	ES-2754-20	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Acenaphthene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Anthracene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Chrysene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Fluoranthene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Fluorene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Naphthalene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Phenanthrene	ug/kg	<	636.000	636.000	ND	A	
9603H275182F	22.00	ES-2754-20	01/17/96	PAH8270	Pyrene	ug/kg	<	636.000	636.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	EPA8015D	TPH-Diesel	mg/kg		8.000	1.000		A	
9603H275184D	22.00	ES-2754-20	01/17/96	EPA8015G	TPH-Gasoline	mg/kg		3.500	1.100		A	
9603H275184D	22.00	ES-2754-20	01/17/96	EPA8020	Benzene	ug/kg	<	22.000	22.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	22.000	22.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	EPA8020	Toluene	ug/kg	<	22.000	22.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	EPA8020	Xylenes	ug/kg	<	22.000	22.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Acenaphthene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Anthracene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Chrysene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Fluoranthene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Fluorene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Naphthalene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Phenanthrene	ug/kg	<	649.000	649.000	ND	A	
9603H275184D	22.00	ES-2754-20	01/17/96	PAH8270	Pyrene	ug/kg	<	649.000	649.000	ND	A	
* Station Number * SB-2754-01			* Matrix Type * SOIL									
9504E275064F	5.00	SB-2754-01	01/27/95	EPA6010	Cadmium	mg/kg	<	0.410	0.410	ND	A	U
9504E275064F	5.00	SB-2754-01	01/27/95	EPA6010	Chromium	mg/kg		8.400	0.770		A	
9504E275064F	5.00	SB-2754-01	01/27/95	EPA6010	Lead	mg/kg	<	10.500	10.500	ND	A	U
9504E275064F	5.00	SB-2754-01	01/27/95	EPA6010	Nickel	mg/kg	<	4.500	4.500	ND	A	U

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA6010	Zinc	mg/kg		4.600	0.360		A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8015G	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloropropane	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Acetone	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Benzene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Bromodichloromethane	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Bromoform	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Carbon disulfide	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Carbon tetrachloride	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Chlorobenzene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Chloroform	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Dibromochloromethane	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Ethylbenzene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Methylene chloride	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Methyl ethyl ketone	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Styrene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Tetrachloroethene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Toluene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Trichloroethene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	Xylenes	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.400	5.400	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Acenaphthene	ug/kg	<	360.000	360.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Acenaphthylene	ug/kg	<	360.000	360.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Anthracene	ug/kg	<	360.000	360.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)anthracene	ug/kg	<	360.000	360.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)pyrene	ug/kg	<	360.000	360.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Benzo(b)fluoranthene	ug/kg	<	360.000	360.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Benzo(ghi)perylene	ug/kg	<	360.000	360.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Benzo(k)fluoranthene	ug/kg	<	360.000	360.000	ND	A	
9504Z275064F	5.00	SB-2754-01	01/27/95	PAH8270	Chrysene	ug/kg	<	360.000	360.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9504E275064F	5.00	SB-2754-01	01/27/95	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	360.000	360.000	ND	A	
9504E275064F	5.00	SB-2754-01	01/27/95	PAH8270	Fluoranthene	ug/kg	<	360.000	360.000	ND	A	
9504E275064F	5.00	SB-2754-01	01/27/95	PAH8270	Fluorene	ug/kg	<	360.000	360.000	ND	A	
9504E275064F	5.00	SB-2754-01	01/27/95	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	360.000	360.000	ND	A	
9504E275064F	5.00	SB-2754-01	01/27/95	PAH8270	Naphthalene	ug/kg	<	360.000	360.000	ND	A	
9504E275064F	5.00	SB-2754-01	01/27/95	PAH8270	Phenanthrene	ug/kg	<	360.000	360.000	ND	A	
9504E275064F	5.00	SB-2754-01	01/27/95	PAH8270	Pyrene	ug/kg	<	360.000	360.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA6010	Cadmium	mg/kg	<	0.410	0.410	ND	A	U
9504E275065F	10.00	SB-2754-01	01/27/95	EPA6010	Chromium	mg/kg		9.000	0.770		A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA6010	Lead	mg/kg	<	10.600	10.600	ND	A	U
9504E275065F	10.00	SB-2754-01	01/27/95	EPA6010	Nickel	mg/kg	<	4.600	4.600	ND	AU	B
9504E275065F	10.00	SB-2754-01	01/27/95	EPA6010	Zinc	mg/kg		5.900	0.370		A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8015G	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethane	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethane	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloropropane	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Acetone	ug/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Benzene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Bromodichloromethane	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Bromoform	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Carbon disulfide	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Carbon tetrachloride	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Chlorobenzene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Chloroform	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Dibromochloromethane	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Ethylbenzene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Methylene chloride	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Methyl ethyl ketone	ug/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Styrene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Tetrachloroethene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Toluene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Trichloroethene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	Xylenes	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.500	5.500	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Acenaphthene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Acenaphthylene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Anthracene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)anthracene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)pyrene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Benzo(b)fluoranthene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Benzo(ghi)perylene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Benzo(k)fluoranthene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Chrysene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Fluoranthene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Fluorene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Naphthalene	ug/kg		37.000	370.000		A	J
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Phenanthrene	ug/kg	<	370.000	370.000	ND	A	
9504E275065F	10.00	SB-2754-01	01/27/95	PAH8270	Pyrene	ug/kg	<	370.000	370.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA6010	Cadmium	mg/kg	<	0.400	0.400	ND	A	U
9504E275066F	20.00	SB-2754-01	01/27/95	EPA6010	Chromium	mg/kg		9.300	0.770		A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA6010	Lead	mg/kg	<	10.500	10.500	ND	A	U
9504E275066F	20.00	SB-2754-01	01/27/95	EPA6010	Nickel	mg/kg	<	5.300	5.300	ND	AU	B
9504E275066F	20.00	SB-2754-01	01/27/95	EPA6010	Zinc	mg/kg		7.800	0.360		A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8015G	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloropropane	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1,3-dimethyl	ug/kg		17.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-2-methyl-	ug/kg		25.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	2,3-Dihydro-1-methylindene	ug/kg		48.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Acetone	ug/kg	<	34.000	34.000	ND	AU	Bb
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Benzene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Benzene, 1,4-dimethyl-2-(1-methylethyl)	ug/kg		20.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Benzene, 1-methyl-2-(1-methylethyl)-	ug/kg		16.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	ug/kg		17.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Benzene, methyl(1-methy-lethyl)-	ug/kg		15.000	NR		AN	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Bromodichloromethane	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Bromoform	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Carbon disulfide	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Carbon tetrachloride	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Chlorobenzene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Chloroform	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Dibromochloromethane	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Ethylbenzene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Isopropylbenzene(1-Methylethylbenzene)	ug/kg		22.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Methylene chloride	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Methyl ethyl ketone	ug/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Napthalene,1,2,3,4 Tetrahydro-119642	ug/kg		16.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Styrene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Tetrachloroethene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Toluene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Trichloroethene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Unknown Compound	ug/kg		15.000	NR		AN	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	Xylenes	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.400	5.400	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Acenaphthene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Acenaphthylene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Anthracene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)anthracene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)pyrene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Benzo(b)fluoranthene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Benzo(ghi)perylene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Benzo(k)fluoranthene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Chrysene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Fluoranthene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Fluorene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Naphthalene	ug/kg		58.000	360.000		A	J
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Phenanthrene	ug/kg	<	360.000	360.000	ND	A	
9504E275066F	20.00	SB-2754-01	01/27/95	PAH8270	Pyrene	ug/kg	<	360.000	360.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA6010	Cadmium	mg/kg	<	0.400	0.400	ND	A	U
9504E275067F	30.00	SB-2754-01	01/27/95	EPA6010	Chromium	mg/kg		6.800	0.770		A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA6010	Lead	mg/kg	<	10.500	10.500	ND	A	U
9504E275067F	30.00	SB-2754-01	01/27/95	EPA6010	Nickel	mg/kg	<	7.900	7.900	ND	AU	B
9504E275067F	30.00	SB-2754-01	01/27/95	EPA6010	Zinc	mg/kg		5.000	0.360		A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8015D	TPH-Diesel	mg/kg	<	1.100	1.100	ND	A	

Notes:

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Table E4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8015G	TPH-Gasoline	ug/kg	<	1100.000	1100.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1100.000	1100.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,2,3,4-Tetramethylbenzene	ug/kg		6.100	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethane	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloropropane	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1H-Indene, 1-methylene	ug/kg		13.000	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1,2-dimethyl-	ug/kg		13.000	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1,3-dimethyl	ug/kg		6.600	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1,6-dimethyl-	ug/kg		11.000	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	1H-Indene, 2,3-dihydro-1-methyl-	ug/kg		27.000	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	2,3-Dihydro-1-methylindene	ug/kg		12.000	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	2-Hexanone	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Acetone	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Benzene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Bromodichloromethane	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Bromoform	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Bromomethane	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Carbon disulfide	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Carbon tetrachloride	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Chlorobenzene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Chloroethane	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Chloroform	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Chloromethane	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Dibromochloromethane	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Ethylbenzene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Indene,1-ethylidene-C11H10	ug/kg		7.900	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Methylene chloride	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Methyl ethyl ketone	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Napthalene,1,2,3,4 Tetrahydro-119642	ug/kg		7.900	NR		AN	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Styrene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Tetrachloroethene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Toluene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Trichloroethene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Vinyl acetate	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Vinyl chloride	ug/kg	<	11.000	11.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	Xylenes	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.400	5.400	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9504E275067F	30.00	SB-2754-01	01/27/95	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9504E275068F	40.00	SB-2754-01	01/27/95	EPA6010	Chromium	mg/kg		9.500	0.750		A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA6010	Lead	mg/kg	<	10.200	10.200	ND	A	U
9504E275068F	40.00	SB-2754-01	01/27/95	EPA6010	Nickel	mg/kg	<	9.500	9.500	ND	AU	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA6010	Zinc	mg/kg		6.200	0.350		A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Acetone	ug/kg	<	10.000	10.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9504E275068F	40.00	SB-2754-01	01/27/95	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9504Z275068F	40.00	SB-2754-01	01/27/95	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	

* Station Number * SB-2754-02 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA6010	Chromium	mg/kg		7.900	0.730		A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA6010	Lead	mg/kg	<	10.000	10.000	ND	A	U
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA6010	Nickel	mg/kg		4.800	4.300		A	B
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA6010	Zinc	mg/kg		6.300	0.350		A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.100	5.100	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.100	5.100	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,2,3-Trimethylbenzene	ug/kg		19.000	NR		AN	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,2,4-Trimethylbenzene	ug/kg		6.000	NR		AN	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.100	5.100	ND	A	
9451Z275034F	10.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.100	5.100	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	1H-Indene, 2,3-dihydro-1-methyl-	ug/kg		16.900	NR		AN	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Acetone	ug/kg		7.900	10.000		A	Jb
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Benzene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Benzene, 1-methyl-2-(1-methylethyl)-	ug/kg		8.300	NR		AN	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Benzene, 1-methyl-3-(1-methylethyl)-	ug/kg		6.400	NR		AN	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Benzene, 4-ethyl-1,2-dimethyl-	ug/kg		8.900	NR		AN	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Benzene, diethyl-	ug/kg		7.100	NR		AN	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Benzeneacetonitrile	ug/kg		7.400	NR		AN	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Bromodichloromethane	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Bromoform	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Carbon disulfide	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Chlorobenzene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Chloroform	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Dibromochloromethane	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Ethylbenzene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Methylene chloride	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Styrene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Tetrachloroethene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Toluene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Trichloroethene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	Xylenes	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9451E275034F	10.00	SB-2754-02	12/22/94	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9451E275035F	20.00	SB-2754-02	12/22/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9451E275035F	20.00	SB-2754-02	12/22/94	EPA6010	Chromium	mg/kg		10.200	0.750		A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA6010	Lead	mg/kg	<	10.200	10.200	ND	A	U
9451E275035F	20.00	SB-2754-02	12/22/94	EPA6010	Nickel	mg/kg		9.200	4.400		A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA6010	Zinc	mg/kg		8.000	0.350		A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Acetone	ug/kg		74.000	10.000		A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Heptanal	ug/kg		12.000	NR		AN	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Methyl ethyl ketone	ug/kg		2.100	10.000		A	Jb
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		6.000	NR		AN	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		8.600	NR		AN	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		13.000	NR		AN	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		15.000	NR		AN	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		52.000	NR		AN	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9451E275035F	20.00	SB-2754-02	12/22/94	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9451E275036F	30.00	SB-2754-02	12/22/94	EPA6010	Chromium	mg/kg		6.900	0.730		A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA6010	Lead	mg/kg	<	10.000	10.000	ND	A	U
9451E275036F	30.00	SB-2754-02	12/22/94	EPA6010	Nickel	mg/kg		9.300	4.300		A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA6010	Zinc	mg/kg		5.400	0.350		A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Acetone	ug/kg		7.300	10.000		A	Jb
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Benzene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Bromodichloromethane	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Bromoform	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Carbon disulfide	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Chlorobenzene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Chloroform	ug/kg	<	5.100	5.100	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Dibromochloromethane	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Ethylbenzene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Methylene chloride	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Methyl ethyl ketone	ug/kg		2.600	10.000		A	Jb
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Styrene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Tetrachloroethene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Toluene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Trichloroethene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		9.200	NR		AN	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	Xylenes	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9451E275036F	30.00	SB-2754-02	12/22/94	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9451E275037F	40.00	SB-2754-02	12/22/94	EPA6010	Chromium	mg/kg		8.300	0.740		A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA6010	Lead	mg/kg	<	10.100	10.100	ND	A	U
9451E275037F	40.00	SB-2754-02	12/22/94	EPA6010	Nickel	mg/kg		12.000	4.400		A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA6010	Zinc	mg/kg		6.200	0.350		A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Acetone	ug/kg		9.800	10.000		A	Jb
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9451E275037F	40.00	SB-2754-02	12/22/94	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	

* Station Number * SB-2754-03 * Matrix Type * SOIL

9450E275022F	25.00	SB-2754-03	12/16/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9450E275022F	25.00	SB-2754-03	12/16/94	EPA6010	Chromium	mg/kg		11.700	0.740		AJ	*

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450E275022F	25.00	SB-2754-03	12/16/94	EPA6010	Lead	mg/kg	<	10.000	10.000	ND	A	U
9450E275022F	25.00	SB-2754-03	12/16/94	EPA6010	Nickel	mg/kg		13.200	4.300		A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA6010	Zinc	mg/kg		5.400	0.350		A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	AJ-	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	AJ-	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Acetone	ug/kg		7.700	10.000		A	Jb
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	

Notes:

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Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9450E275022F	25.00	SB-2754-03	12/16/94	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9450E275023F	30.00	SB-2754-03	12/16/94	EPA6010	Chromium	mg/kg		15.600	0.740		AJ	*
9450E275023F	30.00	SB-2754-03	12/16/94	EPA6010	Lead	mg/kg	<	10.100	10.100	ND	A	U
9450E275023F	30.00	SB-2754-03	12/16/94	EPA6010	Nickel	mg/kg		14.800	4.300		A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA6010	Zinc	mg/kg		5.200	0.350		A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Acetone	ug/kg		7.500	10.000		A	Jb
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Benzocycloheptatriene	ug/kg		10.000	NR		AN	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9450E275023F	30.00	SB-2754-03	12/16/94	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450X275023F	30.00	SB-2754-03	12/16/94	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9450X275023F	30.00	SB-2754-03	12/16/94	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9450X275024F	50.00	SB-2754-03	12/16/94	EPA6010	Chromium	mg/kg		8.900	0.750		AJ	*
9450X275024F	50.00	SB-2754-03	12/16/94	EPA6010	Lead	mg/kg	<	10.200	10.200	ND	A	U
9450X275024F	50.00	SB-2754-03	12/16/94	EPA6010	Nickel	mg/kg		12.800	4.400		A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA6010	Zinc	mg/kg		7.100	0.350		A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	Acetone	ug/kg		1.900	10.000		A	Jb
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9450X275024F	50.00	SB-2754-03	12/16/94	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Acenaphthene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Acenaphthylene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Anthracene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Benzo(a)anthracene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Benzo(a)pyrene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Chrysene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Fluoranthene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Fluorene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Naphthalene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Phenanthrene	ug/kg	<	350.000	350.000	ND	A	
9450E275024F	50.00	SB-2754-03	12/16/94	PAH8270	Pyrene	ug/kg	<	350.000	350.000	ND	A	

* Station Number * SB-2754-04 * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450E275019F	25.00	SB-2754-04	12/16/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9450E275019F	25.00	SB-2754-04	12/16/94	EPA6010	Chromium	mg/kg		11.700	0.730		A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA6010	Lead	mg/kg	<	10.000	10.000	ND	A	U
9450E275019F	25.00	SB-2754-04	12/16/94	EPA6010	Nickel	mg/kg		15.500	4.300		A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA6010	Zinc	mg/kg		6.300	0.340		A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.100	5.100	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table E4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Acetone	ug/kg		10.000	10.000		A	Jb
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Benzene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Bromodichloromethane	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Bromoform	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Carbon disulfide	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Chlorobenzene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Chloroform	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Dibromochloromethane	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Ethylbenzene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Methylene chloride	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Styrene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Tetrachloroethene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Toluene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Trichloroethene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	Xylenes	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Acenaphthene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Acenaphthylene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Anthracene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Benzo(a)anthracene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Benzo(a)pyrene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Chrysene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Fluoranthene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Fluorene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Naphthalene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Phenanthrene	ug/kg	<	330.000	330.000	ND	A	
9450E275019F	25.00	SB-2754-04	12/16/94	PAH8270	Pyrene	ug/kg	<	330.000	330.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA6010	Chromium	mg/kg		7.100	0.740		A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA6010	Lead	mg/kg	<	10.100	10.100	ND	A	U
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA6010	Nickel	mg/kg		10.400	4.400		A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA6010	Zinc	mg/kg		6.000	0.350		A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Acetone	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Benzene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Bromodichloromethane	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Bromoform	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Carbon disulfide	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Chlorobenzene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Chloroform	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Dibromochloromethane	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Ethylbenzene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Methylene chloride	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Styrene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Tetrachloroethene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Toluene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Trichloroethene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	Xylenes	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.200	5.200	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9450Z275020F	30.00	SB-2754-04	12/16/94	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9450X275020F	30.00	SB-2754-04	12/16/94	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA6010	Cadmium	mg/kg	<	0.390	0.390	ND	A	U
9450X275021F	40.00	SB-2754-04	12/16/94	EPA6010	Chromium	mg/kg		7.000	0.740		AJ	*
9450X275021F	40.00	SB-2754-04	12/16/94	EPA6010	Lead	mg/kg	<	10.100	10.100	ND	A	U
9450X275021F	40.00	SB-2754-04	12/16/94	EPA6010	Nickel	mg/kg		8.300	4.300		A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA6010	Zinc	mg/kg		6.100	0.350		A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8015D	TPH-Diesel	mg/kg	<	1.000	1.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8015D	TPH-Extractable Unknown Hydrocarbon	mg/kg	<	10.000	10.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8015G	TPH-Gasoline	ug/kg	<	1000.000	1000.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8015G	TPH-Purgeable Unknown Hydrocarbon	ug/kg	<	1000.000	1000.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	1,1,1-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	1,1,2,2-Tetrachloroethane	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	1,1,2-Trichloroethane	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	1,1-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	1,1-Dichloroethene	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloroethane	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloroethene (total)	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	1,2-Dichloropropane	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	2-Hexanone	ug/kg	<	10.000	10.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	4-Methyl-2-pentanone(MIBK)	ug/kg	<	10.000	10.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Acetone	ug/kg	<	10.000	10.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Benzene	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Bromodichloromethane	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Bromoform	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Bromomethane	ug/kg	<	10.000	10.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Carbon disulfide	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Carbon tetrachloride	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Chlorobenzene	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Chloroethane	ug/kg	<	10.000	10.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Chloroform	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Chloromethane	ug/kg	<	10.000	10.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Dibromochloromethane	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Ethylbenzene	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Methylene chloride	ug/kg	<	5.100	5.100	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Methyl ethyl ketone	ug/kg	<	10.000	10.000	ND	A	
9450X275021F	40.00	SB-2754-04	12/16/94	EPA8240	Styrene	ug/kg	<	5.100	5.100	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	Tetrachloroethene	ug/kg	<	5.100	5.100	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	Toluene	ug/kg	<	5.100	5.100	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	Trichloroethene	ug/kg	<	5.100	5.100	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	Unknown Tentatively Identified Compound	ug/kg		5.500	NR		AN	
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	Vinyl acetate	ug/kg	<	10.000	10.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	Vinyl chloride	ug/kg	<	10.000	10.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	Xylenes	ug/kg	<	5.100	5.100	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	cis-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	EPA8240	trans-1,3-Dichloropropene	ug/kg	<	5.100	5.100	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Acenaphthene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Acenaphthylene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Anthracene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Benzo(a)anthracene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Benzo(a)pyrene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Benzo(b)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Benzo(ghi)perylene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Benzo(k)fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Chrysene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Fluoranthene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Fluorene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Naphthalene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Phenanthrene	ug/kg	<	340.000	340.000	ND	A	
9450E275021F	40.00	SB-2754-04	12/16/94	PAH8270	Pyrene	ug/kg	<	340.000	340.000	ND	A	

* Station Number * SP-2754-A * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275188F	0.00	SP-2754-A	01/17/96	EPA8015D	TPH-Diesel	mg/kg		10.000	1.000		A	
9603H275188F	0.00	SP-2754-A	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Acenaphthene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Anthracene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Chrysene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Fluoranthene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Fluorene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Naphthalene	ug/kg	<	624.000	624.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Phenanthrene	ug/kg	<	624.000	624.000	ND	A	
9603H275188F	0.00	SP-2754-A	01/17/96	PAH8270	Pyrene	ug/kg	<	624.000	624.000	ND	A	

* Station Number * SP-2754-B * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275187F	0.00	SP-2754-B	01/17/96	EPA8015D	TPH-Diesel	mg/kg		9.000	1.000		A	
9603H275187F	0.00	SP-2754-B	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Acenaphthene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Anthracene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Chrysene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Fluoranthene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Fluorene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Naphthalene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Phenanthrene	ug/kg	<	627.000	627.000	ND	A	
9603H275187F	0.00	SP-2754-B	01/17/96	PAH8270	Pyrene	ug/kg	<	627.000	627.000	ND	A	

* Station Number * SP-2754-C * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275185F	0.00	SP-2754-C	01/17/96	EPA8015D	TPH-Diesel	mg/kg		20.000	1.000		A	
9603H275185F	0.00	SP-2754-C	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.000	1.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Acenaphthene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Anthracene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Chrysene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Fluoranthene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Fluorene	ug/kg	<	626.000	626.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Naphthalene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Phenanthrene	ug/kg	<	626.000	626.000	ND	A	
9603H275185F	0.00	SP-2754-C	01/17/96	PAH8270	Pyrene	ug/kg	<	626.000	626.000	ND	A	

* Station Number * SP-2754-D * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275175F	0.00	SP-2754-D	01/17/96	EPA8015D	TPH-Diesel	mg/kg		200.000	10.000		A	
9603H275175F	0.00	SP-2754-D	01/17/96	EPA8015G	TPH-Gasoline	mg/kg		7.900	1.000		A	
9603H275175F	0.00	SP-2754-D	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Acenaphthene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Anthracene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Chrysene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Fluoranthene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Fluorene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Naphthalene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Phenanthrene	ug/kg	<	626.000	626.000	ND	A	
9603H275175F	0.00	SP-2754-D	01/17/96	PAH8270	Pyrene	ug/kg	<	626.000	626.000	ND	A	

* Station Number * SP-2754-E * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275176F	0.00	SP-2754-E	01/17/96	EPA8015D	TPH-Diesel	mg/kg		9.000	1.000		A	
9603H275176F	0.00	SP-2754-E	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.100	1.100	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Acenaphthene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Anthracene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Chrysene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	632.000	632.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Report Date: Aug 2, 1996

Table B4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Fluoranthene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Fluorene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Naphthalene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Phenanthrene	ug/kg	<	632.000	632.000	ND	A	
9603H275176F	0.00	SP-2754-E	01/17/96	PAH8270	Pyrene	ug/kg	<	632.000	632.000	ND	A	

* Station Number * SP-2754-F * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275186F	0.00	SP-2754-F	01/17/96	EPA8015D	TPH-Diesel	mg/kg		20.000	1.000		A	
9603H275186F	0.00	SP-2754-F	01/17/96	EPA8015G	TPH-Gasoline	mg/kg		2.100	1.000		A	
9603H275186F	0.00	SP-2754-F	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Acenaphthene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Anthracene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Chrysene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Fluoranthene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Fluorene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Naphthalene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Phenanthrene	ug/kg	<	625.000	625.000	ND	A	
9603H275186F	0.00	SP-2754-F	01/17/96	PAH8270	Pyrene	ug/kg	<	625.000	625.000	ND	A	

* Station Number * SP-2754-G * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275189F	0.00	SP-2754-G	01/17/96	EPA8015D	TPH-Diesel	mg/kg		30.000	1.000		A	
9603H275189F	0.00	SP-2754-G	01/17/96	EPA8015G	TPH-Gasoline	mg/kg	<	1.100	1.100	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Acenaphthene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Anthracene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	631.000	631.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

Table E4. Chemical Data Report - All Chemical Results, Facility 2754
Site Investigation Report, Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California
Date Range: 11/01/93-01/17/96

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Chrysene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Fluoranthene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Fluorene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Naphthalene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Phenanthrene	ug/kg	<	631.000	631.000	ND	A	
9603H275189F	0.00	SP-2754-G	01/17/96	PAH8270	Pyrene	ug/kg	<	631.000	631.000	ND	A	

* Station Number * SP-2754-H * Matrix Type * SOIL

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275190F	0.00	SP-2754-H	01/17/96	EPA8015D	TPH-Diesel	mg/kg		200.000	5.000		A	
9603H275190F	0.00	SP-2754-H	01/17/96	EPA8015G	TPH-Gasoline	mg/kg		9.600	1.100		A	
9603H275190F	0.00	SP-2754-H	01/17/96	EPA8020	Benzene	ug/kg	<	21.000	21.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	EPA8020	Ethylbenzene	ug/kg	<	21.000	21.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	EPA8020	Toluene	ug/kg	<	21.000	21.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	EPA8020	Xylenes	ug/kg	<	21.000	21.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Acenaphthene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Acenaphthylene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Anthracene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Benzo(a)anthracene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Benzo(a)pyrene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Benzo(b)fluoranthene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Benzo(ghi)perylene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Benzo(k)fluoranthene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Chrysene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Dibenzo(a,h)anthracene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Fluoranthene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Fluorene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Indeno(1,2,3-cd)pyrene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Naphthalene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Phenanthrene	ug/kg	<	637.000	637.000	ND	A	
9603H275190F	0.00	SP-2754-H	01/17/96	PAH8270	Pyrene	ug/kg	<	637.000	637.000	ND	A	

* Station Number * TRIP BLANK * Matrix Type * H2O

Sample Number	Sample Depth	Station Number	Sample Date	Test Method	Analyte	Units		Value	Reporting Limit		HLA Qual	Lab Qual
9603H275191A	0.00	TRIP BLANK	01/17/96	EPA8015G	TPH-Gasoline	%	<	65.000	NR	ND	A	
9603H275191A	0.00	TRIP BLANK	01/17/96	EPA8020	Benzene	ug/l	<	0.500	0.500	ND	A	
9603H275191A	0.00	TRIP BLANK	01/17/96	EPA8020	Ethylbenzene	ug/l	<	0.500	0.500	ND	A	
9603H275191A	0.00	TRIP BLANK	01/17/96	EPA8020	Toluene	ug/l	<	0.500	0.500	ND	A	
9603H275191A	0.00	TRIP BLANK	01/17/96	EPA8020	Xylenes	ug/l	<	1.000	1.000	ND	A	

Notes:

ND: Not Detected
NR: Not Reported
NA: Not Analyzed

APPENDIX C

APPENDIX C

BORING LOGS

MAJOR DIVISIONS			SYMBOLS		TYPICAL NAMES
COARSE-GRAINED SOILS OVER 50%>No.200 SIEVE SIZE	GRAVELS MORE THAN 1/2 OF COARSE FRACTION> No.4 SIEVE SIZE	CLEAN GRAVELS WITH LESS THAN 5% FINES	GW	○	Well-graded gravels or gravel-sand mixtures, little or no fines
			GP	○	Poorly graded gravels or gravel-sand mixtures, little or no fines
		GRAVELS WITH OVER 15% FINES	GM	▥	Silty gravels, gravel-sand mixtures
			GC	▨	Clayey gravels, gravel-sand-clay mixtures
	SANDS MORE THAN 1/2 OF COARSE FRACTION< No.4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 5% FINES	SW	⁘	Well-graded sands or gravelly sands, little or no fines
			SP	⁘	Poorly graded sands or gravelly sands, little or no fines
		SANDS WITH OVER 15% FINES	SM	▥	Silty sands, sand-silt mixtures
			SC	▨	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS OVER 50%< No.200 SIEVE SIZE	SILTS & CLAYS LIQUID LIMIT 50% OR LESS		ML	▥	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL	▨	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	SILTS & CLAYS LIQUID LIMIT GREATER THAN 50%		MH	▥	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH	▨	Inorganic clays of high plasticity, fat clays
ROCK TYPES	SANDSTONE			⁘	Sandstone
	SILTSTONE			☰	Siltstone
	MUDSTONE			☰	Mudstone
	CHERT			△	Chert

SYMBOLS KEY

☒	Bulk or classification sample
■	Sample preserved for possible laboratory analysis
▽	First-encountered groundwater level
▼	Static groundwater level
(10YR 4/4)	Munsell soil color 1990 edition
NA	Not available
ND	Not detected
*	Sample submitted for laboratory analysis
**	Converted to standard penetration blow counts

GRAIN SIZE CHART

CLASSIFICATION	RANGE OF GRAIN SIZES	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL	3" to No.4	76.2 to 4.75
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No.4	19.1 to 4.75
SAND	No.4 to No.200	4.75 to 0.075
coarse	No.4 to No.10	4.75 to 2.00
medium	No.10 to No.40	2.00 to 0.425
fine	No.40 to No.200	0.425 to 0.075
SILT & CLAY	Below No.200	Below 0.075

Source: ASTM D 2488-90, based on Unified Soil Classification System

HLA

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Soil Classification Chart
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

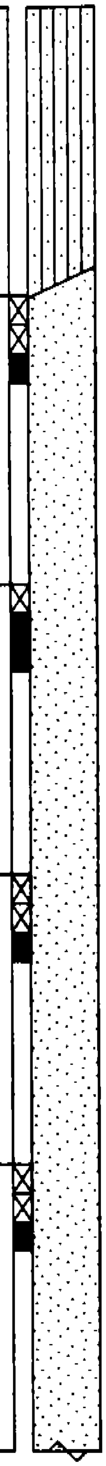
PLATE
C1

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl Date 10-27-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)	Description
				0	BROWN SILTY SAND (SM) (10YR 4/3): loose, dry, very fine- to medium-grained, 30% silt.
		ND			
4	18	2	030F*	5	DARK YELLOWISH BROWN SAND (SP) (10YR 4/4), loose, dry, very fine- to fine-grained, 10% silt, with moderate roots.
11	18	>1000	032F*	10	@ 10 feet: Color change to light yellowish brown (2.5YR 6/4), becoming medium dense, moist, lack of silt, very strong petroleum odor.
29	18	>1000	033F*	15	
28	18	>1000	034F*	20	@ 20 feet: Color change to light yellowish brown (2.5YR 6/4), continued strong petroleum odor.
23	18	200	035F*	25	



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Log of Boring SB-4110-01
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

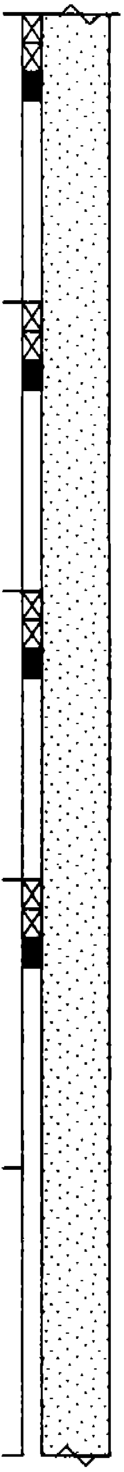
PLATE
C2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl **Date** 10-27-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number	Depth (ft.)	Description
			9343C411	25	@ 25 feet: Color change to brownish yellow (10YR 6/6), fine to medium, becoming medium dense, moist to wet.
30	18	5		30	@ 30 feet: Fine to coarse sand.
23	18	12		35	@ 35 feet: Occasional thin lenses of very fine to fine sand, predominately fine to medium.
33	18	14		40	@ 40 feet: Sand becoming dense, moist.
		ND		45	
		ND			
				50	



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Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

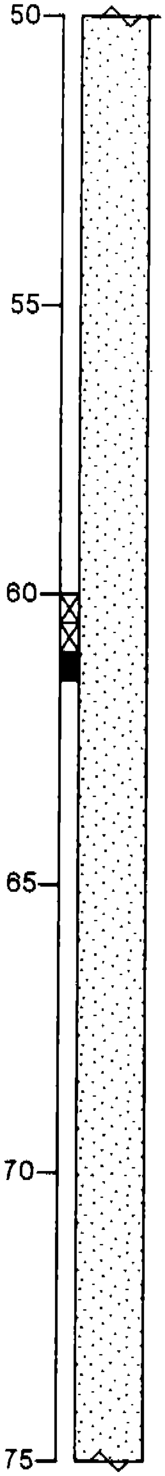
PLATE
C2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl   Date 10-27-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)	
				50	@ 50 feet: As above.
59	18	25		60	@ 60 feet: Brownish yellow sand (SP) (10YR 6/6): very dense, moist, very fine to fine, moderate petroleum odor.
				70	@ 70 feet: As above.



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Log of Boring SB-4110-01
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

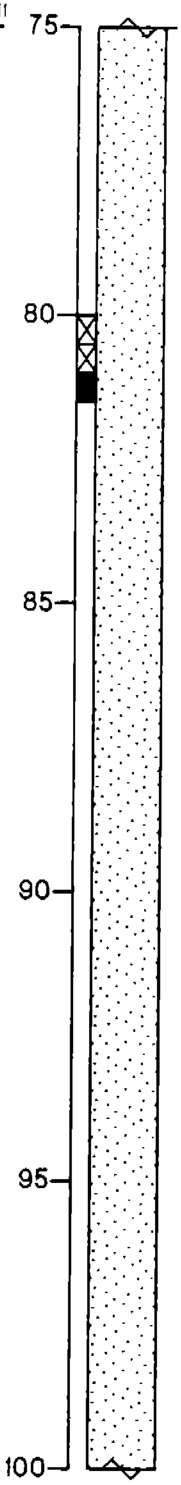
PLATE
C2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JJ	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl **Date** 10-27-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)
				75
82	18	ND	040F*	80
				85
				90
				95
56	18	7		100



@ 80 feet: Color change to light yellowish brown sand (10YR 6/4), very fine to fine, no petroleum odor.

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Site Investigation
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Former Fort Ord, California

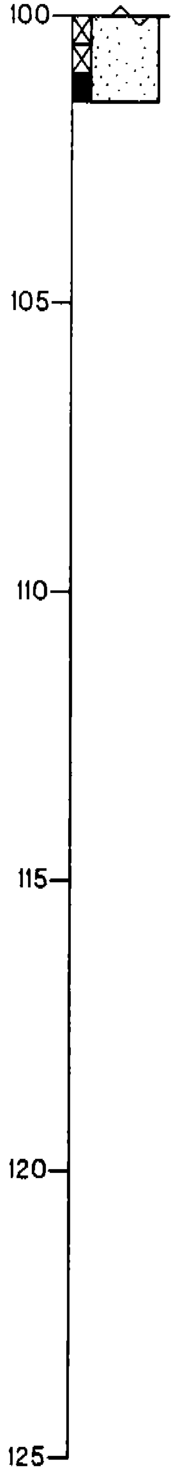
PLATE
C2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JF	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl **Date** 10-27-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number	Depth (ft.)	Sample
			9343C411	100	



@ 100 feet: Light yellowish brown (10YR 6/4), very fine to fine, no odor.

Bottom of boring at 101.5 feet. No Groundwater Encountered

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Log of Boring SB-4110-01
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

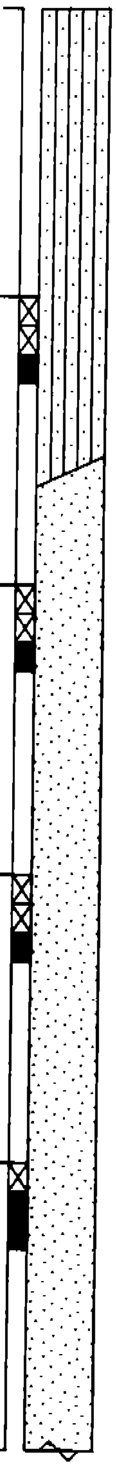
PLATE
C2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JJ	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl **Date** 10-28-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)
				0
15	18	3	042F*	5
18	18	1		10
24	18	ND		15
38	18	ND	045F*	20
38	18	1		25



BROWN SILTY SAND (SM) (10YR 4/3): loose, dry, very fine-grained, 40% silt, trace of organics.

YELLOWISH BROWN SILTY SAND (SM) (10YR 5/8): medium dense, dry to moist, very fine- to medium-grained, 20-30% silt.

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6): medium dense, moist, very fine- to medium-grained.

@ 15 feet: Sand as above with dark to rust colored inclusions 5%.

@ 20 feet: Color change to brownish yellow sand (10YR 6/6), becoming dense, medium to coarse.

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Log of Boring SB-4110-02
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

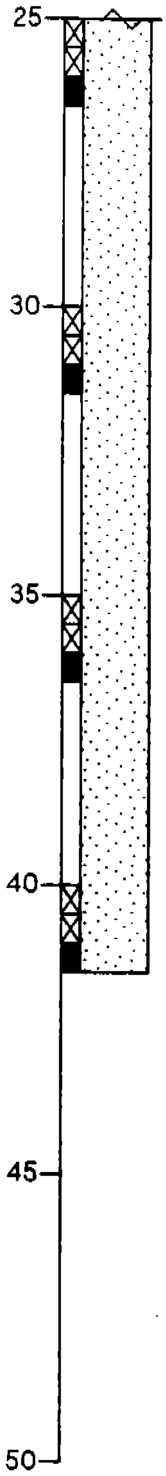
PLATE
C3

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl Date 10-28-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)	
				25	@ 25 feet: Becoming fine to medium.
48	18	ND	048F*	30	
45	18	5	049F*	35	@ 35 feet: Becoming very dense, lenses of coarse sand.
38	18	2		40	@ 40 feet: Becoming dense, medium-grained.
					Bottom of boring at 41.5 feet. No Groundwater Encountered



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Log of Boring SB-4110-02
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

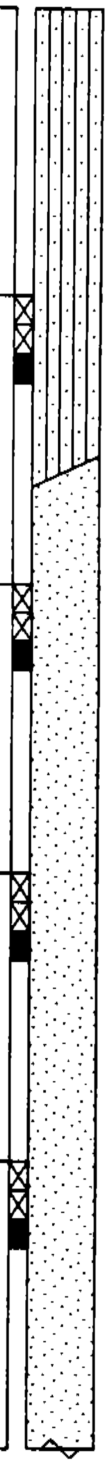
PLATE
C3

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl **Date** 10-28-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)
				0
12	18	2		5
19	18	2		10
26	18	2		15
30	18	1		20
40	18	4	055F*	25



BROWN SILTY SAND (SM) (10YR 4/3): loose, dry, very fine-grained, 40% silt, trace of organics.

YELLOWISH BROWN SILTY SAND (SM) (10YR 5/8): medium dense, dry to moist, very fine- to medium-grained, 20-30% silt.

BROWNISH YELLOW SAND (SP) (10YR 6/6): mdeium dense, moist, very fine- to fine-grained.

@ 15 feet: Color change to light yellowish brown (10YR 6/4), becoming dense, minor dark brown rust colored inclusions (<5%).

@ 20 feet: Color change to yellowish brown (10YR 5/6), sand becoming fine to medium.

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Log of Boring SB-4110-03
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

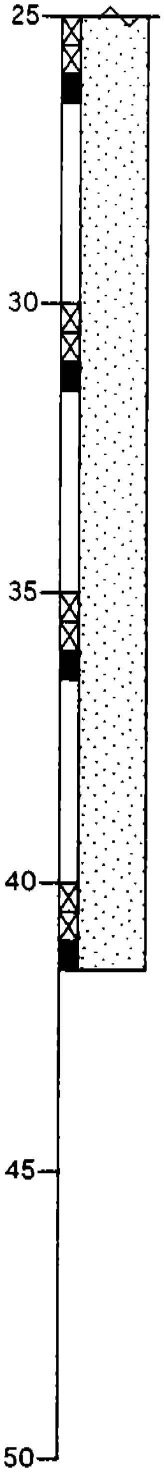
PLATE
C4

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl Date 10-28-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)
				25
39	18	5	056F*	30
35	18	1		35
46	18	1	058F*	40
				45
				50



@ 35 feet: Becoming medium to coarse.

@ 40 feet: Becoming very dense, fine to medium.

Bottom of boring at 41.5 feet. No Groundwater Encountered

F10-UST

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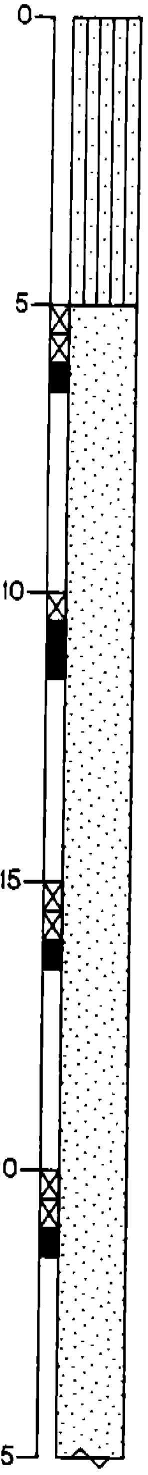
Log of Boring SB-4110-03
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE
C4

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JJ	1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 260 ft. msl Date 10-28-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)
				0
10	18	ND		5
14	18	1	060F*	10
23	18	1		15
27	18	1		20
27	18	7	063F*	25



BROWN SILTY SAND (SM) (10YR 4/3): loose, dry, very fine-grained, 40% silt, trace of organics.

YELLOWISH BROWN SAND (SP) (10YR 5/8): medium dense, dry to moist, very fine- to fine-grained.

@ 10 feet: Color change to light yellowish brown (10YR 6/4), mottled dark brown with rust, becoming moist.

@ 15 feet: Color change to brownish yellow (10YR 6/6), medium dense, fine to medium sand.

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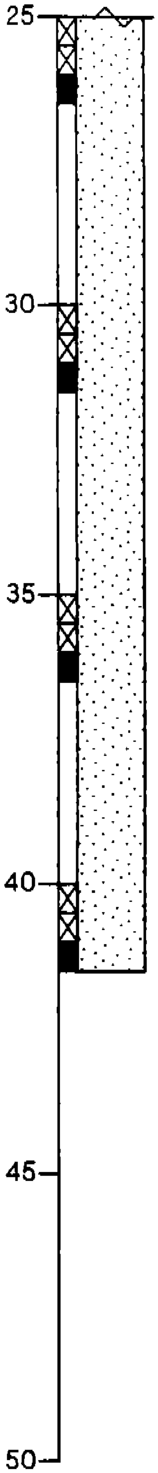
Log of Boring SB-4110-04
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE
C5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JT	1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 260 ft. msl Date 10-28-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)	
				25	@ 25 feet: Color change to yellowish brown (10YR 5/6), fine to medium.
35	18	5	064F*	30	@ 30 feet: Becoming fine to coarse, moist to wet.
39	18	1		35	
48	18	1	066F*	40	@ 40 feet: Color change to yellowish brown (10YR 5/6) sand, fine to medium, moist to wet.
					Bottom of boring at 41.5 feet. No Groundwater Encountered
				45	
				50	



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Log of Boring SB-4110-04
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

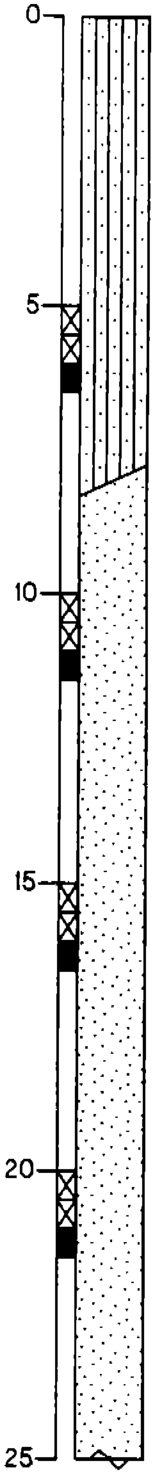
PLATE
C5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl **Date** 10-28-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)
				0
10	18	ND		5
14	18	ND	068F*	10
17	18	534	069F*	15
53	18	70	070F*	20
26	18	10		25



DARK YELLOWISH BROWN SILTY SAND (SM) (10YR 4/6): medium dense, dry, very fine- to fine-grained, 20% silt, trace of roots.

LIGHT YELLOWISH BROWN SAND (SP) (10YR 6/4): medium dense, moist, very fine- to fine-grained.

@ 15 feet: Strong petroleum odor.

@ 20 feet: Strong petroleum odor.

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Log of Boring SB-4110-05
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

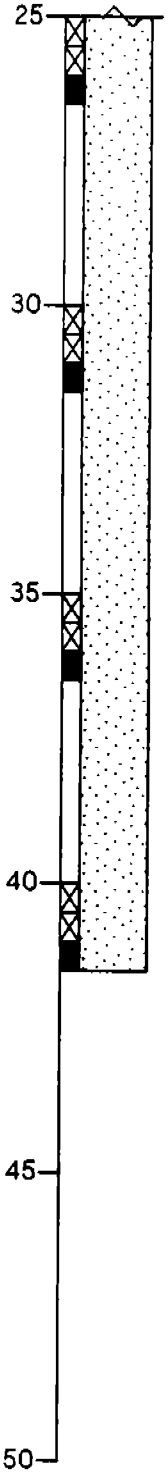
PLATE
C6

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl **Date** 10-28-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number	Depth (ft.)	
			9343C411	25	@ 25 feet: Becoming fine to medium with coarse lenses.
37	18	14		30	@ 31 feet: Becoming medium to coarse, dense.
38	18	19		35	@ 35 feet: Light yellowish brown sand (10YR 6/6), dense, fine to medium sand.
36	18	17		40	@ 40 feet: Becoming medium to coarse.
				45	
				50	



Bottom of boring at 41.5 feet. No Groundwater Encountered

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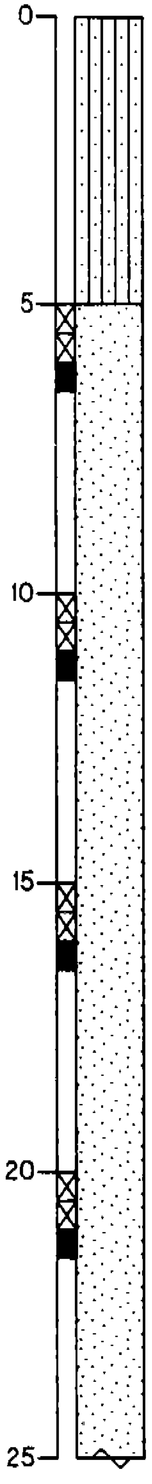
Log of Boring SB-4110-05
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE **C6**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JZ	1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 260 ft. msl **Date** 10-29-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)	
				0	BROWN SILTY SAND (SM) (10YR 4/3): loose, dry, very fine-grained, 40% silt, trace of roots.
8	18	3		5	LIGHT YELLOWISH BROWN SAND (SP) (10YR 6/4): loose, moist, very fine to fine.
18	18	34		10	@ 10 feet: Becoming medium dense.
44	18	792	077F*	15	@ 15 feet: Very strong petroleum odor.
31	18	76	078F*	20	@ 20 feet: Fine to medium, becoming dense.
25	18	64		25	



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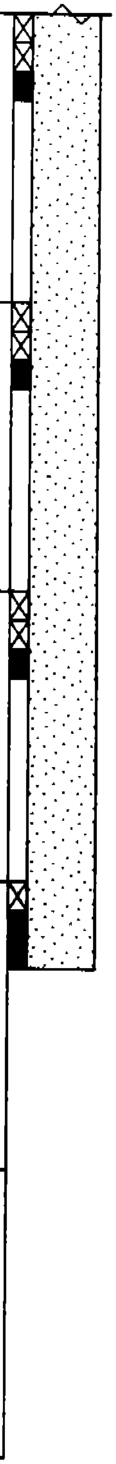
Log of Boring SB-4110-08
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE
C7

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 260 ft. msl **Date** 10-29-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)	
				25	@ 25 feet: Color change to yellowish brown (10YR 5/6), becoming medium dense, moderate petroleum odor.
29	18	4		30	@ 30 feet. Becoming very fine to fine.
35	18	18		35	
40	18	14	082E* 082F*	40	@ 40 feet: Becoming fine to medium.
					Bottom of boring at 41.5 feet. No Groundwater Encountered
				45	
				50	



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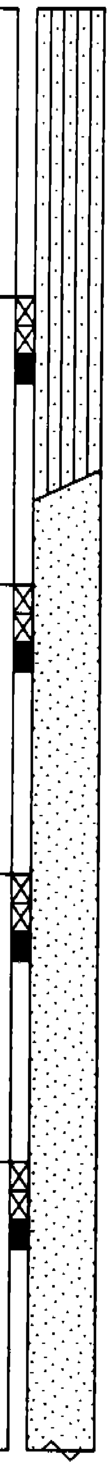
Log of Boring SB-4110-08
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE
C7

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 260 ft. msl
Date 10-29-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)
				0
9	18	2		5
16	18	2		10
14	18	2		15
25	18	2		20
21	18	117	087F*	25



YELLOWISH BROWN SILTY SAND (SM) (10YR 5/6): loose, moist, very fine- to medium-grained, 15-20% silt.

LIGHT YELLOWISH BROWN SAND (SP) (10YR 6/4): medium dense, moist, very fine- to fine-grained.

@ 20 feet: Color change to yellowish brown (10YR 5/6).

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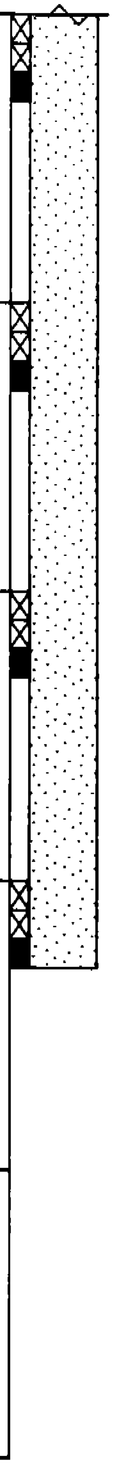
PLATE
C8

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 260 ft. msl **Date** 10-29-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9343C411	Depth (ft.)	
				25	@ 25 feet: Becoming dense, fine to coarse lenses.
35	18	196	088F*	30	@ 30 feet: Becoming medium to coarse.
39	18	14		35	@ 35 feet: Becoming very fine to fine.
35	18	3	090F*	40	
				45	
				50	



Bottom of boring at 41.5 feet. No Groundwater Encountered

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Log of Boring SB-4110-07
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

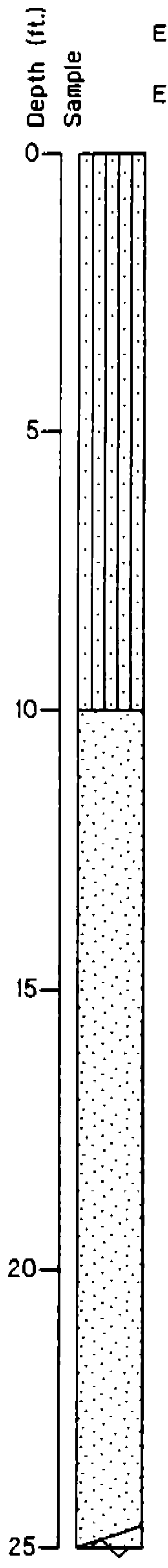
PLATE
C8

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ________ **Date** 12-13-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z411



VERY DARK GRAYISH BROWN SILTY SAND (SM) (10YR 3/2): medium sand, fill

LIGHT YELLOWISH BROWN SAND (SP) (10YR 6/4): loose, fine to medium sand, fill

@ 18 feet: light brown to brown

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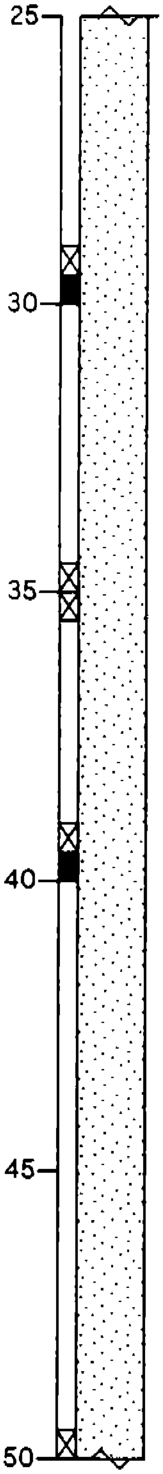
Former Fort Ord, California

PLATE
C9

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter
Elevation ____________ Date 12-13-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z411	Depth (ft.)	
				25	
35	12	ND	009F	30	LIGHT YELLOWISH BROWN SAND (SP) (10YR 6/4): medium dense, dry, fine to medium sand, slight staining
31	12	ND		35	@ 35 feet: light yellowish brown to light brown (8.75YR 6/4), medium dense, no staining
32	12	3.2	010F	40	@ 39 feet: as above
				45	
				50	@ 49.5 feet: as above



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Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

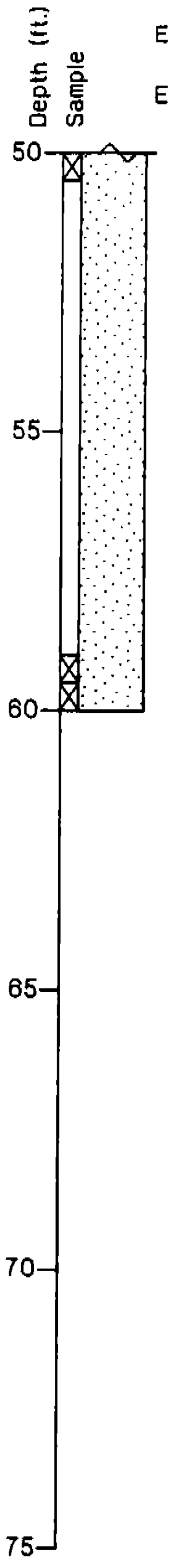
PLATE
C9

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JJ	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ Date 12-13-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number	Depth (ft.)
			9450Z411	50
36	6	ND		
38	12	ND		59–60



@ 59 feet: light brown (7.5YR 6/4), medium sand

Bottom of boring at 60 feet. Boring backfilled with bentonite cement grout (12/14/94). No groundwater encountered.

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Former Fort Ord, California

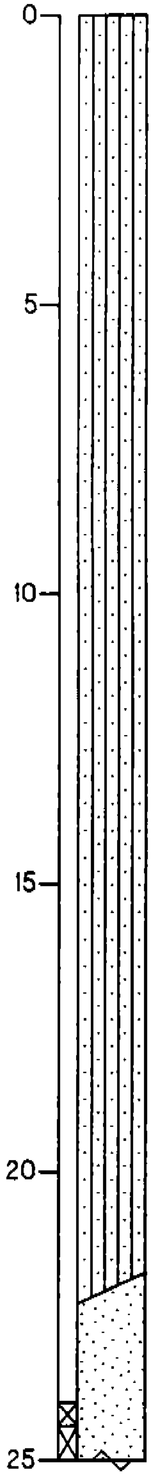
PLATE
C9

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23387 02671	JJ	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ Date 12-14-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number
			9450Z411
32	12	ND	



BROWN SILTY SAND (SM): loose, dry, medium sand, fill

@ 20 feet: as above

LIGHT BROWN TO BROWN SAND (SP) (7.5YR 5.5/4): medium dense, dry, fine to medium sand

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Log of Boring SB-4110-09
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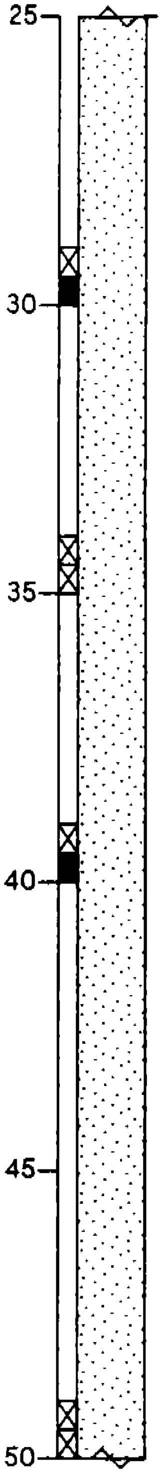
PLATE
C10

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JT	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______________ Date 12-14-94



Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z411	
30	6	ND	011F	@ 30 feet: light brown (7.5YR 6/4), medium sand
30	12	ND		@ 34 feet: as above
30	12	ND	012F	@ 40 feet: fine to medium sand
30	12	ND		@ 49 feet: medium sand, trace silt

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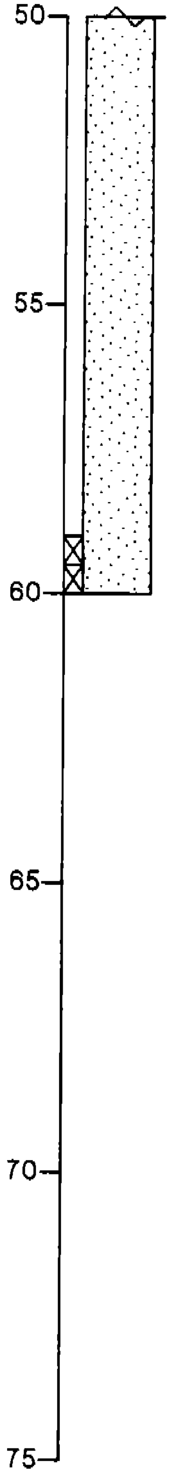
PLATE
C10

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter
Elevation ______ Date 12-14-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number
			9450Z411
30	12	ND	



@ 59 feet: fine to medium sand

Bottom of boring at 60 feet. Boring backfilled with bentonite cement grout (12/15/94). No groundwater encountered.

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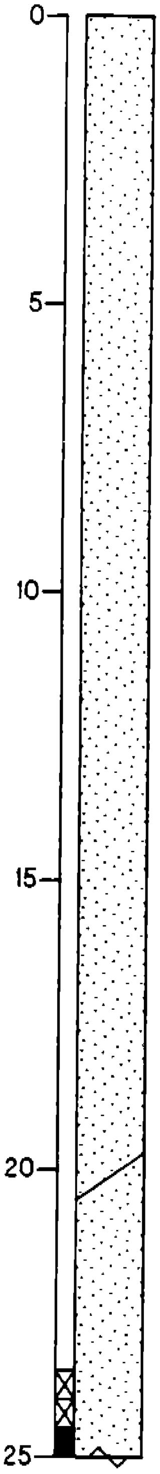
PLATE
C10

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JT	2/95	6/96

Equipment CME 75 Hollow Stem Auger
7" diameter

Elevation ______ Date 1-27-95

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9501Z411	Depth (ft.)
28	18	ND	062F	25



LIGHT YELLOWISH BROWN SAND (SP) (10YR 6/4): loose, dry, fine to medium sand, fill

@ 15 feet: loose to medium dense

BROWN SAND (SP) (7.5YR 5/4): medium dense

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Log of Boring SB-4110-10
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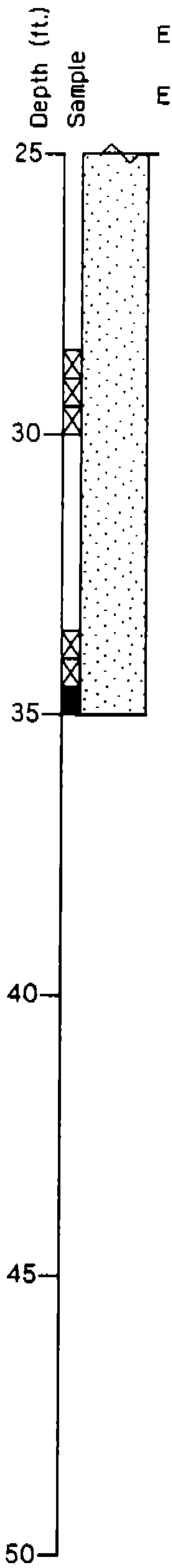
PLATE
C11

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 75 Hollow Stem Auger
7" diameter

Elevation ______ **Date** 1-27-95

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9501Z411	Description
28	18	ND		@ 29 feet: light brown to brown (7.5YR 5.5/4), medium sand
23	18	ND	063F	@ 34 feet: as above



Bottom of boring at 35 feet. Boring backfilled with bentonite cement grout (1/27/95). No groundwater encountered.

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Log of Boring SB-4110-10
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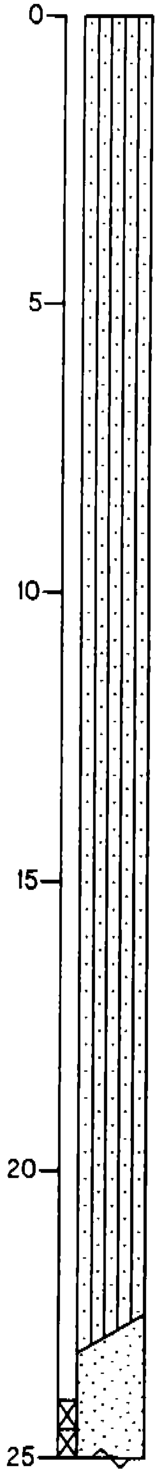
PLATE
C11

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JT	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ **Date** 12-14-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z411
31	12	ND	



LIGHT YELLOWISH BROWN SILTY SAND (SM): loose, dry, medium sand, fill

@ 16 feet: as above

LIGHT BROWN SAND (SP) (7.5YR 6/4): medium dense, dry, fine to medium sand, trace silt

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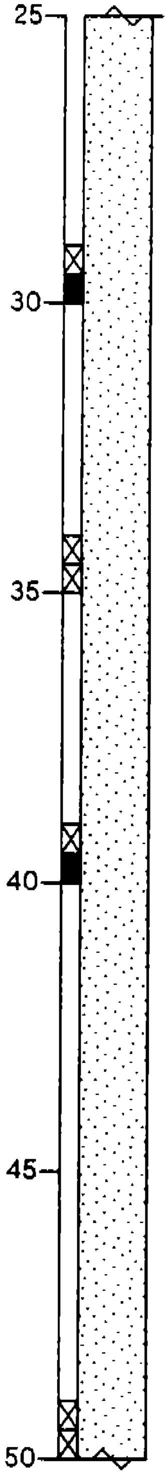
PLATE **C12**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JJ	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ Date 12-14-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z411	
41	12	ND	013F	@ 30 feet: as above
38	12	ND		@ 34 feet: as above
44	12	ND	014F	@ 40 feet: as above
33	12	ND		@ 49.5 feet: medium sand



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Former Fort Ord, California

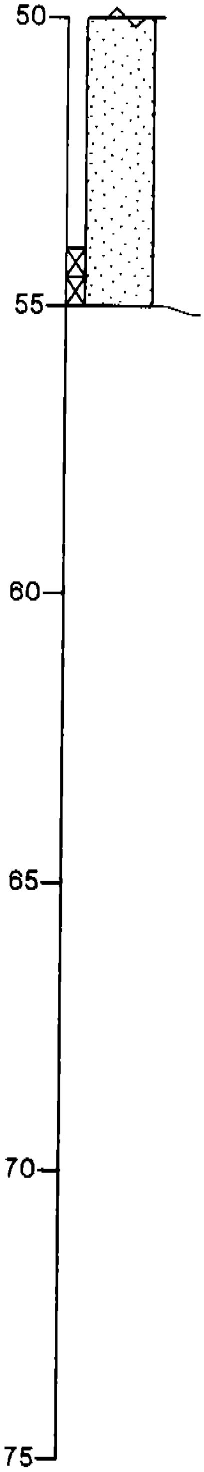
PLATE
C12

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ Date 12-14-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number	Depth (ft.)
			9450Z411	50
41	12	ND		54.5



@ 54.5 feet: as above

Bottom of boring at 55 feet. Boring backfilled with bentonite cement grout (12/14/94). No groundwater encountered.

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Former Fort Ord, California

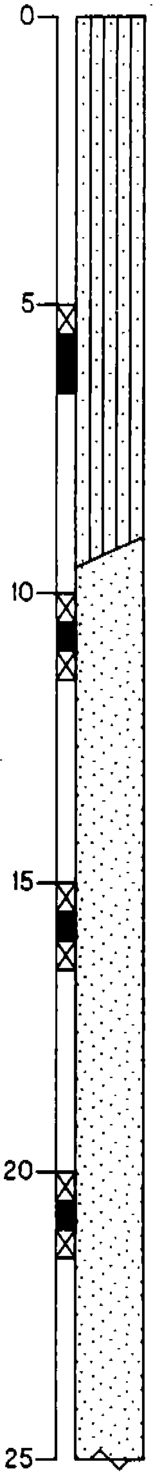
PLATE
C12

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JJ	2/95	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)	
				0	LIGHT YELLOWISH BROWN SILTY SAND WITH GRAVEL (SM) (10YR 6/4): loose, dry, fine- to medium-grained, 15% silt, 15% fine gravel.
3	18	ND	032F* 032E*	5	YELLOWISH BROWN SILTY SAND (SM) (10YR 5/4): loose, moist, very fine, 15% silt, trace of wood debris, 2mm - 3mm lenses of silty peat material.
3	18	ND		10	BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6): loose, moist, very fine-grained, 10% silt. @ 11.2 feet: Trace of thin, silty clay lense with oxidized appearance.
2	18	ND		15	@ 15 feet: Trace of irregular clear to white sand nodules, trace of root debris, 5% silt.
2	18	ND	035F*	20	@ 20 feet: Dark gray lense of clay or silt, trace of root debris.
25	18	ND		25	



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Log of Boring SB-4590-01
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

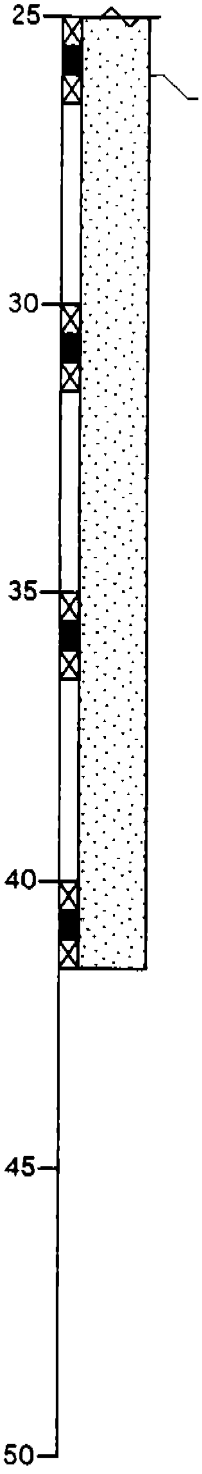
PLATE
C13

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl   Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)	
				25	@ 25 feet: 100% fine sand, color change to light yellowish brown (10YR 6/6), becoming medium dense. @ 26 feet: Very fine, color change to brownish yellow (10YR 6/6), 5% silt.
41	18	1	037F*	30	@ 30 feet: Increase in silt content to 5-10%.
35	18	ND		35	@ 35 feet: Trace of reddish brown, thin, silty sand lenses.
35	18	ND		40	



Bottom of boring at 41.5 feet. No Groundwater Encountered

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Log of Boring SB-4590-01
Site Investigation
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Former Fort Ord, California

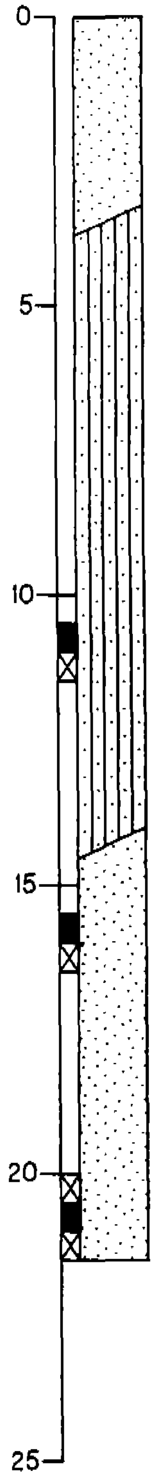
PLATE
C13

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JJ	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl **Date** 10-19-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				0
		ND		5
2	18	ND	015F*	10
12	18	ND	016F*	15
38	18	ND	017F*	20
				25



LIGHT GRAY POORLY GRADED SAND (SP) (10YR 7/2): loose, dry, very fine- to fine-grained.

DARK GRAYISH BROWN SILTY SAND (SM) (10YR 4/2): loose, moist, fine-grained, 15% silt.

@ 5 feet: Color change to yellowish brown (10YR 5/4).

@ 10 feet: Color change to brownish yellow (10YR 6/6), loose, moist, fine, 15% silt.

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6): medium dense, moist, fine, 10% silt

Bottom of boring at 21.5 feet. No Groundwater Encountered

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Log of Boring SB-4590-02
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

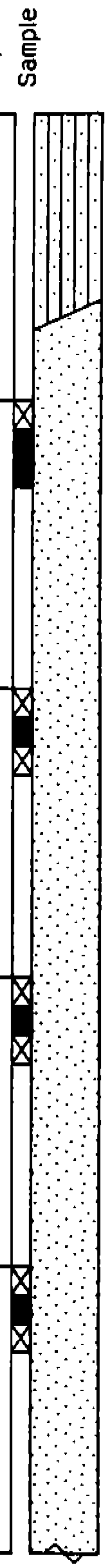
PLATE
C14

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl Date 10-19-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)	
				0	DARK BROWN SILTY SAND (SM) (10YR 4/3): loose, dry, fine- to medium-grained, 30% silt.
					BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6): loose, moist, fine-grained, 10% silt.
6	18	9	018F*	5	
24	18	ND		10	@ 10 feet: Color change to olive yellow (2.5Y 6/6), becoming medium dense, trace to 5% silt.
40	18	1.5	020F*	15	@ 15 feet: Color change to yellowish brown (10YR 5/6), becoming dense
43	18	ND		20	@ 20 feet: Color change to brownish yellow (10YR 6/6).
43	18	ND	022F*	25	



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Log of Boring SB-4590-03
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Former Fort Ord, California

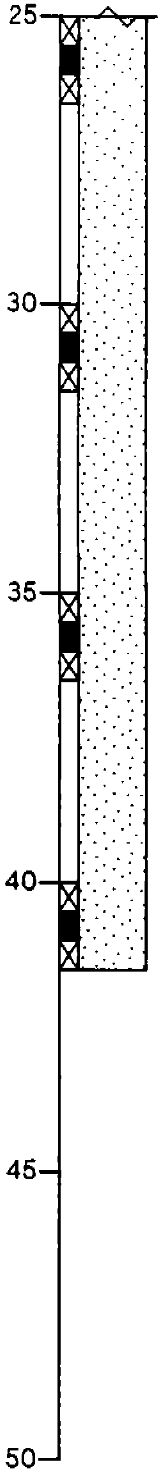
PLATE
C15

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02871		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl **Date** 10-19-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)	
				25	
52	18	ND		30	@ 30 feet: Becoming very dense.
43	18	ND		35	@ 35 feet: Becoming dense.
47	18	ND		40	



Bottom of boring at 41.5 feet. No Groundwater Encountered

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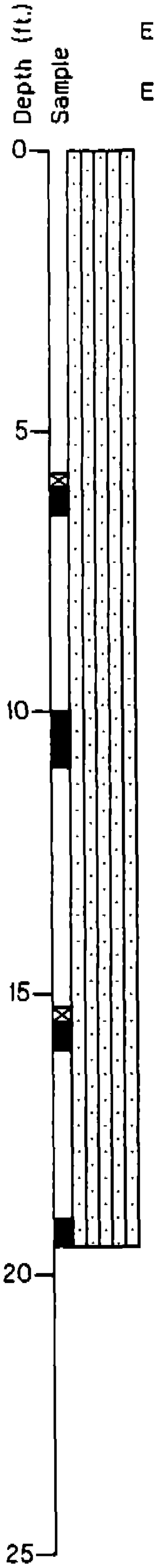
Former Fort Ord, California

PLATE
C15

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Cone Penetrometer
15" diameter
Elevation 275 ft. msl **Date** 10-12-93

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9341HCPT	Description
NA	9	NA	001*	LIGHT OLIVE BROWN SILTY SAND (SM) (2.5Y 5/6): loose, dry, fine-grained, 15% silt.
NA	10	NA	002*	@ 10 feet: Color change to pale yellow (2.5Y 7/4), increase in silt content to 40%.
NA	9	NA		@ 15 feet: Color change to yellow (10YR 7/6), very fine, becoming dense
NA	6	NA	004*	@ 18.5 feet: Becoming very dense.



Bottom of boring at 19.5 feet. No Groundwater Encountered

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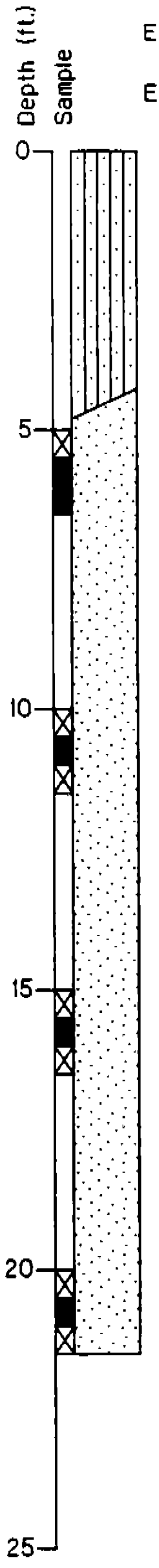
PLATE
C16

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
8	18	ND	010F*	5
22	18	ND	011F*	10
23	18	ND		15
41	18	ND	013F*	20



LIGHT BROWN SILTY SAND (SM) (2.5Y 5/4): medium dense, dry, fine-grained, 40% silt.

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6): loose, moist, fine-grained, 5-10% silt.

@ 9 feet: Encountered interbedded silty lenses with sand, color change to yellowish brown (10YR 5/8), increase in moisture content.

@ 15 feet: Lack of sand lenses.

@ 20 feet: Becoming dense.

Bottom of boring at 21.5 feet. No Groundwater Encountered

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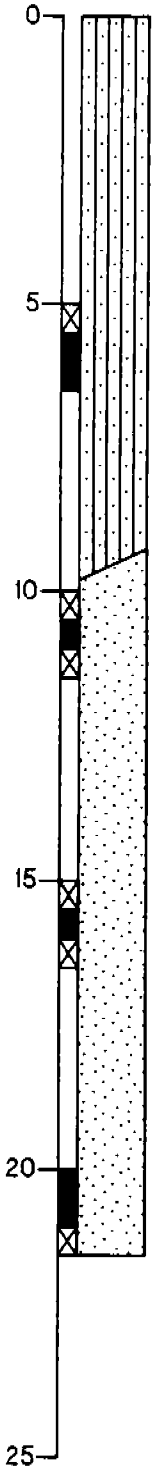
PLATE
C17

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl **Date** 10-19-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				0
17	18	ND	006F*	5
29	18	ND		10
28	18	ND	008F*	15
46	18	ND	009F*	20
				25



LIGHT OLIVE BROWN SILTY SAND (SM) (2.5Y 5/4): medium dense, dry, fine- to medium-grained, 40% silt.

@ 2 feet: Color change to light yellowish brown (2.5Y 6/4).

@ 5 feet: Color change to yellow (10YR 7/6), fine, decrease in silt content to 15%.

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6): medium dense, moist, fine, 10% silt.

@ 15 feet: Color change to yellowish brown (10YR 5/6).

@ 20 feet: Color change to brownish yellow (10YR 6/6).

Bottom of boring at 21.5 feet. No Groundwater Encountered

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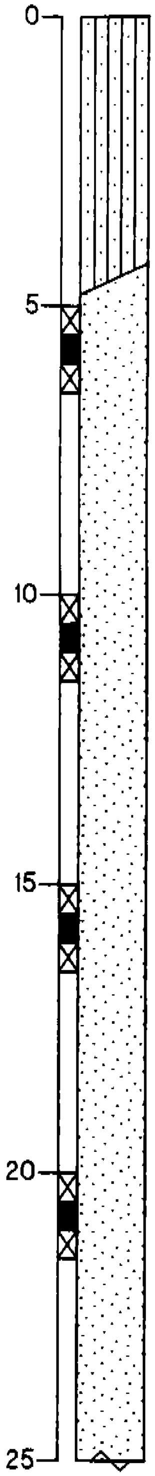
PLATE
C18

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8' diameter

Elevation 275 ft. msl **Date** 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				0
6	18	ND		5
3	18	ND		10
2	18	ND		15
8	18	ND		20
25	18	ND		25



LIGHT YELLOWISH BROWN SILTY SAND WITH GRAVEL (SM) (2.5Y 6/3). loose, dry, fine- to medium-grained, 30% silt, 15% fine subrounded gravel (fill).

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4): medium dense, moist, very fine- to fine-grained, 10% silt.

@ 15 feet: Sand with clear to white fine-grained lenses.

@ 20 feet: Color change to brownish yellow (10YR 6/6), trace of silt, lack of clear to white lenses.

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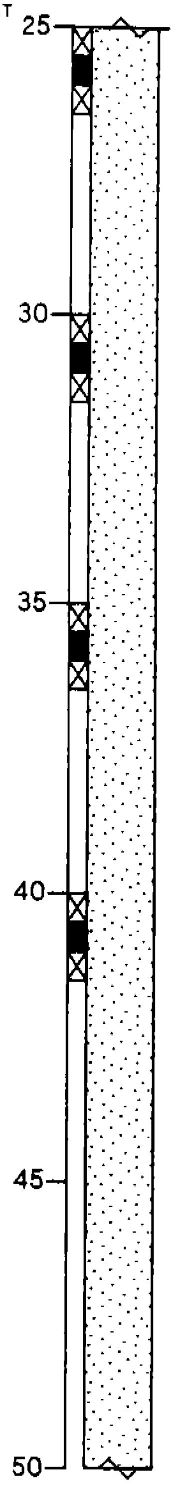
PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 275 ft. msl
Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				25
39	18	ND	026F*	30
29	18	ND	027F*	35
32	18	ND	028F*	40
				45
				50



@ 25 feet: Becoming medium dense.

@ 35 feet: Color change to olive yellow (2.5Y 6/6).

@ 40 feet: Color change to brownish yellow (10YR 6/6).

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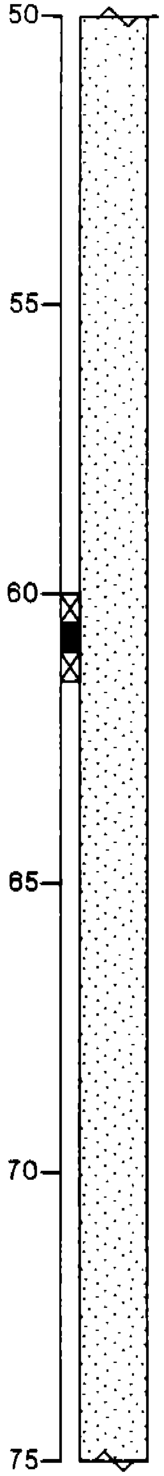
PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 275 ft. msl   Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
41	12	ND	029F*	60



@ 50 feet: Becoming very fine.

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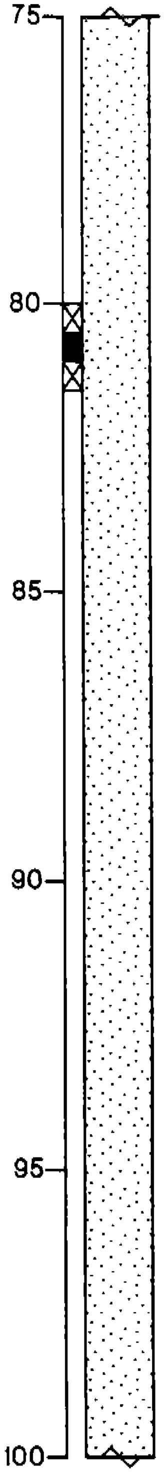
PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 275 ft. msl Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				75
46	18	ND	030F*	80
				85
				90
				95
38	12	ND	031F*	100



@ 77 feet: Encountered 1-1/2 inch diameter fractured subrounded gravel.

@ 81 feet: Color change to light yellowish brown (10YR 6/4), becoming fine.

@ 82 feet: Color change to brownish yellow (10YR 6/6), becoming very fine.

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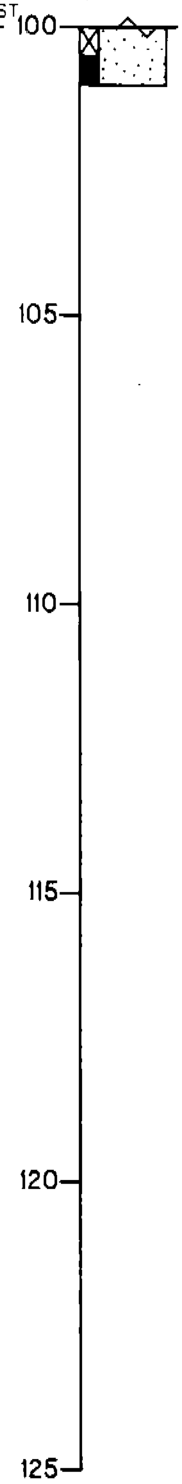
PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JJ	1/94	6/96

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number	Depth (ft.)	Sample
			9342HUST	100	

Equipment Hollow Stem Auger
8" diameter
Elevation 275 ft. msl Date 10-20-93



Bottom of boring at 101 feet. No Groundwater Encountered

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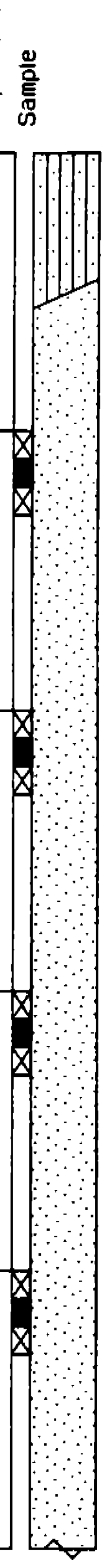
PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl **Date** 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				0
17	18	ND	040F*	5
18	18	ND		10
25	18	ND	042F*	15
43	18	ND		20
48	18	ND	044F*	25



DARK BROWN SILTY SAND (SM) (10YR 4/3): loose, dry, fine-grained, 30-35% silt, 5-10% fine gravel.

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6): medium dense, moist, very fine- to fine-grained, 10% silt

@ 5 feet: Color change to brownish yellow (10YR 6/8), becoming very fine.

@ 10 feet: Color change to brownish yellow (10YR 6/6).

@ 20 feet: Becoming dense, 90-95% very fine, 5-10% silt.

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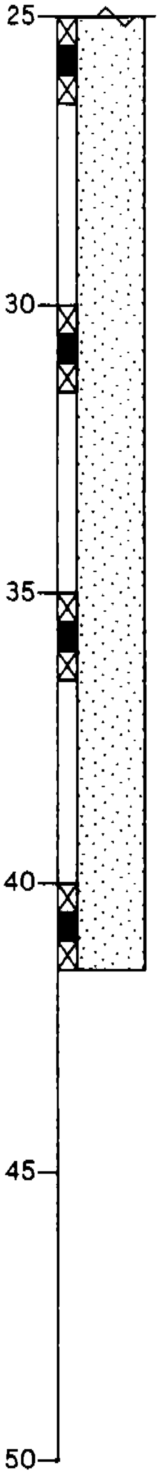
PLATE
C20

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 275 ft. msl Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				25
46	18	ND		30
45	18	ND		35
43	18	ND		40
				45
				50



@ 25 feet: color change to yellow (10YR 7/6), 100% fine.

@ 26 feet: Color change to brownish yellow (10YR 6/6), becoming very fine.

@ 31 feet: Interbedded zones of brownish yellow (10YR 6/6) very fine- grained and yellow (10YR 7/8) fine-grained, dense.

@ 40 feet: Becoming very fine, lack of interbeds.

Bottom of boring at 41.5 feet. No Groundwater Encountered

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PLATE
C20

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment CME 75 Hollow Stem Auger
7" diameter

Elevation ______ **Date** 1-27-95

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9504Z275	
11	18	33.1	064F	DARK GRAYISH BROWN SAND (SP) (7.5YR 3/1): loose, dry, fine to medium sand, trace gravel, possible staining, fill
13	18	14	065F	@ 8.5 feet: as above
5	14	9.2		@ 14 feet: black (7.5YR 2.5/1), very loose, heavily stained, strong petroleum odor
6	12	8.3	066F	@ 19 feet: dark grayish brown (7.5YR 3/1), stained, strong petroleum odor
11	16	4.2		@ 24 feet: grayish brown (7.5YR 6/1), loose, medium sand, light staining, strong petroleum odor

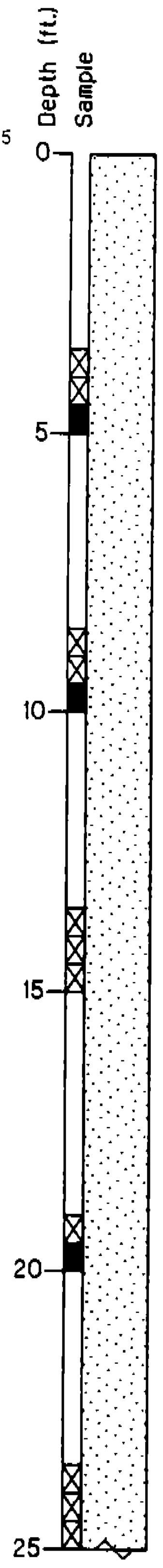

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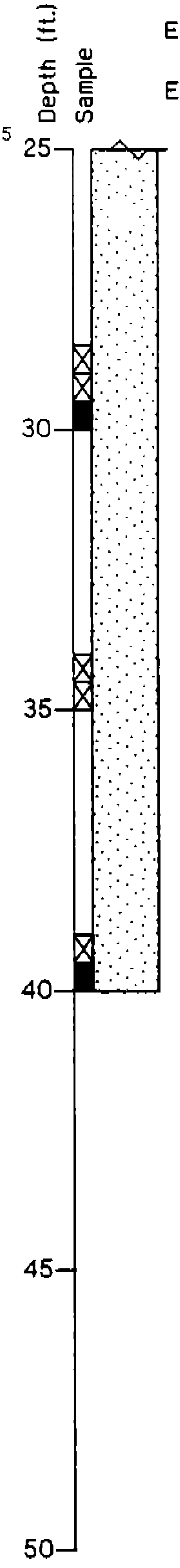
PLATE
C21

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	J7	2/95	6/96

Equipment CME 75 Hollow Stem Auger
7" diameter

Elevation ______ Date 1-27-95

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9504Z275
24	18	2.4	067F
30		6.1	
24		12	068F



@ 28.5 feet: light grayish brown (7.5YR 6/1), medium dense, trace odor, no staining

@ 34 feet: medium dense, fine to medium sand, slight odor and staining

@ 39 feet: as above

Bottom of boring at 40 feet. Boring backfilled with with bentonite cement grout (1/27/95). No groundwater encountered.

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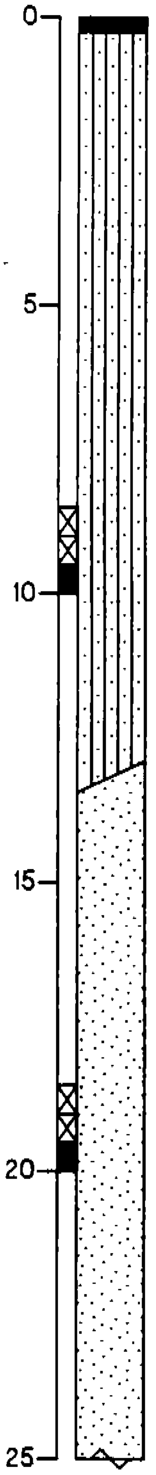
PLATE
C21

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ Date 12-22-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9451Z275	Depth (ft.)
		0.6		
23	18	5.2	034F	10
20	18	8.3	035F	20



ASPHALT

BROWN SILTY SAND (SM) (7.5YR 5/2): loose, dry, fine to medium sand, slight petroleum odor

@ 9 feet: medium dense, petroleum staining and odor

BLACKISH BROWN TO VERY DARK BROWN SAND (SP) (7.5YR 2.5/3): medium dense, dry, fine to medium sand, trace silt, moderate to heavy petroleum odor and staining

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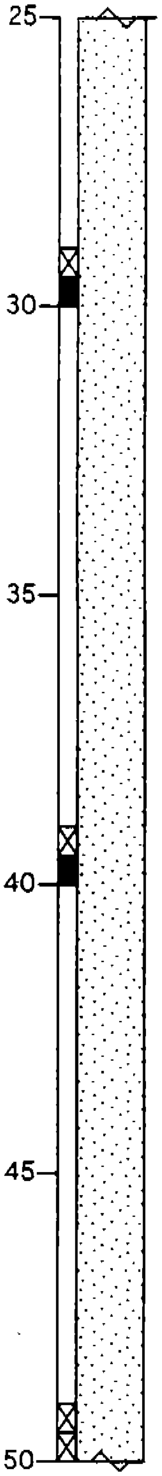
PLATE
C22

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ Date 12-22-94



Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9451Z275	Depth (ft.)	Description
				25	
17	12	1 3	036F	30	@ 29 feet: dark grayish brown (10YR 4/2), trace petroleum odor and staining
				35	
31	12	ND	037F	40	@ 39 feet: brown (7.5YR 4/2), no petroleum odor, slight staining
				45	
39	12	ND		50	@ 49 feet: light brown (7.5YR 6/4), predominantly medium sand, trace staining

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PLATE
C22

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JT	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ **Date** 12-22-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number	Depth (ft.)	Description
			9451Z275	50	
39	12	ND		59	@ 59 feet: light brown (7.5YR 6/3), fine to medium sand, no staining
				60	*Bottom of boring at 60 feet. Boring backfilled with bentonite cement grout (12/23/94).* No groundwater encountered.

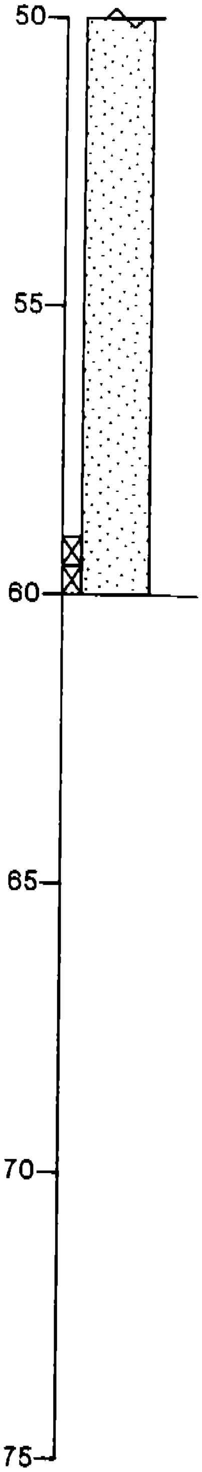

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PLATE
C22

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ **Date** 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z275	Depth (ft.)	Description
				0	ASPHALT
					BROWN SILTY SAND (SM) (7.5YR 5/3): loose, dry, medium sand
				5	
				10	
					LIGHT BROWN SAND (SP) (7.5YR 6/3): loose, dry, fine to medium sand, trace silt, trace rootholes, slight petroleum odor, staining
		ND		15	
				20	
					@ 24 feet: light brown to brown (7.5YR 5.5/3), medium dense
31	12	7.2	022F	25	

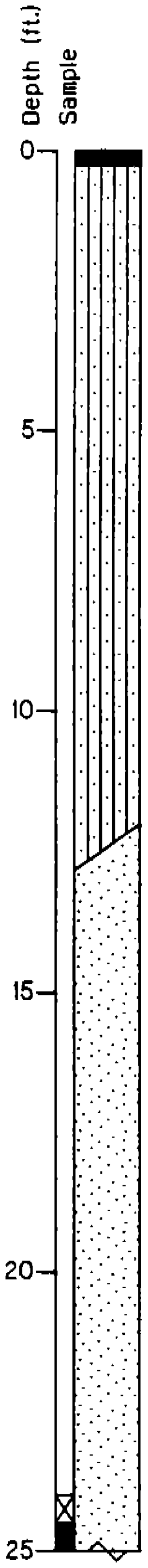

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PLATE
C23

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______________ **Date** 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z275	
36	12	5		@ 29 feet: as above
35	12	6.2	023F	@ 34 feet: slight petroleum odor, greenish staining
35	12	ND		@ 39 feet: as above
31	12	ND	024F	@ 49 feet: medium sand, no odor or staining

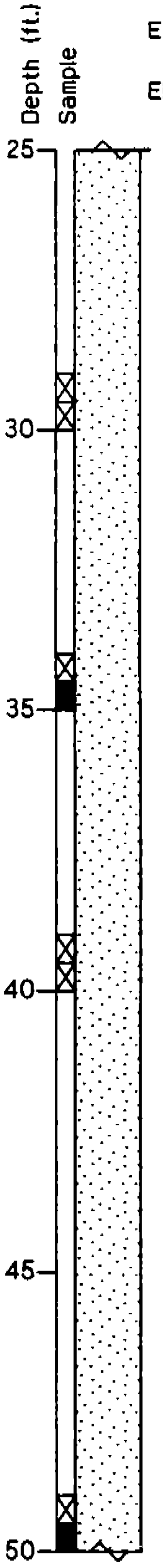

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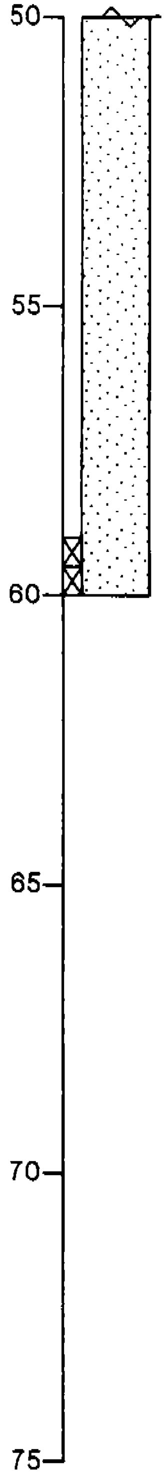
PLATE
C23

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ Date 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number
			9450Z275
32	12	ND	



@ 59 feet: as above

Bottom of boring at 60 feet. Boring backfilled with bentonite cement grout (12/16/94). No groundwater encountered.

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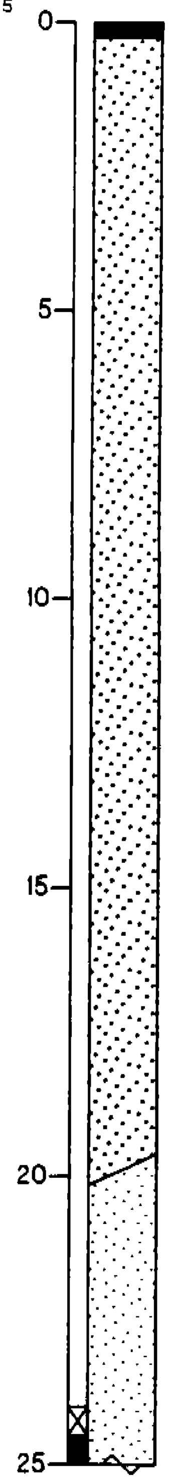
C23

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JJ	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ Date 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z275	Depth (ft.)
30	12	8.2	019F	25



ASPHALT

BROWN SAND (SW) (7.5YR 5/3): loose, dry, medium sand

@ 15 feet: light yellowish brown (10YR 6/4), fine to medium sand

DARK BROWN SAND (SP) (7.5YR 3/2): medium dense, dry, medium sand, trace silt, strong petroleum odor and staining

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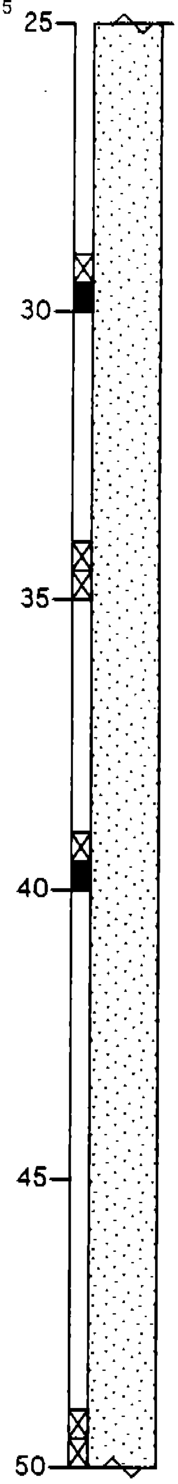
C24

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JT	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ **Date** 12-16-94



Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z275	Depth (ft.)	
32	12	5.1	020F	30	@ 29 feet: as above
29	12	1.1		35	@ 34 feet: brown (7.5YR 5/2), fine to medium sand, slight odor and staining
41	12	ND	021F	40	@ 39 feet: as above
32	12	ND		50	@ 49 feet: light brown (7.5YR 6/3), loose to dense, medium sand, trace silt, no odor or staining

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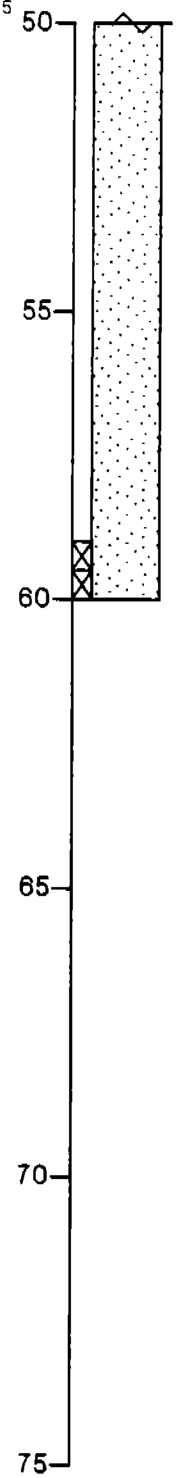
PLATE
C24

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ Date 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number	Depth (ft.)
			9450Z275	50
30	12	ND		59



@ 59 feet: as above

Bottom of boring at 60 feet. Boring backfilled with bentonite cement grout (12/16/94). No groundwater encountered.

FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-2754-04
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE
C24

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

APPENDIX D

APPENDIX D

UST SITE CLOSURE LETTERS

MONTEREY COUNTY

1850

DEPARTMENT OF HEALTH ROBERT J. MELTON, M.D., M.P.H., Director

FAMILY AND COMMUNITY HEALTH ENVIRONMENTAL HEALTH HEALTH PROMOTION
MENTAL HEALTH ALCOHOL AND DRUG PROGRAMS EMERGENCY MEDICAL SERVICES

☑ 1270 NATIVIDAD ROAD SALINAS, CALIFORNIA 93906-3198 (408) 755-4500
☐ 1200 AGUAJITO ROAD, MONTEREY, CALIFORNIA 93940-4898 (408) 647-7680
☐ 1150 BROADWAY, KING CITY, CALIFORNIA 93930 (408) 385-6350
☐ 1286 OLYMPIA AVENUE, SEASIDE, CALIFORNIA 93955 (408) 899-5100
☐ 1000 S. MAIN ST., #300, SALINAS, CALIFORNIA 93901 (408) 755-6450

PLEASE REPLY TO ADDRESS CHECKED

June 1, 1995/Received

March 3, 1995

Mr. James M. Willison, Director
Environmental and Natural Resources Management
DLIFLC & POM
ATTN: ATZP-EP
Presideo of Monterey, California, 93944-5006

Subject: Underground Storage Tank Closure

Dear Mr. Willison:

This department has reviewed all data related to the closure of the following underground storage tanks and have determine that no further action is required:

BUILDING	TANKS
4107	750 GALLON
3016 A	3000 GALLON
4493	5- 20,000 GALLON
4534	550 GALLON
4590	3000 GALLON
1697	2-550 GALLON
4518	550 GALLON
1483	550 GALLON

If you have any questions regarding this matter, please contact this office.

Sincerely,

Walter Wong, MPH, REHS
Director of Environmental Health

Jon Jennings

Jon Jennings, REHS
Chief, Hazardous Materials/Solid
Waste Management Branch

cc: Mamerto Jorvina, Hazardous Materials Specialist

MONTEREY COUNTY

DEPARTMENT OF HEALTH ROBERT J. MELTON, M.D., M.P.H., Director

FAMILY AND COMMUNITY HEALTH ENVIRONMENTAL HEALTH HEALTH PROMOTION
MENTAL HEALTH ALCOHOL AND DRUG PROGRAMS EMERGENCY MEDICAL SERVICES

☐ 1270 NATIVIDAD ROAD, SALINAS, CALIFORNIA 93906-3198 (408) 755-4500
☐ 1200 AGUAJITO ROAD, MONTEREY, CALIFORNIA 93940-4998 (408) 647-7650
☐ 1180 BROADWAY, KING CITY, CALIFORNIA 93930 (408) 385-8350

PLEASE REPLY TO ADDRESS CHECKED

August 22, 1996

Mr. James M. Willison
Director, Environmental Natural Resources Management
DLIFLC & POM
ATTN: ATZP-EP
Presidio of Monterey, CA 93944-5006

RE: Underground Storage Tank Closure

Dear Mr. Willison:

This department has received all data related to the closure of the following underground storage tanks and have determined that no further action is required.

TANK	SIZE AND CONTENTS
550A.1	285 gal - gasoline
1483.1	2,500 gal - gasoline
1685.1	unknown - diesel
1685.2	unknown - diesel
1685.3	unknown - diesel
1697.1	1,000 gal - diesel
2253.1	12,000 gal - diesel
2754.1	1,000 gal - gasoline
3803.1	1,500 gal - unknown
3803.2	1,500 gal - unknown
3803.3	5,000 gal - unknown
4493.3	20,000 gal - diesel
4518.2	550 gal - diesel
4534.1	550 gal - waste oil

If you have any questions regarding this matter, please feel free to contact this office.

Walter Wong

Walter Wong, M.P.H., R.E.H.S.
Director of Environmental Health

cc: Mamerto Jorvina, Hazardous Materials Specialist II

MONTEREY COUNTY

DEPARTMENT OF HEALTH ROBERT J. MELTON, M.D., M.P.H., Director

1850

FAMILY & COMMUNITY HEALTH ENVIRONMENTAL HEALTH HEALTH PROMOTION

BEHAVIORAL HEALTH EMERGENCY MEDICAL SERVICES

☐ 1270 NATIVIDAD ROAD, SALINAS, CALIFORNIA 93906-3198 (408) 755-4500
☐ 1200 AGUAJITO ROAD, MONTEREY, CALIFORNIA 93940-4896 (408) 647-7650
☐ 1160 BROADWAY, KING CITY, CALIFORNIA 93930 (408) 385-8330

PLEASE REPLY TO ADDRESS CHECKED

January 6, 1997

Commander, DLIFLC & POM
ATTN: ATZP-EP, Melissa Hlebasko
Presidio of Monterey, CA 93944-5006

RE: Underground Storage Tank Closure at Presidio of Monterey Annex

Dear Ms. Hlebasko:

Based on reports received by this office, it has been determined that no significant soil contamination was present at the following locations. Also, all required documentation has been received pertaining to the tank closures. These sites should now be properly closed, including backfilling as necessary with clean soil.

TANK #	CONTENTS	SIZE (gal)
139.1	Gasoline	Unk.
501.1	JP-4	10,000
501.2	JP-4	10,000
501.3	JP-4	10,000
501.4	JP-4	10,000
503.1	JP-4	25,000
503.2	JP-4	25,000
503.3	JP-4	25,000
503.4	JP-4	25,000
513.1	Waste Oil	550
519.1	Gasoline	275
521.2	Waste Oil	100
527.1	Diesel	5,000
542.1	Diesel	400
550.1	Gasoline	285
550C.1	Gasoline	560
812.1	Diesel	550
1482.1	Waste Oil	550
1489.3	Waste Oil	280
1492.1	Waste Oil	550
1495.2	Waste Oil	550

Hooray

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL # of pages ▶ 1

To ~~[illegible]~~ TOM
From Melissa
Phone #

TANK #	CONTENTS	SIZE (gal)
1495.3	Waste Oil	280
1497.1	Diesel	12,000
1497.2	Diesel	25,000
1497.3	Diesel	25,000
1497.4	Gasoline	25,000
1497.5	Gasoline	25,000
1670.1	Gasoline	12,000
1670.2	Diesel	12,000
1680.1	Waste Oil	1,000
2037.1	Diesel	12,000
2037.2	Gasoline	12,000
2039.1	Diesel	12,000
2039.2	Gasoline	12,000
2040.1	Diesel	12,000
2040.2	Diesel	12,000
2041.1	Diesel	12,000
2042.2	Gasoline	12,000
2070.1	Diesel	Unk
4110.1	Gasoline	500
4362.1	Diesel	4,000
4362.2	Unk	1,500
4385.1	Diesel	10,000
4538.2	Waste Oil	550
4543.1	Waste Oil	550
4544.2	Waste Oil	550
4545.1	Diesel	20,000
4545.3	Gasoline	20,000
4547.1	Waste Oil	550
4548.3	Waste Oil	280
4855.1	Waste Oil	550
4885.1	Diesel	550
4885.2	Waste Oil	550

Please be advised that this letter does not relieve you of any responsibilities mandated by the California Health and Safety Code if additional or previously unidentified contamination is discovered at this location.

If you have any questions regarding this matter, please contact this office.

Walter Wong

Walter Wong, M.P.H., R.E.H.S.
Director, Environmental Health Division

WW/MJ:jp

cc: Howard Tsuchiya, Hazardous Materials Specialist IV
File

Cal/EPA

Central Coast Regional Water Quality Control Board

81 Higuera Street
Suite 200
San Luis Obispo, CA
93401-5427
(805) 549-3147
FAX (805) 543-0397

Pete Wilson
Governor

February 10, 1997

Bill Kilgore
Department of Toxic Substances Control, Region 1
10151 Croydon Way, Suite 3
Sacramento, CA 95827

Dear Mr. Kilgore:

DoD - FORMER FORT ORD; UNDERGROUND TANK (UST) CASE CLOSURE; DRAFT SITE INVESTIGATION REPORT BUILDINGS 4107, 4110, AND 4590 AND FACILITY 2754, FORMER FORT ORD, CALIFORNIA

Site investigations and remedial actions were conducted at the subject underground storage tank sites. The Monterey County Department of Health has previously granted closure for underground storage tanks located near Buildings 4107, 4110, and 4590 and Facility 2754. This letter is in response to a closure request for the UST at Building 4110. The closure request was based on the following findings:

1. Most of the contaminated soil has been removed. Considerable effort would be required to excavate the remaining impacted soil since this soil is greater than 25 feet below ground surface.
2. Petroleum hydrocarbons in the diesel range has relatively low solubility and mobility.
3. Depth to ground water is estimated to be 200 feet below ground surface.
4. Ground water modeling results indicate insignificant threat exists at this site.

Based on the information provided to the Regional Board and with the provision that the information accurately represents site conditions, no further action related to the underground storage tank 4110.1 is required. Due to regulation procedures, this notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e).

Please note the above notice only applies to tank 4110.1. If other soil and water contamination sources exist (such as pipelines) which have not been adequately remediated, separate case closure approval is required.

Additionally, the subject report listed Chromium III's Preliminary Remediation Goal (PRG) for soil as 67,000 mg/kg. We believe the current PRG for Chromium III is significantly lower. The Chromium III PRG of 67,000 mg/kg should be checked against current PRG for accuracy.

If you have any questions regarding this letter, please call **Grant Himebaugh** of my staff at (805) 542-4636.

Sincerely,

For: Roger W. Briggs
Executive Officer

c: Ms. Lida Tan
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105

Jon Jennings
Monterey County Health
1270 Natividad Road
Monterey, CA 93906-3198

✓Thomas Williams
Harding Lawson Associates
P.O. Box 6107
Novato, CA 94948

Cmdr, DLIFLC & POM
Attn: ATZP-EP
(Ms. Gail Youngblood)
Presidio of Monterey, CA 93944-5006

y:\SMU\grant\ust4110.doc
GH/sc

APPENDIX E

APPENDIX E

VADOSE ZONE LEACHING (VLEACH) AND GROUNDWATER MIXING MODELS, BUILDING 4110

APPENDIX E

CONTENTS

TABLES

POTENTIAL GROUNDWATER IMPACTS

This appendix describes the results of an evaluation of the potential groundwater impacts from selected chemicals detected in soil at Former UST 4110.1. It includes the results of the vadose zone leaching (VLEACH) and groundwater mixing models, which were used to simulate the potential transport of organic chemicals through the unsaturated zone to the uppermost aquifer.

E1.0 SITE-SPECIFIC APPLICATION OF THE VLEACH MODEL

The VLEACH and groundwater mixing models were used to simulate the potential movement from soil to groundwater of organic compounds detected in soil samples at Former UST 4110.1. The VLEACH model was used to estimate the movement of chemicals from areas where they were detected, through the soil column, to the depth of the water table. The groundwater mixing model then used the output from VLEACH to estimate chemical concentrations in groundwater. A more complete description of the VLEACH and groundwater mixing models, the rationale for using the models, and default and basewide parameters used in the model are described in HLA's Technical Memorandum: Approach to Evaluating Potential Groundwater Quality Impacts (*HLA, 1993e*). Site-specific information was used in the simulation where available. When site-specific data were not available, input parameters were selected on the basis of criteria outlined in the groundwater technical memorandum. Descriptions of site-specific model inputs and rationale for their use are provided below and in Table E1.

E1.1 Site-Specific Inputs

Chemicals Selected for Modeling: The chemicals or groups of chemicals selected for modeling include: TPH as gasoline and diesel (TPHg and TPHd), toluene, ethylbenzene, and xylene. As discussed in the groundwater technical memorandum, three surrogate compounds are selected for use when modeling TPHd. The surrogate compounds and the concentrations that were used for Building 4110, based on the weight fraction of these compounds in used motor oil, are listed in Table E2. Also listed in Table E2, but not discussed in the groundwater technical memorandum, are the weight fractions of benzene and hexane used to represent aromatic and aliphatic constituents of TPHg. These weight fractions were taken from the *Leaking Underground Fuel Tank Field Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure*, subsequently referred to as the LUFT Manual (*SWRCB, 1989*). It should be noted that these percentages account only for the weight fraction of benzene and hexane and not all aromatics and aliphatics in typical gasoline. Both benzene and hexane were modeled with a weight fraction of 3.5 percent. Using this weight fraction is not as conservative as assuming each compound represents all aromatics or aliphatics; however, it is considered conservative enough to approximate the potential impact to groundwater from these specific compounds.

Approximate Depth to Groundwater: Because no wells are located at Building 4110, the approximate depth to groundwater of 200 feet was based on the elevation of groundwater at Site 33. Site 33 includes the Fort Ord Golf Course area, and three wells are screened across the water table in the same hydrostratigraphic unit as what is believed to underlie Building 4110.

Layer Thickness: A layer thickness of 5 feet was selected because sampling generally occurred at 5-foot intervals. The layer is considered to represent the conditions between sampling points.

Number of Layers: Forty layers were used to represent the distance between the ground surface and the water table, based on the depth to groundwater and the thickness of each layer (40 layers by 5 feet/layer = 200 feet).

Location of Contaminant Mass: Although the maximum concentrations of each compound modeled with VLEACH were detected at a depth of 26 feet bgs, the maximum depth at which any one compound was detected was

41 feet bgs. The contaminant mass was therefore placed in the eighth cell (at 41 feet bgs), to conservatively reflect the location of contaminant mass relative to the water table.

Aquifer Selected for Modeling: The Paso Robles Aquifer was selected for modeling because it is the uppermost (i.e., shallowest) aquifer at Building 4110.

Saturated Thickness: A saturated thickness of 10 feet was selected as a conservative assumption, because so few hydrostratigraphic data exist at Building 4110. A thinner saturated thickness results in less dilution and yields higher groundwater concentrations.

Site-Specific Hydraulic Gradient: A hydraulic gradient of 0.0033 ft/ft was selected on the basis of March 1995 water-level data from Site 33. This gradient represents the nearest wells screened across the water table in the Paso Robles Aquifer and should be considered approximate. The gradient directly beneath Building 4110 may differ from this estimate. A smaller gradient is more conservative because it will allow for less dilution and thus yield higher groundwater concentrations.

Uppermost Aquifer Hydraulic Conductivity: A hydraulic conductivity of 2,780 ft/year was selected based on HLA's Draft Final Basewide Hydrogeologic Characterization (*HLA, 1994f*).

E1.2 Results of VLEACH and Groundwater Mixing Model Simulation

Table E3 is a summary of the VLEACH modeling results. Tables E4 through E11 are the individual results for the VLEACH modeling. Of the organic compounds simulated with the VLEACH and groundwater mixing models, benzene, hexane, and dodecane were found to impact groundwater within the 100 years simulated. Results of modeling suggest that the maximum concentration of dodecane would not exceed 0.01 μg/L. On the basis of limitations associated with the VLEACH and groundwater mixing models, this concentration is not considered to represent an impact to groundwater quality.

Benzene concentrations in groundwater beneath Building 4110 are expected to reach the federal and state maximum contaminant level (MCL) of 1 μg/L in 66 years. Concentrations are predicted to reach 16.8 μg/L in 100 years. Because benzene was not detected in any samples collected after removal of impacted soil at Building 4110, and because of the limitations associated with the VLEACH and groundwater mixing models (i.e., aqueous dispersion and in-situ degredation are not considered), the 100-year concentration is not anticipated to represent a significant impact to groundwater.

Hexane was used to model the aliphatic portion of the detected TPHg, using the 3.5 percent weight fraction listed in the LUFT Manual. Results of the simulation indicate that hexane would reach the water table at concentrations above 1 μg/L in 97 years and at a concentration of 1.19 μg/L in 100 years. This 100-year concentration is probably conservative based on the previously mentioned model limitations and not considered to present a significant potential impact to groundwater quality.

Table E1. VLEACH Input Parameters, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Chemical	Organic carbon - water partition coefficient, K_{oc} (ml/g)	Henry's Law Coefficient, K_h (dimensionless)	Aqueous Solubility (mg/l)	Free air diffusion coefficient (sq. m/day)	Maximum chemical concentration in cell (μg/kg)	Sample location associated with maximum concentration	Depth of max. conc. in feet below ground surface	Reaches Groundwater in 100 years?
Benzene *	65	0.203	1750	0.804	6,650	ES-4110-15	26.0	Yes
Hexane (n) *	3,150	69.10	10.5	0.630	6,650	ES-4110-15	26.0	Yes
Dodecane **	61,000	411.32	0.0084	0.4311	840,480	ES-4110-15	26.0	Yes
Chrysene **	200,000	3.90E-05	0.002	0.444	140.25	ES-4110-15	26.0	No
Naphthalene **	940	0.017	31.7	0.708	9350	ES-4110-15	26.0	No
Ethylbenzene	1,100	0.261	153	0.610	7.4	ES-4110-15	26.0	No
Toluene	120	0.268	1550	0.717	6.1	ES-4110-15	26.0	No
Xylene (p)	238	0.286	198	0.657	35	ES-4110-15	26.0	No

Vertical cell spacing (ft.)	5
Uppermost contaminated cell	8
Lowermost contaminated cell	8
Hydraulic conductivity (ft/year)	2,780
Saturated thickness (ft.)	10
Hydraulic gradient (dimensionless)	3.30E-03
Groundwater recharge rate (ft/yr)	0.386
Concentration of chemical in recharge (mg/l)	0
Timestep (years)	1
Total length (years)	100

Number of polygons	1
Polygon area (sq. ft.)	100
Layer width (ft.)	10
Depth to groundwater (ft.) :	200
Number of vertical cells	40
Soil dry bulk density (g/cc)	1.79
Total effective porosity	0.3
Volumetric moisture content	0.1484
Fraction of Organic Carbon f_{oc} (dimensionless)	0.00195

* surrogate of TPH as Gasoline (not detected in soil)

** surrogate PAH of TPH as Diesel (not detected in soil)

Table E2. Surrogate Calculation Sheet, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

TPH as Diesel		
Chemical conc.:	850 mg/kg	
Dodecane conc.:	840.48 mg/kg	840,480.00 µg/kg
Naphthalene conc.:	9.35 mg/kg	9,350.00 µg/kg
Chrysene conc.:	0.14025 mg/kg	140.25 µg/kg
Composite sum:	849.97 mg/kg	849,970.25 µg/kg

Surrogate fractions from: *Draft Technical Memorandum: Approach to Evaluating Potential Groundwater Quality Impacts, (HLA, 1993e)*

TPH as Gasoline		
Chemical conc.:	190 mg/kg	
Benzene conc.:	6.65 mg/kg	6,650.00 µg/kg
Hexane conc.:	6.65 mg/kg	6,650.00 µg/kg
Composite sum:	13.30 mg/kg	13,300.00 µg/kg

Surrogate fractions from: *Material Safety Data Sheet # 467, Automotive Gasoline, Lead-Free, issued 10/81, revision A, 9/91*
Genium Publishing Corporation

Table E3. Summary of VLEACH Modeling Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Chemical	Source Concentration (ug/kg)	Simulated Maximum Concentration in Groundwater (ug/l)	Time of Maximum Groundwater Concentration (years)	Time of Initial Groundwater Concentration[1] (years)	Concentration After 100 Years (ug/l)
Benzene **	6,650	16.8	100	33	16.8
Hexane (n) **	6,650	1.19	100	39	1.19
Dodecane *	840,480	0.0164	100	91	0.0164
Chrysene *	140.25	0.0000	NA	NA	NA
Napthalene *	9350	0.0000	NA	NA	NA
Ethyl-Benzene	7.4	0.0000	NA	NA	NA
Toluene	6.1	0.0000	NA	NA	NA
Xylene (p)	35	0.0000	NA	NA	NA

---

[1] A detection limit of 0.01 ug/l is assumed.

NA Not applicable.

* Surrogate of TPH as Diesel (not detected in soil).

** Surrogate of TPH as Gasoline (not detected in soil).

Table E4. Benzene as Chemical Surrogate of TPH as Gasoline VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	3.00E-21	0.0000	0.0000
2	4.26E-09	0.0000	0.0000
3	1.25E-08	0.0000	0.0000
4	2.70E-08	0.0000	0.0000
5	5.11E-08	0.0000	0.0000
6	8.92E-08	0.0000	0.0000
7	1.48E-07	0.0000	0.0000
8	2.35E-07	0.0000	0.0000
9	3.62E-07	0.0000	0.0000
10	5.45E-07	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft^3)	Caq (μg/l)
11	8.03E-07	0.0000	0.0000
12	1.16E-06	0.0000	0.0000
13	1.65E-06	0.0000	0.0001
14	2.32E-06	0.0000	0.0001
15	3.22E-06	0.0000	0.0001
16	4.42E-06	0.0000	0.0002
17	6.00E-06	0.0000	0.0002
18	8.07E-06	0.0000	0.0003
19	1.08E-05	0.0000	0.0004
20	1.42E-05	0.0000	0.0005
21	1.87E-05	0.0000	0.0007
22	2.43E-05	0.0000	0.0009
23	3.15E-05	0.0000	0.0012
24	4.04E-05	0.0000	0.0015
25	5.17E-05	0.0000	0.0019
26	6.57E-05	0.0000	0.0024
27	8.30E-05	0.0000	0.0031
28	1.04E-04	0.0000	0.0039
29	1.31E-04	0.0000	0.0048
30	1.62E-04	0.0000	0.0060
31	2.01E-04	0.0000	0.0074
32	2.48E-04	0.0000	0.0092
33	3.05E-04	0.0000	0.0113
34	3.72E-04	0.0000	0.0138
35	4.53E-04	0.0000	0.0167
36	5.50E-04	0.0000	0.0203
37	6.64E-04	0.0000	0.0245
38	7.99E-04	0.0000	0.0295
39	9.57E-04	0.0000	0.0354
40	1.14E-03	0.0000	0.0422
41	1.36E-03	0.0000	0.0503
42	1.61E-03	0.0000	0.0596
43	1.91E-03	0.0000	0.0705
44	2.25E-03	0.0000	0.0830
45	2.64E-03	0.0000	0.0975
46	3.09E-03	0.0000	0.1141
47	3.61E-03	0.0000	0.1332
48	4.20E-03	0.0000	0.1550
49	4.87E-03	0.0000	0.1797
50	5.63E-03	0.0000	0.2079
51	6.49E-03	0.0000	0.2397
52	7.46E-03	0.0000	0.2757
53	8.56E-03	0.0000	0.3161
54	9.79E-03	0.0000	0.3615

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
55	1.12E-02	0.0000	0.4122
56	1.27E-02	0.0000	0.4689
57	1.44E-02	0.0000	0.5319
58	1.63E-02	0.0000	0.6019
59	1.84E-02	0.0000	0.6793
60	2.07E-02	0.0000	0.7648
61	2.33E-02	0.0000	0.8590
62	2.61E-02	0.0000	0.9624
63	2.91E-02	0.0000	1.0757
64	3.25E-02	0.0000	1.1996
65	3.61E-02	0.0000	1.3346
66	4.01E-02	0.0000	1.4815
67	4.44E-02	0.0000	1.6409
68	4.91E-02	0.0001	1.8135
69	5.41E-02	0.0001	1.9998
70	5.96E-02	0.0001	2.2007
71	6.54E-02	0.0001	2.4167
72	7.17E-02	0.0001	2.6484
73	7.84E-02	0.0001	2.8964
74	8.56E-02	0.0001	3.1613
75	9.32E-02	0.0001	3.4438
76	1.01E-01	0.0001	3.7442
77	1.10E-01	0.0001	4.0630
78	1.19E-01	0.0001	4.4010
79	1.29E-01	0.0001	4.7582
80	1.39E-01	0.0001	5.1350
81	1.50E-01	0.0002	5.5317
82	1.61E-01	0.0002	5.9488
83	1.73E-01	0.0002	6.3862
84	1.85E-01	0.0002	6.8442
85	1.98E-01	0.0002	7.3230
86	2.12E-01	0.0002	7.8224
87	2.26E-01	0.0002	8.3425
88	2.40E-01	0.0003	8.8826
89	2.56E-01	0.0003	9.4433
90	2.71E-01	0.0003	10.0240
91	2.88E-01	0.0003	10.6243
92	3.04E-01	0.0003	11.2441
93	3.22E-01	0.0003	11.8824
94	3.39E-01	0.0004	12.5392
95	3.58E-01	0.0004	13.2137
96	3.76E-01	0.0004	13.9049
97	3.96E-01	0.0004	14.6127

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
98	4.15E-01	0.0004	15.3359
99	4.35E-01	0.0005	16.0740
100	4.55E-01	0.0005	16.8257

Table E5. Hexane as Chemical Surrogate of TPH as Gasoline VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	5.66E-23	0.0000	0.0000
2	5.05E-11	0.0000	0.0000
3	3.25E-10	0.0000	0.0000
4	1.24E-09	0.0000	0.0000
5	3.63E-09	0.0000	0.0000
6	8.96E-09	0.0000	0.0000
7	1.96E-08	0.0000	0.0000
8	3.93E-08	0.0000	0.0000
9	7.34E-08	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft^3)	Caq (μg/l)
10	1.29E-07	0.0000	0.0000
11	2.17E-07	0.0000	0.0000
12	3.51E-07	0.0000	0.0000
13	5.47E-07	0.0000	0.0000
14	8.27E-07	0.0000	0.0000
15	1.22E-06	0.0000	0.0000
16	1.76E-06	0.0000	0.0001
17	2.48E-06	0.0000	0.0001
18	3.43E-06	0.0000	0.0001
19	4.67E-06	0.0000	0.0002
20	6.27E-06	0.0000	0.0002
21	8.29E-06	0.0000	0.0003
22	1.08E-05	0.0000	0.0004
23	1.40E-05	0.0000	0.0005
24	1.79E-05	0.0000	0.0007
25	2.27E-05	0.0000	0.0008
26	2.84E-05	0.0000	0.0010
27	3.53E-05	0.0000	0.0013
28	4.36E-05	0.0000	0.0016
29	5.34E-05	0.0000	0.0020
30	6.49E-05	0.0000	0.0024
31	7.85E-05	0.0000	0.0029
32	9.42E-05	0.0000	0.0035
33	1.12E-04	0.0000	0.0042
34	1.33E-04	0.0000	0.0049
35	1.58E-04	0.0000	0.0058
36	1.85E-04	0.0000	0.0068
37	2.17E-04	0.0000	0.0080
38	2.52E-04	0.0000	0.0093
39	2.92E-04	0.0000	0.0108
40	3.37E-04	0.0000	0.0125
41	3.88E-04	0.0000	0.0143
42	4.44E-04	0.0000	0.0164
43	5.07E-04	0.0000	0.0187
44	5.76E-04	0.0000	0.0213
45	6.53E-04	0.0000	0.0241
46	7.38E-04	0.0000	0.0272
47	8.31E-04	0.0000	0.0307
48	9.33E-04	0.0000	0.0345
49	1.04E-03	0.0000	0.0386
50	1.17E-03	0.0000	0.0431
51	1.30E-03	0.0000	0.0479
52	1.44E-03	0.0000	0.0532

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft^3)	Caq (μg/l)
53	1.60E-03	0.0000	0.0590
54	1.76E-03	0.0000	0.0652
55	1.94E-03	0.0000	0.0718
56	2.14E-03	0.0000	0.0790
57	2.35E-03	0.0000	0.0867
58	2.57E-03	0.0000	0.0950
59	2.81E-03	0.0000	0.1038
60	3.06E-03	0.0000	0.1132
61	3.34E-03	0.0000	0.1232
62	3.62E-03	0.0000	0.1339
63	3.93E-03	0.0000	0.1452
64	4.26E-03	0.0000	0.1572
65	4.60E-03	0.0000	0.1700
66	4.96E-03	0.0000	0.1834
67	5.35E-03	0.0000	0.1976
68	5.75E-03	0.0000	0.2125
69	6.18E-03	0.0000	0.2283
70	6.63E-03	0.0000	0.2448
71	7.10E-03	0.0000	0.2622
72	7.59E-03	0.0000	0.2804
73	8.11E-03	0.0000	0.2995
74	8.65E-03	0.0000	0.3194
75	9.21E-03	0.0000	0.3403
76	9.80E-03	0.0000	0.3621
77	1.04E-02	0.0000	0.3848
78	1.11E-02	0.0000	0.4084
79	1.17E-02	0.0000	0.4330
80	1.24E-02	0.0000	0.4585
81	1.31E-02	0.0000	0.4851
82	1.39E-02	0.0000	0.5127
83	1.47E-02	0.0000	0.5412
84	1.55E-02	0.0000	0.5708
85	1.63E-02	0.0000	0.6014
86	1.71E-02	0.0000	0.6330
87	1.80E-02	0.0000	0.6658
88	1.89E-02	0.0000	0.6995
89	1.99E-02	0.0000	0.7344
90	2.09E-02	0.0000	0.7703
91	2.19E-02	0.0000	0.8072
92	2.29E-02	0.0000	0.8454
93	2.39E-02	0.0000	0.8845
94	2.50E-02	0.0000	0.9248
95	2.62E-02	0.0000	0.9662

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
96	2.73E-02	0.0000	1.0087
97	2.85E-02	0.0000	1.0523
98	2.97E-02	0.0000	1.0971
99	3.09E-02	0.0000	1.1429
100	3.22E-02	0.0000	1.1899

Table E6. Dodecane as Chemical Surrogate of TPH as Diesel VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

$Qh = K * b * i * W$	917	cubic feet/year
$Caq = Mw / [(Qv*A) + Qh]$	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	5.59E-22	0.0000	0.0000
2	3.70E-12	0.0000	0.0000
3	1.65E-11	0.0000	0.0000
4	4.81E-11	0.0000	0.0000
5	1.14E-10	0.0000	0.0000
6	2.37E-10	0.0000	0.0000
7	4.51E-10	0.0000	0.0000
8	8.02E-10	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
9	1.35E-09	0.0000	0.0000
10	2.18E-09	0.0000	0.0000
11	3.41E-09	0.0000	0.0000
12	5.15E-09	0.0000	0.0000
13	7.59E-09	0.0000	0.0000
14	1.09E-08	0.0000	0.0000
15	1.54E-08	0.0000	0.0000
16	2.14E-08	0.0000	0.0000
17	2.92E-08	0.0000	0.0000
18	3.92E-08	0.0000	0.0000
19	5.21E-08	0.0000	0.0000
20	6.83E-08	0.0000	0.0000
21	8.85E-08	0.0000	0.0000
22	1.14E-07	0.0000	0.0000
23	1.44E-07	0.0000	0.0000
24	1.82E-07	0.0000	0.0000
25	2.27E-07	0.0000	0.0000
26	2.82E-07	0.0000	0.0000
27	3.47E-07	0.0000	0.0000
28	4.25E-07	0.0000	0.0000
29	5.16E-07	0.0000	0.0000
30	6.23E-07	0.0000	0.0000
31	7.49E-07	0.0000	0.0000
32	8.94E-07	0.0000	0.0000
33	1.06E-06	0.0000	0.0000
34	1.26E-06	0.0000	0.0000
35	1.48E-06	0.0000	0.0001
36	1.74E-06	0.0000	0.0001
37	2.03E-06	0.0000	0.0001
38	2.36E-06	0.0000	0.0001
39	2.73E-06	0.0000	0.0001
40	3.15E-06	0.0000	0.0001
41	3.62E-06	0.0000	0.0001
42	4.15E-06	0.0000	0.0002
43	4.74E-06	0.0000	0.0002
44	5.40E-06	0.0000	0.0002
45	6.13E-06	0.0000	0.0002
46	6.94E-06	0.0000	0.0003
47	7.84E-06	0.0000	0.0003
48	8.83E-06	0.0000	0.0003
49	9.92E-06	0.0000	0.0004
50	1.11E-05	0.0000	0.0004
51	1.24E-05	0.0000	0.0005
52	1.38E-05	0.0000	0.0005

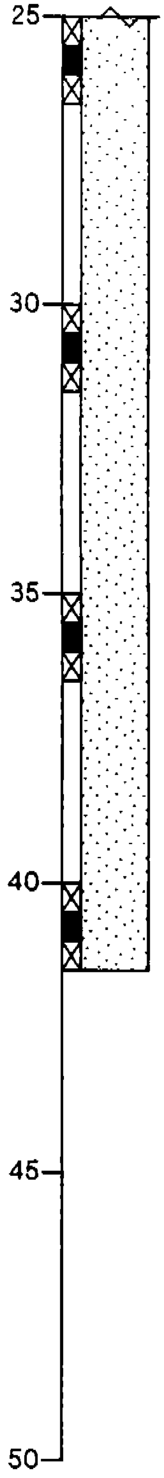
Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft³)	Caq (μg/l)
53	1.54E-05	0.0000	0.0006
54	1.71E-05	0.0000	0.0006
55	1.90E-05	0.0000	0.0007
56	2.10E-05	0.0000	0.0008
57	2.31E-05	0.0000	0.0009
58	2.55E-05	0.0000	0.0009
59	2.80E-05	0.0000	0.0010
60	3.07E-05	0.0000	0.0011
61	3.37E-05	0.0000	0.0012
62	3.68E-05	0.0000	0.0014
63	4.02E-05	0.0000	0.0015
64	4.38E-05	0.0000	0.0016
65	4.77E-05	0.0000	0.0018
66	5.18E-05	0.0000	0.0019
67	5.62E-05	0.0000	0.0021
68	6.09E-05	0.0000	0.0023
69	6.59E-05	0.0000	0.0024
70	7.12E-05	0.0000	0.0026
71	7.69E-05	0.0000	0.0028
72	8.28E-05	0.0000	0.0031
73	8.92E-05	0.0000	0.0033
74	9.59E-05	0.0000	0.0035
75	1.03E-04	0.0000	0.0038
76	1.10E-04	0.0000	0.0041
77	1.18E-04	0.0000	0.0044
78	1.27E-04	0.0000	0.0047
79	1.35E-04	0.0000	0.0050
80	1.45E-04	0.0000	0.0053
81	1.54E-04	0.0000	0.0057
82	1.64E-04	0.0000	0.0061
83	1.75E-04	0.0000	0.0065
84	1.86E-04	0.0000	0.0069
85	1.98E-04	0.0000	0.0073
86	2.10E-04	0.0000	0.0077
87	2.23E-04	0.0000	0.0082
88	2.36E-04	0.0000	0.0087
89	2.50E-04	0.0000	0.0092
90	2.64E-04	0.0000	0.0098
91	2.79E-04	0.0000	0.0103
92	2.95E-04	0.0000	0.0109
93	3.11E-04	0.0000	0.0115
94	3.28E-04	0.0000	0.0121
95	3.46E-04	0.0000	0.0128
96	3.64E-04	0.0000	0.0134

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	 Caq (μg/l)
97	3.83E-04	0.0000	0.0141
98	4.03E-04	0.0000	0.0149
99	4.23E-04	0.0000	0.0156
100	4.44E-04	0.0000	0.0164

Equipment Hollow Stem Auger
8" diameter
Elevation 275 ft. msl Date 10-19-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)	
52	18	ND		30	@ 30 feet: Becoming very dense.
43	18	ND		35	@ 35 feet: Becoming dense.
47	18	ND		40	



Bottom of boring at 41.5 feet. No Groundwater Encountered

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Log of Boring SB-4590-03
Site Investigation
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Former Fort Ord, California

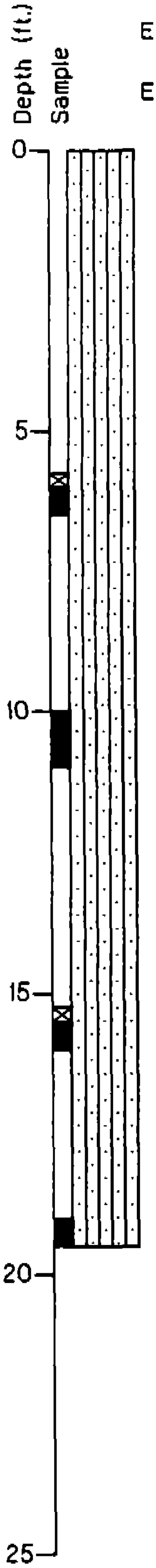
PLATE
C15

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Cone Penetrometer
15" diameter

Elevation 275 ft. msl **Date** 10-12-93

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9341HCPT	
NA	9	NA	001*	LIGHT OLIVE BROWN SILTY SAND (SM) (2.5Y 5/6): loose, dry, fine-grained, 15% silt.
NA	10	NA	002*	@ 10 feet: Color change to pale yellow (2.5Y 7/4), increase in silt content to 40%.
NA	9	NA		@ 15 feet: Color change to yellow (10YR 7/6), very fine, becoming dense
NA	6	NA	004*	@ 18.5 feet: Becoming very dense.



Bottom of boring at 19.5 feet. No Groundwater Encountered

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Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
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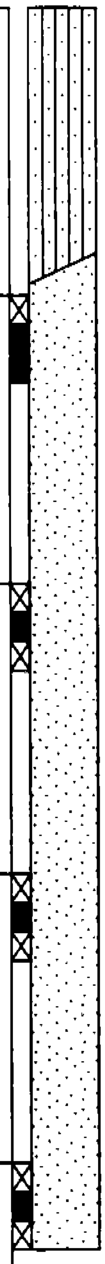
PLATE
C16

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JT	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl   Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)	
				0	LIGHT BROWN SILTY SAND (SM) (2.5Y 5/4): medium dense, dry, fine-grained, 40% silt.
8	18	ND	010F*	5	BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6): loose, moist, fine-grained, 5-10% silt.
22	18	ND	011F*	10	@ 9 feet: Encountered interbedded silty lenses with sand, color change to yellowish brown (10YR 5/8), increase in moisture content.
23	18	ND		15	@ 15 feet: Lack of sand lenses.
41	18	ND	013F*	20	@ 20 feet: Becoming dense.
					Bottom of boring at 21.5 feet. No Groundwater Encountered
				25	



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Log of Boring SB-4590-05
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

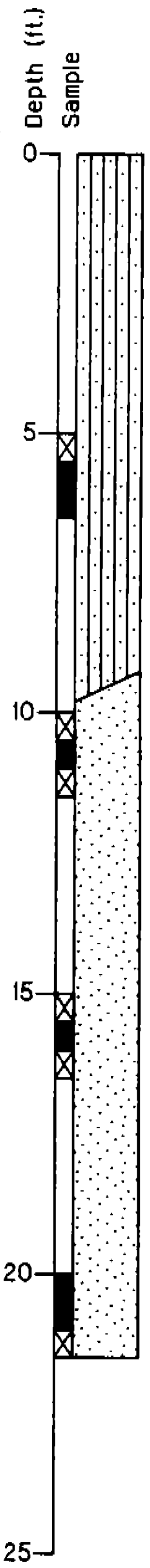
PLATE
C17

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl **Date** 10-19-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				0
17	18	ND	006F*	5
29	18	ND		10
28	18	ND	008F*	15
46	18	ND	009F*	20
				25



LIGHT OLIVE BROWN SILTY SAND (SM) (2.5Y 5/4): medium dense, dry, fine- to medium-grained, 40% silt.

@ 2 feet: Color change to light yellowish brown (2.5Y 6/4).

@ 5 feet: Color change to yellow (10YR 7/6), fine, decrease in silt content to 15%.

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6): medium dense, moist, fine, 10% silt.

@ 15 feet: Color change to yellowish brown (10YR 5/6).

@ 20 feet: Color change to brownish yellow (10YR 6/6).

Bottom of boring at 21.5 feet. No Groundwater Encountered

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Log of Boring SB-4590-08
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

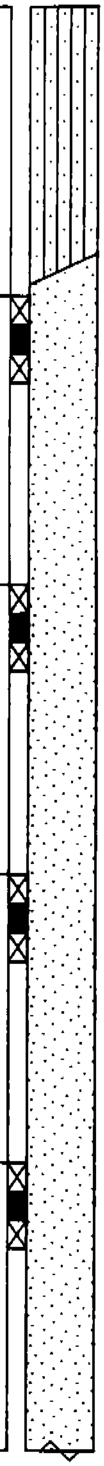
PLATE
C18

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8' diameter

Elevation 275 ft. msl **Date** 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				0
6	18	ND		5
3	18	ND		10
2	18	ND		15
8	18	ND		20
25	18	ND		25



LIGHT YELLOWISH BROWN SILTY SAND WITH GRAVEL (SM) (2.5Y 6/3), loose, dry, fine- to medium-grained, 30% silt, 15% fine subrounded gravel (fill).

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4): medium dense, moist, very fine- to fine-grained, 10% silt.

@ 15 feet: Sand with clear to white fine-grained lenses.

@ 20 feet: Color change to brownish yellow (10YR 6/6), trace of silt, lack of clear to white lenses.

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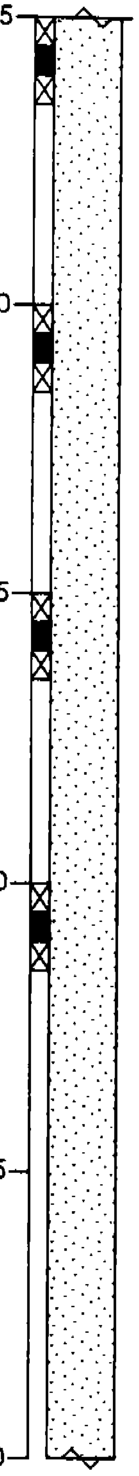
PLATE **C19**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JF	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl **Date** 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)	
				25	@ 25 feet: Becoming medium dense.
39	18	ND	026F*	30	
29	18	ND	027F*	35	@ 35 feet: Color change to olive yellow (2.5Y 6/6).
32	18	ND	028F*	40	@ 40 feet: Color change to brownish yellow (10YR 6/6).
				45	
				50	



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Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

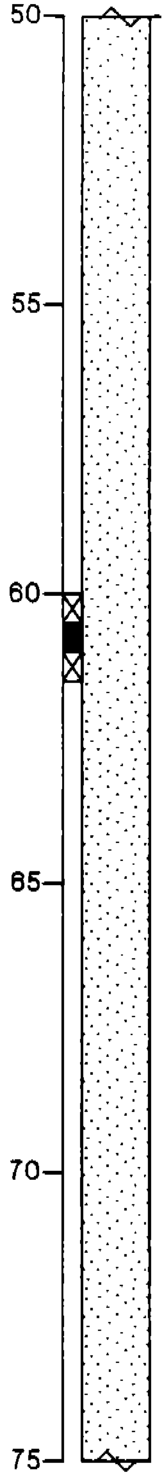
PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JZ	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
41	12	ND	029F*	60



@ 50 feet: Becoming very fine.

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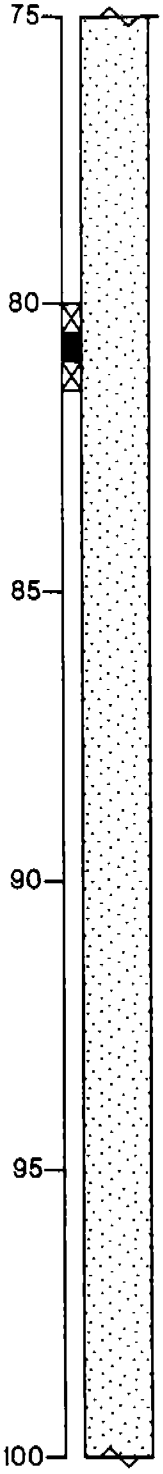
PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JF	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
46	18	ND	030F*	80
38	12	ND	031F*	100



@ 77 feet: Encountered 1-1/2 inch diameter fractured subrounded gravel.

@ 81 feet: Color change to light yellowish brown (10YR 6/4), becoming fine.

@ 82 feet: Color change to brownish yellow (10YR 6/6), becoming very fine.

FTO-UST

Harding Lawson Associates
Engineering and Environmental Services

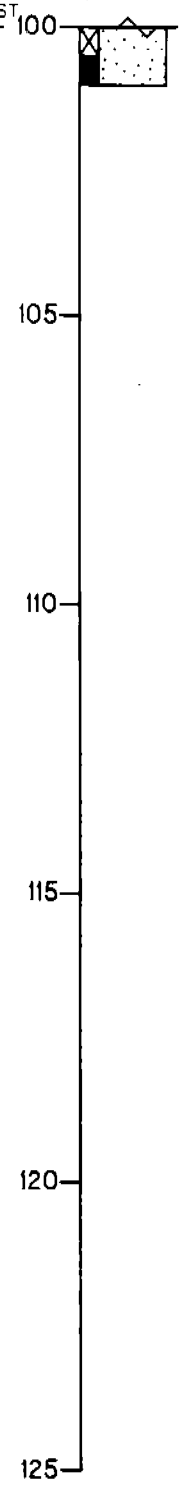
Log of Boring SB-4590-07
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/98

Equipment Hollow Stem Auger
8" diameter
Elevation 275 ft. msl **Date** 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number	Depth (ft.)	Sample
			9342HUST	100	☒



Bottom of boring at 101 feet. No Groundwater Encountered

FTO-UST

Harding Lawson Associates
Engineering and Environmental Services

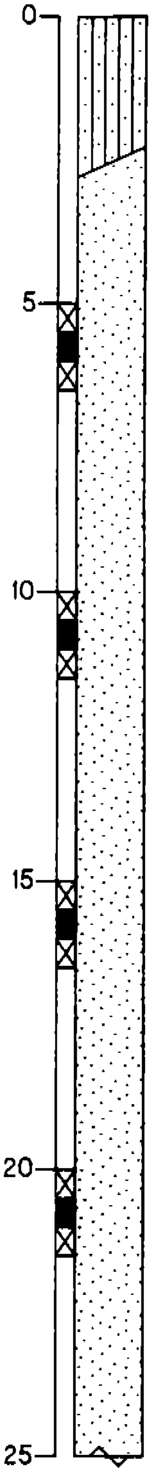
Log of Boring SB-4590-07
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE
C19

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment Hollow Stem Auger
8" diameter
Elevation 275 ft. msl Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)
				0
17	18	ND	040F*	5
18	18	ND		10
25	18	ND	042F*	15
43	18	ND		20
48	18	ND	044F*	25



DARK BROWN SILTY SAND (SM) (10YR 4/3): loose, dry, fine-grained, 30-35% silt, 5-10% fine gravel.

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6): medium dense, moist, very fine- to fine-grained, 10% silt

@ 5 feet: Color change to brownish yellow (10YR 6/8), becoming very fine.

@ 10 feet: Color change to brownish yellow (10YR 6/6).

@ 20 feet: Becoming dense, 90-95% very fine, 5-10% silt.

FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-4590-08
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

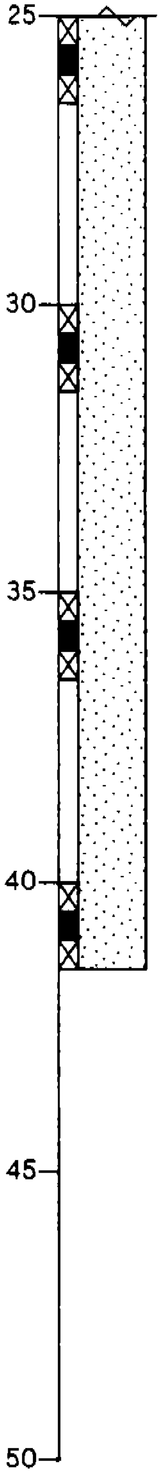
PLATE
C20

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671	JF	1/94	6/96

Equipment Hollow Stem Auger
8" diameter

Elevation 275 ft. msl   Date 10-20-93

Blows/foot**	Recovery (inches)	OVA Reading (ppm)	Sample Number 9342HUST	Depth (ft.)	Description
				25	@ 25 feet: color change to yellow (10YR 7/6), 100% fine.
					@ 26 feet: Color change to brownish yellow (10YR 6/6), becoming very fine.
46	18	ND		30	
					@ 31 feet: Interbedded zones of brownish yellow (10YR 6/6) very fine- grained and yellow (10YR 7/8) fine-grained, dense.
45	18	ND		35	
43	18	ND		40	@ 40 feet: Becoming very fine, lack of interbeds.
					Bottom of boring at 41.5 feet. No Groundwater Encountered
				45	
				50	



FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-4590-08
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

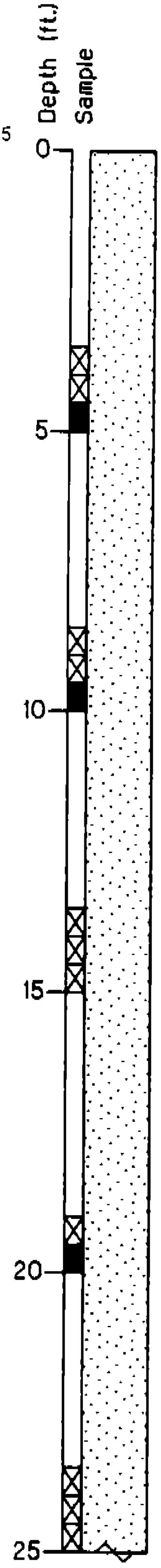
PLATE **C20**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
BWH	23367 02671		1/94	6/96

Equipment CME 75 Hollow Stem Auger
7" diameter

Elevation ______ **Date** 1-27-95

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9504Z275	
11	18	33.1	064F	DARK GRAYISH BROWN SAND (SP) (7.5YR 3/1): loose, dry, fine to medium sand, trace gravel, possible staining, fill
13	18	14	065F	@ 8.5 feet: as above
5	14	9.2		@ 14 feet: black (7.5YR 2.5/1), very loose, heavily stained, strong petroleum odor
6	12	8.3	066F	@ 19 feet: dark grayish brown (7.5YR 3/1), stained, strong petroleum odor
11	16	4.2		@ 24 feet: grayish brown (7.5YR 6/1), loose, medium sand, light staining, strong petroleum odor



FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-2754-01
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

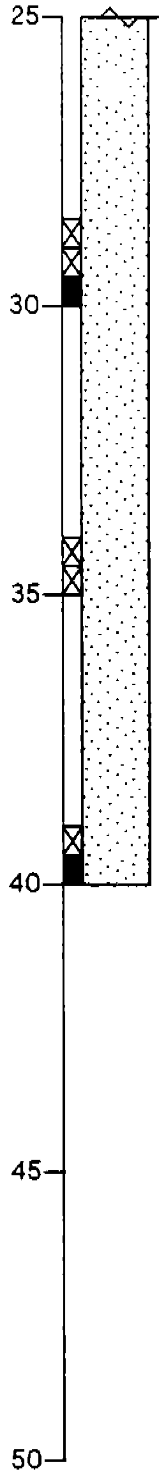
PLATE
C21

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 75 Hollow Stem Auger
7" diameter

Elevation ______ Date 1-27-95

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9504Z275	Depth (ft.)
24	18	2.4	067F	30
30		6.1		35
24		12	068F	40



@ 28.5 feet: light grayish brown (7.5YR 6/1), medium dense, trace odor, no staining

@ 34 feet: medium dense, fine to medium sand, slight odor and staining

@ 39 feet: as above

Bottom of boring at 40 feet. Boring backfilled with with bentonite cement grout (1/27/95). No groundwater encountered.

FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-2754-01
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

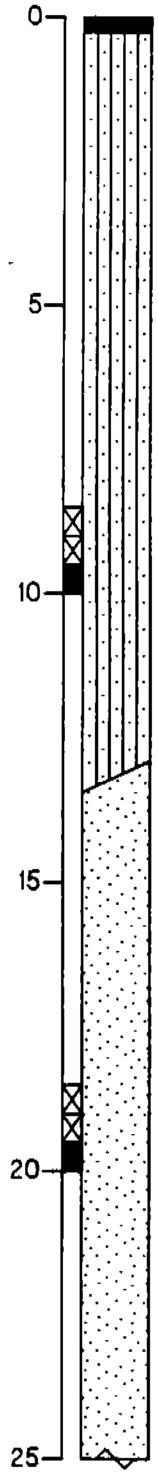
PLATE **C21**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ Date 12-22-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9451Z275
		0 6	
23	18	5.2	034F
20	18	8.3	035F



ASPHALT

BROWN SILTY SAND (SM) (7.5YR 5/2): loose, dry, fine to medium sand, slight petroleum odor

@ 9 feet: medium dense, petroleum staining and odor

BLACKISH BROWN TO VERY DARK BROWN SAND (SP) (7.5YR 2.5/3): medium dense, dry, fine to medium sand, trace silt, moderate to heavy petroleum odor and staining

FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-2754-02

Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

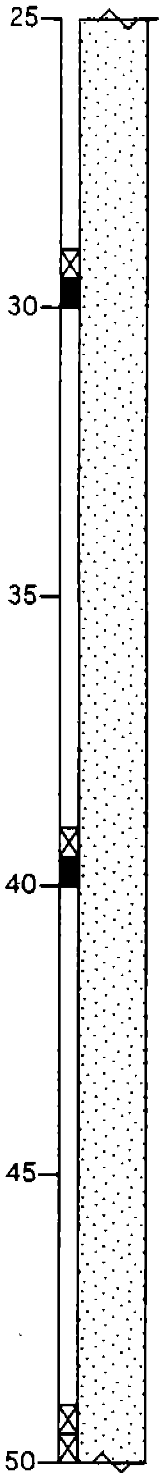
PLATE
C22

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JJ	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ Date 12-22-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9451Z275	Depth (ft.)	
17	12	1 3	036F	30	@ 29 feet: dark grayish brown (10YR 4/2), trace petroleum odor and staining
31	12	ND	037F	40	@ 39 feet: brown (7.5YR 4/2), no petroleum odor, slight staining
39	12	ND		50	@ 49 feet: light brown (7.5YR 6/4), predominantly medium sand, trace staining



F10-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-2754-02
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

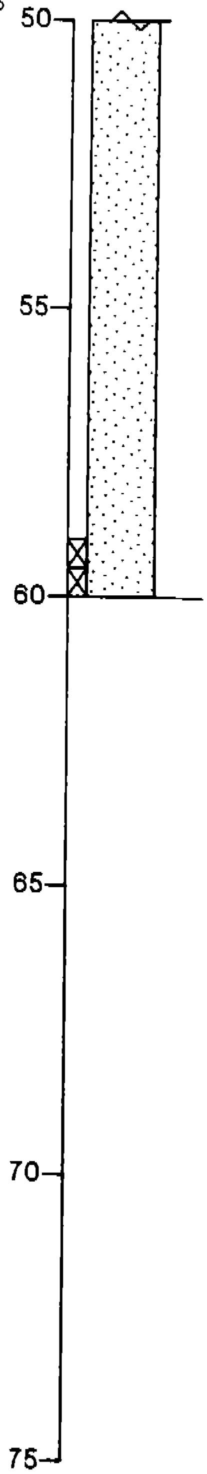
PLATE
C22

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JF	2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ **Date** 12-22-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number
			9451Z275
39	12	ND	



@ 59 feet: light brown (7.5YR 6/3), fine to medium sand, no staining

Bottom of boring at 60 feet. Boring backfilled with bentonite cement grout (12/23/94). No groundwater encountered.

FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-2754-02
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

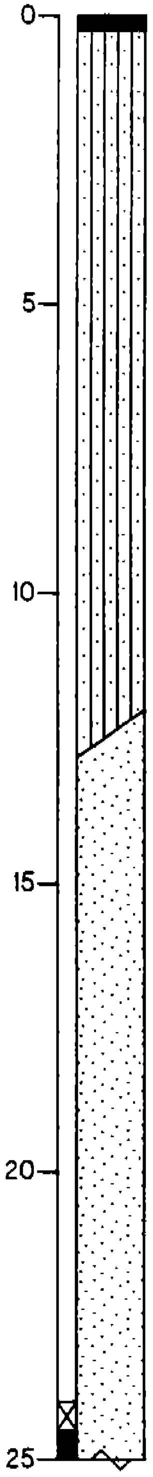
PLATE
C22

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ Date 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z275	Depth (ft.)
		ND		15
31	12	7.2	022F	25



ASPHALT

BROWN SILTY SAND (SM) (7.5YR 5/3): loose, dry, medium sand

LIGHT BROWN SAND (SP) (7.5YR 6/3): loose, dry, fine to medium sand, trace silt, trace rootholes, slight petroleum odor, staining

@ 24 feet: light brown to brown (7.5YR 5.5/3), medium dense

FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-2754-03
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

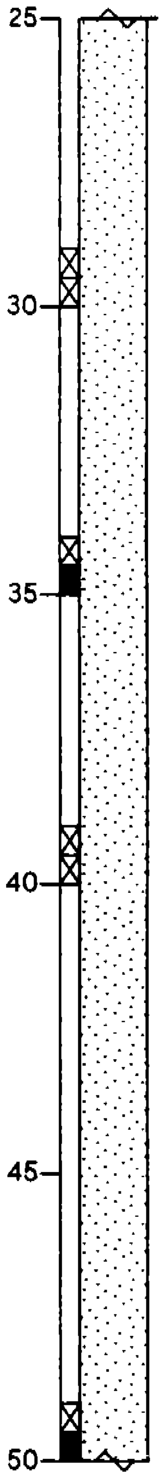
PLATE
C23

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______________ **Date** 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z275	Depth (ft.)	
				25	
36	12	5		30	@ 29 feet: as above
35	12	6.2	023F	35	@ 34 feet: slight petroleum odor, greenish staining
35	12	ND		40	@ 39 feet: as above
				45	
31	12	ND	024F	50	@ 49 feet: medium sand, no odor or staining



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Harding Lawson Associates
Engineering and Environmental Services

Log of Boring SB-2754-03
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

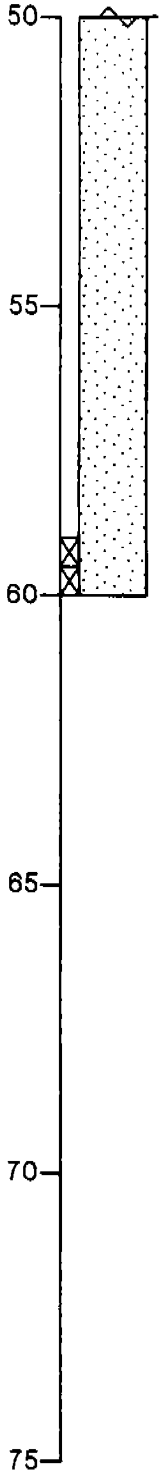
PLATE **C23**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______________ **Date** 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number	Depth (ft.)
			9450Z275	50
32	12	ND		59–60



@ 59 feet: as above

Bottom of boring at 60 feet. Boring backfilled with bentonite cement grout (12/16/94). No groundwater encountered.

FTO-UST

Harding Lawson Associates
Engineering and Environmental Services

Log of Boring SB-2754-03
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

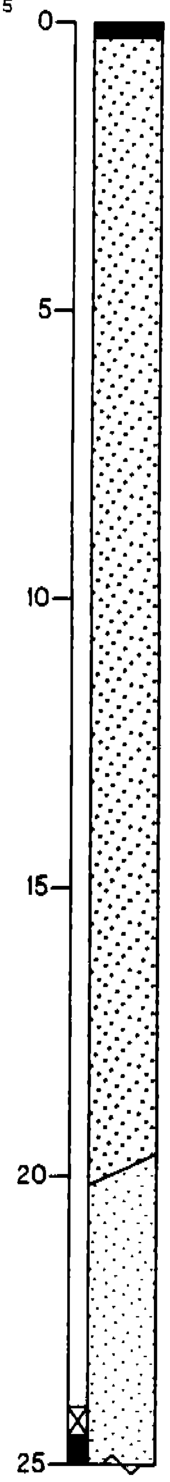
PLATE
C23

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ **Date** 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z275
30	12	8.2	019F



ASPHALT

BROWN SAND (SW) (7.5YR 5/3): loose, dry, medium sand

@ 15 feet: light yellowish brown (10YR 6/4), fine to medium sand

DARK BROWN SAND (SP) (7.5YR 3/2): medium dense, dry, medium sand, trace silt, strong petroleum odor and staining

FTO-UST

Harding Lawson Associates
Engineering and
Environmental Services

Log of Boring SB-2754-04
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

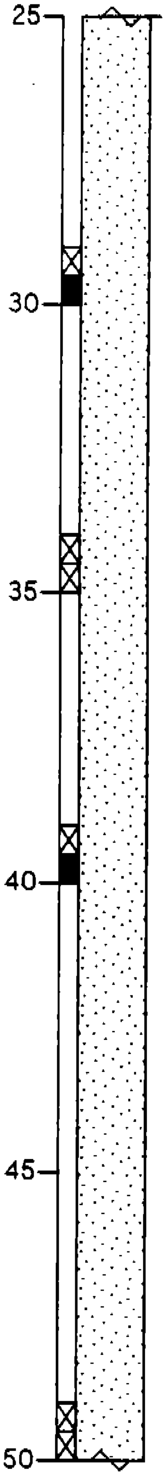
PLATE
C24

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ______ **Date** 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number 9450Z275	Depth (ft.)	
				25	
32	12	5.1	020F	30	@ 29 feet: as above
29	12	1.1		35	@ 34 feet: brown (7.5YR 5/2), fine to medium sand, slight odor and staining
41	12	ND	021F	40	@ 39 feet: as above
				45	
32	12	ND		50	@ 49 feet: light brown (7.5YR 6/3), loose to dense, medium sand, trace silt, no odor or staining



FTO-UST

Harding Lawson Associates
Engineering and Environmental Services

Log of Boring SB-2754-04
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

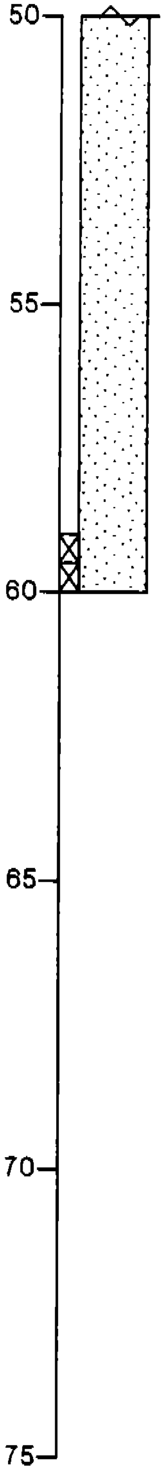
PLATE **C24**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671		2/95	6/96

Equipment CME 55 Hollow Stem Auger
7" diameter

Elevation ____________ Date 12-16-94

Blows/foot**	Recovery (inches)	OVM Reading (ppm)	Sample Number	Depth (ft.)
			9450Z275	50
30	12	ND		60



@ 59 feet: as above

Bottom of boring at 60 feet. Boring backfilled with bentonite cement grout (12/16/94). No groundwater encountered.

FTO-UST

Harding Lawson Associates
Engineering and Environmental Services

Log of Boring SB-2754-04
Site Investigation
Buildings 4107, 4110, 4590, and Facility 2754
Former Fort Ord, California

PLATE
C24

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
LRH	23367 02671	JJ	2/95	6/96

APPENDIX D

APPENDIX D

UST SITE CLOSURE LETTERS

MONTEREY COUNTY

DEPARTMENT OF HEALTH ROBERT J. MELTON, M.D., M.P.H., Director

FAMILY AND COMMUNITY HEALTH ENVIRONMENTAL HEALTH HEALTH PROMOTION
MENTAL HEALTH ALCOHOL AND DRUG PROGRAMS EMERGENCY MEDICAL SERVICES

☒ 1270 NATIVIDAD ROAD SALINAS, CALIFORNIA 93906-3196 (408) 755-4500
☐ 1200 AGUAJITO ROAD, MONTEREY, CALIFORNIA 93940-4898 (408) 647-7680
☐ 1160 BROADWAY, KING CITY, CALIFORNIA 93930 (408) 385-6350
☐ 1886 OLYMPIA AVENUE, SEASIDE, CALIFORNIA 93955 (408) 899-5100
☐ 1000 S. MAIN ST., #300, SALINAS, CALIFORNIA 93901 (408) 755-4480

PLEASE REPLY TO ADDRESS CHECKED

June 1, 1995/Received

March 3, 1995

Mr. James M. Willison, Director
Environmental and Natural Resources Management
DLIFLC & POM
ATTN: ATZP-EP
Presideo of Monterey, California, 93944-5006

Subject: Underground Storage Tank Closure

Dear Mr. Willison:

This department has reviewed all data related to the closure of the following underground storage tanks and have determine that no further action is required:

BUILDING	TANKS
4107	750 GALLON
3016 A	3000 GALLON
4493	5- 20,000 GALLON
4534	550 GALLON
4590	3000 GALLON
1697	2-550 GALLON
4518	550 GALLON
1483	550 GALLON

If you have any questions regarding this matter, please contact this office.

Sincerely,

Walter Wong, MPH, REHS
Director of Environmental Health

Jon Jennings

Jon Jennings, REHS
Chief, Hazardous Materials/Solid Waste Management Branch

cc: Mamerto Jorvina, Hazardous Materials Specialist

MONTEREY COUNTY

DEPARTMENT OF HEALTH ROBERT J. MELTON, M.D., M.P.H., Director

FAMILY AND COMMUNITY HEALTH ENVIRONMENTAL HEALTH HEALTH PROMOTION
MENTAL HEALTH ALCOHOL AND DRUG PROGRAMS EMERGENCY MEDICAL SERVICES

☐ 1270 NATIVIDAD ROAD, SALINAS, CALIFORNIA 93906-3198 (408) 755-4500
☐ 1200 AGUAJITO ROAD, MONTEREY, CALIFORNIA 93940-4928 (408) 647-7650
☐ 1160 BROADWAY, KING CITY, CALIFORNIA 93930 (408) 385-8050

PLEASE REPLY TO ADDRESS CHECKED

August 22, 1996

Mr. James M. Willison
Director, Environmental Natural Resources Management
DLIFLC & POM
ATTN: ATZP-EP
Presidio of Monterey, CA 93944-5006

RE: Underground Storage Tank Closure

Dear Mr. Willison:

This department has received all data related to the closure of the following underground storage tanks and have determined that no further action is required.

TANK	SIZE AND CONTENTS
550A.1	285 gal - gasoline
1483.1	2,500 gal - gasoline
1685.1	unknown - diesel
1685.2	unknown - diesel
1685.3	unknown - diesel
1697.1	1,000 gal - diesel
2253.1	12,000 gal - diesel
2754.1	1,000 gal - gasoline
3803.1	1,500 gal - unknown
3803.2	1,500 gal - unknown
3803.3	5,000 gal - unknown
4493.3	20,000 gal - diesel
4518.2	550 gal - diesel
4534.1	550 gal - waste oil

If you have any questions regarding this matter, please feel free to contact this office.

Walter Wong
Walter Wong, M.P.H., R.E.H.S.
Director of Environmental Health

cc: Mamerto Jorvina, Hazardous Materials Specialist II

MONTEREY COUNTY

DEPARTMENT OF HEALTH ROBERT J. MELTON, M.D., M.P.H., Director

FAMILY & COMMUNITY HEALTH ENVIRONMENTAL HEALTH HEALTH PROMOTION

BEHAVIORAL HEALTH EMERGENCY MEDICAL SERVICES

☐ 1270 NATIVIDAD ROAD, SALINAS, CALIFORNIA 93906-3198 (408) 755-4500
☐ 1200 AGUAJITO ROAD, MONTEREY, CALIFORNIA 93940-4896 (408) 647-7650
☐ 1180 BROADWAY, KING CITY, CALIFORNIA 93930 (408) 385-8330

PLEASE REPLY TO ADDRESS CHECKED

January 6, 1997

Commander, DLIFLC & POM
ATTN: ATZP-EP, Melissa Hlebasko
Presidio of Monterey, CA 93944-5006

RE: Underground Storage Tank Closure at Presidio of Monterey Annex

Dear Ms. Hlebasko:

Based on reports received by this office, it has been determined that no significant soil contamination was present at the following locations. Also, all required documentation has been received pertaining to the tank closures. These sites should now be properly closed, including backfilling as necessary with clean soil.

TANK #	CONTENTS	SIZE (gal)
139.1	Gasoline	Unk.
501.1	JP-4	10,000
501.2	JP-4	10,000
501.3	JP-4	10,000
501.4	JP-4	10,000
503.1	JP-4	25,000
503.2	JP-4	25,000
503.3	JP-4	25,000
503.4	JP-4	25,000
513.1	Waste Oil	550
519.1	Gasoline	275
521.2	Waste Oil	100
527.1	Diesel	5,000
542.1	Diesel	400
550.1	Gasoline	285
550C.1	Gasoline	560
812.1	Diesel	550
1482.1	Waste Oil	550
1489.3	Waste Oil	280
1492.1	Waste Oil	550
1495.2	Waste Oil	550

Hooray

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL # of pages ▶ 1

To TOM
From MELISSA
Phone #

TANK #	CONTENTS	SIZE (gal)
1495.3	Waste Oil	280
1497.1	Diesel	12,000
1497.2	Diesel	25,000
1497.3	Diesel	25,000
1497.4	Gasoline	25,000
1497.5	Gasoline	25,000
1670.1	Gasoline	12,000
1670.2	Diesel	12,000
1680.1	Waste Oil	1,000
2037.1	Diesel	12,000
2037.2	Gasoline	12,000
2039.1	Diesel	12,000
2039.2	Gasoline	12,000
2040.1	Diesel	12,000
2040.2	Diesel	12,000
2041.1	Diesel	12,000
2042.2	Gasoline	12,000
2070.1	Diesel	Unk
4110.1	Gasoline	500
4362.1	Diesel	4,000
4362.2	Unk	1,500
4385.1	Diesel	10,000
4538.2	Waste Oil	550
4543.1	Waste Oil	550
4544.2	Waste Oil	550
4545.1	Diesel	20,000
4545.3	Gasoline	20,000
4547.1	Waste Oil	550
4548.3	Waste Oil	280
4855.1	Waste Oil	550
4885.1	Diesel	550
4885.2	Waste Oil	550

Please be advised that this letter does not relieve you of any responsibilities mandated by the California Health and Safety Code if additional or previously unidentified contamination is discovered at this location.

If you have any questions regarding this matter, please contact this office.

Walter Wong

Walter Wong, M.P.H., R.E.H.S.
Director, Environmental Health Division

WW/MJ:jp

cc: Howard Tsuchiya, Hazardous Materials Specialist IV
File

Cal/EPA

Central Coast Regional Water Quality Control Board

81 Higuera Street
Suite 200
San Luis Obispo, CA
93401-5427
(805) 549-3147
FAX (805) 543-0397

Pete Wilson
Governor

February 10, 1997

Bill Kilgore
Department of Toxic Substances Control, Region 1
10151 Croydon Way, Suite 3
Sacramento, CA 95827

Dear Mr. Kilgore:

DoD - FORMER FORT ORD; UNDERGROUND TANK (UST) CASE CLOSURE; DRAFT SITE INVESTIGATION REPORT BUILDINGS 4107, 4110, AND 4590 AND FACILITY 2754, FORMER FORT ORD, CALIFORNIA

Site investigations and remedial actions were conducted at the subject underground storage tank sites. The Monterey County Department of Health has previously granted closure for underground storage tanks located near Buildings 4107, 4110, and 4590 and Facility 2754. This letter is in response to a closure request for the UST at Building 4110. The closure request was based on the following findings:

1. Most of the contaminated soil has been removed. Considerable effort would be required to excavate the remaining impacted soil since this soil is greater than 25 feet below ground surface.
2. Petroleum hydrocarbons in the diesel range has relatively low solubility and mobility.
3. Depth to ground water is estimated to be 200 feet below ground surface.
4. Ground water modeling results indicate insignificant threat exists at this site.

Based on the information provided to the Regional Board and with the provision that the information accurately represents site conditions, no further action related to the underground storage tank 4110.1 is required. Due to regulation procedures, this notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e).

Please note the above notice only applies to tank 4110.1. If other soil and water contamination sources exist (such as pipelines) which have not been adequately remediated, separate case closure approval is required.

Additionally, the subject report listed Chromium III's Preliminary Remediation Goal (PRG) for soil as 67,000 mg/kg. We believe the current PRG for Chromium III is significantly lower. The Chromium III PRG of 67,000 mg/kg should be checked against current PRG for accuracy.

If you have any questions regarding this letter, please call **Grant Himebaugh** of my staff at (805) 542-4636.

Sincerely,

For: Roger W. Briggs
Executive Officer

c: Ms. Lida Tan
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105

Jon Jennings
Monterey County Health
1270 Natividad Road
Monterey, CA 93906-3198

✓Thomas Williams
Harding Lawson Associates
P.O. Box 6107
Novato, CA 94948

Cmdr, DLIFLC & POM
Attn: ATZP-EP
(Ms. Gail Youngblood)
Presidio of Monterey, CA 93944-5006

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GH/sc

APPENDIX E

APPENDIX E

VADOSE ZONE LEACHING (VLEACH) AND GROUNDWATER MIXING MODELS, BUILDING 4110

APPENDIX E

CONTENTS

TABLES

POTENTIAL GROUNDWATER IMPACTS

This appendix describes the results of an evaluation of the potential groundwater impacts from selected chemicals detected in soil at Former UST 4110.1. It includes the results of the vadose zone leaching (VLEACH) and groundwater mixing models, which were used to simulate the potential transport of organic chemicals through the unsaturated zone to the uppermost aquifer.

E1.0 SITE-SPECIFIC APPLICATION OF THE VLEACH MODEL

The VLEACH and groundwater mixing models were used to simulate the potential movement from soil to groundwater of organic compounds detected in soil samples at Former UST 4110.1. The VLEACH model was used to estimate the movement of chemicals from areas where they were detected, through the soil column, to the depth of the water table. The groundwater mixing model then used the output from VLEACH to estimate chemical concentrations in groundwater. A more complete description of the VLEACH and groundwater mixing models, the rationale for using the models, and default and basewide parameters used in the model are described in HLA's Technical Memorandum: Approach to Evaluating Potential Groundwater Quality Impacts (*HLA, 1993e*). Site-specific information was used in the simulation where available. When site-specific data were not available, input parameters were selected on the basis of criteria outlined in the groundwater technical memorandum. Descriptions of site-specific model inputs and rationale for their use are provided below and in Table E1.

E1.1 Site-Specific Inputs

Chemicals Selected for Modeling: The chemicals or groups of chemicals selected for modeling include: TPH as gasoline and diesel (TPHg and TPHd), toluene, ethylbenzene, and xylene. As discussed in the groundwater technical memorandum, three surrogate compounds are selected for use when modeling TPHd. The surrogate compounds and the concentrations that were used for Building 4110, based on the weight fraction of these compounds in used motor oil, are listed in Table E2. Also listed in Table E2, but not discussed in the groundwater technical memorandum, are the weight fractions of benzene and hexane used to represent aromatic and aliphatic constituents of TPHg. These weight fractions were taken from the *Leaking Underground Fuel Tank Field Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure,* subsequently referred to as the LUFT Manual (*SWRCB, 1989*). It should be noted that these percentages account only for the weight fraction of benzene and hexane and not all aromatics and aliphatics in typical gasoline. Both benzene and hexane were modeled with a weight fraction of 3.5 percent. Using this weight fraction is not as conservative as assuming each compound represents all aromatics or aliphatics; however, it is considered conservative enough to approximate the potential impact to groundwater from these specific compounds.

Approximate Depth to Groundwater: Because no wells are located at Building 4110, the approximate depth to groundwater of 200 feet was based on the elevation of groundwater at Site 33. Site 33 includes the Fort Ord Golf Course area, and three wells are screened across the water table in the same hydrostratigraphic unit as what is believed to underlie Building 4110.

Layer Thickness: A layer thickness of 5 feet was selected because sampling generally occurred at 5-foot intervals. The layer is considered to represent the conditions between sampling points.

Number of Layers: Forty layers were used to represent the distance between the ground surface and the water table, based on the depth to groundwater and the thickness of each layer (40 layers by 5 feet/layer = 200 feet).

Location of Contaminant Mass: Although the maximum concentrations of each compound modeled with VLEACH were detected at a depth of 26 feet bgs, the maximum depth at which any one compound was detected was

41 feet bgs. The contaminant mass was therefore placed in the eighth cell (at 41 feet bgs), to conservatively reflect the location of contaminant mass relative to the water table.

Aquifer Selected for Modeling: The Paso Robles Aquifer was selected for modeling because it is the uppermost (i.e., shallowest) aquifer at Building 4110.

Saturated Thickness: A saturated thickness of 10 feet was selected as a conservative assumption, because so few hydrostratigraphic data exist at Building 4110. A thinner saturated thickness results in less dilution and yields higher groundwater concentrations.

Site-Specific Hydraulic Gradient: A hydraulic gradient of 0.0033 ft/ft was selected on the basis of March 1995 water-level data from Site 33. This gradient represents the nearest wells screened across the water table in the Paso Robles Aquifer and should be considered approximate. The gradient directly beneath Building 4110 may differ from this estimate. A smaller gradient is more conservative because it will allow for less dilution and thus yield higher groundwater concentrations.

Uppermost Aquifer Hydraulic Conductivity: A hydraulic conductivity of 2,780 ft/year was selected based on HLA's Draft Final Basewide Hydrogeologic Characterization (*HLA, 1994f*).

E1.2 Results of VLEACH and Groundwater Mixing Model Simulation

Table E3 is a summary of the VLEACH modeling results. Tables E4 through E11 are the individual results for the VLEACH modeling. Of the organic compounds simulated with the VLEACH and groundwater mixing models, benzene, hexane, and dodecane were found to impact groundwater within the 100 years simulated. Results of modeling suggest that the maximum concentration of dodecane would not exceed 0.01 μg/L. On the basis of limitations associated with the VLEACH and groundwater mixing models, this concentration is not considered to represent an impact to groundwater quality.

Benzene concentrations in groundwater beneath Building 4110 are expected to reach the federal and state maximum contaminant level (MCL) of 1 μg/L in 66 years. Concentrations are predicted to reach 16.8 μg/L in 100 years. Because benzene was not detected in any samples collected after removal of impacted soil at Building 4110, and because of the limitations associated with the VLEACH and groundwater mixing models (i.e., aqueous dispersion and in-situ degredation are not considered), the 100-year concentration is not anticipated to represent a significant impact to groundwater.

Hexane was used to model the aliphatic portion of the detected TPHg, using the 3.5 percent weight fraction listed in the LUFT Manual. Results of the simulation indicate that hexane would reach the water table at concentrations above 1 μg/L in 97 years and at a concentration of 1.19 μg/L in 100 years. This 100-year concentration is probably conservative based on the previously mentioned model limitations and not considered to present a significant potential impact to groundwater quality.

Table E1. VLEACH Input Parameters, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Chemical	Organic carbon - water partition coefficient, K_{oc} (ml/g)	Henry's Law Coefficient, K_h (dimensionless)	Aqueous Solubility (mg/l)	Free air diffusion coefficient (sq. m/day)	Maximum chemical concentration in cell (µg/kg)	Sample location associated with maximum concentration	Depth of max. conc. in feet below ground surface	Reaches Groundwater in 100 years?
Benzene *	65	0.203	1750	0.804	6,650	ES-4110-15	26.0	Yes
Hexane (n) *	3,150	69.10	10.5	0.630	6,650	ES-4110-15	26.0	Yes
Dodecane **	61,000	411.32	0.0084	0.4311	840,480	ES-4110-15	26.0	Yes
Chrysene **	200,000	3.90E-05	0.002	0.444	140.25	ES-4110-15	26.0	No
Naphthalene **	940	0.017	31.7	0.708	9350	ES-4110-15	26.0	No
Ethylbenzene	1,100	0.261	153	0.610	7.4	ES-4110-15	26.0	No
Toluene	120	0.268	1550	0.717	6.1	ES-4110-15	26.0	No
Xylene (p)	238	0.286	198	0.657	35	ES-4110-15	26.0	No

Vertical cell spacing (ft.)	5
Uppermost contaminated cell	8
Lowermost contaminated cell	8
Hydraulic conductivity (ft/year)	2,780
Saturated thickness (ft.)	10
Hydraulic gradient (dimensionless)	3.30E-03
Groundwater recharge rate (ft/yr)	0.386
Concentration of chemical in recharge (mg/l)	0
Timestep (years)	1
Total length (years)	100

Number of polygons	1
Polygon area (sq. ft.)	100
Layer width (ft.)	10
Depth to groundwater (ft.) :	200
Number of vertical cells	40
Soil dry bulk density (g/cc)	1.79
Total effective porosity	0.3
Volumetric moisture content	0.1484
Fraction of Organic Carbon f_{oc} (dimensionless)	0.00195

* surrogate of TPH as Gasoline (not detected in soil)

** surrogate PAH of TPH as Diesel (not detected in soil)

Table E2. Surrogate Calculation Sheet, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

TPH as Diesel		
Chemical conc.:	850 mg/kg	
Dodecane conc.:	840.48 mg/kg	840,480.00 μg/kg
Naphthalene conc.:	9.35 mg/kg	9,350.00 μg/kg
Chrysene conc.:	0.14025 mg/kg	140.25 μg/kg
Composite sum:	849.97 mg/kg	849,970.25 μg/kg

Surrogate fractions from: *Draft Technical Memorandum: Approach to Evaluating Potential Groundwater Quality Impacts, (HLA, 1993e)*

TPH as Gasoline		
Chemical conc.:	190 mg/kg	
Benzene conc.:	6.65 mg/kg	6,650.00 μg/kg
Hexane conc.:	6.65 mg/kg	6,650.00 μg/kg
Composite sum:	13.30 mg/kg	13,300.00 μg/kg

Surrogate fractions from: *Material Safety Data Sheet # 467, Automotive Gasoline, Lead-Free, issued 10/81, revision A, 9/91*
Genium Publishing Corporation

Table E3. Summary of VLEACH Modeling Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Chemical	Source Concentration (ug/kg)	Simulated Maximum Concentration in Groundwater (ug/l)	Time of Maximum Groundwater Concentration (years)	Time of Initial Groundwater Concentration[1] (years)	Concentration After 100 Years (ug/l)
Benzene **	6,650	16.8	100	33	16.8
Hexane (n) **	6,650	1.19	100	39	1.19
Dodecane *	840,480	0.0164	100	91	0.0164
Chrysene *	140.25	0.0000	NA	NA	NA
Napthalene *	9350	0.0000	NA	NA	NA
Ethyl-Benzene	7.4	0.0000	NA	NA	NA
Toluene	6.1	0.0000	NA	NA	NA
Xylene (p)	35	0.0000	NA	NA	NA

---

1 A detection limit of 0.01 ug/l is assumed.

NA Not applicable.

* Surrogate of TPH as Diesel (not detected in soil).

** Surrogate of TPH as Gasoline (not detected in soil).

Table E4. Benzene as Chemical Surrogate of TPH as Gasoline VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

$Qh = K * b * i * W$	917	cubic feet/year
$Caq = Mw / [(Qv*A) + Qh]$	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	3.00E-21	0.0000	0.0000
2	4.26E-09	0.0000	0.0000
3	1.25E-08	0.0000	0.0000
4	2.70E-08	0.0000	0.0000
5	5.11E-08	0.0000	0.0000
6	8.92E-08	0.0000	0.0000
7	1.48E-07	0.0000	0.0000
8	2.35E-07	0.0000	0.0000
9	3.62E-07	0.0000	0.0000
10	5.45E-07	0.0000	0.0000

	Contaminant	Aquifer Concentration	
Time (year)	Mass (grams)	Caq (g/ft^3)	Caq (μg/l)
11	8.03E-07	0.0000	0.0000
12	1.16E-06	0.0000	0.0000
13	1.65E-06	0.0000	0.0001
14	2.32E-06	0.0000	0.0001
15	3.22E-06	0.0000	0.0001
16	4.42E-06	0.0000	0.0002
17	6.00E-06	0.0000	0.0002
18	8.07E-06	0.0000	0.0003
19	1.08E-05	0.0000	0.0004
20	1.42E-05	0.0000	0.0005
21	1.87E-05	0.0000	0.0007
22	2.43E-05	0.0000	0.0009
23	3.15E-05	0.0000	0.0012
24	4.04E-05	0.0000	0.0015
25	5.17E-05	0.0000	0.0019
26	6.57E-05	0.0000	0.0024
27	8.30E-05	0.0000	0.0031
28	1.04E-04	0.0000	0.0039
29	1.31E-04	0.0000	0.0048
30	1.62E-04	0.0000	0.0060
31	2.01E-04	0.0000	0.0074
32	2.48E-04	0.0000	0.0092
33	3.05E-04	0.0000	0.0113
34	3.72E-04	0.0000	0.0138
35	4.53E-04	0.0000	0.0167
36	5.50E-04	0.0000	0.0203
37	6.64E-04	0.0000	0.0245
38	7.99E-04	0.0000	0.0295
39	9.57E-04	0.0000	0.0354
40	1.14E-03	0.0000	0.0422
41	1.36E-03	0.0000	0.0503
42	1.61E-03	0.0000	0.0596
43	1.91E-03	0.0000	0.0705
44	2.25E-03	0.0000	0.0830
45	2.64E-03	0.0000	0.0975
46	3.09E-03	0.0000	0.1141
47	3.61E-03	0.0000	0.1332
48	4.20E-03	0.0000	0.1550
49	4.87E-03	0.0000	0.1797
50	5.63E-03	0.0000	0.2079
51	6.49E-03	0.0000	0.2397
52	7.46E-03	0.0000	0.2757
53	8.56E-03	0.0000	0.3161
54	9.79E-03	0.0000	0.3615

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft^3)	Caq (μg/l)
55	1.12E-02	0.0000	0.4122
56	1.27E-02	0.0000	0.4689
57	1.44E-02	0.0000	0.5319
58	1.63E-02	0.0000	0.6019
59	1.84E-02	0.0000	0.6793
60	2.07E-02	0.0000	0.7648
61	2.33E-02	0.0000	0.8590
62	2.61E-02	0.0000	0.9624
63	2.91E-02	0.0000	1.0757
64	3.25E-02	0.0000	1.1996
65	3.61E-02	0.0000	1.3346
66	4.01E-02	0.0000	1.4815
67	4.44E-02	0.0000	1.6409
68	4.91E-02	0.0001	1.8135
69	5.41E-02	0.0001	1.9998
70	5.96E-02	0.0001	2.2007
71	6.54E-02	0.0001	2.4167
72	7.17E-02	0.0001	2.6484
73	7.84E-02	0.0001	2.8964
74	8.56E-02	0.0001	3.1613
75	9.32E-02	0.0001	3.4438
76	1.01E-01	0.0001	3.7442
77	1.10E-01	0.0001	4.0630
78	1.19E-01	0.0001	4.4010
79	1.29E-01	0.0001	4.7582
80	1.39E-01	0.0001	5.1350
81	1.50E-01	0.0002	5.5317
82	1.61E-01	0.0002	5.9488
83	1.73E-01	0.0002	6.3862
84	1.85E-01	0.0002	6.8442
85	1.98E-01	0.0002	7.3230
86	2.12E-01	0.0002	7.8224
87	2.26E-01	0.0002	8.3425
88	2.40E-01	0.0003	8.8826
89	2.56E-01	0.0003	9.4433
90	2.71E-01	0.0003	10.0240
91	2.88E-01	0.0003	10.6243
92	3.04E-01	0.0003	11.2441
93	3.22E-01	0.0003	11.8824
94	3.39E-01	0.0004	12.5392
95	3.58E-01	0.0004	13.2137
96	3.76E-01	0.0004	13.9049
97	3.96E-01	0.0004	14.6127

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft^3)	Caq (μg/l)
98	4.15E-01	0.0004	15.3359
99	4.35E-01	0.0005	16.0740
100	4.55E-01	0.0005	16.8257

Table E5. Hexane as Chemical Surrogate of TPH as Gasoline VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	5.66E-23	0.0000	0.0000
2	5.05E-11	0.0000	0.0000
3	3.25E-10	0.0000	0.0000
4	1.24E-09	0.0000	0.0000
5	3.63E-09	0.0000	0.0000
6	8.96E-09	0.0000	0.0000
7	1.96E-08	0.0000	0.0000
8	3.93E-08	0.0000	0.0000
9	7.34E-08	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
10	1.29E-07	0.0000	0.0000
11	2.17E-07	0.0000	0.0000
12	3.51E-07	0.0000	0.0000
13	5.47E-07	0.0000	0.0000
14	8.27E-07	0.0000	0.0000
15	1.22E-06	0.0000	0.0000
16	1.76E-06	0.0000	0.0001
17	2.48E-06	0.0000	0.0001
18	3.43E-06	0.0000	0.0001
19	4.67E-06	0.0000	0.0002
20	6.27E-06	0.0000	0.0002
21	8.29E-06	0.0000	0.0003
22	1.08E-05	0.0000	0.0004
23	1.40E-05	0.0000	0.0005
24	1.79E-05	0.0000	0.0007
25	2.27E-05	0.0000	0.0008
26	2.84E-05	0.0000	0.0010
27	3.53E-05	0.0000	0.0013
28	4.36E-05	0.0000	0.0016
29	5.34E-05	0.0000	0.0020
30	6.49E-05	0.0000	0.0024
31	7.85E-05	0.0000	0.0029
32	9.42E-05	0.0000	0.0035
33	1.12E-04	0.0000	0.0042
34	1.33E-04	0.0000	0.0049
35	1.58E-04	0.0000	0.0058
36	1.85E-04	0.0000	0.0068
37	2.17E-04	0.0000	0.0080
38	2.52E-04	0.0000	0.0093
39	2.92E-04	0.0000	0.0108
40	3.37E-04	0.0000	0.0125
41	3.88E-04	0.0000	0.0143
42	4.44E-04	0.0000	0.0164
43	5.07E-04	0.0000	0.0187
44	5.76E-04	0.0000	0.0213
45	6.53E-04	0.0000	0.0241
46	7.38E-04	0.0000	0.0272
47	8.31E-04	0.0000	0.0307
48	9.33E-04	0.0000	0.0345
49	1.04E-03	0.0000	0.0386
50	1.17E-03	0.0000	0.0431
51	1.30E-03	0.0000	0.0479
52	1.44E-03	0.0000	0.0532

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft^3)	Caq (μg/l)
53	1.60E-03	0.0000	0.0590
54	1.76E-03	0.0000	0.0652
55	1.94E-03	0.0000	0.0718
56	2.14E-03	0.0000	0.0790
57	2.35E-03	0.0000	0.0867
58	2.57E-03	0.0000	0.0950
59	2.81E-03	0.0000	0.1038
60	3.06E-03	0.0000	0.1132
61	3.34E-03	0.0000	0.1232
62	3.62E-03	0.0000	0.1339
63	3.93E-03	0.0000	0.1452
64	4.26E-03	0.0000	0.1572
65	4.60E-03	0.0000	0.1700
66	4.96E-03	0.0000	0.1834
67	5.35E-03	0.0000	0.1976
68	5.75E-03	0.0000	0.2125
69	6.18E-03	0.0000	0.2283
70	6.63E-03	0.0000	0.2448
71	7.10E-03	0.0000	0.2622
72	7.59E-03	0.0000	0.2804
73	8.11E-03	0.0000	0.2995
74	8.65E-03	0.0000	0.3194
75	9.21E-03	0.0000	0.3403
76	9.80E-03	0.0000	0.3621
77	1.04E-02	0.0000	0.3848
78	1.11E-02	0.0000	0.4084
79	1.17E-02	0.0000	0.4330
80	1.24E-02	0.0000	0.4585
81	1.31E-02	0.0000	0.4851
82	1.39E-02	0.0000	0.5127
83	1.47E-02	0.0000	0.5412
84	1.55E-02	0.0000	0.5708
85	1.63E-02	0.0000	0.6014
86	1.71E-02	0.0000	0.6330
87	1.80E-02	0.0000	0.6658
88	1.89E-02	0.0000	0.6995
89	1.99E-02	0.0000	0.7344
90	2.09E-02	0.0000	0.7703
91	2.19E-02	0.0000	0.8072
92	2.29E-02	0.0000	0.8454
93	2.39E-02	0.0000	0.8845
94	2.50E-02	0.0000	0.9248
95	2.62E-02	0.0000	0.9662

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
96	2.73E-02	0.0000	1.0087
97	2.85E-02	0.0000	1.0523
98	2.97E-02	0.0000	1.0971
99	3.09E-02	0.0000	1.1429
100	3.22E-02	0.0000	1.1899

Table E6. Dodecane as Chemical Surrogate of TPH as Diesel VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

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* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

$Qh = K * b * i * W$	917	cubic feet/year
$Caq = Mw / [(Qv*A) + Qh]$	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
1	5.59E-22	0.0000	0.0000
2	3.70E-12	0.0000	0.0000
3	1.65E-11	0.0000	0.0000
4	4.81E-11	0.0000	0.0000
5	1.14E-10	0.0000	0.0000
6	2.37E-10	0.0000	0.0000
7	4.51E-10	0.0000	0.0000
8	8.02E-10	0.0000	0.0000

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft³)	Caq (μg/l)
9	1.35E-09	0.0000	0.0000
10	2.18E-09	0.0000	0.0000
11	3.41E-09	0.0000	0.0000
12	5.15E-09	0.0000	0.0000
13	7.59E-09	0.0000	0.0000
14	1.09E-08	0.0000	0.0000
15	1.54E-08	0.0000	0.0000
16	2.14E-08	0.0000	0.0000
17	2.92E-08	0.0000	0.0000
18	3.92E-08	0.0000	0.0000
19	5.21E-08	0.0000	0.0000
20	6.83E-08	0.0000	0.0000
21	8.85E-08	0.0000	0.0000
22	1.14E-07	0.0000	0.0000
23	1.44E-07	0.0000	0.0000
24	1.82E-07	0.0000	0.0000
25	2.27E-07	0.0000	0.0000
26	2.82E-07	0.0000	0.0000
27	3.47E-07	0.0000	0.0000
28	4.25E-07	0.0000	0.0000
29	5.16E-07	0.0000	0.0000
30	6.23E-07	0.0000	0.0000
31	7.49E-07	0.0000	0.0000
32	8.94E-07	0.0000	0.0000
33	1.06E-06	0.0000	0.0000
34	1.26E-06	0.0000	0.0000
35	1.48E-06	0.0000	0.0001
36	1.74E-06	0.0000	0.0001
37	2.03E-06	0.0000	0.0001
38	2.36E-06	0.0000	0.0001
39	2.73E-06	0.0000	0.0001
40	3.15E-06	0.0000	0.0001
41	3.62E-06	0.0000	0.0001
42	4.15E-06	0.0000	0.0002
43	4.74E-06	0.0000	0.0002
44	5.40E-06	0.0000	0.0002
45	6.13E-06	0.0000	0.0002
46	6.94E-06	0.0000	0.0003
47	7.84E-06	0.0000	0.0003
48	8.83E-06	0.0000	0.0003
49	9.92E-06	0.0000	0.0004
50	1.11E-05	0.0000	0.0004
51	1.24E-05	0.0000	0.0005
52	1.38E-05	0.0000	0.0005

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft^3)	Caq (μg/l)
53	1.54E-05	0.0000	0.0006
54	1.71E-05	0.0000	0.0006
55	1.90E-05	0.0000	0.0007
56	2.10E-05	0.0000	0.0008
57	2.31E-05	0.0000	0.0009
58	2.55E-05	0.0000	0.0009
59	2.80E-05	0.0000	0.0010
60	3.07E-05	0.0000	0.0011
61	3.37E-05	0.0000	0.0012
62	3.68E-05	0.0000	0.0014
63	4.02E-05	0.0000	0.0015
64	4.38E-05	0.0000	0.0016
65	4.77E-05	0.0000	0.0018
66	5.18E-05	0.0000	0.0019
67	5.62E-05	0.0000	0.0021
68	6.09E-05	0.0000	0.0023
69	6.59E-05	0.0000	0.0024
70	7.12E-05	0.0000	0.0026
71	7.69E-05	0.0000	0.0028
72	8.28E-05	0.0000	0.0031
73	8.92E-05	0.0000	0.0033
74	9.59E-05	0.0000	0.0035
75	1.03E-04	0.0000	0.0038
76	1.10E-04	0.0000	0.0041
77	1.18E-04	0.0000	0.0044
78	1.27E-04	0.0000	0.0047
79	1.35E-04	0.0000	0.0050
80	1.45E-04	0.0000	0.0053
81	1.54E-04	0.0000	0.0057
82	1.64E-04	0.0000	0.0061
83	1.75E-04	0.0000	0.0065
84	1.86E-04	0.0000	0.0069
85	1.98E-04	0.0000	0.0073
86	2.10E-04	0.0000	0.0077
87	2.23E-04	0.0000	0.0082
88	2.36E-04	0.0000	0.0087
89	2.50E-04	0.0000	0.0092
90	2.64E-04	0.0000	0.0098
91	2.79E-04	0.0000	0.0103
92	2.95E-04	0.0000	0.0109
93	3.11E-04	0.0000	0.0115
94	3.28E-04	0.0000	0.0121
95	3.46E-04	0.0000	0.0128
96	3.64E-04	0.0000	0.0134

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	 Caq (μg/l)
97	3.83E-04	0.0000	0.0141
98	4.03E-04	0.0000	0.0149
99	4.23E-04	0.0000	0.0156
100	4.44E-04	0.0000	0.0164

Table E7. Chrysene as Chemical Surrogate of TPH as Diesel VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

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* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	7.60E-27	0.0000	0.0000
2	5.74E-24	0.0000	0.0000
3	1.15E-23	0.0000	0.0000
4	1.72E-23	0.0000	0.0000
5	2.30E-23	0.0000	0.0000
6	2.87E-23	0.0000	0.0000
7	3.44E-23	0.0000	0.0000
8	4.02E-23	0.0000	0.0000
9	4.59E-23	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft³)	Caq (µg/l)
10	5.17E-23	0.0000	0.0000
11	5.74E-23	0.0000	0.0000
12	6.32E-23	0.0000	0.0000
13	6.89E-23	0.0000	0.0000
14	7.47E-23	0.0000	0.0000
15	8.05E-23	0.0000	0.0000
16	8.62E-23	0.0000	0.0000
17	9.20E-23	0.0000	0.0000
18	9.78E-23	0.0000	0.0000
19	1.04E-22	0.0000	0.0000
20	1.09E-22	0.0000	0.0000
21	1.15E-22	0.0000	0.0000
22	1.21E-22	0.0000	0.0000
23	1.27E-22	0.0000	0.0000
24	1.32E-22	0.0000	0.0000
25	1.38E-22	0.0000	0.0000
26	1.44E-22	0.0000	0.0000
27	1.50E-22	0.0000	0.0000
28	1.56E-22	0.0000	0.0000
29	1.61E-22	0.0000	0.0000
30	1.67E-22	0.0000	0.0000
31	1.73E-22	0.0000	0.0000
32	1.79E-22	0.0000	0.0000
33	1.84E-22	0.0000	0.0000
34	1.90E-22	0.0000	0.0000
35	1.96E-22	0.0000	0.0000
36	2.02E-22	0.0000	0.0000
37	2.08E-22	0.0000	0.0000
38	2.14E-22	0.0000	0.0000
39	2.19E-22	0.0000	0.0000
40	2.25E-22	0.0000	0.0000
41	2.31E-22	0.0000	0.0000
42	2.37E-22	0.0000	0.0000
43	2.43E-22	0.0000	0.0000
44	2.48E-22	0.0000	0.0000
45	2.54E-22	0.0000	0.0000
46	2.60E-22	0.0000	0.0000
47	2.66E-22	0.0000	0.0000
48	2.72E-22	0.0000	0.0000
49	2.78E-22	0.0000	0.0000
50	2.83E-22	0.0000	0.0000
51	2.89E-22	0.0000	0.0000
52	2.95E-22	0.0000	0.0000
53	3.01E-22	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft³)	Caq (µg/l)
54	3.07E-22	0.0000	0.0000
55	3.13E-22	0.0000	0.0000
56	3.18E-22	0.0000	0.0000
57	3.24E-22	0.0000	0.0000
58	3.30E-22	0.0000	0.0000
59	3.36E-22	0.0000	0.0000
60	3.42E-22	0.0000	0.0000
61	3.48E-22	0.0000	0.0000
62	3.54E-22	0.0000	0.0000
63	3.59E-22	0.0000	0.0000
64	3.65E-22	0.0000	0.0000
65	3.71E-22	0.0000	0.0000
66	3.77E-22	0.0000	0.0000
67	3.83E-22	0.0000	0.0000
68	3.89E-22	0.0000	0.0000
69	3.95E-22	0.0000	0.0000
70	4.00E-22	0.0000	0.0000
71	4.06E-22	0.0000	0.0000
72	4.12E-22	0.0000	0.0000
73	4.18E-22	0.0000	0.0000
74	4.24E-22	0.0000	0.0000
75	4.30E-22	0.0000	0.0000
76	4.36E-22	0.0000	0.0000
77	4.42E-22	0.0000	0.0000
78	4.48E-22	0.0000	0.0000
79	4.53E-22	0.0000	0.0000
80	4.59E-22	0.0000	0.0000
81	4.65E-22	0.0000	0.0000
82	4.71E-22	0.0000	0.0000
83	4.77E-22	0.0000	0.0000
84	4.83E-22	0.0000	0.0000
85	4.89E-22	0.0000	0.0000
86	4.95E-22	0.0000	0.0000
87	5.01E-22	0.0000	0.0000
88	5.07E-22	0.0000	0.0000
89	5.12E-22	0.0000	0.0000
90	5.18E-22	0.0000	0.0000
91	5.24E-22	0.0000	0.0000
92	5.30E-22	0.0000	0.0000
93	5.36E-22	0.0000	0.0000
94	5.42E-22	0.0000	0.0000
95	5.48E-22	0.0000	0.0000
96	5.54E-22	0.0000	0.0000

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
97	5.60E-22	0.0000	0.0000
98	5.66E-22	0.0000	0.0000
99	5.72E-22	0.0000	0.0000
100	5.78E-22	0.0000	0.0000

Table E8. Napthalene as Chemical Surrogate of TPH as Diesel VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

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* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

$Qh = K * b * i * W$	917	cubic feet/year
$Caq = Mw / [(Qv*A) + Qh]$	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
1	1.03E-22	0.0000	0.0000
2	1.13E-12	0.0000	0.0000
3	2.33E-12	0.0000	0.0000
4	3.58E-12	0.0000	0.0000
5	4.90E-12	0.0000	0.0000
6	6.28E-12	0.0000	0.0000
7	7.73E-12	0.0000	0.0000
8	9.25E-12	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Caq (µg/l)
9	1.08E-11	0.0000	0.0000
10	1.25E-11	0.0000	0.0000
11	1.43E-11	0.0000	0.0000
12	1.61E-11	0.0000	0.0000
13	1.80E-11	0.0000	0.0000
14	2.00E-11	0.0000	0.0000
15	2.21E-11	0.0000	0.0000
16	2.44E-11	0.0000	0.0000
17	2.67E-11	0.0000	0.0000
18	2.91E-11	0.0000	0.0000
19	3.16E-11	0.0000	0.0000
20	3.43E-11	0.0000	0.0000
21	3.70E-11	0.0000	0.0000
22	3.99E-11	0.0000	0.0000
23	4.29E-11	0.0000	0.0000
24	4.61E-11	0.0000	0.0000
25	4.94E-11	0.0000	0.0000
26	5.28E-11	0.0000	0.0000
27	5.64E-11	0.0000	0.0000
28	6.01E-11	0.0000	0.0000
29	6.40E-11	0.0000	0.0000
30	6.81E-11	0.0000	0.0000
31	7.24E-11	0.0000	0.0000
32	7.68E-11	0.0000	0.0000
33	8.14E-11	0.0000	0.0000
34	8.62E-11	0.0000	0.0000
35	9.13E-11	0.0000	0.0000
36	9.65E-11	0.0000	0.0000
37	1.02E-10	0.0000	0.0000
38	1.08E-10	0.0000	0.0000
39	1.14E-10	0.0000	0.0000
40	1.20E-10	0.0000	0.0000
41	1.26E-10	0.0000	0.0000
42	1.33E-10	0.0000	0.0000
43	1.40E-10	0.0000	0.0000
44	1.47E-10	0.0000	0.0000
45	1.55E-10	0.0000	0.0000
46	1.62E-10	0.0000	0.0000
47	1.71E-10	0.0000	0.0000
48	1.79E-10	0.0000	0.0000
49	1.88E-10	0.0000	0.0000
50	1.97E-10	0.0000	0.0000
51	2.07E-10	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	 Caq (μg/l)
52	2.17E-10	0.0000	0.0000
53	2.27E-10	0.0000	0.0000
54	2.38E-10	0.0000	0.0000
55	2.49E-10	0.0000	0.0000
56	2.60E-10	0.0000	0.0000
57	2.72E-10	0.0000	0.0000
58	2.85E-10	0.0000	0.0000
59	2.98E-10	0.0000	0.0000
60	3.11E-10	0.0000	0.0000
61	3.25E-10	0.0000	0.0000
62	3.40E-10	0.0000	0.0000
63	3.55E-10	0.0000	0.0000
64	3.71E-10	0.0000	0.0000
65	3.87E-10	0.0000	0.0000
66	4.04E-10	0.0000	0.0000
67	4.22E-10	0.0000	0.0000
68	4.40E-10	0.0000	0.0000
69	4.59E-10	0.0000	0.0000
70	4.78E-10	0.0000	0.0000
71	4.99E-10	0.0000	0.0000
72	5.20E-10	0.0000	0.0000
73	5.42E-10	0.0000	0.0000
74	5.64E-10	0.0000	0.0000
75	5.88E-10	0.0000	0.0000
76	6.12E-10	0.0000	0.0000
77	6.38E-10	0.0000	0.0000
78	6.64E-10	0.0000	0.0000
79	6.91E-10	0.0000	0.0000
80	7.20E-10	0.0000	0.0000
81	7.49E-10	0.0000	0.0000
82	7.79E-10	0.0000	0.0000
83	8.11E-10	0.0000	0.0000
84	8.43E-10	0.0000	0.0000
85	8.77E-10	0.0000	0.0000
86	9.12E-10	0.0000	0.0000
87	9.48E-10	0.0000	0.0000
88	9.86E-10	0.0000	0.0000
89	1.02E-09	0.0000	0.0000
90	1.07E-09	0.0000	0.0000
91	1.11E-09	0.0000	0.0000
92	1.15E-09	0.0000	0.0000
93	1.19E-09	0.0000	0.0000
94	1.24E-09	0.0000	0.0000

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Caq (μg/l)
95	1.29E-09	0.0000	0.0000
96	1.34E-09	0.0000	0.0000
97	1.39E-09	0.0000	0.0000
98	1.44E-09	0.0000	0.0000
99	1.50E-09	0.0000	0.0000
100	1.56E-09	0.0000	0.0000

Table E9. Ethyl-Benzene VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

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* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
1	3.28E-31	0.0000	0.0000
2	4.02E-21	0.0000	0.0000
3	9.04E-21	0.0000	0.0000
4	1.52E-20	0.0000	0.0000
5	2.27E-20	0.0000	0.0000
6	3.16E-20	0.0000	0.0000
7	4.23E-20	0.0000	0.0000
8	5.49E-20	0.0000	0.0000
9	6.96E-20	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft^3)	Aquifer Concentration Caq (μg/l)
10	8.68E-20	0.0000	0.0000
11	1.07E-19	0.0000	0.0000
12	1.30E-19	0.0000	0.0000
13	1.56E-19	0.0000	0.0000
14	1.86E-19	0.0000	0.0000
15	2.21E-19	0.0000	0.0000
16	2.60E-19	0.0000	0.0000
17	3.05E-19	0.0000	0.0000
18	3.55E-19	0.0000	0.0000
19	4.12E-19	0.0000	0.0000
20	4.76E-19	0.0000	0.0000
21	5.48E-19	0.0000	0.0000
22	6.29E-19	0.0000	0.0000
23	7.19E-19	0.0000	0.0000
24	8.20E-19	0.0000	0.0000
25	9.33E-19	0.0000	0.0000
26	1.06E-18	0.0000	0.0000
27	1.20E-18	0.0000	0.0000
28	1.35E-18	0.0000	0.0000
29	1.52E-18	0.0000	0.0000
30	1.71E-18	0.0000	0.0000
31	1.92E-18	0.0000	0.0000
32	2.15E-18	0.0000	0.0000
33	2.41E-18	0.0000	0.0000
34	2.69E-18	0.0000	0.0000
35	3.00E-18	0.0000	0.0000
36	3.34E-18	0.0000	0.0000
37	3.71E-18	0.0000	0.0000
38	4.12E-18	0.0000	0.0000
39	4.57E-18	0.0000	0.0000
40	5.06E-18	0.0000	0.0000
41	5.59E-18	0.0000	0.0000
42	6.18E-18	0.0000	0.0000
43	6.82E-18	0.0000	0.0000
44	7.52E-18	0.0000	0.0000
45	8.28E-18	0.0000	0.0000
46	9.11E-18	0.0000	0.0000
47	1.00E-17	0.0000	0.0000
48	1.10E-17	0.0000	0.0000
49	1.21E-17	0.0000	0.0000
50	1.32E-17	0.0000	0.0000
51	1.45E-17	0.0000	0.0000
52	1.59E-17	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Caq (µg/l)
53	1.73E-17	0.0000	0.0000
54	1.89E-17	0.0000	0.0000
55	2.07E-17	0.0000	0.0000
56	2.26E-17	0.0000	0.0000
57	2.46E-17	0.0000	0.0000
58	2.68E-17	0.0000	0.0000
59	2.92E-17	0.0000	0.0000
60	3.18E-17	0.0000	0.0000
61	3.46E-17	0.0000	0.0000
62	3.76E-17	0.0000	0.0000
63	4.08E-17	0.0000	0.0000
64	4.43E-17	0.0000	0.0000
65	4.80E-17	0.0000	0.0000
66	5.21E-17	0.0000	0.0000
67	5.64E-17	0.0000	0.0000
68	6.11E-17	0.0000	0.0000
69	6.61E-17	0.0000	0.0000
70	7.16E-17	0.0000	0.0000
71	7.74E-17	0.0000	0.0000
72	8.36E-17	0.0000	0.0000
73	9.03E-17	0.0000	0.0000
74	9.75E-17	0.0000	0.0000
75	1.05E-16	0.0000	0.0000
76	1.14E-16	0.0000	0.0000
77	1.22E-16	0.0000	0.0000
78	1.32E-16	0.0000	0.0000
79	1.42E-16	0.0000	0.0000
80	1.53E-16	0.0000	0.0000
81	1.65E-16	0.0000	0.0000
82	1.77E-16	0.0000	0.0000
83	1.91E-16	0.0000	0.0000
84	2.05E-16	0.0000	0.0000
85	2.20E-16	0.0000	0.0000
86	2.36E-16	0.0000	0.0000
87	2.54E-16	0.0000	0.0000
88	2.73E-16	0.0000	0.0000
89	2.92E-16	0.0000	0.0000
90	3.14E-16	0.0000	0.0000
91	3.36E-16	0.0000	0.0000
92	3.60E-16	0.0000	0.0000
93	3.86E-16	0.0000	0.0000
94	4.14E-16	0.0000	0.0000
95	4.43E-16	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
96	4.74E-16	0.0000	0.0000
97	5.07E-16	0.0000	0.0000
98	5.42E-16	0.0000	0.0000
99	5.80E-16	0.0000	0.0000
100	6.20E-16	0.0000	0.0000

Table E10. Toluene VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	1.79E-30	0.0000	0.0000
2	2.75E-18	0.0000	0.0000
3	9.65E-18	0.0000	0.0000
4	2.44E-17	0.0000	0.0000
5	5.32E-17	0.0000	0.0000
6	1.06E-16	0.0000	0.0000
7	1.98E-16	0.0000	0.0000
8	3.53E-16	0.0000	0.0000
9	6.08E-16	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
10	1.02E-15	0.0000	0.0000
11	1.66E-15	0.0000	0.0000
12	2.64E-15	0.0000	0.0000
13	4.14E-15	0.0000	0.0000
14	6.38E-15	0.0000	0.0000
15	9.69E-15	0.0000	0.0000
16	1.45E-14	0.0000	0.0000
17	2.15E-14	0.0000	0.0000
18	3.15E-14	0.0000	0.0000
19	4.57E-14	0.0000	0.0000
20	6.56E-14	0.0000	0.0000
21	9.34E-14	0.0000	0.0000
22	1.32E-13	0.0000	0.0000
23	1.85E-13	0.0000	0.0000
24	2.57E-13	0.0000	0.0000
25	3.56E-13	0.0000	0.0000
26	4.89E-13	0.0000	0.0000
27	6.68E-13	0.0000	0.0000
28	9.06E-13	0.0000	0.0000
29	1.22E-12	0.0000	0.0000
30	1.64E-12	0.0000	0.0000
31	2.20E-12	0.0000	0.0000
32	2.92E-12	0.0000	0.0000
33	3.86E-12	0.0000	0.0000
34	5.09E-12	0.0000	0.0000
35	6.68E-12	0.0000	0.0000
36	8.72E-12	0.0000	0.0000
37	1.13E-11	0.0000	0.0000
38	1.47E-11	0.0000	0.0000
39	1.90E-11	0.0000	0.0000
40	2.44E-11	0.0000	0.0000
41	3.13E-11	0.0000	0.0000
42	4.00E-11	0.0000	0.0000
43	5.09E-11	0.0000	0.0000
44	6.46E-11	0.0000	0.0000
45	8.17E-11	0.0000	0.0000
46	1.03E-10	0.0000	0.0000
47	1.29E-10	0.0000	0.0000
48	1.62E-10	0.0000	0.0000
49	2.03E-10	0.0000	0.0000
50	2.53E-10	0.0000	0.0000
51	3.14E-10	0.0000	0.0000
52	3.89E-10	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
53	4.81E-10	0.0000	0.0000
54	5.93E-10	0.0000	0.0000
55	7.30E-10	0.0000	0.0000
56	8.95E-10	0.0000	0.0000
57	1.10E-09	0.0000	0.0000
58	1.34E-09	0.0000	0.0000
59	1.63E-09	0.0000	0.0000
60	1.98E-09	0.0000	0.0000
61	2.40E-09	0.0000	0.0000
62	2.91E-09	0.0000	0.0000
63	3.51E-09	0.0000	0.0000
64	4.23E-09	0.0000	0.0000
65	5.08E-09	0.0000	0.0000
66	6.10E-09	0.0000	0.0000
67	7.30E-09	0.0000	0.0000
68	8.72E-09	0.0000	0.0000
69	1.04E-08	0.0000	0.0000
70	1.24E-08	0.0000	0.0000
71	1.47E-08	0.0000	0.0000
72	1.74E-08	0.0000	0.0000
73	2.07E-08	0.0000	0.0000
74	2.44E-08	0.0000	0.0000
75	2.88E-08	0.0000	0.0000
76	3.39E-08	0.0000	0.0000
77	3.98E-08	0.0000	0.0000
78	4.67E-08	0.0000	0.0000
79	5.48E-08	0.0000	0.0000
80	6.41E-08	0.0000	0.0000
81	7.48E-08	0.0000	0.0000
82	8.72E-08	0.0000	0.0000
83	1.01E-07	0.0000	0.0000
84	1.18E-07	0.0000	0.0000
85	1.37E-07	0.0000	0.0000
86	1.59E-07	0.0000	0.0000
87	1.83E-07	0.0000	0.0000
88	2.12E-07	0.0000	0.0000
89	2.45E-07	0.0000	0.0000
90	2.82E-07	0.0000	0.0000
91	3.24E-07	0.0000	0.0000
92	3.72E-07	0.0000	0.0000
93	4.27E-07	0.0000	0.0000
94	4.89E-07	0.0000	0.0000
95	5.59E-07	0.0000	0.0000

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft^3)	Caq (μg/l)
96	6.39E-07	0.0000	0.0000
97	7.29E-07	0.0000	0.0000
98	8.31E-07	0.0000	0.0000
99	9.46E-07	0.0000	0.0000
100	1.08E-06	0.0000	0.0000

Table E11. Xylene VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

$Qh = K * b * i * W$	917	cubic feet/year
$Caq = Mw / [(Qv*A) + Qh]$	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft^3)	Aquifer Concentration Caq (μg/l)
1	6.12E-30	0.0000	0.0000
2	1.26E-18	0.0000	0.0000
3	3.76E-18	0.0000	0.0000
4	8.24E-18	0.0000	0.0000
5	1.57E-17	0.0000	0.0000
6	2.78E-17	0.0000	0.0000
7	4.63E-17	0.0000	0.0000
8	7.42E-17	0.0000	0.0000
9	1.15E-16	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Caq (µg/l)
10	1.75E-16	0.0000	0.0000
11	2.59E-16	0.0000	0.0000
12	3.78E-16	0.0000	0.0000
13	5.42E-16	0.0000	0.0000
14	7.67E-16	0.0000	0.0000
15	1.07E-15	0.0000	0.0000
16	1.49E-15	0.0000	0.0000
17	2.04E-15	0.0000	0.0000
18	2.77E-15	0.0000	0.0000
19	3.73E-15	0.0000	0.0000
20	5.00E-15	0.0000	0.0000
21	6.64E-15	0.0000	0.0000
22	8.77E-15	0.0000	0.0000
23	1.15E-14	0.0000	0.0000
24	1.50E-14	0.0000	0.0000
25	1.95E-14	0.0000	0.0000
26	2.52E-14	0.0000	0.0000
27	3.24E-14	0.0000	0.0000
28	4.15E-14	0.0000	0.0000
29	5.29E-14	0.0000	0.0000
30	6.72E-14	0.0000	0.0000
31	8.50E-14	0.0000	0.0000
32	1.07E-13	0.0000	0.0000
33	1.34E-13	0.0000	0.0000
34	1.68E-13	0.0000	0.0000
35	2.10E-13	0.0000	0.0000
36	2.61E-13	0.0000	0.0000
37	3.24E-13	0.0000	0.0000
38	4.00E-13	0.0000	0.0000
39	4.93E-13	0.0000	0.0000
40	6.07E-13	0.0000	0.0000
41	7.44E-13	0.0000	0.0000
42	9.10E-13	0.0000	0.0000
43	1.11E-12	0.0000	0.0000
44	1.35E-12	0.0000	0.0000
45	1.64E-12	0.0000	0.0000
46	1.99E-12	0.0000	0.0000
47	2.40E-12	0.0000	0.0000
48	2.90E-12	0.0000	0.0000
49	3.49E-12	0.0000	0.0000
50	4.20E-12	0.0000	0.0000
51	5.03E-12	0.0000	0.0000
52	6.02E-12	0.0000	0.0000
53	7.19E-12	0.0000	0.0000
54	8.58E-12	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Caq (µg/l)
55	1.02E-11	0.0000	0.0000
56	1.21E-11	0.0000	0.0000
57	1.44E-11	0.0000	0.0000
58	1.70E-11	0.0000	0.0000
59	2.01E-11	0.0000	0.0000
60	2.38E-11	0.0000	0.0000
61	2.80E-11	0.0000	0.0000
62	3.30E-11	0.0000	0.0000
63	3.87E-11	0.0000	0.0000
64	4.54E-11	0.0000	0.0000
65	5.32E-11	0.0000	0.0000
66	6.22E-11	0.0000	0.0000
67	7.27E-11	0.0000	0.0000
68	8.48E-11	0.0000	0.0000
69	9.88E-11	0.0000	0.0000
70	1.15E-10	0.0000	0.0000
71	1.33E-10	0.0000	0.0000
72	1.55E-10	0.0000	0.0000
73	1.79E-10	0.0000	0.0000
74	2.08E-10	0.0000	0.0000
75	2.40E-10	0.0000	0.0000
76	2.77E-10	0.0000	0.0000
77	3.19E-10	0.0000	0.0000
78	3.68E-10	0.0000	0.0000
79	4.23E-10	0.0000	0.0000
80	4.86E-10	0.0000	0.0000
81	5.58E-10	0.0000	0.0000
82	6.40E-10	0.0000	0.0000
83	7.33E-10	0.0000	0.0000
84	8.38E-10	0.0000	0.0000
85	9.58E-10	0.0000	0.0000
86	1.09E-09	0.0000	0.0000
87	1.25E-09	0.0000	0.0000
88	1.42E-09	0.0000	0.0000
89	1.62E-09	0.0000	0.0000
90	1.84E-09	0.0000	0.0000
91	2.09E-09	0.0000	0.0000
92	2.37E-09	0.0000	0.0000
93	2.69E-09	0.0000	0.0000
94	3.04E-09	0.0000	0.0000
95	3.44E-09	0.0000	0.0000
96	3.89E-09	0.0000	0.0000
97	4.39E-09	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
98	4.96E-09	0.0000	0.0000
99	5.59E-09	0.0000	0.0000
100	6.30E-09	0.0000	0.0000

APPENDIX F

APPENDIX F

DATA VALIDATION RESULTS

APPENDIX F

CONTENTS

TABLES

APPENDIX F

DATA VALIDATION RESULTS

F1.0 QUALITY CONTROL SUMMARY REPORT - BUILDING 4107

Analytical results from Building 4107 at Fort Ord were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). The validation evaluated the quality of the data with respect to a set of QC criteria, including precision, accuracy, representativeness, and completeness. The QC samples used to assess data quality consisted of laboratory duplicate samples, matrix spike/matrix spike duplicates (MS/MSD), laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and method blanks. Holding times and laboratory surrogate spike recoveries were also evaluated. The following quality control summary report documents the findings of the data validation. Attached to this appendix are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results and data qualifiers applied to sample results.

F1.1 Analytical Summary

During 1993, soil samples were collected and submitted to Quanterra Environmental Services, West Sacramento, California, for analysis. Soil samples collected in 1994 were analyzed by Onsite Environmental Laboratories at a mobile laboratory at Fort Ord. Table F1 lists identifiers for the samples collected at Building 4107 between November 1, 1993, and July 29, 1994.

The following tests were performed. Not all analyses were requested for all samples.

- EPA Test Method 8020 - benzene, toluene, ethylbenzene and xylenes (BTEX)
- EPA Test Method 8015, modified - volatile petroleum hydrocarbons as gasoline
- EPA Test Method 8015, modified - extractable petroleum hydrocarbons as diesel
- Test Method SM5520 - oil and grease
- EPA Test Method 7421 - lead by Graphite Furnace Atomic Absorption (GFAA).

F1.2 Data Validation Results

The following section discusses only those QA/QC results that were outside of acceptance criteria and data qualifiers that were applied as a result of the QA/QC exceedance(s), and potential impacts on data usability. QA/QC results are not mentioned in the following section if results were within acceptance criteria.

EPA Test Method 8020 - BTEX

The surrogate recoveries in four samples were above the control limits. Reextraction and reanalysis were not performed. The associated detected results were qualified as estimated (J+). Two of the four high surrogate recoveries are attributable to high levels of petroleum hydrocarbons in the sample that appear to have interfered with the analysis. High spike recoveries suggest a matrix effect that could lead to an overestimation of the amount of the target analytes in the samples. Detected results in 4 out of 22 samples were qualified. One analytical batch containing six samples was analyzed without an MS/MSD.

EPA Test Method 8015, modified (Gasoline)

The surrogate recoveries in four samples were above the control limits and reextraction and reanalysis were not performed. The associated detected results were qualified as estimated (J+). High spike recoveries suggest a matrix effect that could lead to an overestimation of the amount of the target analytes in the samples. Detected results in 4 out of 22 samples were qualified. One analytical batch containing four samples was analyzed without an LCS.

F1.3 Data Quality

The following data quality section discusses the precision, accuracy, representativeness, and completeness of the Building 4107 data.

F1.3.1 Precision and Accuracy

Precision and accuracy were evaluated during data validation by evaluating the results of LCS/LCSD recoveries and relative percent difference (RPD) calculations, surrogate compound recoveries, MS/MSD recoveries and RPD calculations, and laboratory duplicate results. In addition, the results of laboratory method blanks and calibration blanks were reviewed for evidence of contamination. No target analytes were detected in any field or laboratory blank samples.

Detected results for TPHg and BTEX in four samples were qualified as estimated because of surrogate spike recovery exceedances. The detected results may overestimate the true amount of the analyte present in the sample; however, it is not likely that false positives were reported. One analytical batch containing six samples for BTEX analysis was analyzed without an MS/MSD. Precision and accuracy for these samples were evaluated using surrogate and LCS results. One analytical batch containing four samples for TPHg was analyzed without an LCS. Precision and accuracy for these samples were evaluated using surrogate and MS/MSD results.

F1.3.2 Representativeness

Representativeness is a parameter that provides the data user with a degree of assurance that samples were collected and handled using appropriate procedures, and therefore are representative of site conditions. Based on the review of the work plan, field notes and observations, chain of custody information, and cooler receipt forms, the correct sampling procedures were followed. Sample preservation and holding time requirements were also met.

F1.3.3 Completeness

Completeness is defined as the ratio of the number of acceptable analytical results obtained to the total number of analytical results that were anticipated and reported. An analytical result is a reported value for an analyte expressed either as a detected concentration or nondetected at the reporting limit. Completeness of the data was evaluated for each test method in the following manner.

Analytical completeness is a measure of the amount of data that was determined during the data validation to be acceptable for the intended purposes. The analytical completeness requirement for the project is 85 percent. An analytical result is unacceptable in the analytical completeness evaluation if:

- The analytical result was from a sample for which the holding time criterion was not met (H-qualifer).
- The analytical result was qualified as rejected (R-qualifer).

Analytical completeness values for each test method are presented in Table F2. The 85 percent criterion for analytical completeness was met for all test methods.

F1.4 Recommendations for Corrective Action

- The laboratory has been notified that samples must be reanalyzed when out-of-control surrogate recoveries are observed
- The laboratory has been notified that MS/MSD and LCS analyses must be performed for each analytical batch.

F2.0 QUALITY CONTROL SUMMARY REPORT - BUILDING 4110

Analytical results from Building 4110 at Fort Ord were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). The validation evaluated the quality of the data with respect to a set of QC criteria, including precision, accuracy, representativeness, and completeness. The QC samples used to assess data quality consisted of laboratory duplicate samples, MS/MSD, LCS/LCSD, method blanks, calibration blanks, equipment blanks, and trip blanks. Holding times and laboratory surrogate spike recoveries were also evaluated. The following quality control summary report documents the findings of the data validation. Attached to this appendix are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results and data qualifiers applied to sample results.

F2.1 Analytical Summary

During the 1993 and 1995 sampling events, soil samples were collected and submitted to Quanterra Environmental Services, West Sacramento, California, for analysis. Soil samples collected in 1994 were analyzed by Onsite Environmental Laboratories at a mobile laboratory at Fort Ord. Table F1 lists identifiers for the samples collected at Building 4110 between October 28, 1993 and January 27, 1995.

The following test methods were performed. Not all analyses were requested for all samples.

- EPA Test Method 8020 - BTEX
- EPA Test Method 8015, modified - volatile petroleum hydrocarbons as gasoline
- EPA Test Method 8015, modified - extractable petroleum hydrocarbons as diesel
- EPA Test Method 7421 - lead by Graphite Furnace Atomic Absorption (GFAA)
- EPA Test Method 7420, modified - organic lead.

F2.2 Data Validation Results

The following section discusses only those QA/QC results that were outside of acceptance criteria and data qualifiers that were applied as a result of the QA/QC exceedance(s), and potential impacts on data usability. QA/QC results are not mentioned in the following section if results were within acceptance criteria.

<u>EPA Test Method 8020 - BTEX</u>

The surrogate recoveries in two samples were below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 2 out of 66 samples were qualified.

The LCS recoveries for benzene, toluene, ethylbenzene, and xylenes in one analytical batch were below the control limits. Reextraction and reanalysis were apparently not performed. The associated detected results were qualified as estimated (J-). Low spike recoveries suggest a bias in the analytical system that could lead to an underestimation of the amount of the target analytes in the samples. The following results were qualified:

- Benzene, toluene, ethylbenzene, and xylenes in 2 of 66 samples.

The LCS/LCSD RPD for benzene, toluene, ethylbenzene, and xylenes did not meet the criteria for acceptability in all cases. The associated detected results were qualified as estimated (J). Benzene was nondetected in the associated samples. Because the RPD exceedances involved poor agreement among two detected values, detected sample results are not likely to be false positives. The following results were qualified:

- Toluene, ethylbenzene, and xylenes in 2 of 66 samples.

EPA Test Method 8015, modified (Gasoline)

The surrogate recoveries in two samples were below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 2 out of 66 samples were qualified.

EPA Test Method 8015, modified (Diesel)

Twenty-five samples were analyzed without the required surrogate spikes.

EPA Test Method 7421 - Lead

Lead was detected below the reporting limit in method and calibration blanks. Detected sample results were qualified as nondetected (U) if they were reported at concentrations less than or equal to five times the highest concentration observed in the associated blank. The following results were qualified:

- Lead in 11 of 29 samples; 11 results were above the reporting limit.

The LCS recoveries for lead in two analytical batches were above the control limits. Apparently, no reextraction and reanalysis was performed. The associated detected results were qualified as estimated (J+). High spike recoveries suggest a bias in the analytical system that could lead to an overestimation of the amount of the target analytes in the samples. The following results were qualified:

- Lead in 10 of 29 samples.

F2.3 Data Quality

The following data quality section reviews the precision, accuracy, representativeness, and completeness of the Building 4110 data. Results of the data validation indicate that the data are usable.

F2.3.1 Precision and Accuracy

Precision and accuracy were evaluated during data validation by evaluating the results of LCS/LCSD recoveries and RPD calculations, surrogate compound recoveries, MS/MSD recoveries and RPD calculations, and laboratory duplicate results. In addition, the results of laboratory method blanks, calibration blanks, an equipment blank, and a trip blank were reviewed for evidence of contamination.

The following results were qualified as nondetected, with elevated reporting limits, because of low-level method blank or calibration blank contamination.

- Lead in 11 of 29 samples.

Detected and nondetected results were also qualified as estimated because of spike recovery or LCS/LCSD RPD exceedances that were not severe. The detected results may underestimate or overestimate the true amount of the analyte present in the sample, depending on the type and direction of the exceedance. It is not likely, however, that false negatives or false positives were reported. MS/MSD analyses were not required or performed on the analytical batch created for aqueous QC blank samples; these QC samples were collected to monitor soil sampling activities.

The mobile laboratory analyzed 25 samples for diesel without the required surrogate spikes. Accuracy was evaluated using the results of LCS and MS/MSD recoveries. Because these accuracy criteria were met, sample results were not qualified.

F2.3.2 Representativeness

Representativeness is a parameter that provides the data user with a degree of assurance that samples were collected and handled using appropriate procedures, and therefore are representative of site conditions. Based on the review of the work plan, field notes and observations, chain of custody information, and cooler receipt forms, the correct sampling procedures were followed. Sample preservation and holding time requirements were also met.

F2.3.3 Completeness

Completeness is defined as the ratio of the number of acceptable analytical results obtained to the total number of analytical results that were anticipated and reported. An analytical result is a reported value for an analyte expressed either as a detected concentration or nondetected at the reporting limit. Completeness of the data was evaluated for each test method in the following manner.

Analytical completeness is a measure of the amount of data that was determined during the data validation to be acceptable for the intended purposes. The analytical completeness requirement for the project is 85 percent. An analytical result is unacceptable in the analytical completeness evaluation if:

- The analytical result was from a sample for which the holding time criterion was not met (H-qualifer).
- The analytical result was qualified as rejected (R-qualifer).

Analytical completeness values for each test method are indicated in Table F2. The 85 percent criterion for analytical completeness was met for all test methods

F2.4 Recommendations for Corrective Action

- The laboratory has been notified that LCS/LCSD criteria must be met before an analysis can proceed
- The laboratory has been notified that matrix spikes must be reanalyzed when out-of-control recoveries are observed.

F3.0 QUALITY CONTROL SUMMARY REPORT - BUILDING 4590

Analytical results from Building 4590 at Fort Ord were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). The validation evaluated the quality of the data with respect to a set of QC criteria, including precision, accuracy, representativeness, and completeness. The QC samples used to assess data quality consisted of laboratory duplicate samples, MS/MSD, LCS/LCSD, method blanks, calibration blanks, equipment blanks, field water blanks, and trip blanks. Holding times and laboratory surrogate spike recoveries were also evaluated. The following quality control summary report documents the findings of the data validation. Attached to this appendix are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results and data qualifiers applied to sample results.

F3.1 Analytical Summary

During the 1993 sampling events, soil samples were collected and submitted to Quanterra Environmental Services, West Sacramento, California, for analysis. Table F1 lists identifiers for the samples collected at Building 4590 between October 12 and 21, 1993.

The following test methods were performed. Not all analyses were requested for all samples.

- EPA Test Method 8020 - BTEX
- EPA Test Method 8015, modified - volatile petroleum hydrocarbons as gasoline
- EPA Test Method 8015, modified - extractable petroleum hydrocarbons as diesel
- EPA Test Method 7421 - lead by Graphite Furnace Atomic Absorption (GFAA).

F3.2 Data Validation Results

The following section discusses only those QA/QC results that were outside of acceptance criteria and data qualifiers that were applied as a result of the QA/QC exceedance(s), and potential impacts on data usability. QA/QC results are not mentioned in the following section if results were within acceptance criteria.

EPA Test Method 8020 - BTEX

The surrogate recovery in one sample was below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 1 out of 31 samples were qualified.

EPA Test Method 8015, modified (Gasoline)

The surrogate recovery in one sample was below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 1 out of 31 samples were qualified.

EPA Test Method 7421 - Lead

Lead was detected below the reporting limit in calibration blanks. Detected sample results were qualified as nondetected (U) if they were reported at concentrations less than or equal to five times the highest concentration observed in the associated blank. The following results were qualified:

- Lead in 25 of 30 samples; 25 results were above the reporting limit.

F3.3 Data Quality

The following data quality section discusses the precision, accuracy, representativeness, and completeness of the Building 4590 data. Results of the data validation indicate that the data are usable.

F3.3.1 Precision and Accuracy

Precision and accuracy were evaluated during data validation by evaluating results of LCS/LCSD recoveries and RPD calculations, surrogate compound recoveries, MS/MSD recoveries and RPD calculations, and laboratory duplicate results. In addition, the results of laboratory method blanks, calibration blanks, equipment blanks, a field water blank, and a trip blank were reviewed for evidence of contamination. MS/MSD analyses were not required or performed on the analytical batch created for aqueous QC blank samples; these QC samples were collected to monitor soil sampling activities.

The following results were qualified as nondetected, with elevated reporting limits, because of low-level method blank or calibration blank contamination.

- Lead in 25 of 30 samples.

Numerous detected and nondetected results were also qualified as estimated because of spike recovery exceedances that were not severe. The detected results may underestimate or overestimate the true amount of the analyte present in the sample, depending on the type and direction of the exceedance. It is not likely, however, that false negatives or false positives were reported.

F3.3.2 Representativeness

Representativeness is a parameter that provides the data user with a degree of assurance that samples were collected and handled using appropriate procedures, and therefore are representative of site conditions. Based on the review of the work plan, field notes and observations, chain of custody information, and cooler receipt forms, the correct sampling procedures were followed. Sample preservation and holding time requirements were also met.

F3.3.3 Completeness

Completeness is defined as the ratio of the number of acceptable analytical results obtained to the total number of analytical results that were anticipated and reported. An analytical result is a reported value for an analyte expressed either as a detected concentration or nondetected at the reporting limit. Completeness of the data was evaluated for each test method in the following manner.

Analytical completeness is a measure of the amount of data that was determined during the data validation to be acceptable for the intended purposes. The analytical completeness requirement for the project is 85 percent. An analytical result is unacceptable in the analytical completeness evaluation if:

- The analytical result was from a sample for which the holding time criterion was not met (H-qualifer).
- The analytical result was qualified as rejected (R-qualifer).

Analytical completeness values for each test method are indicated in Table F2. The 85 percent criterion for analytical completeness was met for all test methods

F3.4 Recommendations for Corrective Action

The laboratory has been notified that reextraction and reanalysis shall be performed when QA/QC criteria are not met.

F4.0 QUALITY CONTROL SUMMARY REPORT - FACILITY 2754

Analytical results from Facility 2754 at Fort Ord were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). The validation evaluated the quality of the data with respect to a set of QC criteria, including precision, accuracy, representativeness, and completeness. The QC samples used to assess data quality consisted of laboratory duplicate samples, MS/MSD, LCS/LCSD, field duplicate samples, method blanks, calibration blanks, and trip blanks. Holding times and laboratory surrogate spike recoveries were also evaluated. The following quality control summary report documents the findings of the data validation. Attached to this appendix are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results and data qualifiers applied to sample results.

F4.1 Analytical Summary

During 1993, 1994, and 1995, soil samples were collected and submitted to Quanterra Environmental Services, West Sacramento, California, for analysis. During 1996, soil samples were collected and submitted to Agriculture and Priority Pollutant Laboratories, Inc., (APPL), Fresno, California, for analysis. Table F1 lists identifiers for the samples collected at Facility 2754 between November 2, 1993, and January 17, 1996.

The following test methods were performed. Not all analyses were requested for all samples.

- EPA Test Method 8020 - BTEX
- EPA Test Method 8015, modified - volatile petroleum hydrocarbons as gasoline
- EPA Test Method 8015, modified - extractable petroleum hydrocarbons as diesel
- EPA Test Method 8240 - volatile organic compounds (VOCs)
- EPA Test Method 8270 - polycyclic aromatic hydrocarbons (PAHs)
- EPA Test Method 6010 - cadmium, chromium, lead, nickel, and zinc by Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- EPA Test Method 7421 - lead by Graphite Furnace Atomic Absorption (GFAA)
- EPA Test Method 7420, modified - organic lead.

F4.2 Data Validation Results

The following section discusses only these QA/QC results that were outside of acceptance criteria and data qualifiers that were applied as a result of the QA/QC exceedance(s), and potential impacts on data usability. QA/QC results are not mentioned in the following section if results were within acceptance criteria.

<u>EPA Test Method 8020 - BTEX</u>

The surrogate recovery in one sample was below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 1 out of 21 samples were qualified.

<u>EPA Test Method 8015, modified (Gasoline)</u>

The surrogate recoveries in three samples were below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 3 out of 46 samples were qualified.

<u>EPA Test Method 8015, modified (Diesel)</u>

The surrogate recovery in one sample was below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 1 out of 43 samples were qualified.

EPA Test Method 8240 - VOCs

Acetone, methylene chloride, and methyl ethyl ketone were detected between one and five times the reporting limit in the method blanks. Because these compounds are recognized as common laboratory contaminants, detected sample results were qualified as nondetected (U) if they were reported at concentrations less than or equal to ten times the highest concentration observed in the associated blank. The following results were qualified:

- Acetone in 8 of 29 samples; three results were above the reporting limit
- Methylene chloride in 7 of 29 samples; one result was above the reporting limit
- Methyl ethyl ketone in 3 of 29 samples; one result was above the reporting limit.

EPA Test Method 6010/7421 - Cadmium, Chromium, Nickel, Lead, Zinc

Lead, nickel, and zinc were detected below the reporting limit in method and calibration blanks. Detected sample results were qualified as nondetected (U) if they were reported at concentrations less than or equal to five times the highest concentration observed in the associated blank. The following results were qualified:

- Lead in 6 of 25 samples; 6 results were above the reporting limit
- Nickel in 4 of 25 samples; 1 result was above the reporting limit
- Zinc in 8 of 25 samples; 7 results were above the reporting limit.

The matrix duplicate RPD for chromium did not meet the criteria for acceptability in all cases. Reextraction and reanalysis produced similar values. The associated detected results were qualified as estimated (J). Failure to meet duplicate precision criteria could indicate subsampling variability or a matrix effect that prevents the precise quantification of these metals in the samples. However, because the RPD exceedances involved poor agreement among two detected values, detected sample results are not likely to be false positives. The following results were qualified:

- Chromium 14 of 25 samples.

F4.3 Data Quality

The following data quality section reviews the precision, accuracy, representativeness, and completeness of the Facility 2754 data.

F4.3.1 Precision and Accuracy

Precision and accuracy were evaluated during data validation by evaluating the results of the LCS/LCSD recoveries and RPD calculations, surrogate compound recoveries, MS/MSD recoveries and RPD calculations, and laboratory duplicate results. In addition, the results of laboratory method blanks, calibration blanks, and a trip blank were reviewed for evidence of contamination.

The following results were qualified as nondetected, with elevated reporting limits, because of low-level method blank or calibration blank contamination.

- Acetone in 3 of 29 samples
- Methylene chloride in 1 of 29 samples
- Methyl ethyl ketone in 1 of 29 samples
- Lead in 6 of 25 samples
- Nickel in 1 of 25 samples
- Zinc in 7 of 25 samples.

Detected and nondetected results were also qualified as estimated because of spike recovery or matrix duplicate RPD exceedances that were not severe. The detected results may underestimate or overestimate the true amount of the analyte present in the sample, depending on the type and direction of the exceedance. It is not likely, however, that false negatives or false positives were reported.

F4.3.2 Representativeness

Representativeness is a parameter that provides the data user with a degree of assurance that samples were collected and handled using appropriate procedures, and therefore are representative of site conditions. Based on the review of the work plan, field notes and observations, chain of custody information, and cooler receipt forms, the correct sampling procedures were followed. Sample preservation and holding time requirements were also met.

Field duplicate precision was evaluated by calculating the RPD between detected results in the sample and the duplicate. The control limits for field duplicates are an RPD less than or equal to 50 percent. Two samples were collected in duplicate. Most of the analytes were nondetected in both the sample and duplicate. Two sets of detected results (for gasoline and diesel) did not agree to within an RPD of 50 percent. However, the degree of RPD exceedance was not severe and may suggest sample inhomogeneity.

F4.3.3 Completeness

Completeness is defined as the ratio of the number of acceptable analytical results obtained to the total number of analytical results that were anticipated and reported. An analytical result is a reported value for an analyte expressed either as a detected concentration or nondetected at the reporting limit. Completeness of the data was evaluated for each test method in the following manner.

Analytical completeness is a measure of the amount of data that was determined during the data validation to be acceptable for the intended purposes. The analytical completeness requirement for the project is 85 percent. An analytical result is unacceptable in the analytical completeness evaluation if:

- The analytical result was from a sample for which the holding time criterion was not met (H-qualifer).
- The analytical result was qualified as rejected (R-qualifer).

Analytical completeness values for each test method are indicated in Table F2. The 85 percent criterion for analytical completeness was met for all test methods.

F4.4 Recommendations for Corrective Action

- The laboratory has been notified that matrix duplicates must be reanalyzed when out-of-control RPDs are observed
- The laboratory has been notified that samples must be reanalyzed when out-of-control surrogate recoveries are observed.

Table F1. Sample Designations
Site Investigation Report
Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
0723900001SA	ES-4107-01	9344Z410701F	soil	11/1/93
0723900002SA	ES-4107-02	9344Z410702F	soil	11/1/93
0723900003SA	ES-4107-03	9344Z410703F	soil	11/1/93
0723900004SA	ES-4107-04	9344Z410704F	soil	11/1/93
0723900005SA	ES-4107-05	9344Z410705F	soil	11/1/93
0723900006SA	ES-4107-06	9344Z410706F	soil	11/1/93
1A062-35	ES-4107-07	9426Z410001F	soil	6/28/94
1A062-36	ES-4107-08	9426Z410002F	soil	6/28/94
1A062-37	ES-4107-09	9426Z410003F	soil	6/28/94
1A062-38	ES-4107-10	9426Z410004F	soil	6/28/94
1A088-05	ES-4107-11	9430Z410105F	soil	7/29/94
1A088-06	ES-4107-12	9430Z410106F	soil	7/29/94
1A088-07	ES-4107-13	9430Z410108F	soil	7/29/94
1A088-08	ES-4107-14	9430Z410109F	soil	7/29/94
0769470001SA	ES-4107-15	9430Z410110F	soil	7/29/94
1A088-09	ES-4107-15	9430Z410111F	soil	7/29/94
1A088-10	ES-4107-16	9430Z410112F	soil	7/29/94
1A088-11	ES-4107-17	9430Z410113F	soil	7/29/94
1A088-03	SP-4107-4A-4D	9430Z41114AF	soil	7/29/94
1A088-04	SP-4107-5A-5D	9430Z41115AF	soil	7/29/94
1A088-01	SP-4107-6A-6D	9430Z41116AF	soil	7/29/94
1A088-02	SP-4107-7A-7D	9430Z41117AF	soil	7/29/94
0723470001SA	SB-4110-01	9343C411030F	soil	10/27/93
0723470002SA	SB-4110-01	9343C411032F	soil	10/27/93
0723470003SA	SB-4110-01	9343C411033F	soil	10/27/93
0723470004SA	SB-4110-01	9343C411034F	soil	10/27/93
0723470005SA	SB-4110-01	9343C411035F	soil	10/27/93
0723470006SA	SB-4110-01	9343C411040F	soil	10/27/93
0721740008SA	SB-4110-02	9343C411042F	soil	10/28/93
0723870007SA	SB-4110-02	9343C411045F	soil	10/28/93
0721740010SA	SB-4110-02	9343C411048F	soil	10/28/93
0721740009SA	SB-4110-02	9343C411049F	soil	10/28/93
0721740012SA	SB-4110-03	9343C411055F	soil	10/28/93
0721740013SA	SB-4110-03	9343C411056F	soil	10/28/93
0721740011SA	SB-4110-03	9343C411058F	soil	10/28/93
0723870006SA	SB-4110-04	9343C411060F	soil	10/28/93
0721740014SA	SB-4110-04	9343C411063F	soil	10/28/93
0721740015SA	SB-4110-04	9343C411064F	soil	10/28/93
0721740016SA	SB-4110-04	9343C411066F	soil	10/28/93
0721740019SA	SB-4110-05	9343C411068F	soil	10/28/93
0721740018SA	SB-4110-05	9343C411069F	soil	10/28/93
0721740017SA	SB-4110-05	9343C411070F	soil	10/28/93
0723890001SA	Equipment Blank	9343C411091B	water	10/29/93
0723890002SA	Trip Blank	9343C411092A	water	10/29/93

Table F1. Sample Designations
Site Investigation Report
Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
0721740020SA	SB-4110-06	9343C411077F	soil	10/29/93
0723870001SA	SB-4110-06	9343C411078F	soil	10/29/93
0723870002SA	SB-4110-06	9343C411082F	soil	10/29/93
0723870003SA	SB-4110-07	9343C411087F	soil	10/29/93
0723870004SA	SB-4110-07	9343C411088F	soil	10/29/93
0723870005SA	SB-4110-07	9343C411090F	soil	10/29/93
1A062-11	SP-4110-01	9425Z411001F	soil	6/22/94
0768600001SA	SP-4110-01	9425Z411001FF	soil	6/22/94
1A062-12	SP-4110-02	9425Z411002F	soil	6/22/94
0768600002SA	SP-4110-02	9425Z411002FF	soil	6/22/94
1A062-13	SP-4110-03	9425Z411003F	soil	6/22/94
0768600003SA	SP-4110-03	9425Z411003FF	soil	6/22/94
1A062-14	SP-4110-04	9425Z411004F	soil	6/22/94
0768600004SA	SP-4110-04	9425Z411004FF	soil	6/22/94
1A062-15	SP-4110-05	9425Z411005F	soil	6/22/94
0768600005SA	SP-4110-05	9425Z411005FF	soil	6/22/94
1A062-16	SP-4110-06	9425Z411006F	soil	6/22/94
0768600006SA	SP-4110-06	9425Z411006FF	soil	6/22/94
1A062-17	SP-4110-07	9425Z411007F	soil	6/22/94
0768600007SA	SP-4110-07	9425Z411007FF	soil	6/22/94
1A062-18	SP-4110-08	9425Z411008F	soil	6/22/94
0768600008SA	SP-4110-08	9425Z411008FF	soil	6/22/94
1A062-19	SP-4110-09	9425Z411009F	soil	6/22/94
0768600009SA	SP-4110-09	9425Z411009FF	soil	6/22/94
1A062-20	SP-4110-10	9425Z411010F	soil	6/22/94
0768600010SA	SP-4110-10	9425Z411010FF	soil	6/22/94
1A062-21	SP-4110-11	9425Z411011F	soil	6/22/94
0768600011SA	SP-4110-11	9425Z411011FF	soil	6/22/94
1A062-22	SP-4110-12	9425Z411012F	soil	6/22/94
0768600012SA	SP-4110-12	9425Z411012FF	soil	6/22/94
1A062-23	SP-4110-13	9425Z411013F	soil	6/22/94
0768600013SA	SP-4110-13	9425Z411013FF	soil	6/22/94
1A062-24	SP-4110-14	9425Z411014F	soil	6/22/94
0768600014SA	SP-4110-14	9425Z411014FF	soil	6/22/94
0772880005SA	SP-4110-09	9430Z41103AF	soil	7/27/94
1A084-16	SP-4110-09	9430Z41103AF	soil	7/27/94
0772880006SA	SP-4110-10	9430Z41104AF	soil	7/27/94
1A084-20	SP-4110-10	9430Z41104AF	soil	7/27/94
0772880008SA	ES-4110-12	9430Z411088F	soil	7/27/94
1A084-36	ES-4110-12	9430Z411088F	soil	7/27/94
0772880009SA	ES-4110-13	9430Z411089F	soil	7/27/94
1A084-37	ES-4110-13	9430Z411089F	soil	7/27/94
0772880015SA	ES-4110-14	9430Z411090F	soil	7/27/94
1A084-43	ES-4110-14	9430Z411090F	soil	7/27/94

Table F1. Sample Designations
Site Investigation Report
Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
0769090001SA	ES-4110-14	9430Z411091F	soil	7/27/94
0772880010SA	ES-4110-15	9430Z411096F	soil	7/27/94
1A084-38	ES-4110-15	9430Z411096F	soil	7/27/94
0772880011SA	ES-4110-16	9430Z411097F	soil	7/27/94
1A084-39	ES-4110-16	9430Z411097F	soil	7/27/94
0769090002SA	ES-4110-16	9430Z411099F	soil	7/27/94
0772880012SA	ES-4110-17	9430Z411100F	soil	7/27/94
1A084-40	ES-4110-17	9430Z411100F	soil	7/27/94
0772880013SA	ES-4110-18	9430Z411101F	soil	7/27/94
1A084-41	ES-4110-18	9430Z411101F	soil	7/27/94
0772880014SA	ES-4110-19	9430Z411102F	soil	7/27/94
1A084-42	ES-4110-19	9430Z411102F	soil	7/27/94
0772880001SA	SP-4110-02	9430Z41192AF	soil	7/27/94
1A084-01	SP-4110-02	9430Z41192AF	soil	7/27/94
0772880002SA	SP-4110-03	9430Z41193AF	soil	7/27/94
1A084-05	SP-4110-03	9430Z41193AF	soil	7/27/94
0772880003SA	SP-4110-06	9430Z41194AF	soil	7/27/94
1A084-09	SP-4110-06	9430Z41194AF	soil	7/27/94
0772880004SA	SP-4110-07	9430Z41195AF	soil	7/27/94
1A084-12	SP-4110-07	9430Z41195AF	soil	7/27/94
0794210009SA	SB-4110-08	9450Z411009F	soil	12/13/94
0794210010SA	SB-4110-08	9450Z411010F	soil	12/13/94
0794210011SA	SB-4110-09	9450Z411011F	soil	12/14/94
0794210012SA	SB-4110-09	9450Z411012F	soil	12/14/94
0794210013SA	SB-4110-11	9450Z411013F	soil	12/14/94
0794210014SA	SB-4110-11	9450Z411014F	soil	12/14/94
0800070013SA	SB-4110-10	9504Z411062F	soil	1/27/95
0800070014SA	SB-4110-10	9504Z411063F	soil	1/27/95
0720490001SA	Equipment Blank	9341HCPT005B	water	10/12/93
0720520001SA	SB-4590-04	9341HCPT001	soil	10/12/93
0720520002SA	SB-4590-04	9341HCPT002	soil	10/12/93
0720520003SA	SB-4590-04	9341HCPT004	soil	10/12/93
0720520004SA	SB-4590-06	9342HUST006F	soil	10/19/93
0720520005SA	SB-4590-06	9342HUST008F	soil	10/19/93
0720520006SA	SB-4590-06	9342HUST009F	soil	10/19/93
0720520007SA	SB-4590-05	9342HUST010F	soil	10/19/93
0720520008SA	SB-4590-05	9342HUST011F	soil	10/19/93
0720520009SA	SB-4590-05	9342HUST013F	soil	10/19/93
0720520010SA	SB-4590-02	9342HUST015F	soil	10/19/93
0720520011SA	SB-4590-02	9342HUST016F	soil	10/19/93
0720520012SA	SB-4590-02	9342HUST017F	soil	10/19/93
0720520013SA	SB-4590-03	9342HUST018F	soil	10/19/93
0720520014SA	SB-4590-03	9342HUST020F	soil	10/19/93
0720520015SA	SB-4590-03	9342HUST022F	soil	10/19/93
0720520016SA	SB-4590-07	9342HUST026F	soil	10/20/93

Table F1. Sample Designations
Site Investigation Report
Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
0720520017SA	SB-4590-07	9342HUST027F	soil	10/20/93
0720520018SA	SB-4590-07	9342HUST028F	soil	10/20/93
0720520019SA	SB-4590-07	9342HUST029F	soil	10/20/93
0720520020SA	SB-4590-07	9342HUST030F	soil	10/20/93
0721740001SA	SB-4590-07	9342HUST031F	soil	10/20/93
0721740002SA	SB-4590-01	9342HUST032F	soil	10/20/93
0721740003SA	SB-4590-01	9342HUST035F	soil	10/20/93
0721740004SA	SB-4590-01	9342HUST037F	soil	10/20/93
0720490002SA	Equipment Blank	9342HUST048B	water	10/21/93
0720490003SA	Trip Blank	9342HUST049A	water	10/21/93
0720490004SA	Field Water Blank	9342HUST050C	water	10/21/93
0721740005SA	SB-4590-08	9342HUST040F	soil	10/21/93
0721740006SA	SB-4590-08	9342HUST042F	soil	10/21/93
0721740007SA	SB-4590-08	9342HUST044F	soil	10/21/93
0724320001SA	ES-2754-01	9344Z275401F	soil	11/2/93
0724320002SA	ES-2754-02	9344Z275402F	soil	11/2/93
0724320003SA	ES-2754-03	9344Z275403F	soil	11/2/93
0724320004SA	ES-2754-04	9344Z275404F	soil	11/2/93
0724320005SA	ES-2754-05	9344Z275405F	soil	11/2/93
0724320006SA	ES-2754-06	9344Z275406F	soil	11/2/93
0724320007SA	ES-2754-07	9344Z275407F	soil	11/2/93
0724320008SA	ES-2754-08	9344Z275408F	soil	11/2/93
0724320009SA	ES-2754-09	9344Z275409F	soil	11/3/93
0724320010SA	ES-2754-10	9344Z275410F	soil	11/3/93
0765150001SA	ES-2754-11	9426Z275007F	soil	6/29/94
0765150002SA	ES-2754-12	9426Z275009F	soil	6/29/94
0765150003SA	ES-2754-13	9426Z275010F	soil	6/29/94
0765150004SA	ES-2754-14	9426Z275012F	soil	6/29/94
0794210019SA	SB-2754-04	9450Z275019F	soil	12/16/94
0794210020SA	SB-2754-04	9450Z275020F	soil	12/16/94
0794290001SA	SB-2754-04	9450Z275021F	soil	12/16/94
0794290002SA	SB-2754-03	9450Z275022F	soil	12/16/94
0794290003SA	SB-2754-03	9450Z275023F	soil	12/16/94
0794290004SA	SB-2754-03	9450Z275024F	soil	12/16/94
0795300005SA	SB-2754-02	9451Z275034F	soil	12/22/94
0795300006SA	SB-2754-02	9451Z275035F	soil	12/22/94
0795300007SA	SB-2754-02	9451Z275036F	soil	12/22/94
0795300008SA	SB-2754-02	9451Z275037F	soil	12/22/94
0800070015SA	SB-2754-01	9504Z275064F	soil	1/27/95
0800070016SA	SB-2754-01	9504Z275065F	soil	1/27/95
0800070017SA	SB-2754-01	9504Z275066F	soil	1/27/95
0800070018SA	SB-2754-01	9504Z275067F	soil	1/27/95
0800070019SA	SB-2754-01	9504Z275068F	soil	1/27/95
22004-33795	ES-2754-15	9603H275170F	soil	1/17/96

Table F1. Sample Designations
Site Investigation Report
Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
22004-33796	ES-2754-15	9603H275172D	soil	1/17/96
22004-33797	ES-2754-16	9603H275173F	soil	1/17/96
22004-33798	ES-2754-17	9603H275174F	soil	1/17/96
22004-33793	SP-2754-D	9603H275175F	soil	1/17/96
22004-33794	SP-2754-E	9603H275176F	soil	1/17/96
22004-33799	ES-2754-18	9603H275177F	soil	1/17/96
22004-33800	ES-2754-19	9603H275178F	soil	1/17/96
22004-33801	ES-2754-20	9603H275182F	soil	1/17/96
22004-33802	ES-2754-20	9603H275184D	soil	1/17/96
22004-33803	SP-2754-C	9603H275185F	soil	1/17/96
22004-33804	SP-2754-F	9603H275186F	soil	1/17/96
22004-33805	SP-2754-B	9603H275187F	soil	1/17/96
22004-33806	SP-2754-A	9603H275188F	soil	1/17/96
22004-33807	SP-2754-G	9603H275189F	soil	1/17/96
22004-33808	SP-2754-H	9603H275190F	soil	1/17/96
22004-33809	Trip Blank	9603H275191A	water	1/17/96

Table F2. Analytical and Contract Completeness Calculations
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Test Method	Number of Samples	Number of Results	Analytical Unacceptable Results	Percent Analytical Completeness
		Building 4107		
8020	22	88	0	100
8015m (Gas)	22	22	0	100
8015m (Diesel)	22	22	0	100
SM5520	6	6	0	100
7421 (Lead)	6	6	0	100
		Building 4110		
8020	66	264	0	100
8015m (Gas)	66	66	0	100
8015m (Diesel)	65	65	0	100
7421 (Lead)	29	29	0	100
7420m	36	36	0	100
		Building 4590		
8020	31	124	0	100
8015m (Gas)	31	31	0	100
8015m (Diesel)	30	30	0	100
7421 (Lead)	30	30	0	100
		Facility 2754		
8020	21	84	0	100
8240	29	986	0	100
8270	45	720	0	100
8015m (Gas)	46	46	0	100
8015m (Diesel)	43	43	0	100
6010/7421 (Cd,Cr, Ni,Pb,Zn)	25	125	0	100
7420m	4	4	0	100

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

				Combined method - Gas/BTEX								Lead only	
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample	**Sample**	**Sample**	W: 14 days	W: 14 days	W: 14 days	W: 14 days	W: 40 days	W: 28 days	W: 7 days	W: 40 days	W: 180 days	W: 28 days
Number	**Matrix**	**Date**	S: 14 days	S: 14 days	S: 14 days	S: 14 days	S: 40 days	S: 28 days	S: 14 days	S: 40 days	S: 180 days	S: 28 days
9344Z410701F	soil	11/1/93	NA	11/4/93	11/4/93	11/3/93	11/5/93	11/4/93	NA	NA	11/4/93	NA
9344Z410702F	soil	11/1/93	NA	11/5/93	11/5/93	11/3/93	11/5/93	11/4/93	NA	NA	11/4/93	NA
9344Z410703F	soil	11/1/93	NA	11/5/93	11/5/93	11/3/93	11/5/93	11/4/93	NA	NA	11/4/93	NA
9344Z410704F	soil	11/1/93	NA	11/5/93	11/5/93	11/3/93	11/4/93	11/4/93	NA	NA	11/4/93	NA
9344Z410705F	soil	11/1/93	NA	11/5/93	11/5/93	11/3/93	11/5/93	11/4/93	NA	NA	11/4/93	NA
9344Z410706F	soil	11/1/93	NA	11/4/93	11/4/93	11/3/93	11/4/93	11/4/93	NA	NA	11/4/93	NA

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	701F	702F	703F	704F	705F	706F				
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
SM5520 - All analytes were nondetected in the method blanks.													
EPA 6010 - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected ("[illegible]").

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery Water	FHL Control Limits for % recovery Soil	701F	702F	703F	704F	705F	706F				
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA				
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	113	315* J+ (det)	115	87	166* J+ (det)	88				
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	120	120	98	97	110	93				
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA				
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA				
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA				
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA				
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA				
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA				
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA				
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA				
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA				

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	110	111	1	102	103	1			
Toluene	79-122/18	81-115/12	110	112	2	98	100	2			
Ethylbenzene	73-117/18	81-118/13	108	109	1	100	102	2			
Xylenes	75-120/14	85-114/12	110	111	1	99	100	1			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	102	104	2	94	97	3			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	90	89	1	NA	NA	NA			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	104	104	0	NA	NA	NA			
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Lead	75-125	75-125	105	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	NA	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	NA	NA	NA	NA	NA	NA			

Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9344Z410703F							
Volatile PH as Gasoline	65-135/30	65-135/30	4X	4X	NA						
EPA 8015m (Diesel)				9344Z410703F							
Diesel Fuel	65-150/30	65-150/30	4X	4X	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520				9344Z410703F							
Oil and Grease	65-135/40	65-135/40	4X	4X	NA						
EPA 6010/7000				9344Z410702F							
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	75	NA	11						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

				Combined method - Gas/BTEX								
			EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	Sample Matrix	Sample Date	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9430Z410110F	soil	7/29/94	NA	8/10/94	8/10/94	8/5/94	8/11/94	NA	NA	NA	NA	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 76947
QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)
EPA 8020 - All analytes were nondetected in the method blanks.			
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.			
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.			

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	Soil	110F									
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA									
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	97									
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	97									
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA									
4-Bromofluorobenzene	86-115	74-121	NA									
1,2-Dichloroethane-d4	76-114	70-121	NA									
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA									
2-Fluorobiphenyl	43-116	30-115	NA									
Terphenyl-d14	33-141	18-137	NA									
Phenol-d5	10-94	24-113	NA									
2-Fluorophenol	21-100	25-121	NA									
2,4,6-Tribromophenol	10-123	19-122	NA									

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**		**LCS**	**LCSD**		**LCS**	**LCSD**		**LCS**	**LCSD**	
	Water	**Soil**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	106	108	2						
Toluene	79-122/18	81-115/12	94	95	1						
Ethylbenzene	73-117/18	81-118/13	104	104	0						
Xylenes	75-120/14	85-114/12	105	107	2						
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	105	103	2						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	85	86	1						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA						
EPA 7420m											
Organic lead	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)				9430Z410110F							
Benzene	65-135/25	65-135/25	99	92	7						
Toluene	65-135/25	65-135/25	128	95	30*						
Ethylbenzene	65-135/25	65-135/25	90	89	1						
Xylenes	65-135/25	65-135/25	92	92	0						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
			Associated results are ND; no qualifiers applied.								
EPA 8015m (Gasoline)				9430Z410110F							
Volatile PH as Gasoline	65-135/30	65-135/30	94	95	1						
EPA 8015m (Diesel)				9430Z410110F							
Diesel Fuel	65-150/30	65-150/30	82	84	3						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 7420m											
Organic lead	75-125/20	75-125/20	NA	NA	NA						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Onsite | **QA Reviewer: E. Long**
Analytical Batch: 1A062 | **Review Date: 3/26/96**

				Combined method (BTEX/Gas)								
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	Sample Matrix	Sample Date	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9426Z410001F	soil	6/28/94	NA	6/28/94	6/28/94	6/28/94	6/28/94	NA	NA	NA	NA	NA
9426Z410002F	soil	6/28/94	NA	6/28/94	6/28/94	6/28/94	6/28/94	NA	NA	NA	NA	NA
9426Z410003F	soil	6/28/94	NA	6/28/94	6/28/94	6/28/94	6/28/94	NA	NA	NA	NA	NA
9426Z410004F	soil	6/28/94	NA	6/28/94	6/28/94	6/28/94	6/28/94	NA	NA	NA	NA	NA
9425Z411001F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411002F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411003F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411004F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411005F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411006F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411007F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411008F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411009F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411010F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411011F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411012F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411013F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411014F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Onsite
Analytical Batch: 1A062

QA Reviewer: E. Long
Review Date: 3/26/96

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)
EPA 8020 - All analytes were nondetected in the method blank.			
EPA 8015m (Gas) - All analytes were nondetected in the method blank.			
EPA 8015m (Diesel) - All analytes were nondetected in the method blank.			

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Caq (μg/l)
97	3.83E-04	0.0000	0.0141
98	4.03E-04	0.0000	0.0149
99	4.23E-04	0.0000	0.0156
100	4.44E-04	0.0000	0.0164

Table E7. Chrysene as Chemical Surrogate of TPH as Diesel VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft³)	Caq (µg/l)
1	7.60E-27	0.0000	0.0000
2	5.74E-24	0.0000	0.0000
3	1.15E-23	0.0000	0.0000
4	1.72E-23	0.0000	0.0000
5	2.30E-23	0.0000	0.0000
6	2.87E-23	0.0000	0.0000
7	3.44E-23	0.0000	0.0000
8	4.02E-23	0.0000	0.0000
9	4.59E-23	0.0000	0.0000

	Contaminant	Aquifer Concentration	
Time (year)	Mass (grams)	Caq (g/ft^3)	Caq (μg/l)
10	5.17E-23	0.0000	0.0000
11	5.74E-23	0.0000	0.0000
12	6.32E-23	0.0000	0.0000
13	6.89E-23	0.0000	0.0000
14	7.47E-23	0.0000	0.0000
15	8.05E-23	0.0000	0.0000
16	8.62E-23	0.0000	0.0000
17	9.20E-23	0.0000	0.0000
18	9.78E-23	0.0000	0.0000
19	1.04E-22	0.0000	0.0000
20	1.09E-22	0.0000	0.0000
21	1.15E-22	0.0000	0.0000
22	1.21E-22	0.0000	0.0000
23	1.27E-22	0.0000	0.0000
24	1.32E-22	0.0000	0.0000
25	1.38E-22	0.0000	0.0000
26	1.44E-22	0.0000	0.0000
27	1.50E-22	0.0000	0.0000
28	1.56E-22	0.0000	0.0000
29	1.61E-22	0.0000	0.0000
30	1.67E-22	0.0000	0.0000
31	1.73E-22	0.0000	0.0000
32	1.79E-22	0.0000	0.0000
33	1.84E-22	0.0000	0.0000
34	1.90E-22	0.0000	0.0000
35	1.96E-22	0.0000	0.0000
36	2.02E-22	0.0000	0.0000
37	2.08E-22	0.0000	0.0000
38	2.14E-22	0.0000	0.0000
39	2.19E-22	0.0000	0.0000
40	2.25E-22	0.0000	0.0000
41	2.31E-22	0.0000	0.0000
42	2.37E-22	0.0000	0.0000
43	2.43E-22	0.0000	0.0000
44	2.48E-22	0.0000	0.0000
45	2.54E-22	0.0000	0.0000
46	2.60E-22	0.0000	0.0000
47	2.66E-22	0.0000	0.0000
48	2.72E-22	0.0000	0.0000
49	2.78E-22	0.0000	0.0000
50	2.83E-22	0.0000	0.0000
51	2.89E-22	0.0000	0.0000
52	2.95E-22	0.0000	0.0000
53	3.01E-22	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
54	3.07E-22	0.0000	0.0000
55	3.13E-22	0.0000	0.0000
56	3.18E-22	0.0000	0.0000
57	3.24E-22	0.0000	0.0000
58	3.30E-22	0.0000	0.0000
59	3.36E-22	0.0000	0.0000
60	3.42E-22	0.0000	0.0000
61	3.48E-22	0.0000	0.0000
62	3.54E-22	0.0000	0.0000
63	3.59E-22	0.0000	0.0000
64	3.65E-22	0.0000	0.0000
65	3.71E-22	0.0000	0.0000
66	3.77E-22	0.0000	0.0000
67	3.83E-22	0.0000	0.0000
68	3.89E-22	0.0000	0.0000
69	3.95E-22	0.0000	0.0000
70	4.00E-22	0.0000	0.0000
71	4.06E-22	0.0000	0.0000
72	4.12E-22	0.0000	0.0000
73	4.18E-22	0.0000	0.0000
74	4.24E-22	0.0000	0.0000
75	4.30E-22	0.0000	0.0000
76	4.36E-22	0.0000	0.0000
77	4.42E-22	0.0000	0.0000
78	4.48E-22	0.0000	0.0000
79	4.53E-22	0.0000	0.0000
80	4.59E-22	0.0000	0.0000
81	4.65E-22	0.0000	0.0000
82	4.71E-22	0.0000	0.0000
83	4.77E-22	0.0000	0.0000
84	4.83E-22	0.0000	0.0000
85	4.89E-22	0.0000	0.0000
86	4.95E-22	0.0000	0.0000
87	5.01E-22	0.0000	0.0000
88	5.07E-22	0.0000	0.0000
89	5.12E-22	0.0000	0.0000
90	5.18E-22	0.0000	0.0000
91	5.24E-22	0.0000	0.0000
92	5.30E-22	0.0000	0.0000
93	5.36E-22	0.0000	0.0000
94	5.42E-22	0.0000	0.0000
95	5.48E-22	0.0000	0.0000
96	5.54E-22	0.0000	0.0000

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	 Caq (μg/l)
97	5.60E-22	0.0000	0.0000
98	5.66E-22	0.0000	0.0000
99	5.72E-22	0.0000	0.0000
100	5.78E-22	0.0000	0.0000

Table E8. Napthalene as Chemical Surrogate of TPH as Diesel VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	1.03E-22	0.0000	0.0000
2	1.13E-12	0.0000	0.0000
3	2.33E-12	0.0000	0.0000
4	3.58E-12	0.0000	0.0000
5	4.90E-12	0.0000	0.0000
6	6.28E-12	0.0000	0.0000
7	7.73E-12	0.0000	0.0000
8	9.25E-12	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
9	1.08E-11	0.0000	0.0000
10	1.25E-11	0.0000	0.0000
11	1.43E-11	0.0000	0.0000
12	1.61E-11	0.0000	0.0000
13	1.80E-11	0.0000	0.0000
14	2.00E-11	0.0000	0.0000
15	2.21E-11	0.0000	0.0000
16	2.44E-11	0.0000	0.0000
17	2.67E-11	0.0000	0.0000
18	2.91E-11	0.0000	0.0000
19	3.16E-11	0.0000	0.0000
20	3.43E-11	0.0000	0.0000
21	3.70E-11	0.0000	0.0000
22	3.99E-11	0.0000	0.0000
23	4.29E-11	0.0000	0.0000
24	4.61E-11	0.0000	0.0000
25	4.94E-11	0.0000	0.0000
26	5.28E-11	0.0000	0.0000
27	5.64E-11	0.0000	0.0000
28	6.01E-11	0.0000	0.0000
29	6.40E-11	0.0000	0.0000
30	6.81E-11	0.0000	0.0000
31	7.24E-11	0.0000	0.0000
32	7.68E-11	0.0000	0.0000
33	8.14E-11	0.0000	0.0000
34	8.62E-11	0.0000	0.0000
35	9.13E-11	0.0000	0.0000
36	9.65E-11	0.0000	0.0000
37	1.02E-10	0.0000	0.0000
38	1.08E-10	0.0000	0.0000
39	1.14E-10	0.0000	0.0000
40	1.20E-10	0.0000	0.0000
41	1.26E-10	0.0000	0.0000
42	1.33E-10	0.0000	0.0000
43	1.40E-10	0.0000	0.0000
44	1.47E-10	0.0000	0.0000
45	1.55E-10	0.0000	0.0000
46	1.62E-10	0.0000	0.0000
47	1.71E-10	0.0000	0.0000
48	1.79E-10	0.0000	0.0000
49	1.88E-10	0.0000	0.0000
50	1.97E-10	0.0000	0.0000
51	2.07E-10	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	 Caq (µg/l)
52	2.17E-10	0.0000	0.0000
53	2.27E-10	0.0000	0.0000
54	2.38E-10	0.0000	0.0000
55	2.49E-10	0.0000	0.0000
56	2.60E-10	0.0000	0.0000
57	2.72E-10	0.0000	0.0000
58	2.85E-10	0.0000	0.0000
59	2.98E-10	0.0000	0.0000
60	3.11E-10	0.0000	0.0000
61	3.25E-10	0.0000	0.0000
62	3.40E-10	0.0000	0.0000
63	3.55E-10	0.0000	0.0000
64	3.71E-10	0.0000	0.0000
65	3.87E-10	0.0000	0.0000
66	4.04E-10	0.0000	0.0000
67	4.22E-10	0.0000	0.0000
68	4.40E-10	0.0000	0.0000
69	4.59E-10	0.0000	0.0000
70	4.78E-10	0.0000	0.0000
71	4.99E-10	0.0000	0.0000
72	5.20E-10	0.0000	0.0000
73	5.42E-10	0.0000	0.0000
74	5.64E-10	0.0000	0.0000
75	5.88E-10	0.0000	0.0000
76	6.12E-10	0.0000	0.0000
77	6.38E-10	0.0000	0.0000
78	6.64E-10	0.0000	0.0000
79	6.91E-10	0.0000	0.0000
80	7.20E-10	0.0000	0.0000
81	7.49E-10	0.0000	0.0000
82	7.79E-10	0.0000	0.0000
83	8.11E-10	0.0000	0.0000
84	8.43E-10	0.0000	0.0000
85	8.77E-10	0.0000	0.0000
86	9.12E-10	0.0000	0.0000
87	9.48E-10	0.0000	0.0000
88	9.86E-10	0.0000	0.0000
89	1.02E-09	0.0000	0.0000
90	1.07E-09	0.0000	0.0000
91	1.11E-09	0.0000	0.0000
92	1.15E-09	0.0000	0.0000
93	1.19E-09	0.0000	0.0000
94	1.24E-09	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
95	1.29E-09	0.0000	0.0000
96	1.34E-09	0.0000	0.0000
97	1.39E-09	0.0000	0.0000
98	1.44E-09	0.0000	0.0000
99	1.50E-09	0.0000	0.0000
100	1.56E-09	0.0000	0.0000

Table E9. Ethyl-Benzene VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

$Qh = K * b * i * W$	917	cubic feet/year
$Caq = Mw / [(Qv*A) + Qh]$	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
1	3.28E-31	0.0000	0.0000
2	4.02E-21	0.0000	0.0000
3	9.04E-21	0.0000	0.0000
4	1.52E-20	0.0000	0.0000
5	2.27E-20	0.0000	0.0000
6	3.16E-20	0.0000	0.0000
7	4.23E-20	0.0000	0.0000
8	5.49E-20	0.0000	0.0000
9	6.96E-20	0.0000	0.0000

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
10	8.68E-20	0.0000	0.0000
11	1.07E-19	0.0000	0.0000
12	1.30E-19	0.0000	0.0000
13	1.56E-19	0.0000	0.0000
14	1.86E-19	0.0000	0.0000
15	2.21E-19	0.0000	0.0000
16	2.60E-19	0.0000	0.0000
17	3.05E-19	0.0000	0.0000
18	3.55E-19	0.0000	0.0000
19	4.12E-19	0.0000	0.0000
20	4.76E-19	0.0000	0.0000
21	5.48E-19	0.0000	0.0000
22	6.29E-19	0.0000	0.0000
23	7.19E-19	0.0000	0.0000
24	8.20E-19	0.0000	0.0000
25	9.33E-19	0.0000	0.0000
26	1.06E-18	0.0000	0.0000
27	1.20E-18	0.0000	0.0000
28	1.35E-18	0.0000	0.0000
29	1.52E-18	0.0000	0.0000
30	1.71E-18	0.0000	0.0000
31	1.92E-18	0.0000	0.0000
32	2.15E-18	0.0000	0.0000
33	2.41E-18	0.0000	0.0000
34	2.69E-18	0.0000	0.0000
35	3.00E-18	0.0000	0.0000
36	3.34E-18	0.0000	0.0000
37	3.71E-18	0.0000	0.0000
38	4.12E-18	0.0000	0.0000
39	4.57E-18	0.0000	0.0000
40	5.06E-18	0.0000	0.0000
41	5.59E-18	0.0000	0.0000
42	6.18E-18	0.0000	0.0000
43	6.82E-18	0.0000	0.0000
44	7.52E-18	0.0000	0.0000
45	8.28E-18	0.0000	0.0000
46	9.11E-18	0.0000	0.0000
47	1.00E-17	0.0000	0.0000
48	1.10E-17	0.0000	0.0000
49	1.21E-17	0.0000	0.0000
50	1.32E-17	0.0000	0.0000
51	1.45E-17	0.0000	0.0000
52	1.59E-17	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
53	1.73E-17	0.0000	0.0000
54	1.89E-17	0.0000	0.0000
55	2.07E-17	0.0000	0.0000
56	2.26E-17	0.0000	0.0000
57	2.46E-17	0.0000	0.0000
58	2.68E-17	0.0000	0.0000
59	2.92E-17	0.0000	0.0000
60	3.18E-17	0.0000	0.0000
61	3.46E-17	0.0000	0.0000
62	3.76E-17	0.0000	0.0000
63	4.08E-17	0.0000	0.0000
64	4.43E-17	0.0000	0.0000
65	4.80E-17	0.0000	0.0000
66	5.21E-17	0.0000	0.0000
67	5.64E-17	0.0000	0.0000
68	6.11E-17	0.0000	0.0000
69	6.61E-17	0.0000	0.0000
70	7.16E-17	0.0000	0.0000
71	7.74E-17	0.0000	0.0000
72	8.36E-17	0.0000	0.0000
73	9.03E-17	0.0000	0.0000
74	9.75E-17	0.0000	0.0000
75	1.05E-16	0.0000	0.0000
76	1.14E-16	0.0000	0.0000
77	1.22E-16	0.0000	0.0000
78	1.32E-16	0.0000	0.0000
79	1.42E-16	0.0000	0.0000
80	1.53E-16	0.0000	0.0000
81	1.65E-16	0.0000	0.0000
82	1.77E-16	0.0000	0.0000
83	1.91E-16	0.0000	0.0000
84	2.05E-16	0.0000	0.0000
85	2.20E-16	0.0000	0.0000
86	2.36E-16	0.0000	0.0000
87	2.54E-16	0.0000	0.0000
88	2.73E-16	0.0000	0.0000
89	2.92E-16	0.0000	0.0000
90	3.14E-16	0.0000	0.0000
91	3.36E-16	0.0000	0.0000
92	3.60E-16	0.0000	0.0000
93	3.86E-16	0.0000	0.0000
94	4.14E-16	0.0000	0.0000
95	4.43E-16	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
96	4.74E-16	0.0000	0.0000
97	5.07E-16	0.0000	0.0000
98	5.42E-16	0.0000	0.0000
99	5.80E-16	0.0000	0.0000
100	6.20E-16	0.0000	0.0000

Table E10. Toluene VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

---

* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
1	1.79E-30	0.0000	0.0000
2	2.75E-18	0.0000	0.0000
3	9.65E-18	0.0000	0.0000
4	2.44E-17	0.0000	0.0000
5	5.32E-17	0.0000	0.0000
6	1.06E-16	0.0000	0.0000
7	1.98E-16	0.0000	0.0000
8	3.53E-16	0.0000	0.0000
9	6.08E-16	0.0000	0.0000

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft^3)	Caq (µg/l)
10	1.02E-15	0.0000	0.0000
11	1.66E-15	0.0000	0.0000
12	2.64E-15	0.0000	0.0000
13	4.14E-15	0.0000	0.0000
14	6.38E-15	0.0000	0.0000
15	9.69E-15	0.0000	0.0000
16	1.45E-14	0.0000	0.0000
17	2.15E-14	0.0000	0.0000
18	3.15E-14	0.0000	0.0000
19	4.57E-14	0.0000	0.0000
20	6.56E-14	0.0000	0.0000
21	9.34E-14	0.0000	0.0000
22	1.32E-13	0.0000	0.0000
23	1.85E-13	0.0000	0.0000
24	2.57E-13	0.0000	0.0000
25	3.56E-13	0.0000	0.0000
26	4.89E-13	0.0000	0.0000
27	6.68E-13	0.0000	0.0000
28	9.06E-13	0.0000	0.0000
29	1.22E-12	0.0000	0.0000
30	1.64E-12	0.0000	0.0000
31	2.20E-12	0.0000	0.0000
32	2.92E-12	0.0000	0.0000
33	3.86E-12	0.0000	0.0000
34	5.09E-12	0.0000	0.0000
35	6.68E-12	0.0000	0.0000
36	8.72E-12	0.0000	0.0000
37	1.13E-11	0.0000	0.0000
38	1.47E-11	0.0000	0.0000
39	1.90E-11	0.0000	0.0000
40	2.44E-11	0.0000	0.0000
41	3.13E-11	0.0000	0.0000
42	4.00E-11	0.0000	0.0000
43	5.09E-11	0.0000	0.0000
44	6.46E-11	0.0000	0.0000
45	8.17E-11	0.0000	0.0000
46	1.03E-10	0.0000	0.0000
47	1.29E-10	0.0000	0.0000
48	1.62E-10	0.0000	0.0000
49	2.03E-10	0.0000	0.0000
50	2.53E-10	0.0000	0.0000
51	3.14E-10	0.0000	0.0000
52	3.89E-10	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Caq (μg/l)
53	4.81E-10	0.0000	0.0000
54	5.93E-10	0.0000	0.0000
55	7.30E-10	0.0000	0.0000
56	8.95E-10	0.0000	0.0000
57	1.10E-09	0.0000	0.0000
58	1.34E-09	0.0000	0.0000
59	1.63E-09	0.0000	0.0000
60	1.98E-09	0.0000	0.0000
61	2.40E-09	0.0000	0.0000
62	2.91E-09	0.0000	0.0000
63	3.51E-09	0.0000	0.0000
64	4.23E-09	0.0000	0.0000
65	5.08E-09	0.0000	0.0000
66	6.10E-09	0.0000	0.0000
67	7.30E-09	0.0000	0.0000
68	8.72E-09	0.0000	0.0000
69	1.04E-08	0.0000	0.0000
70	1.24E-08	0.0000	0.0000
71	1.47E-08	0.0000	0.0000
72	1.74E-08	0.0000	0.0000
73	2.07E-08	0.0000	0.0000
74	2.44E-08	0.0000	0.0000
75	2.88E-08	0.0000	0.0000
76	3.39E-08	0.0000	0.0000
77	3.98E-08	0.0000	0.0000
78	4.67E-08	0.0000	0.0000
79	5.48E-08	0.0000	0.0000
80	6.41E-08	0.0000	0.0000
81	7.48E-08	0.0000	0.0000
82	8.72E-08	0.0000	0.0000
83	1.01E-07	0.0000	0.0000
84	1.18E-07	0.0000	0.0000
85	1.37E-07	0.0000	0.0000
86	1.59E-07	0.0000	0.0000
87	1.83E-07	0.0000	0.0000
88	2.12E-07	0.0000	0.0000
89	2.45E-07	0.0000	0.0000
90	2.82E-07	0.0000	0.0000
91	3.24E-07	0.0000	0.0000
92	3.72E-07	0.0000	0.0000
93	4.27E-07	0.0000	0.0000
94	4.89E-07	0.0000	0.0000
95	5.59E-07	0.0000	0.0000

Simulation Results

Time (year)	Contaminant Mass (grams)	Aquifer Concentration	
		Caq (g/ft³)	Caq (μg/l)
96	6.39E-07	0.0000	0.0000
97	7.29E-07	0.0000	0.0000
98	8.31E-07	0.0000	0.0000
99	9.46E-07	0.0000	0.0000
100	1.08E-06	0.0000	0.0000

Table E11. Xylene VLEACH Results, Building 4110
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Input Parameters	Value	Units	Abbreviation
Infiltration Rate	0.386	feet/year	Qv
Soil Area	100	square feet	A
Hydraulic Conductivity	2,780	feet/year	K
Saturated Thickness	10	feet	b
Gradient	3.30E-03	dimensionless	i
Layer Width	10	feet	W
Groundwater Flow Through Control Volume	Shown below	cubic feet/year	Qh
Contaminant Mass From Soil Column (Pore Water)	Varies*	grams	Mw

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* Output from VLEACH simulation, shown in simulation results below.

Output	Value	Units	Abbreviation
Aquifer Concentration	Shown in simulation results below	grams/cubic foot and micrograms/liter	Caq

Equations

Qh = K * b * i * W	917	cubic feet/year
Caq = Mw / [(Qv*A) + Qh]	Shown in simulation results below	

Simulation Results

	Contaminant	Aquifer Concentration	
Time (year)	Mass (grams)	Caq (g/ft³)	Caq (µg/l)
1	6.12E-30	0.0000	0.0000
2	1.26E-18	0.0000	0.0000
3	3.76E-18	0.0000	0.0000
4	8.24E-18	0.0000	0.0000
5	1.57E-17	0.0000	0.0000
6	2.78E-17	0.0000	0.0000
7	4.63E-17	0.0000	0.0000
8	7.42E-17	0.0000	0.0000
9	1.15E-16	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (µg/l)
10	1.75E-16	0.0000	0.0000
11	2.59E-16	0.0000	0.0000
12	3.78E-16	0.0000	0.0000
13	5.42E-16	0.0000	0.0000
14	7.67E-16	0.0000	0.0000
15	1.07E-15	0.0000	0.0000
16	1.49E-15	0.0000	0.0000
17	2.04E-15	0.0000	0.0000
18	2.77E-15	0.0000	0.0000
19	3.73E-15	0.0000	0.0000
20	5.00E-15	0.0000	0.0000
21	6.64E-15	0.0000	0.0000
22	8.77E-15	0.0000	0.0000
23	1.15E-14	0.0000	0.0000
24	1.50E-14	0.0000	0.0000
25	1.95E-14	0.0000	0.0000
26	2.52E-14	0.0000	0.0000
27	3.24E-14	0.0000	0.0000
28	4.15E-14	0.0000	0.0000
29	5.29E-14	0.0000	0.0000
30	6.72E-14	0.0000	0.0000
31	8.50E-14	0.0000	0.0000
32	1.07E-13	0.0000	0.0000
33	1.34E-13	0.0000	0.0000
34	1.68E-13	0.0000	0.0000
35	2.10E-13	0.0000	0.0000
36	2.61E-13	0.0000	0.0000
37	3.24E-13	0.0000	0.0000
38	4.00E-13	0.0000	0.0000
39	4.93E-13	0.0000	0.0000
40	6.07E-13	0.0000	0.0000
41	7.44E-13	0.0000	0.0000
42	9.10E-13	0.0000	0.0000
43	1.11E-12	0.0000	0.0000
44	1.35E-12	0.0000	0.0000
45	1.64E-12	0.0000	0.0000
46	1.99E-12	0.0000	0.0000
47	2.40E-12	0.0000	0.0000
48	2.90E-12	0.0000	0.0000
49	3.49E-12	0.0000	0.0000
50	4.20E-12	0.0000	0.0000
51	5.03E-12	0.0000	0.0000
52	6.02E-12	0.0000	0.0000
53	7.19E-12	0.0000	0.0000
54	8.58E-12	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Caq (μg/l)
55	1.02E-11	0.0000	0.0000
56	1.21E-11	0.0000	0.0000
57	1.44E-11	0.0000	0.0000
58	1.70E-11	0.0000	0.0000
59	2.01E-11	0.0000	0.0000
60	2.38E-11	0.0000	0.0000
61	2.80E-11	0.0000	0.0000
62	3.30E-11	0.0000	0.0000
63	3.87E-11	0.0000	0.0000
64	4.54E-11	0.0000	0.0000
65	5.32E-11	0.0000	0.0000
66	6.22E-11	0.0000	0.0000
67	7.27E-11	0.0000	0.0000
68	8.48E-11	0.0000	0.0000
69	9.88E-11	0.0000	0.0000
70	1.15E-10	0.0000	0.0000
71	1.33E-10	0.0000	0.0000
72	1.55E-10	0.0000	0.0000
73	1.79E-10	0.0000	0.0000
74	2.08E-10	0.0000	0.0000
75	2.40E-10	0.0000	0.0000
76	2.77E-10	0.0000	0.0000
77	3.19E-10	0.0000	0.0000
78	3.68E-10	0.0000	0.0000
79	4.23E-10	0.0000	0.0000
80	4.86E-10	0.0000	0.0000
81	5.58E-10	0.0000	0.0000
82	6.40E-10	0.0000	0.0000
83	7.33E-10	0.0000	0.0000
84	8.38E-10	0.0000	0.0000
85	9.58E-10	0.0000	0.0000
86	1.09E-09	0.0000	0.0000
87	1.25E-09	0.0000	0.0000
88	1.42E-09	0.0000	0.0000
89	1.62E-09	0.0000	0.0000
90	1.84E-09	0.0000	0.0000
91	2.09E-09	0.0000	0.0000
92	2.37E-09	0.0000	0.0000
93	2.69E-09	0.0000	0.0000
94	3.04E-09	0.0000	0.0000
95	3.44E-09	0.0000	0.0000
96	3.89E-09	0.0000	0.0000
97	4.39E-09	0.0000	0.0000

Time (year)	Contaminant Mass (grams)	Aquifer Concentration Caq (g/ft³)	Aquifer Concentration Caq (μg/l)
98	4.96E-09	0.0000	0.0000
99	5.59E-09	0.0000	0.0000
100	6.30E-09	0.0000	0.0000

APPENDIX F

APPENDIX F

DATA VALIDATION RESULTS

APPENDIX F

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TABLES

APPENDIX F

DATA VALIDATION RESULTS

F1.0 QUALITY CONTROL SUMMARY REPORT - BUILDING 4107

Analytical results from Building 4107 at Fort Ord were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). The validation evaluated the quality of the data with respect to a set of QC criteria, including precision, accuracy, representativeness, and completeness. The QC samples used to assess data quality consisted of laboratory duplicate samples, matrix spike/matrix spike duplicates (MS/MSD), laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and method blanks. Holding times and laboratory surrogate spike recoveries were also evaluated. The following quality control summary report documents the findings of the data validation. Attached to this appendix are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results and data qualifiers applied to sample results.

F1.1 Analytical Summary

During 1993, soil samples were collected and submitted to Quanterra Environmental Services, West Sacramento, California, for analysis. Soil samples collected in 1994 were analyzed by Onsite Environmental Laboratories at a mobile laboratory at Fort Ord. Table F1 lists identifiers for the samples collected at Building 4107 between November 1, 1993, and July 29, 1994.

The following tests were performed. Not all analyses were requested for all samples.

- EPA Test Method 8020 - benzene, toluene, ethylbenzene and xylenes (BTEX)
- EPA Test Method 8015, modified - volatile petroleum hydrocarbons as gasoline
- EPA Test Method 8015, modified - extractable petroleum hydrocarbons as diesel
- Test Method SM5520 - oil and grease
- EPA Test Method 7421 - lead by Graphite Furnace Atomic Absorption (GFAA).

F1.2 Data Validation Results

The following section discusses only those QA/QC results that were outside of acceptance criteria and data qualifiers that were applied as a result of the QA/QC exceedance(s), and potential impacts on data usability. QA/QC results are not mentioned in the following section if results were within acceptance criteria.

<u>EPA Test Method 8020 - BTEX</u>

The surrogate recoveries in four samples were above the control limits. Reextraction and reanalysis were not performed. The associated detected results were qualified as estimated (J+). Two of the four high surrogate recoveries are attributable to high levels of petroleum hydrocarbons in the sample that appear to have interfered with the analysis. High spike recoveries suggest a matrix effect that could lead to an overestimation of the amount of the target analytes in the samples. Detected results in 4 out of 22 samples were qualified. One analytical batch containing six samples was analyzed without an MS/MSD.

<u>EPA Test Method 8015, modified (Gasoline)</u>

The surrogate recoveries in four samples were above the control limits and reextraction and reanalysis were not performed. The associated detected results were qualified as estimated (J+). High spike recoveries suggest a matrix effect that could lead to an overestimation of the amount of the target analytes in the samples. Detected results in 4 out of 22 samples were qualified. One analytical batch containing four samples was analyzed without an LCS.

F1.3 Data Quality

The following data quality section discusses the precision, accuracy, representativeness, and completeness of the Building 4107 data.

F1.3.1 Precision and Accuracy

Precision and accuracy were evaluated during data validation by evaluating the results of LCS/LCSD recoveries and relative percent difference (RPD) calculations, surrogate compound recoveries, MS/MSD recoveries and RPD calculations, and laboratory duplicate results. In addition, the results of laboratory method blanks and calibration blanks were reviewed for evidence of contamination. No target analytes were detected in any field or laboratory blank samples.

Detected results for TPHg and BTEX in four samples were qualified as estimated because of surrogate spike recovery exceedances. The detected results may overestimate the true amount of the analyte present in the sample; however, it is not likely that false positives were reported. One analytical batch containing six samples for BTEX analysis was analyzed without an MS/MSD. Precision and accuracy for these samples were evaluated using surrogate and LCS results. One analytical batch containing four samples for TPHg was analyzed without an LCS. Precision and accuracy for these samples were evaluated using surrogate and MS/MSD results.

F1.3.2 Representativeness

Representativeness is a parameter that provides the data user with a degree of assurance that samples were collected and handled using appropriate procedures, and therefore are representative of site conditions. Based on the review of the work plan, field notes and observations, chain of custody information, and cooler receipt forms, the correct sampling procedures were followed. Sample preservation and holding time requirements were also met.

F1.3.3 Completeness

Completeness is defined as the ratio of the number of acceptable analytical results obtained to the total number of analytical results that were anticipated and reported. An analytical result is a reported value for an analyte expressed either as a detected concentration or nondetected at the reporting limit. Completeness of the data was evaluated for each test method in the following manner.

Analytical completeness is a measure of the amount of data that was determined during the data validation to be acceptable for the intended purposes. The analytical completeness requirement for the project is 85 percent. An analytical result is unacceptable in the analytical completeness evaluation if:

- The analytical result was from a sample for which the holding time criterion was not met (H-qualifer).
- The analytical result was qualified as rejected (R-qualifer).

Analytical completeness values for each test method are presented in Table F2. The 85 percent criterion for analytical completeness was met for all test methods.

F1.4 Recommendations for Corrective Action

- The laboratory has been notified that samples must be reanalyzed when out-of-control surrogate recoveries are observed
- The laboratory has been notified that MS/MSD and LCS analyses must be performed for each analytical batch.

F2.0 QUALITY CONTROL SUMMARY REPORT - BUILDING 4110

Analytical results from Building 4110 at Fort Ord were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). The validation evaluated the quality of the data with respect to a set of QC criteria, including precision, accuracy, representativeness, and completeness. The QC samples used to assess data quality consisted of laboratory duplicate samples, MS/MSD, LCS/LCSD, method blanks, calibration blanks, equipment blanks, and trip blanks. Holding times and laboratory surrogate spike recoveries were also evaluated. The following quality control summary report documents the findings of the data validation. Attached to this appendix are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results and data qualifiers applied to sample results.

F2.1 Analytical Summary

During the 1993 and 1995 sampling events, soil samples were collected and submitted to Quanterra Environmental Services, West Sacramento, California, for analysis. Soil samples collected in 1994 were analyzed by Onsite Environmental Laboratories at a mobile laboratory at Fort Ord. Table F1 lists identifiers for the samples collected at Building 4110 between October 28, 1993 and January 27, 1995.

The following test methods were performed. Not all analyses were requested for all samples.

- EPA Test Method 8020 - BTEX
- EPA Test Method 8015, modified - volatile petroleum hydrocarbons as gasoline
- EPA Test Method 8015, modified - extractable petroleum hydrocarbons as diesel
- EPA Test Method 7421 - lead by Graphite Furnace Atomic Absorption (GFAA)
- EPA Test Method 7420, modified - organic lead.

F2.2 Data Validation Results

The following section discusses only those QA/QC results that were outside of acceptance criteria and data qualifiers that were applied as a result of the QA/QC exceedance(s), and potential impacts on data usability. QA/QC results are not mentioned in the following section if results were within acceptance criteria.

EPA Test Method 8020 - BTEX

The surrogate recoveries in two samples were below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 2 out of 66 samples were qualified.

The LCS recoveries for benzene, toluene, ethylbenzene, and xylenes in one analytical batch were below the control limits. Reextraction and reanalysis were apparently not performed. The associated detected results were qualified as estimated (J-). Low spike recoveries suggest a bias in the analytical system that could lead to an underestimation of the amount of the target analytes in the samples. The following results were qualified:

- Benzene, toluene, ethylbenzene, and xylenes in 2 of 66 samples.

The LCS/LCSD RPD for benzene, toluene, ethylbenzene, and xylenes did not meet the criteria for acceptability in all cases. The associated detected results were qualified as estimated (J). Benzene was nondetected in the associated samples. Because the RPD exceedances involved poor agreement among two detected values, detected sample results are not likely to be false positives. The following results were qualified:

- Toluene, ethylbenzene, and xylenes in 2 of 66 samples.

EPA Test Method 8015, modified (Gasoline)

The surrogate recoveries in two samples were below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 2 out of 66 samples were qualified.

EPA Test Method 8015, modified (Diesel)

Twenty-five samples were analyzed without the required surrogate spikes.

EPA Test Method 7421 - Lead

Lead was detected below the reporting limit in method and calibration blanks. Detected sample results were qualified as nondetected (U) if they were reported at concentrations less than or equal to five times the highest concentration observed in the associated blank. The following results were qualified:

- Lead in 11 of 29 samples; 11 results were above the reporting limit.

The LCS recoveries for lead in two analytical batches were above the control limits. Apparently, no reextraction and reanalysis was performed. The associated detected results were qualified as estimated (J+). High spike recoveries suggest a bias in the analytical system that could lead to an overestimation of the amount of the target analytes in the samples. The following results were qualified:

- Lead in 10 of 29 samples.

F2.3 Data Quality

The following data quality section reviews the precision, accuracy, representativeness, and completeness of the Building 4110 data. Results of the data validation indicate that the data are usable.

F2.3.1 Precision and Accuracy

Precision and accuracy were evaluated during data validation by evaluating the results of LCS/LCSD recoveries and RPD calculations, surrogate compound recoveries, MS/MSD recoveries and RPD calculations, and laboratory duplicate results. In addition, the results of laboratory method blanks, calibration blanks, an equipment blank, and a trip blank were reviewed for evidence of contamination.

The following results were qualified as nondetected, with elevated reporting limits, because of low-level method blank or calibration blank contamination.

- Lead in 11 of 29 samples.

Detected and nondetected results were also qualified as estimated because of spike recovery or LCS/LCSD RPD exceedances that were not severe. The detected results may underestimate or overestimate the true amount of the analyte present in the sample, depending on the type and direction of the exceedance. It is not likely, however, that false negatives or false positives were reported. MS/MSD analyses were not required or performed on the analytical batch created for aqueous QC blank samples; these QC samples were collected to monitor soil sampling activities.

The mobile laboratory analyzed 25 samples for diesel without the required surrogate spikes. Accuracy was evaluated using the results of LCS and MS/MSD recoveries. Because these accuracy criteria were met, sample results were not qualified.

F2.3.2 Representativeness

Representativeness is a parameter that provides the data user with a degree of assurance that samples were collected and handled using appropriate procedures, and therefore are representative of site conditions. Based on the review of the work plan, field notes and observations, chain of custody information, and cooler receipt forms, the correct sampling procedures were followed. Sample preservation and holding time requirements were also met.

F2.3.3 Completeness

Completeness is defined as the ratio of the number of acceptable analytical results obtained to the total number of analytical results that were anticipated and reported. An analytical result is a reported value for an analyte expressed either as a detected concentration or nondetected at the reporting limit. Completeness of the data was evaluated for each test method in the following manner.

Analytical completeness is a measure of the amount of data that was determined during the data validation to be acceptable for the intended purposes. The analytical completeness requirement for the project is 85 percent. An analytical result is unacceptable in the analytical completeness evaluation if:

- The analytical result was from a sample for which the holding time criterion was not met (H-qualifer).
- The analytical result was qualified as rejected (R-qualifer).

Analytical completeness values for each test method are indicated in Table F2. The 85 percent criterion for analytical completeness was met for all test methods

F2.4 Recommendations for Corrective Action

- The laboratory has been notified that LCS/LCSD criteria must be met before an analysis can proceed
- The laboratory has been notified that matrix spikes must be reanalyzed when out-of-control recoveries are observed.

F3.0 QUALITY CONTROL SUMMARY REPORT - BUILDING 4590

Analytical results from Building 4590 at Fort Ord were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). The validation evaluated the quality of the data with respect to a set of QC criteria, including precision, accuracy, representativeness, and completeness. The QC samples used to assess data quality consisted of laboratory duplicate samples, MS/MSD, LCS/LCSD, method blanks, calibration blanks, equipment blanks, field water blanks, and trip blanks. Holding times and laboratory surrogate spike recoveries were also evaluated. The following quality control summary report documents the findings of the data validation. Attached to this appendix are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results and data qualifiers applied to sample results.

F3.1 Analytical Summary

During the 1993 sampling events, soil samples were collected and submitted to Quanterra Environmental Services, West Sacramento, California, for analysis. Table F1 lists identifiers for the samples collected at Building 4590 between October 12 and 21, 1993.

The following test methods were performed. Not all analyses were requested for all samples.

- EPA Test Method 8020 - BTEX
- EPA Test Method 8015, modified - volatile petroleum hydrocarbons as gasoline
- EPA Test Method 8015, modified - extractable petroleum hydrocarbons as diesel
- EPA Test Method 7421 - lead by Graphite Furnace Atomic Absorption (GFAA).

F3.2 Data Validation Results

The following section discusses only those QA/QC results that were outside of acceptance criteria and data qualifiers that were applied as a result of the QA/QC exceedance(s), and potential impacts on data usability. QA/QC results are not mentioned in the following section if results were within acceptance criteria.

<u>EPA Test Method 8020 - BTEX</u>

The surrogate recovery in one sample was below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 1 out of 31 samples were qualified.

<u>EPA Test Method 8015, modified (Gasoline)</u>

The surrogate recovery in one sample was below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 1 out of 31 samples were qualified.

EPA Test Method 7421 - Lead

Lead was detected below the reporting limit in calibration blanks. Detected sample results were qualified as nondetected (U) if they were reported at concentrations less than or equal to five times the highest concentration observed in the associated blank. The following results were qualified:

- Lead in 25 of 30 samples; 25 results were above the reporting limit.

F3.3 Data Quality

The following data quality section discusses the precision, accuracy, representativeness, and completeness of the Building 4590 data. Results of the data validation indicate that the data are usable.

F3.3.1 Precision and Accuracy

Precision and accuracy were evaluated during data validation by evaluating results of LCS/LCSD recoveries and RPD calculations, surrogate compound recoveries, MS/MSD recoveries and RPD calculations, and laboratory duplicate results. In addition, the results of laboratory method blanks, calibration blanks, equipment blanks, a field water blank, and a trip blank were reviewed for evidence of contamination. MS/MSD analyses were not required or performed on the analytical batch created for aqueous QC blank samples; these QC samples were collected to monitor soil sampling activities.

The following results were qualified as nondetected, with elevated reporting limits, because of low-level method blank or calibration blank contamination.

- Lead in 25 of 30 samples.

Numerous detected and nondetected results were also qualified as estimated because of spike recovery exceedances that were not severe. The detected results may underestimate or overestimate the true amount of the analyte present in the sample, depending on the type and direction of the exceedance. It is not likely, however, that false negatives or false positives were reported.

F3.3.2 Representativeness

Representativeness is a parameter that provides the data user with a degree of assurance that samples were collected and handled using appropriate procedures, and therefore are representative of site conditions. Based on the review of the work plan, field notes and observations, chain of custody information, and cooler receipt forms, the correct sampling procedures were followed. Sample preservation and holding time requirements were also met.

F3.3.3 Completeness

Completeness is defined as the ratio of the number of acceptable analytical results obtained to the total number of analytical results that were anticipated and reported. An analytical result is a reported value for an analyte expressed either as a detected concentration or nondetected at the reporting limit. Completeness of the data was evaluated for each test method in the following manner.

Analytical completeness is a measure of the amount of data that was determined during the data validation to be acceptable for the intended purposes. The analytical completeness requirement for the project is 85 percent. An analytical result is unacceptable in the analytical completeness evaluation if:

- The analytical result was from a sample for which the holding time criterion was not met (H-qualifer).
- The analytical result was qualified as rejected (R-qualifer).

Analytical completeness values for each test method are indicated in Table F2. The 85 percent criterion for analytical completeness was met for all test methods

F3.4 Recommendations for Corrective Action

The laboratory has been notified that reextraction and reanalysis shall be performed when QA/QC criteria are not met.

F4.0 QUALITY CONTROL SUMMARY REPORT - FACILITY 2754

Analytical results from Facility 2754 at Fort Ord were validated according to procedures specified in the Fort Hunter Liggett and Non-NPL Sites QAPP (*HLA, 1993d*). The validation evaluated the quality of the data with respect to a set of QC criteria, including precision, accuracy, representativeness, and completeness. The QC samples used to assess data quality consisted of laboratory duplicate samples, MS/MSD, LCS/LCSD, field duplicate samples, method blanks, calibration blanks, and trip blanks. Holding times and laboratory surrogate spike recoveries were also evaluated. The following quality control summary report documents the findings of the data validation. Attached to this appendix are data validation worksheet tables that summarize data validation review parameters, acceptance criteria, QA/QC results and data qualifiers applied to sample results.

F4.1 Analytical Summary

During 1993, 1994, and 1995, soil samples were collected and submitted to Quanterra Environmental Services, West Sacramento, California, for analysis. During 1996, soil samples were collected and submitted to Agriculture and Priority Pollutant Laboratories, Inc., (APPL), Fresno, California, for analysis. Table F1 lists identifiers for the samples collected at Facility 2754 between November 2, 1993, and January 17, 1996.

The following test methods were performed. Not all analyses were requested for all samples.

- EPA Test Method 8020 - BTEX
- EPA Test Method 8015, modified - volatile petroleum hydrocarbons as gasoline
- EPA Test Method 8015, modified - extractable petroleum hydrocarbons as diesel
- EPA Test Method 8240 - volatile organic compounds (VOCs)
- EPA Test Method 8270 - polycyclic aromatic hydrocarbons (PAHs)
- EPA Test Method 6010 - cadmium, chromium, lead, nickel, and zinc by Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- EPA Test Method 7421 - lead by Graphite Furnace Atomic Absorption (GFAA)
- EPA Test Method 7420, modified - organic lead.

F4.2 Data Validation Results

The following section discusses only these QA/QC results that were outside of acceptance criteria and data qualifiers that were applied as a result of the QA/QC exceedance(s), and potential impacts on data usability. QA/QC results are not mentioned in the following section if results were within acceptance criteria.

<u>EPA Test Method 8020 - BTEX</u>

The surrogate recovery in one sample was below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 1 out of 21 samples were qualified.

<u>EPA Test Method 8015, modified (Gasoline)</u>

The surrogate recoveries in three samples were below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 3 out of 46 samples were qualified.

<u>EPA Test Method 8015, modified (Diesel)</u>

The surrogate recovery in one sample was below the control limits. Reextraction and reanalysis were not performed. The associated detected and nondetected results were qualified as estimated (J-). Low spike recoveries suggest a matrix effect that could lead to an underestimation of the amount of the target analytes in the samples. Results in 1 out of 43 samples were qualified.

EPA Test Method 8240 - VOCs

Acetone, methylene chloride, and methyl ethyl ketone were detected between one and five times the reporting limit in the method blanks. Because these compounds are recognized as common laboratory contaminants, detected sample results were qualified as nondetected (U) if they were reported at concentrations less than or equal to ten times the highest concentration observed in the associated blank. The following results were qualified:

- Acetone in 8 of 29 samples; three results were above the reporting limit
- Methylene chloride in 7 of 29 samples; one result was above the reporting limit
- Methyl ethyl ketone in 3 of 29 samples; one result was above the reporting limit.

EPA Test Method 6010/7421 - Cadmium, Chromium, Nickel, Lead, Zinc

Lead, nickel, and zinc were detected below the reporting limit in method and calibration blanks. Detected sample results were qualified as nondetected (U) if they were reported at concentrations less than or equal to five times the highest concentration observed in the associated blank. The following results were qualified:

- Lead in 6 of 25 samples; 6 results were above the reporting limit
- Nickel in 4 of 25 samples; 1 result was above the reporting limit
- Zinc in 8 of 25 samples; 7 results were above the reporting limit.

The matrix duplicate RPD for chromium did not meet the criteria for acceptability in all cases. Reextraction and reanalysis produced similar values. The associated detected results were qualified as estimated (J). Failure to meet duplicate precision criteria could indicate subsampling variability or a matrix effect that prevents the precise quantification of these metals in the samples. However, because the RPD exceedances involved poor agreement among two detected values, detected sample results are not likely to be false positives. The following results were qualified:

- Chromium 14 of 25 samples.

F4.3 Data Quality

The following data quality section reviews the precision, accuracy, representativeness, and completeness of the Facility 2754 data.

F4.3.1 Precision and Accuracy

Precision and accuracy were evaluated during data validation by evaluating the results of the LCS/LCSD recoveries and RPD calculations, surrogate compound recoveries, MS/MSD recoveries and RPD calculations, and laboratory duplicate results. In addition, the results of laboratory method blanks, calibration blanks, and a trip blank were reviewed for evidence of contamination.

The following results were qualified as nondetected, with elevated reporting limits, because of low-level method blank or calibration blank contamination.

- Acetone in 3 of 29 samples
- Methylene chloride in 1 of 29 samples
- Methyl ethyl ketone in 1 of 29 samples
- Lead in 6 of 25 samples
- Nickel in 1 of 25 samples
- Zinc in 7 of 25 samples.

Detected and nondetected results were also qualified as estimated because of spike recovery or matrix duplicate RPD exceedances that were not severe. The detected results may underestimate or overestimate the true amount of the analyte present in the sample, depending on the type and direction of the exceedance. It is not likely, however, that false negatives or false positives were reported.

F4.3.2 Representativeness

Representativeness is a parameter that provides the data user with a degree of assurance that samples were collected and handled using appropriate procedures, and therefore are representative of site conditions. Based on the review of the work plan, field notes and observations, chain of custody information, and cooler receipt forms, the correct sampling procedures were followed. Sample preservation and holding time requirements were also met.

Field duplicate precision was evaluated by calculating the RPD between detected results in the sample and the duplicate. The control limits for field duplicates are an RPD less than or equal to 50 percent. Two samples were collected in duplicate. Most of the analytes were nondetected in both the sample and duplicate. Two sets of detected results (for gasoline and diesel) did not agree to within an RPD of 50 percent. However, the degree of RPD exceedance was not severe and may suggest sample inhomogeneity.

F4.3.3 Completeness

Completeness is defined as the ratio of the number of acceptable analytical results obtained to the total number of analytical results that were anticipated and reported. An analytical result is a reported value for an analyte expressed either as a detected concentration or nondetected at the reporting limit. Completeness of the data was evaluated for each test method in the following manner.

Analytical completeness is a measure of the amount of data that was determined during the data validation to be acceptable for the intended purposes. The analytical completeness requirement for the project is 85 percent. An analytical result is unacceptable in the analytical completeness evaluation if:

- The analytical result was from a sample for which the holding time criterion was not met (H-qualifer).
- The analytical result was qualified as rejected (R-qualifer).

Analytical completeness values for each test method are indicated in Table F2. The 85 percent criterion for analytical completeness was met for all test methods.

F4.4 Recommendations for Corrective Action

- The laboratory has been notified that matrix duplicates must be reanalyzed when out-of-control RPDs are observed
- The laboratory has been notified that samples must be reanalyzed when out-of-control surrogate recoveries are observed.

Table F1. Sample Designations
Site Investigation Report
Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
0723900001SA	ES-4107-01	9344Z410701F	soil	11/1/93
0723900002SA	ES-4107-02	9344Z410702F	soil	11/1/93
0723900003SA	ES-4107-03	9344Z410703F	soil	11/1/93
0723900004SA	ES-4107-04	9344Z410704F	soil	11/1/93
0723900005SA	ES-4107-05	9344Z410705F	soil	11/1/93
0723900006SA	ES-4107-06	9344Z410706F	soil	11/1/93
1A062-35	ES-4107-07	9426Z410001F	soil	6/28/94
1A062-36	ES-4107-08	9426Z410002F	soil	6/28/94
1A062-37	ES-4107-09	9426Z410003F	soil	6/28/94
1A062-38	ES-4107-10	9426Z410004F	soil	6/28/94
1A088-05	ES-4107-11	9430Z410105F	soil	7/29/94
1A088-06	ES-4107-12	9430Z410106F	soil	7/29/94
1A088-07	ES-4107-13	9430Z410108F	soil	7/29/94
1A088-08	ES-4107-14	9430Z410109F	soil	7/29/94
0769470001SA	ES-4107-15	9430Z410110F	soil	7/29/94
1A088-09	ES-4107-15	9430Z410111F	soil	7/29/94
1A088-10	ES-4107-16	9430Z410112F	soil	7/29/94
1A088-11	ES-4107-17	9430Z410113F	soil	7/29/94
1A088-03	SP-4107-4A-4D	9430Z41114AF	soil	7/29/94
1A088-04	SP-4107-5A-5D	9430Z41115AF	soil	7/29/94
1A088-01	SP-4107-6A-6D	9430Z41116AF	soil	7/29/94
1A088-02	SP-4107-7A-7D	9430Z41117AF	soil	7/29/94
0723470001SA	SB-4110-01	9343C411030F	soil	10/27/93
0723470002SA	SB-4110-01	9343C411032F	soil	10/27/93
0723470003SA	SB-4110-01	9343C411033F	soil	10/27/93
0723470004SA	SB-4110-01	9343C411034F	soil	10/27/93
0723470005SA	SB-4110-01	9343C411035F	soil	10/27/93
0723470006SA	SB-4110-01	9343C411040F	soil	10/27/93
0721740008SA	SB-4110-02	9343C411042F	soil	10/28/93
0723870007SA	SB-4110-02	9343C411045F	soil	10/28/93
0721740010SA	SB-4110-02	9343C411048F	soil	10/28/93
0721740009SA	SB-4110-02	9343C411049F	soil	10/28/93
0721740012SA	SB-4110-03	9343C411055F	soil	10/28/93
0721740013SA	SB-4110-03	9343C411056F	soil	10/28/93
0721740011SA	SB-4110-03	9343C411058F	soil	10/28/93
0723870006SA	SB-4110-04	9343C411060F	soil	10/28/93
0721740014SA	SB-4110-04	9343C411063F	soil	10/28/93
0721740015SA	SB-4110-04	9343C411064F	soil	10/28/93
0721740016SA	SB-4110-04	9343C411066F	soil	10/28/93
0721740019SA	SB-4110-05	9343C411068F	soil	10/28/93
0721740018SA	SB-4110-05	9343C411069F	soil	10/28/93
0721740017SA	SB-4110-05	9343C411070F	soil	10/28/93
0723890001SA	Equipment Blank	9343C411091B	water	10/29/93
0723890002SA	Trip Blank	9343C411092A	water	10/29/93

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Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
0721740020SA	SB-4110-06	9343C411077F	soil	10/29/93
0723870001SA	SB-4110-06	9343C411078F	soil	10/29/93
0723870002SA	SB-4110-06	9343C411082F	soil	10/29/93
0723870003SA	SB-4110-07	9343C411087F	soil	10/29/93
0723870004SA	SB-4110-07	9343C411088F	soil	10/29/93
0723870005SA	SB-4110-07	9343C411090F	soil	10/29/93
1A062-11	SP-4110-01	9425Z411001F	soil	6/22/94
0768600001SA	SP-4110-01	9425Z411001FF	soil	6/22/94
1A062-12	SP-4110-02	9425Z411002F	soil	6/22/94
0768600002SA	SP-4110-02	9425Z411002FF	soil	6/22/94
1A062-13	SP-4110-03	9425Z411003F	soil	6/22/94
0768600003SA	SP-4110-03	9425Z411003FF	soil	6/22/94
1A062-14	SP-4110-04	9425Z411004F	soil	6/22/94
0768600004SA	SP-4110-04	9425Z411004FF	soil	6/22/94
1A062-15	SP-4110-05	9425Z411005F	soil	6/22/94
0768600005SA	SP-4110-05	9425Z411005FF	soil	6/22/94
1A062-16	SP-4110-06	9425Z411006F	soil	6/22/94
0768600006SA	SP-4110-06	9425Z411006FF	soil	6/22/94
1A062-17	SP-4110-07	9425Z411007F	soil	6/22/94
0768600007SA	SP-4110-07	9425Z411007FF	soil	6/22/94
1A062-18	SP-4110-08	9425Z411008F	soil	6/22/94
0768600008SA	SP-4110-08	9425Z411008FF	soil	6/22/94
1A062-19	SP-4110-09	9425Z411009F	soil	6/22/94
0768600009SA	SP-4110-09	9425Z411009FF	soil	6/22/94
1A062-20	SP-4110-10	9425Z411010F	soil	6/22/94
0768600010SA	SP-4110-10	9425Z411010FF	soil	6/22/94
1A062-21	SP-4110-11	9425Z411011F	soil	6/22/94
0768600011SA	SP-4110-11	9425Z411011FF	soil	6/22/94
1A062-22	SP-4110-12	9425Z411012F	soil	6/22/94
0768600012SA	SP-4110-12	9425Z411012FF	soil	6/22/94
1A062-23	SP-4110-13	9425Z411013F	soil	6/22/94
0768600013SA	SP-4110-13	9425Z411013FF	soil	6/22/94
1A062-24	SP-4110-14	9425Z411014F	soil	6/22/94
0768600014SA	SP-4110-14	9425Z411014FF	soil	6/22/94
0772880005SA	SP-4110-09	9430Z41103AF	soil	7/27/94
1A084-16	SP-4110-09	9430Z41103AF	soil	7/27/94
0772880006SA	SP-4110-10	9430Z41104AF	soil	7/27/94
1A084-20	SP-4110-10	9430Z41104AF	soil	7/27/94
0772880008SA	ES-4110-12	9430Z411088F	soil	7/27/94
1A084-36	ES-4110-12	9430Z411088F	soil	7/27/94
0772880009SA	ES-4110-13	9430Z411089F	soil	7/27/94
1A084-37	ES-4110-13	9430Z411089F	soil	7/27/94
0772880015SA	ES-4110-14	9430Z411090F	soil	7/27/94
1A084-43	ES-4110-14	9430Z411090F	soil	7/27/94

Table F1. Sample Designations
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Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
0769090001SA	ES-4110-14	9430Z411091F	soil	7/27/94
0772880010SA	ES-4110-15	9430Z411096F	soil	7/27/94
1A084-38	ES-4110-15	9430Z411096F	soil	7/27/94
0772880011SA	ES-4110-16	9430Z411097F	soil	7/27/94
1A084-39	ES-4110-16	9430Z411097F	soil	7/27/94
0769090002SA	ES-4110-16	9430Z411099F	soil	7/27/94
0772880012SA	ES-4110-17	9430Z411100F	soil	7/27/94
1A084-40	ES-4110-17	9430Z411100F	soil	7/27/94
0772880013SA	ES-4110-18	9430Z411101F	soil	7/27/94
1A084-41	ES-4110-18	9430Z411101F	soil	7/27/94
0772880014SA	ES-4110-19	9430Z411102F	soil	7/27/94
1A084-42	ES-4110-19	9430Z411102F	soil	7/27/94
0772880001SA	SP-4110-02	9430Z41192AF	soil	7/27/94
1A084-01	SP-4110-02	9430Z41192AF	soil	7/27/94
0772880002SA	SP-4110-03	9430Z41193AF	soil	7/27/94
1A084-05	SP-4110-03	9430Z41193AF	soil	7/27/94
0772880003SA	SP-4110-06	9430Z41194AF	soil	7/27/94
1A084-09	SP-4110-06	9430Z41194AF	soil	7/27/94
0772880004SA	SP-4110-07	9430Z41195AF	soil	7/27/94
1A084-12	SP-4110-07	9430Z41195AF	soil	7/27/94
0794210009SA	SB-4110-08	9450Z411009F	soil	12/13/94
0794210010SA	SB-4110-08	9450Z411010F	soil	12/13/94
0794210011SA	SB-4110-09	9450Z411011F	soil	12/14/94
0794210012SA	SB-4110-09	9450Z411012F	soil	12/14/94
0794210013SA	SB-4110-11	9450Z411013F	soil	12/14/94
0794210014SA	SB-4110-11	9450Z411014F	soil	12/14/94
0800070013SA	SB-4110-10	9504Z411062F	soil	1/27/95
0800070014SA	SB-4110-10	9504Z411063F	soil	1/27/95
0720490001SA	Equipment Blank	9341HCPT005B	water	10/12/93
0720520001SA	SB-4590-04	9341HCPT001	soil	10/12/93
0720520002SA	SB-4590-04	9341HCPT002	soil	10/12/93
0720520003SA	SB-4590-04	9341HCPT004	soil	10/12/93
0720520004SA	SB-4590-06	9342HUST006F	soil	10/19/93
0720520005SA	SB-4590-06	9342HUST008F	soil	10/19/93
0720520006SA	SB-4590-06	9342HUST009F	soil	10/19/93
0720520007SA	SB-4590-05	9342HUST010F	soil	10/19/93
0720520008SA	SB-4590-05	9342HUST011F	soil	10/19/93
0720520009SA	SB-4590-05	9342HUST013F	soil	10/19/93
0720520010SA	SB-4590-02	9342HUST015F	soil	10/19/93
0720520011SA	SB-4590-02	9342HUST016F	soil	10/19/93
0720520012SA	SB-4590-02	9342HUST017F	soil	10/19/93
0720520013SA	SB-4590-03	9342HUST018F	soil	10/19/93
0720520014SA	SB-4590-03	9342HUST020F	soil	10/19/93
0720520015SA	SB-4590-03	9342HUST022F	soil	10/19/93
0720520016SA	SB-4590-07	9342HUST026F	soil	10/20/93

Table F1. Sample Designations
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Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
0720520017SA	SB-4590-07	9342HUST027F	soil	10/20/93
0720520018SA	SB-4590-07	9342HUST028F	soil	10/20/93
0720520019SA	SB-4590-07	9342HUST029F	soil	10/20/93
0720520020SA	SB-4590-07	9342HUST030F	soil	10/20/93
0721740001SA	SB-4590-07	9342HUST031F	soil	10/20/93
0721740002SA	SB-4590-01	9342HUST032F	soil	10/20/93
0721740003SA	SB-4590-01	9342HUST035F	soil	10/20/93
0721740004SA	SB-4590-01	9342HUST037F	soil	10/20/93
0720490002SA	Equipment Blank	9342HUST048B	water	10/21/93
0720490003SA	Trip Blank	9342HUST049A	water	10/21/93
0720490004SA	Field Water Blank	9342HUST050C	water	10/21/93
0721740005SA	SB-4590-08	9342HUST040F	soil	10/21/93
0721740006SA	SB-4590-08	9342HUST042F	soil	10/21/93
0721740007SA	SB-4590-08	9342HUST044F	soil	10/21/93
0724320001SA	ES-2754-01	9344Z275401F	soil	11/2/93
0724320002SA	ES-2754-02	9344Z275402F	soil	11/2/93
0724320003SA	ES-2754-03	9344Z275403F	soil	11/2/93
0724320004SA	ES-2754-04	9344Z275404F	soil	11/2/93
0724320005SA	ES-2754-05	9344Z275405F	soil	11/2/93
0724320006SA	ES-2754-06	9344Z275406F	soil	11/2/93
0724320007SA	ES-2754-07	9344Z275407F	soil	11/2/93
0724320008SA	ES-2754-08	9344Z275408F	soil	11/2/93
0724320009SA	ES-2754-09	9344Z275409F	soil	11/3/93
0724320010SA	ES-2754-10	9344Z275410F	soil	11/3/93
0765150001SA	ES-2754-11	9426Z275007F	soil	6/29/94
0765150002SA	ES-2754-12	9426Z275009F	soil	6/29/94
0765150003SA	ES-2754-13	9426Z275010F	soil	6/29/94
0765150004SA	ES-2754-14	9426Z275012F	soil	6/29/94
0794210019SA	SB-2754-04	9450Z275019F	soil	12/16/94
0794210020SA	SB-2754-04	9450Z275020F	soil	12/16/94
0794290001SA	SB-2754-04	9450Z275021F	soil	12/16/94
0794290002SA	SB-2754-03	9450Z275022F	soil	12/16/94
0794290003SA	SB-2754-03	9450Z275023F	soil	12/16/94
0794290004SA	SB-2754-03	9450Z275024F	soil	12/16/94
0795300005SA	SB-2754-02	9451Z275034F	soil	12/22/94
0795300006SA	SB-2754-02	9451Z275035F	soil	12/22/94
0795300007SA	SB-2754-02	9451Z275036F	soil	12/22/94
0795300008SA	SB-2754-02	9451Z275037F	soil	12/22/94
0800070015SA	SB-2754-01	9504Z275064F	soil	1/27/95
0800070016SA	SB-2754-01	9504Z275065F	soil	1/27/95
0800070017SA	SB-2754-01	9504Z275066F	soil	1/27/95
0800070018SA	SB-2754-01	9504Z275067F	soil	1/27/95
0800070019SA	SB-2754-01	9504Z275068F	soil	1/27/95
22004-33795	ES-2754-15	9603H275170F	soil	1/17/96

Table F1. Sample Designations
Site Investigation Report
Buildings 4107, 4110, and 4590, and Facility 2754
Former Fort Ord, California

Laboratory Sample Number	Station Number	HLA Sample Number	Sample Matrix	Sample Date
22004-33796	ES-2754-15	9603H275172D	soil	1/17/96
22004-33797	ES-2754-16	9603H275173F	soil	1/17/96
22004-33798	ES-2754-17	9603H275174F	soil	1/17/96
22004-33793	SP-2754-D	9603H275175F	soil	1/17/96
22004-33794	SP-2754-E	9603H275176F	soil	1/17/96
22004-33799	ES-2754-18	9603H275177F	soil	1/17/96
22004-33800	ES-2754-19	9603H275178F	soil	1/17/96
22004-33801	ES-2754-20	9603H275182F	soil	1/17/96
22004-33802	ES-2754-20	9603H275184D	soil	1/17/96
22004-33803	SP-2754-C	9603H275185F	soil	1/17/96
22004-33804	SP-2754-F	9603H275186F	soil	1/17/96
22004-33805	SP-2754-B	9603H275187F	soil	1/17/96
22004-33806	SP-2754-A	9603H275188F	soil	1/17/96
22004-33807	SP-2754-G	9603H275189F	soil	1/17/96
22004-33808	SP-2754-H	9603H275190F	soil	1/17/96
22004-33809	Trip Blank	9603H275191A	water	1/17/96

Table F2. Analytical and Contract Completeness Calculations
Site Investigation Report
Buildings 4107, 4110, and 4590 and Facility 2754
Former Fort Ord, California

Test Method	Number of Samples	Number of Results	Analytical Unacceptable Results	Percent Analytical Completeness
Building 4107				
8020	22	88	0	100
8015m (Gas)	22	22	0	100
8015m (Diesel)	22	22	0	100
SM5520	6	6	0	100
7421 (Lead)	6	6	0	100
Building 4110				
8020	66	264	0	100
8015m (Gas)	66	66	0	100
8015m (Diesel)	65	65	0	100
7421 (Lead)	29	29	0	100
7420m	36	36	0	100
Building 4590				
8020	31	124	0	100
8015m (Gas)	31	31	0	100
8015m (Diesel)	30	30	0	100
7421 (Lead)	30	30	0	100
Facility 2754				
8020	21	84	0	100
8240	29	986	0	100
8270	45	720	0	100
8015m (Gas)	46	46	0	100
8015m (Diesel)	43	43	0	100
6010/7421 (Cd,Cr, Ni,Pb,Zn)	25	125	0	100
7420m	4	4	0	100

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

				Combined method - Gas/BTEX							Lead only	
			EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
Sample Number	Sample Matrix	Sample Date	Analysis W: 14 days S: 14 days	Analysis W: 14 days S: 14 days	Analysis W: 14 days S: 14 days	Extraction W: 14 days S: 14 days	Analysis W: 40 days S: 40 days	Analysis W: 28 days S: 28 days	Extraction W: 7 days S: 14 days	Analysis W: 40 days S: 40 days	Analysis W: 180 days S: 180 days	Analysis W: 28 days S: 28 days
9344Z410701F	soil	11/1/93	NA	11/4/93	11/4/93	11/3/93	11/5/93	11/4/93	NA	NA	11/4/93	NA
9344Z410702F	soil	11/1/93	NA	11/5/93	11/5/93	11/3/93	11/5/93	11/4/93	NA	NA	11/4/93	NA
9344Z410703F	soil	11/1/93	NA	11/5/93	11/5/93	11/3/93	11/5/93	11/4/93	NA	NA	11/4/93	NA
9344Z410704F	soil	11/1/93	NA	11/5/93	11/5/93	11/3/93	11/4/93	11/4/93	NA	NA	11/4/93	NA
9344Z410705F	soil	11/1/93	NA	11/5/93	11/5/93	11/3/93	11/5/93	11/4/93	NA	NA	11/4/93	NA
9344Z410706F	soil	11/1/93	NA	11/4/93	11/4/93	11/3/93	11/4/93	11/4/93	NA	NA	11/4/93	NA

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	701F	702F	703F	704F	705F	706F				
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
SM5520 - All analytes were nondetected in the method blanks.													
EPA 6010 - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected ("U").

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery											
	Water	Soil										
EPA 8020 (VOCs)			701F	702F	703F	704F	705F	706F				
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA				
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	113	315*	115	87	166*	88				
				J+ (det)			J+ (det)					
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	120	120	98	97	110	93				
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA				
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA				
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA				
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA				
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA				
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA				
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA				
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA				
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA				

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD Water**	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	110	111	1	102	103	1			
Toluene	79-122/18	81-115/12	110	112	2	98	100	2			
Ethylbenzene	73-117/18	81-118/13	108	109	1	100	102	2			
Xylenes	75-120/14	85-114/12	110	111	1	99	100	1			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	102	104	2	94	97	3			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	90	89	1	NA	NA	NA			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	104	104	0	NA	NA	NA			
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Lead	75-125	75-125	105	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	NA	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	NA	NA	NA	NA	NA	NA			

Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72390

QA Reviewer: Edward Long
Review Date: 10/26/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)			9344Z410703F								
Volatile PH as Gasoline	65-135/30	65-135/30	4X	4X	NA						
EPA 8015m (Diesel)			9344Z410703F								
Diesel Fuel	65-150/30	65-150/30	4X	4X	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520			9344Z410703F								
Oil and Grease	65-135/40	65-135/40	4X	4X	NA						
EPA 6010/7000			9344Z410702F								
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	75	NA	11						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

				Combined method - Gas/BTEX								
			EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	**Sample Matrix**	**Sample Date**	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9430Z410110F	soil	7/29/94	NA	8/10/94	8/10/94	8/5/94	8/11/94	NA	NA	NA	NA	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	**Type of Blank**	**Blank Concentration**	**Action Level (5X, 10X)**
EPA 8020 - All analytes were nondetected in the method blanks.			
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.			
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.			

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery Water	FHL Control Limits for % recovery Soil	110F									
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA									
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	97									
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	97									
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA									
4-Bromofluorobenzene	86-115	74-121	NA									
1,2-Dichloroethane-d4	76-114	70-121	NA									
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA									
2-Fluorobiphenyl	43-116	30-115	NA									
Terphenyl-d14	33-141	18-137	NA									
Phenol-d5	10-94	24-113	NA									
2-Fluorophenol	21-100	25-121	NA									
2,4,6-Tribromophenol	10-123	19-122	NA									

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD		LCS	LCSD		LCS	LCSD		LCS	LCSD	
	Water	Soil	%Rec	%Rec	RPD	%Rec	%Rec	RPD	%Rec	%Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	106	108	2						
Toluene	79-122/18	81-115/12	94	95	1						
Ethylbenzene	73-117/18	81-118/13	104	104	0						
Xylenes	75-120/14	85-114/12	105	107	2						
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	105	103	2						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	85	86	1						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA						
EPA 7420m											
Organic lead	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 76947

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD		MS	MSD		MS	MSD		MS	MSD	
	Water	Soil	%Rec	%Rec	RPD	%Rec	%Rec	RPD	%Rec	%Rec	RPD
EPA 8020 (Aromatic VOCs)				9430Z410110F							
Benzene	65-135/25	65-135/25	99	92	7						
Toluene	65-135/25	65-135/25	128	95	30*						
Ethylbenzene	65-135/25	65-135/25	90	89	1						
Xylenes	65-135/25	65-135/25	92	92	0						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
			Associated results are ND; no qualifiers applied.								
EPA 8015m (Gasoline)				9430Z410110F							
Volatile PH as Gasoline	65-135/30	65-135/30	94	95	1						
EPA 8015m (Diesel)				9430Z410110F							
Diesel Fuel	65-150/30	65-150/30	82	84	3						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 7420m											
Organic lead	75-125/20	75-125/20	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Onsite **QA Reviewer: E. Long**
Analytical Batch: 1A062 **Review Date: 3/26/96**

Sample Number	Sample Matrix	Sample Date	EPA 8240 (VOCs)	Combined method (BTEX/Gas) EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
			Analysis W: 14 days S: 14 days	Analysis W: 14 days S: 14 days	Analysis W: 14 days S: 14 days	Extraction W: 14 days S: 14 days	Analysis W: 40 days S: 40 days	Analysis W: 28 days S: 28 days	Extraction W: 7 days S: 14 days	Analysis W: 40 days S: 40 days	Analysis W: 180 days S: 180 days	Analysis W: 28 days S: 28 days
9426Z410001F	soil	6/28/94	NA	6/28/94	6/28/94	6/28/94	6/28/94	NA	NA	NA	NA	NA
9426Z410002F	soil	6/28/94	NA	6/28/94	6/28/94	6/28/94	6/28/94	NA	NA	NA	NA	NA
9426Z410003F	soil	6/28/94	NA	6/28/94	6/28/94	6/28/94	6/28/94	NA	NA	NA	NA	NA
9426Z410004F	soil	6/28/94	NA	6/28/94	6/28/94	6/28/94	6/28/94	NA	NA	NA	NA	NA
9425Z411001F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411002F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411003F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411004F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411005F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411006F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411007F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411008F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411009F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411010F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411011F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411012F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411013F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA
9425Z411014F	soil	6/22/94	NA	6/29/94	7/5/94	6/28/94	7/6/94	NA	NA	NA	NA	NA

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Onsite
Analytical Batch: 1A062

QA Reviewer: E. Long
Review Date: 3/26/96

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)
EPA 8020 - All analytes were nondetected in the method blank.			
EPA 8015m (Gas) - All analytes were nondetected in the method blank.			
EPA 8015m (Diesel) - All analytes were nondetected in the method blank.			

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Onsite Environmental
Analytical Batch: 1A062

QA Reviewer: Edward Long
Review Date: 3/26/96

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	**FHL Control Limits for % recovery** **Water**	 **Soil**	9426Z410001F	9426Z410002F	9426Z410003F	9426Z410004F	9425Z411001F	9425Z411002F	9425Z411003F	9425Z411004F	9425Z411005F	9425Z411006F
EPA 8020 (BTEX)												
a,a,a-Trifluorotoluene	75-118	65-135	DIL	DIL	156*	133*	90	92	88	89	89	85
					Qualify: J+ (det)	Qualify: J+ (det)						
EPA 8015m (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Run as combined method with EPA 8020.									
EPA 8015m (Diesel)												
o-Terphenyl	65-150	50-150	DIL	DIL	DIL	DIL	82	DIL	DIL	80	84	DIL

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Onsite Environmental
Analytical Batch: 1A062

QA Reviewer: Edward Long
Review Date: 3/26/96

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	**Soil**	9425Z411007F	9425Z411008F	9425Z411009F	9425Z411010F	9425Z411011F	9425Z411012F	9425Z411013F	9425Z411014F		
EPA 8020 (BTEX)												
a,a,a-Trifluorotoluene	75-118	65-135	70	70	78	73	86	86	85	76		
EPA 8015m (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	NA	NA	NA	NA	NA	NA	NA	NA		
EPA 8015m (Diesel)												
o-Terphenyl	65-150	50-150	DIL	78	DIL	DIL	76	76	79	76		

Run as combined method with EPA 8020.

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Onsite **QA Reviewer: E. Long**
Analytical Batch: 1A062 **Review Date: 3/26/96**

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**										
	Water	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	not analyzed								
Toluene	79-122/18	81-115/12									
Ethylbenzene	73-117/18	81-118/13									
Xylenes	75-120/14	85-114/12									
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	not analyzed								
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	not analyzed								
Fog Oil	65-150/30	65-150/30									

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Onsite
Analytical Batch: 1A062

QA Reviewer: E. Long
Review Date: 3/26/96

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**		**MS**	**MSD**		**MS**	**MSD**		**MS**	**MSD**	
	Water	**Soil**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**
EPA 8020 (Aromatic VOCs)				9425Z411001F							
Benzene	65-135/25	65-135/25	86	86	0						
Toluene	65-135/25	65-135/25	89	88	1						
Ethylbenzene	65-135/25	65-135/25	89	88	1						
Xylenes	65-135/25	65-135/25	86	86	0						
EPA 8015m (Gasoline)				9425Z411001F							
Volatile PH as Gasoline	65-135/30	65-135/30	82	79	4						
EPA 8015m (Diesel)				9425Z411019F							
Diesel Fuel	65-150/30	65-150/30	105	97	8						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Onsite
Analytical Batch: 1A088

QA Reviewer: E. Long
Review Date: 3/26/96

			Combined method (BTEX/Gas)									
Sample Number	**Sample Matrix**	**Sample Date**	EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
			W: 14 days	W: 14 days	W: 14 days	W: 14 days	W: 40 days	W: 28 days	W: 7 days	W: 40 days	W: 180 days	W: 28 days
			S: 14 days	S: 14 days	S: 14 days	S: 14 days	S: 40 days	S: 28 days	S: 14 days	S: 40 days	S: 180 days	S: 28 days
9430Z410105F	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z410106F	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z410108F	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z410109F	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z410111F	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z410112F	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z410113F	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z41114AF-DF	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z41115AF-DF	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z41116AF-DF	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA
9430Z41117AF-DF	soil	7/29/94	NA	8/9/94	8/9/94	8/5/94	8/6/94	NA	NA	NA	NA	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Onsite
Analytical Batch: 1A088

QA Reviewer: E. Long
Review Date: 3/26/96

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)										
EPA 8020 - All analytes were nondetected in the method blank.													
EPA 8015m (Gas) - All analytes were nondetected in the method blank.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blank.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Onsite
Analytical Batch: 1A088

QA Reviewer: E. Long
Review Date: 3/26/96

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	**FHL Control Limits for % recovery**												
	Water	**Soil**											
EPA 8020 (VOCs)			**105F**	**106F**	**108F**	**109F**	**111F**	**112F**	**113F**				
4-Bromofluorobenzene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA				
Mod EPA 8015 (Gasoline)													
4-Bromofluorobenzene	70-130	70-130	87	80	82	86	84	83	86				
Mod EPA 8015 (Diesel)													
o-Terphenyl	65-150	50-150	61	64	72	80	85	124	76				

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Onsite
Analytical Batch: 1A088

QA Reviewer: E. Long
Review Date: 3/26/96

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery Water	FHL Control Limits for % recovery Soil	114AF-DF	115AF-DF	116AF-DF	117AF-DF						
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	N A	N A	N A	N A						
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	74	71	65	77						
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	84	84	74	63						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Onsite
Analytical Batch: 1A088

QA Reviewer: E. Long
Review Date: 3/26/96

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	100	NA	NA						
Toluene	79-122/18	81-115/12	98	NA	NA						
Ethylbenzene	73-117/18	81-118/13	84	NA	NA						
Xylenes	75-120/14	85-114/12	100	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	98	NA	NA						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	69	NA	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Onsite
Analytical Batch: 1A088

QA Reviewer: E. Long
Review Date: 3/26/96

Sample matrix: soil	**FHL Control Limits for % recovery/RPD Water**	**Soil**	**MS %Rec**	**MSD %Rec**	**RPD**	**MS %Rec**	**MSD %Rec**	**RPD**	**MS %Rec**	**MSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)				9430Z410106F							
Benzene	65-135/25	65-135/25	95	95	0						
Toluene	65-135/25	65-135/25	95	93	2						
Ethylbenzene	65-135/25	65-135/25	85	86	1						
Xylenes	65-135/25	65-135/25	95	95	0						
EPA 8015m (Gasoline)				9430Z410106F							
Volatile PH as Gasoline	65-135/30	65-135/30	97	98	1						
EPA 8015m (Diesel)				9430Z410106F							
Diesel Fuel	65-150/30	65-150/30	65	69	1						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation

Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: APPL, Inc.
Analytical Batch: 22004

QA Reviewer: L. Helliwell/E. Long
Review Date: 3/5/96

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**										
	Water	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8270 (PAHs)											
Naphthalene	40-160/30	40-160/30	98	NA	NA						
Fluorene	40-160/30	40-160/30	128	NA	NA						
Pyrene	40-160/30	40-160/30	120	NA	NA						
Benzo(a)pyrene	40-160/30	40-160/30	126	NA	NA						
Indeno(123cd)pyrene	40-160/30	40-160/30	116	NA	NA						
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	NA	NA	NA						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						
EPA 7420m											
Organic lead	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: APPL, Inc.
Analytical Batch: 22004

QA Reviewer: L. Helliwell/E. Long
Review Date: 3/5/96

Sample matrix: soil

	FHL Control Limits for % recovery/RPD											
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)			9603H275175F								
Benzene	65-135/25	65-135/25	116	120	3						
Toluene	65-135/25	65-135/25	117	121	3						
Ethylbenzene	65-135/25	65-135/25	98	101	2						
Xylenes	65-135/25	65-135/25	113	116	3						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)			9603H275172D								
Volatile PH as Gasoline	65-135/30	65-135/30	127	121	5						
EPA 8015m (Diesel)			9603H275176F								
Diesel Fuel	65-150/30	65-150/30	82	78	5						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)											
1,1-Dichloroethene	61-145/14	59-172/22	NA	NA	NA						
Trichloroethene	71-120/14	62-137/24	NA	NA	NA						
Benzene	76-127/11	66-142/21	NA	NA	NA						
Toluene	76-125/13	59-139/21	NA	NA	NA						
Chlorobenzene	75-130/13	60-133/21	NA	NA	NA						

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Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: APPL, Inc.
Analytical Batch: 22004

QA Reviewer: L. Helliwell/E. Long
Review Date: 3/5/96

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8270 (PAHs)				9603H275170F							
Naphthalene	40-160/30	40-160/30	114	100	13						
Fluorene	40-160/30	40-160/30	102	104	2						
Pyrene	40-160/30	40-160/30	104	107	3						
Benzo(a)pyrene	40-160/30	40-160/30	107	111	4						
Indeno(123cd)pyrene	40-160/30	40-160/30	114	113	1						
EPA 6010/7000											
Cadmium	75-125/20	75-125/20	NA	NA	NA						
Chromium	75-125/20	75-125/20	NA	NA	NA						
Lead	75-125/20	75-125/20	NA	NA	NA						
Nickel	75-125/20	75-125/20	NA	NA	NA						
Zinc	75-125/20	75-125/20	NA	NA	NA						
EPA 7420m											
Organic lead	75-125/20	75-125/20	NA	NA	NA						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72049

QA Reviewer: Edward Long
Review Date: 11/1/95

				Combined method - Gas/BTEX							Lead only	
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample	Sample	Sample	W: 14 days	W: 14 days	W: 14 days	W: 14 days	W: 40 days	W: 28 days	W: 7 days	W: 40 days	W: 180 days	W: 28 days
Number	Matrix	Date	S: 14 days	S: 14 days	S: 14 days	S: 14 days	S: 40 days	S: 28 days	S: 14 days	S: 40 days	S: 180 days	S: 28 days
9341HPCT005B	water	10/12/93	NA	10/22/93	10/22/93	10/21/93	10/23/93	NA	NA	NA	11/2/93	NA
9342HUST048B	water	10/21/93	NA	10/28/93	10/28/93	11/1/93	11/3/93	NA	NA	NA	11/2/93	NA
9342HUST049A	water	10/21/93	NA	10/28/93	10/28/93	NA	NA	NA	NA	NA	NA	NA
9342HUST050C	water	10/21/93	NA	10/28/93	10/28/93	11/1/93	11/3/93	NA	NA	NA	11/2/93	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72049

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: water
All units are mg/L, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	**Type of Blank**	**Blank Concentration**	**Action Level (5X, 10X)**										
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010 - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72049

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: water	FHL Control Limits for % recovery		Surrogate recoveries are indicated here for all samples in the reporting batch.									
	Water	Soil										
EPA 8020 (VOCs)			005B	048B	049A	050C						
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA						
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	100	96	97	99						
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	130	100	NA	100						
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA						
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA						
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA						
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA						
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA						
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA						
Phenol-d5	10-94	24-113	NA	NA	NA	NA						
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA						
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72049

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: water	FHL Control Limits for % recovery/RPD Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	90	89	2	NA	NA	NA			
Toluene	79-122/18	81-115/12	88	85	4	NA	NA	NA			
Ethylbenzene	73-117/18	81-118/13	NA	NA	NA	NA	NA	NA			
Xylenes	75-120/14	85-114/12	NA	NA	NA	NA	NA	NA			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	107	103	4	NA	NA	NA			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	91	92	1	93	95	2			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA			
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Lead	75-125	75-125	104	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	NA	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	NA	NA	NA	NA	NA	NA			

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72049

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: water	**FHL Control Limits for % recovery/RPD**		**MS**	**MSD**		**MS**	**MSD**		**MS**	**MSD**	
	Water	**Soil**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	65-135/30	65-135/30	MS/MSD not performed.								
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	MS/MSD not performed.								
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 6010/7000											
Cadmium	75-125	75-125	MS/MSD not performed.								
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	NA	NA	ND						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses**

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72052

QA Reviewer: Edward Long
Review Date: 11/1/95

				Combined method - Gas/BTEX								Lead only	
			EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	**Sample Matrix**	**Sample Date**	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9341HCPT001	soil	10/12/93	NA	10/22/93	10/22/93	10/14/93	10/19/93	NA	NA	NA	10/25/93	NA
9341HCPT002	soil	10/12/93	NA	10/26/93	10/26/93	10/14/93	10/19/93	NA	NA	NA	11/2/93	NA
9341HCPT004	soil	10/12/93	NA	10/22/93	10/22/93	10/14/93	10/19/93	NA	NA	NA	10/26/93	NA
9342HUST006F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST008F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST009F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST010F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST011F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST013F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST015F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST016F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST017F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST018F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST020F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST022F	soil	10/19/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST026F	soil	10/20/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST027F	soil	10/20/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST028F	soil	10/20/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST029F	soil	10/20/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA
9342HUST030F	soil	10/20/93	NA	10/27/93	10/27/93	10/25/93	10/28/93	NA	NA	NA	10/26/93	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72052

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	001F	002F	004F	006F	008F	009F	010F	011F	013F	015F
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010													
Lead	CCB	-1.7	1.7	2.5/-	1.2/U	1.1/U	1.1/U	1.1/U	0.65/U	0.75/U	1.1/U	0.96/U	1.7/U

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72052

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	016F	017F	018F	020F	022F	026F	027F	028F	029F	030F
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010													
Lead	CCB	-1.7	1.7	0.70/U	0.84/U	1.1/U	0.92/U	0.67/U	0.77/U	0.78/U	0.57/U	1.1/U	0.80/U

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72052

QA Reviewer: Edward Long
Review Date: 11/1/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery Water	FHL Control Limits for % recovery Soil	001F	002F	004F	006F	008F	009F	010F	011F	013F	015F
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	106	98	86	82	90	88	65* J- (ND)	78	106	91
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	140	130	120	96	96	96	96	97	97	140
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra | **QA Reviewer: Edward Long**
Analytical Batch: 72052 | **Review Date: 11/1/95**

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	**FHL Control Limits for % recovery**											
	Water	**Soil**	**016F**	**017F**	**018F**	**020F**	**022F**	**026F**	**027F**	**028F**	**029F**	**030F**
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	100	95	91	84	92	87	100	98	98	96
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	99	100	97	100	99	100	98	94	95	95
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72052

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	97	96	1	91	90	1			
Toluene	79-122/18	81-115/12	100	98	2	94	94	0			
Ethylbenzene	73-117/18	81-118/13	101	97	4	93	93	0			
Xylenes	75-120/14	85-114/12	99	94	5	93	92	1			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	94	110	15	78	85	9			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	96	90	6	95	94	1			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA			
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Lead	75-125	75-125	96	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	NA	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	NA	NA	NA	NA	NA	NA			

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Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72052

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9341HCPT004							
Volatile PH as Gasoline	65-135/30	65-135/30	85	86	1						
EPA 8015m (Diesel)				9341HCPT001							
Diesel Fuel	65-150/30	65-150/30	133	128	4						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 6010/7000				9341HCPT002							
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	111	NA	9						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

				Combined method - Gas/BTEX								Lead only	
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270			EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)			(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis		Analysis	Analysis
Sample Number	**Sample Matrix**	**Sample Date**	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days		W: 180 days S: 180 days	W: 28 days S: 28 days
9342HUST031F	soil	10/20/93	NA	11/2/93	11/2/93	10/25/93	10/29/93	NA	NA	NA		11/8/93	NA
9342HUST032F	soil	10/20/93	NA	11/2/93	11/2/93	10/25/93	10/29/93	NA	NA	NA		11/8/93	NA
9342HUST035F	soil	10/20/93	NA	11/3/93	11/3/93	10/25/93	10/29/93	NA	NA	NA		11/8/93	NA
9342HUST037F	soil	10/20/93	NA	11/2/93	11/2/93	10/25/93	10/29/93	NA	NA	NA		11/8/93	NA
9342HUST040F	soil	10/21/93	NA	11/3/93	11/3/93	10/27/93	11/3/93	NA	NA	NA		11/8/93	NA
9342HUST042F	soil	10/21/93	NA	11/4/93	11/4/93	10/27/93	11/3/93	NA	NA	NA		11/8/93	NA
9342HUST044F	soil	10/21/93	NA	11/4/93	11/4/93	10/27/93	11/3/93	NA	NA	NA		11/8/93	NA
9343C411042F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411048F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411049F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411055F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411056F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411058F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411063F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411064F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411066F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411068F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/13/93	NA	NA	NA		11/8/93	NA
9343C411069F	soil	10/28/93	NA	11/9/93	11/9/93	11/4/93	11/16/93	NA	NA	NA		11/8/93	NA
9343C411070F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA		11/8/93	NA
9343C411077F	soil	10/29/93	NA	11/9/93	11/9/93	11/4/93	11/16/93	NA	NA	NA		11/8/93	NA

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 72174 **Review Date: 11/1/95**

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concen-tration	Action Level (5X, 10X)	HUST031F	HUST032F	HUST035F	HUST037F	HUST040F	HUST042F	HUST044F	C411042F	C411048F	C411049F
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010													
Lead	CCB	-2.0	2.0	1.4/U	2.2/-	1.3/U	1.4/U	1.4/U	1.7/U	1.2/U	2.1/-	1.2/U	1.2/U

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concen-tration	Action Level (5X, 10X)	C411055F	C411056F	C411058F	C411063F	C411064F	C411066F	C411068F	C411069F	C411070F	C411077F
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010													
Lead	CCB	-2.0	2.0	1.7/U	1.2/U	1.1/U	1.6/U	1.1/U	0.66/U	13/-	1.1/U	0.85/U	0.74/U

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

				Combined method - Gas/BTEX								Lead only	
			EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	**Sample Matrix**	**Sample Date**	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9342HUST031F	soil	10/20/93	NA	11/2/93	11/2/93	10/25/93	10/29/93	NA	NA	NA	11/8/93	NA
9342HUST032F	soil	10/20/93	NA	11/2/93	11/2/93	10/25/93	10/29/93	NA	NA	NA	11/8/93	NA
9342HUST035F	soil	10/20/93	NA	11/3/93	11/3/93	10/25/93	10/29/93	NA	NA	NA	11/8/93	NA
9342HUST037F	soil	10/20/93	NA	11/2/93	11/2/93	10/25/93	10/29/93	NA	NA	NA	11/8/93	NA
9342HUST040F	soil	10/21/93	NA	11/3/93	11/3/93	10/27/93	11/3/93	NA	NA	NA	11/8/93	NA
9342HUST042F	soil	10/21/93	NA	11/4/93	11/4/93	10/27/93	11/3/93	NA	NA	NA	11/8/93	NA
9342HUST044F	soil	10/21/93	NA	11/4/93	11/4/93	10/27/93	11/3/93	NA	NA	NA	11/8/93	NA
9343C411042F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411048F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411049F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411055F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411056F	soil	10/28/93	NA	11/5/93	11/5/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411058F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411063F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411064F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411066F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411068F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/13/93	NA	NA	NA	11/8/93	NA
9343C411069F	soil	10/28/93	NA	11/9/93	11/9/93	11/4/93	11/16/93	NA	NA	NA	11/8/93	NA
9343C411070F	soil	10/28/93	NA	11/8/93	11/8/93	11/4/93	11/12/93	NA	NA	NA	11/8/93	NA
9343C411077F	soil	10/29/93	NA	11/9/93	11/9/93	11/4/93	11/16/93	NA	NA	NA	11/8/93	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 72174 **Review Date: 11/1/95**

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	**Type of Blank**	**Blank Concen-tration**	**Action Level (5X, 10X)**	HUST031F	HUST032F	HUST035F	HUST037F	HUST040F	HUST042F	HUST044F	C411042F	C411048F	C411049F
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010													
Lead	CCB	-2.0	2.0	1.4/U	2.2/-	1.3/U	1.4/U	1.4/U	1.7/U	1.2/U	2.1/-	1.2/U	1.2/U

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the [illegible]al batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	**Type of Blank**	**Blank Concentration**	**Action Level (5X, 10X)**	C411055F	C411056F	C411058F	C411063F	C411064F	C411066F	C411068F	C411069F	C411070F	C411077F
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010													
Lead	CCB	-2.0	2.0	1.7/U	1.2/U	1.1/U	1.6/U	1.1/U	0.66/U	13/-	1.1/U	0.85/U	0.74/U

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery											
	Water	Soil	HUST031F	HUST032F	HUST035F	HUST037F	HUST040F	HUST042F	HUST044F	C411042F	C411048F	C411049F
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	81	73	89	78	73	94	94	84	81	79
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	98	120	100	100	99	100	100	100	110	110
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	Soil	C411055F	C411056F	C411058F	C411063F	C411064F	C411066F	C411068F	C411069F	C411070F	C411077F
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	79	76	101	81	91	82	76	115	77	117
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	110	110	120	150	110	110	120	110	110	120
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD										
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	91	90	1	88	85	3	91	111	20*
Toluene	79-122/18	81-115/12	94	94	0	87	83	5	90	109	19*
Ethylbenzene	73-117/18	81-118/13	93	93	0	87	83	5	92	109	17*
Xylenes	75-120/14	85-114/12	92	93	1	85	78*	9	90	108	18*
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA	NA	NA	NA

LCS recovery acceptable; no qualifiers applied to sample data.

Affected: 9343C411069F and 077F
Qualify: J(det) for toluene, ethylbenzene, and xylenes (benzene ND).

	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	78	85	8	97	93	4	87	89	2
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	97	95	2	111	115	4	105	102	3
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA	NA	NA	NA
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	75-125	75-125	114	NA	NA	96	NA	NA	NA	NA	NA
Nickel	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9342HUST031F							
Volatile PH as Gasoline	65-135/30	65-135/30	73	75	3						
EPA 8015m (Diesel)				9342HUST031F							
Diesel Fuel	65-150/30	65-150/30	128	158*	21						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
			MS and LCS/LCSD recoveries acceptable; associated results are ND; no qualifiers applied to sample data.								
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 6010/7000				9342HUST031F							
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	102	NA	2						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72347

QA Reviewer: Edward Long
Review Date: 11/1/95

				Combined method - Gas/BTEX							Lead only	
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample	**Sample**	**Sample**	W: 14 days	W: 14 days	W: 14 days	W: 14 days	W: 40 days	W: 28 days	W: 7 days	W: 40 days	W: 180 days	W: 28 days
Number	**Matrix**	**Date**	S: 14 days	S: 14 days	S: 14 days	S: 14 days	S: 40 days	S: 28 days	S: 14 days	S: 40 days	S: 180 days	S: 28 days
9343C411030F	soil	10/27/93	NA	11/4/93	11/4/93	11/1/93	11/2/93	NA	NA	NA	11/2/93	NA
9343C411032F	soil	10/27/93	NA	11/4/93	11/4/93	11/1/93	11/2/93	NA	NA	NA	11/2/93	NA
9343C411033F	soil	10/27/93	NA	11/4/93	11/4/93	11/1/93	11/2/93	NA	NA	NA	11/2/93	NA
9343C411034F	soil	10/27/93	NA	11/4/93	11/4/93	11/1/93	11/2/93	NA	NA	NA	11/2/93	NA
9343C411035F	soil	10/27/93	NA	11/3/93	11/3/93	11/1/93	11/1/93	NA	NA	NA	11/2/93	NA
9343C411040F	soil	10/27/93	NA	11/3/93	11/3/93	11/1/93	11/2/93	NA	NA	NA	11/2/93	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72347

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	030F	032F	033F	034F	035F	040F				
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010 - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 72347 **Review Date: 11/1/95**

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	**FHL Control Limits for % recovery** **Water**	 **Soil**										
EPA 8020 (VOCs)			030F	032F	033F	034F	035F	040F				
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA				
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	57*	129	148*	104	81	68*				
			J- (ND)		J+ (det) for T, E, X, and Gas (benzene ND)			J- (ND)				
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	170*	120	120	100	100	100				
			Diesel results are ND									
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA				
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA				
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA				
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA				
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA				
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA				
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA				
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA				
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA				

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72347

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD		LCS	LCSD		LCS	LCSD		LCS	LCSD	
	Water	Soil	%Rec	%Rec	RPD	%Rec	%Rec	RPD	%Rec	%Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	88	85	3						
Toluene	79-122/18	81-115/12	87	83	5						
Ethylbenzene	73-117/18	81-118/13	87	83	5						
Xylenes	75-120/14	85-114/12	85	78*	9						
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA						

LCS recovery acceptable; no qualifiers applied to sample data.

	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	97	93	4						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	93	101	8						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA						
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	104	NA	NA						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72347

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)			9343C411030F								
Volatile PH as Gasoline	65-135/30	65-135/30	67	62*	7						

MS and LCS/LCSD acceptable; no qualifiers applied to data.

	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8015m (Diesel)			9343C411030F								
Diesel Fuel	65-150/30	65-150/30	DIL	DIL	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 6010/7000			9343C411030F								
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	134*	NA	3						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

Affected: all samples
Qualify: J+ (det) for lead.

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72387

QA Reviewer: Edward Long
Review Date: 11/1/95

				Combined method - Gas/BTEX							Lead only	
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	Sample Matrix	Sample Date	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9343C411045F	soil	10/28/93	NA	11/10/93	11/10/93	11/8/93	11/19/93	NA	NA	NA	11/18/93	NA
9343C411060F	soil	10/28/93	NA	11/10/93	11/10/93	11/8/93	11/18/93	NA	NA	NA	11/18/93	NA
9343C411078F	soil	10/29/93	NA	11/10/93	11/10/93	11/8/93	11/18/93	NA	NA	NA	11/18/93	NA
9343C411082F	soil	10/29/93	NA	11/10/93	11/10/93	11/8/93	11/18/93	NA	NA	NA	11/18/93	NA
9343C411087F	soil	10/29/93	NA	11/12/93	11/12/93	11/8/93	11/18/93	NA	NA	NA	11/18/93	NA
9343C411088F	soil	10/29/93	NA	11/12/93	11/12/93	11/8/93	11/19/93	NA	NA	NA	11/18/93	NA
9343C411090F	soil	10/29/93	NA	11/11/93	11/11/93	11/8/93	11/18/93	NA	NA	NA	11/18/93	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72387

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concen-tration	Action Level (5X, 10X)	045F	060F	078F	082F	087F	088F	090F			
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010 - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72387

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery Water	FHL Control Limits for % recovery Soil	045F	060F	078F	082F	087F	088F	090F			
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA			
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	82	76	89	86	77	79	75			
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	110	110	110	110	110	110	110			
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA			
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA			
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA			
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA			
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA			
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA			
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA			
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA			
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA			

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72387

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**										
	Water	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	110	111	1	88	85	3	75*	79	5
Toluene	79-122/18	81-115/12	110	112	2	87	83	5	77*	84	8
Ethylbenzene	73-117/18	81-118/13	108	109	1	87	83	5	79*	83	5
Xylenes	75-120/14	85-114/12	110	111	1	85	78*	9	78*	82*	5
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA	NA	NA	NA

LCS recovery acceptable; no qualifiers applied to sample data.

Affected: 9343C411087F, 088F
Qualify: J-(ND) for all analytes

	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	104	104	0	97	93	4	98	99	1
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	106	108	2	NA	NA	NA	NA	NA	NA
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA	NA	NA	NA
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	75-125	75-125	129*	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA

Affected: 9343C411060F, 082F, 087F, 088F.
Qualify: J+ (det) for ~~all~~ lead

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72387

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD		MS	MSD		MS	MSD		MS	MSD	
	Water	Soil	%Rec	%Rec	RPD	%Rec	%Rec	RPD	%Rec	%Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9343C411078F							
Volatile PH as Gasoline	65-135/30	65-135/30	101	101	0						
EPA 8015m (Diesel)				9343C411078F							
Diesel Fuel	65-150/30	65-150/30	129	126	2						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 6010/7000				9343C411078F							
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	113	NA	ND						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72389

QA Reviewer: Edward Long
Review Date: 11/1/95

				Combined method - Gas/BTEX								Lead only	
			EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
Sample Number	**Sample Matrix**	**Sample Date**	Analysis W: 14 days S: 14 days	Analysis W: 14 days S: 14 days	Analysis W: 14 days S: 14 days	Extraction W: 14 days S: 14 days	Analysis W: 40 days S: 40 days	Analysis W: 28 days S: 28 days	Extraction W: 7 days S: 14 days	Analysis W: 40 days S: 40 days	Analysis W: 180 days S: 180 days	Analysis W: 28 days S: 28 days
9343C411091B	water	10/29/93	NA	11/11/93	11/11/93	11/11/93	11/19/93	NA	NA	NA	11/19/93	NA
9343C411092A	water	10/29/93	NA	11/11/93	11/11/93	NA	NA	NA	NA	NA	NA	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72389

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: water
All units are mg/L, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)										
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010 - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72389

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: water

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: water	FHL Control Limits for % recovery Water	 Soil	091B	092A								
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA								
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	82	82								
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	100	NA								
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA								
4-Bromofluorobenzene	86-115	74-121	NA	NA								
1,2-Dichloroethane-d4	76-114	70-121	NA	NA								
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA								
2-Fluorobiphenyl	43-116	30-115	NA	NA								
Terphenyl-d14	33-141	18-137	NA	NA								
Phenol-d5	10-94	24-113	NA	NA								
2-Fluorophenol	21-100	25-121	NA	NA								
2,4,6-Tribromophenol	10-123	19-122	NA	NA								

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72389

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: water	**FHL Control Limits for % recovery/RPD**		**LCS**	**LCSD**		**LCS**	**LCSD**		**LCS**	**LCSD**	
	Water	**Soil**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	98	98	0						
Toluene	79-122/18	81-115/12	95	91	4						
Ethylbenzene	73-117/18	81-118/13	NA	NA	NA						
Xylenes	75-120/14	85-114/12	NA	NA	NA						
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	89	95	7						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	104	105	1						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA						
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	93	NA	NA						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72389

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: water

	FHL Control Limits for % recovery/RPD											
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	65-135/30	65-135/30	MS/MSD not performed.								
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	MS/MSD not performed.								
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 6010/7000											
Cadmium	75-125	75-125	MS/MSD not performed.								
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	NA	NA	ND						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 76860

QA Reviewer: Edward Long
Review Date: 11/2/95

				Combined method - Gas/BTEX								
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample	**Sample**	**Sample**	W: 14 days	W: 14 days	W: 14 days	W: 14 days	W: 40 days	W: 28 days	W: 7 days	W: 40 days	W: 180 days	W: 28 days
Number	**Matrix**	**Date**	S: 14 days	S: 14 days	S: 14 days	S: 14 days	S: 40 days	S: 28 days	S: 14 days	S: 40 days	S: 180 days	S: 28 days
9425Z411001F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411002F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411003F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411004F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411005F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411006F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411007F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411008F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411009F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411010F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411011F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411012F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411013F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94
9425Z411014F	soil	7/22/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/15/94

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 76860 **Review Date: 11/2/95**

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	**Type of Blank**	**Blank Concen- tration**	**Action Level (5X, 10X)**
EPA 7420m) - All analytes were nondetected in the method blanks.			

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 76860

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD Water**	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	NA	NA	NA						
Toluene	79-122/18	81-115/12	NA	NA	NA						
Ethylbenzene	73-117/18	81-118/13	NA	NA	NA						
Xylenes	75-120/14	85-114/12	NA	NA	NA						
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	NA	NA	NA						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	NA	NA	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA						
EPA 7420m											
Organic lead	75-125	75-125	105	109	4						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 76860

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	NA	NA	NA						
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	65-135/30	65-135/30	NA	NA	NA						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	NA	NA	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 7420m				9425Z411025F							
Organic lead	75-125/20	75-125/20	105	NA	ND						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 76909

QA Reviewer: Edward Long
Review Date: 11/2/95

				Combined method - Gas/BTEX								
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample	**Sample**	**Sample**	W: 14 days	W: 14 days	W: 14 days	W: 14 days	W: 40 days	W: 28 days	W: 7 days	W: 40 days	W: 180 days	W: 28 days
Number	**Matrix**	**Date**	S: 14 days	S: 14 days	S: 14 days	S: 14 days	S: 40 days	S: 28 days	S: 14 days	S: 40 days	S: 180 days	S: 28 days
9430Z411091F	soil	7/27/94	NA	8/9/94	8/9/94	8/4/94	8/4/94	NA	NA	NA	NA	8/10/94
9430Z411099F	soil	7/27/94	NA	8/10/94	8/10/94	8/4/94	8/4/94	NA	NA	NA	NA	8/10/94

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery											
	Water	Soil	HUST031F	HUST032F	HUST035F	HUST037F	HUST040F	HUST042F	HUST044F	C411042F	C411048F	C411049F
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	81	73	89	78	73	94	94	84	81	79
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	98	120	100	100	99	100	100	100	110	110
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery Water	FHL Control Limits for % recovery Soil	C411055F	C411056F	C411058F	C411063F	C411064F	C411066F	C411068F	C411069F	C411070F	C411077F
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	79	76	101	81	91	82	76	115	77	117
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	110	110	120	150	110	110	120	110	110	120
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD		LCS	LCSD		LCS	LCSD		LCS	LCSD	
	Water	Soil	%Rec	%Rec	RPD	%Rec	%Rec	RPD	%Rec	%Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	91	90	1	88	85	3	91	111	20*
Toluene	79-122/18	81-115/12	94	94	0	87	83	5	90	109	19*
Ethylbenzene	73-117/18	81-118/13	93	93	0	87	83	5	92	109	17*
Xylenes	75-120/14	85-114/12	92	93	1	85	78*	9	90	108	18*
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
						LCS recovery acceptable; no qualifiers applied to sample data.			Affected: 9343C411069F and 077F Qualify: J(det) for toluene, ethylbenzene, and xylenes (benzene ND).		
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	78	85	8	97	93	4	87	89	2
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	97	95	2	111	115	4	105	102	3
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA	NA	NA	NA
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	75-125	75-125	114	NA	NA	96	NA	NA	NA	NA	NA
Nickel	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	75-125	75-125	NA	NA	NA	NA	NA	NA	NA	NA	NA

Rec y no in c lim eex on d e in ed in nth

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72174

QA Reviewer: Edward Long
Review Date: 11/1/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	MS/MSD not performed.								
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9342HUST031F							
Volatile PH as Gasoline	65-135/30	65-135/30	73	75	3						
EPA 8015m (Diesel)				9342HUST031F							
Diesel Fuel	65-150/30	65-150/30	128	158*	21						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
			MS and LCS/LCSD recoveries acceptable; associated results are ND; no qualifiers applied to sample data.								
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 6010/7000				9342HUST031F							
Cadmium	75-125	75-125	NA	NA	NA						
Chromium	75-125	75-125	NA	NA	NA						
Lead	75-125	75-125	102	NA	2						
Nickel	75-125	75-125	NA	NA	NA						
Zinc	75-125	75-125	NA	NA	NA						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 76909

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)										
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 7420m - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U)

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 76909

QA Reviewer: Edward Long
Review Date: 11/2/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery Water	Soil	091F	099F								
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA								
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	91	100								
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	105	111								
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA								
4-Bromofluorobenzene	86-115	74-121	NA	NA								
1,2-Dichloroethane-d4	76-114	70-121	NA	NA								
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA								
2-Fluorobiphenyl	43-116	30-115	NA	NA								
Terphenyl-d14	33-141	18-137	NA	NA								
Phenol-d5	10-94	24-113	NA	NA								
2-Fluorophenol	21-100	25-121	NA	NA								
2,4,6-Tribromophenol	10-123	19-122	NA	NA								

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 76909

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	102	100	2	106	108	2			
Toluene	79-122/18	81-115/12	91	89	2	94	95	1			
Ethylbenzene	73-117/18	81-118/13	101	99	2	104	104	0			
Xylenes	75-120/14	85-114/12	103	102	1	105	107	2			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	115	118	3	105	103	2			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	88	73	19	NA	NA	NA			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA			
EPA 7420m											
Organic lead	75-125	75-125	88	91	3	NA	NA	NA			

* – Recovery not within control limits. Reextraction dates are indicated in parenthe

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 76909

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)				9430Z411091F							
Benzene	65-135/25	65-135/25	80	81	1						
Toluene	65-135/25	65-135/25	70	71	1						
Ethylbenzene	65-135/25	65-135/25	78	79	1						
Xylenes	65-135/25	65-135/25	83	82	1						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9430Z411091F							
Volatile PH as Gasoline	65-135/30	65-135/30	98	101	3						
EPA 8015m (Diesel)				9430Z411091F							
Diesel Fuel	65-150/30	65-150/30	100	102	2						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 7420m				9430Z411091F							
Organic lead	75-125/20	75-125/20	93	NA	ND						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 77288

QA Reviewer: Edward Long
Review Date: 11/2/95

				Combined method - Gas/BTEX								
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	Sample Matrix	Sample Date	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9430Z41192A-DF	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z41193A-DF	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z41194A-DF	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z41195A-DF	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z41103A-DF	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z41104A-DF	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z411088F	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z411089F	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z411090F	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z411096F	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z411097F	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z411100F	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z411101F	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94
9430Z411102F	soil	7/27/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	8/24/94

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 77288 **Review Date: 11/2/95**

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)
EPA 7420m - All analytes were nondetected in the method blanks.			

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 77288

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	NA	NA	NA						
Toluene	79-122/18	81-115/12	NA	NA	NA						
Ethylbenzene	73-117/18	81-118/13	NA	NA	NA						
Xylenes	75-120/14	85-114/12	NA	NA	NA						
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	NA	NA	NA						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	NA	NA	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA						
EPA 7420m											
Organic lead	75-125	75-125	108	106	2						

Rec y no in c l lim eex on d re in ed in nth

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 77288

QA Reviewer: Edward Long
Review Date: 11/2/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	NA	NA	NA						
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	65-135/30	65-135/30	NA	NA	NA						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	NA	NA	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 7420m				9430Z411092A-DF							
Organic lead	75-125/20	75-125/20	102	NA	ND						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

				Combined method (BTEX/Gas)								
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	Sample Matrix	Sample Date	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9450Z380001F	soil	12/12/94	NA	12/22/94	12/22/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380002F	soil	12/12/94	NA	12/23/94	12/23/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380003F	soil	12/12/94	NA	12/23/94	12/23/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380004F	soil	12/12/94	NA	12/23/94	12/23/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380005F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380006F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z380007F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z380008F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z411009F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z411010F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z411011F	soil	12/14/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z411012F	soil	12/14/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	12/21/94
9450Z411013F	soil	12/14/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	12/21/94
9450Z411014F	soil	12/14/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z449015F	soil	12/15/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z449016F	soil	12/15/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z449017F	soil	12/16/94	NA	12/24/94	12/24/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z449018F	soil	12/16/94	NA	12/24/94	12/24/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z275019F	soil	12/16/94	12/28/94	NA	12/24/94	NA	NA	NA	12/28/94	12/30/94	1/11/95	NA
9450Z275020F	soil	12/16/94	12/28/94	NA	12/27/94	NA	NA	NA	12/28/94	12/30/94	1/11/95	NA

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra | **QA Reviewer: Edward Long**
Analytical Batch: 79421 | **Review Date: 10/18/95**

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concen-tration	Action Level (5X, 10X)	019F	020F
EPA 8240 - All analytes were nondetected in the method blanks.					
EPA 8270 - All analytes were nondetected in the method blanks.					
EPA 8020 - All analytes were nondetected in the method blanks.					
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.					
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.					
EPA 6010					
Cadmium	ICB	1.9 µg/L	1.9 mg/kg	ND/-	ND/-
EPA 7420m - All analytes were nondetected in the method blanks.					

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	Soil										
EPA 8020 (VOCs)			001F	002F	003F	004F	005F	006F	007F	008F	009F	010F
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	81	85	79	86	87	87	103	77	77	86
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	86	95	79	96	367*	97	90	89	90	90
							results are ND					
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation

Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	Soil	011F	012F	013F	014F	015F	016F	017F	018F	019F	020F
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	86	88	89	86	89	85	86	87	74	84
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	91	93	90	92	89	91	88	93	NA	NA
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	98	98
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	103	97
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	104	107
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	82	76
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	96	84
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	84	81
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**										
	Water	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	105	101	1	NA	NA	NA			
Toluene	79-122/18	81-115/12	98	98	1	NA	NA	NA			
Ethylbenzene	73-117/18	81-118/13	104	101	3	NA	NA	NA			
Xylenes	75-120/14	85-114/12	107	103	4	NA	NA	NA			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	107	108	1	111	109	2			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	108	116	7	NA	NA	NA			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA			
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	97	95	2	NA	NA	NA			
Trichloroethene	70-119/12	68-114/17	99	108	8	NA	NA	NA			
Benzene	81-129/12	84-120/21	109	114	4	NA	NA	NA			
Toluene	83-125/12	81-118/17	110	109	1	NA	NA	NA			
Chlorobenzene	83-125/12	81-121/12	107	110	3	NA	NA	NA			

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Fort Ord UST - Data Validation

Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8270 (PAHs)											
Naphthalene	40-160/30	40-160/30	73	75	3	NA	NA	NA			
Fluorene	40-160/30	40-160/30	80	84	5	NA	NA	NA			
Pyrene	40-160/30	40-160/30	82	85	4	NA	NA	NA			
Benzo(a)pyrene	40-160/30	40-160/30	81	80	1	NA	NA	NA			
Indeno(123cd)pyrene	40-160/30	40-160/30	56	56	0	NA	NA	NA			
EPA 6010/7000											
Cadmium	75-125	75-125	106	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	108	NA	NA	NA	NA	NA			
Lead	75-125	75-125	103	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	114	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	108	NA	NA	NA	NA	NA			
EPA 7420m											
Organic lead	75-125	75-125	102	101	1	NA	NA	NA			

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)				9450Z380001F							
Benzene	65-135/25	65-135/25	88	91	3						
Toluene	65-135/25	65-135/25	82	87	7						
Ethylbenzene	65-135/25	65-135/25	83	92	10						
Xylenes	65-135/25	65-135/25	83	94	12						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9450Z380001F							
Volatile PH as Gasoline	65-135/30	65-135/30	96	95	1						
EPA 8015m (Diesel)				9450Z380001F							
Diesel Fuel	65-150/30	65-150/30	141	132	7						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)				9450Z275019F							
1,1-Dichloroethene	61-145/14	59-172/22	106	103	3						
Trichloroethene	71-120/14	62-137/24	104	108	4						
Benzene	76-127/11	66-142/21	102	99	3						
Toluene	76-125/13	59-139/21	105	103	2						
Chlorobenzene	75-130/13	60-133/21	102	100	2						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8270 (PAHs)				9450Z275019F							
Naphthalene	40-160/30	40-160/30	74	73	2						
Fluorene	40-160/30	40-160/30	84	82	3						
Pyrene	40-160/30	40-160/30	85	83	2						
Benzo(a)pyrene	40-160/30	40-160/30	80	80	0						
Indeno(123cd)pyrene	40-160/30	40-160/30	58	56	3						

EPA 6010/7000				9450Z275019F							
Cadmium	75-125/20	75-125/20	90	NA	ND						
Chromium	75-125/20	75-125/20	93	NA	8						
Lead	75-125/20	75-125/20	95	NA	ND						
Nickel	75-125/20	75-125/20	92	NA	49*						
Zinc	75-125/20	75-125/20	93	NA	3						

Ni - difference criterion applies and is met.

EPA 7420m				9450Z275019F							
Organic lead	75-125/20	75-125/20	103	NA	ND						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

				Combined method (BTEX/Gas)								
			EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	**Sample Matrix**	**Sample Date**	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9504Z449050F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/2/95	NA	NA	NA	NA	NA
9504Z449051F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/2/95	NA	NA	NA	NA	NA
9504Z449052F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/2/95	NA	NA	NA	NA	NA
9504Z449053F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449054F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/2/95	NA	NA	NA	NA	NA
9504Z449055F	soil	1/26/95	NA	2/6/95	2/6/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449056F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449057F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449058F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449059F	soil	1/26/95	NA	2/6/95	2/6/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449060F	soil	1/26/95	NA	2/6/95	2/6/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449061F	soil	1/26/95	NA	2/6/95	2/6/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z411062F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	1/31/95
9504Z411063F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	1/31/95
9504Z275064F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA
9504Z275065F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA
9504Z275066F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA
9504Z275067F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA
9504Z275068F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 80007 **Review Date: 11/3/95**

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	064F	065F	066F	067F	068F
EPA 8240								
Acetone	Method	7.1	71	ND/-	ND/-	34/U	ND/-	ND/-
EPA 8270 - All analytes were nondetected in the method blanks.								
EPA 8020 - All analytes were nondetected in the method blanks.								
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.								
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.								
EPA 6010								
Cadmium	CCB	2.9 µg/L	2.9 mg/kg	ND/-	ND/-	ND/-	ND/-	ND/-
Nickel	CCB	23 µg/L	23 mg/kg	ND/-	4.6/U	5.3/U	7.9/U	9.5/U
Zinc	Prep	0.42 mg/kg	2.1 mg/kg	4.6/-	5.9/-	7.8/-	5.0/-	6.2/-
EPA 7420m - All analytes were nondetected in the method blanks.								

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	Soil										
EPA 8020 (VOCs)			050F	051F	052F	053F	054F	055F	056F	057F	058F	059F
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	87	77	75	86	83	89	87	77	83	88
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	86	83	89	DIL	86	86	76	90	86	90
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery											
	Water	Soil	060F	061F	062F	063F	064F	065F	066F	067F	068F	
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	88	86	82	86	85	77	74	78	80	
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	83	85	89	90	78	65	84	87	93	
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	104	106	106	104	102	
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	96	99	104	103	102	
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	101	111	107	113	114	
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	68	70	70	70	76	
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	76	75	74	73	80	
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	61	57	63	58	58	
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD											
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	95	98	3	96	95	0	NA	NA	NA
Toluene	79-122/18	81-115/12	95	97	2	93	95	2	NA	NA	NA
Ethylbenzene	73-117/18	81-118/13	98	99	1	99	99	0	NA	NA	NA
Xylenes	75-120/14	85-114/12	99	99	1	100	98	2	NA	NA	NA
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	107	106	1	109	109	0	100	100	0
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	89	86	3	NA	NA	NA	NA	NA	NA
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA	NA	NA	NA
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	84	85	1	NA	NA	NA	NA	NA	NA
Trichloroethene	70-119/12	68-114/17	93	87	7	NA	NA	NA	NA	NA	NA
Benzene	81-129/12	84-120/21	102	92	10	NA	NA	NA	NA	NA	NA
Toluene	83-125/12	81-118/17	100	95	5	NA	NA	NA	NA	NA	NA
Chlorobenzene	83-125/12	81-121/12	99	95	5	NA	NA	NA	NA	NA	NA

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Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**										
	Water	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8270 (PAHs)											
Naphthalene	40-160/30	40-160/30	74	73	0	NA	NA	NA	NA	NA	NA
Fluorene	40-160/30	40-160/30	79	80	2	NA	NA	NA	NA	NA	NA
Pyrene	40-160/30	40-160/30	77	78	2	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	40-160/30	40-160/30	78	81	4	NA	NA	NA	NA	NA	NA
Indeno(123cd)pyrene	40-160/30	40-160/30	97	100	3	NA	NA	NA	NA	NA	NA
EPA 6010/7000											
Cadmium	75-125	75-125	113	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	75-125	75-125	113	NA	NA	NA	NA	NA	NA	NA	NA
Lead	75-125	75-125	113	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	75-125	75-125	119	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	75-125	75-125	114	NA	NA	NA	NA	NA	NA	NA	NA
EPA 7420m											
Organic lead	75-125	75-125	104	106	2	NA	NA	NA	NA	NA	NA

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	**Soil**	**MS %Rec**	**MSD %Rec**	**RPD**	**MS %Rec**	**MSD %Rec**	**RPD**	**MS %Rec**	**MSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)				9504Z411062F							
Benzene	65-135/25	65-135/25	82	84	1						
Toluene	65-135/25	65-135/25	78	81	4						
Ethylbenzene	65-135/25	65-135/25	80	83	3						
Xylenes	65-135/25	65-135/25	79	81	3						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9504Z411062F							
Volatile PH as Gasoline	65-135/30	65-135/30	87	90	3						
EPA 8015m (Diesel)				9504Z411062F							
Diesel Fuel	65-150/30	65-150/30	118	116	2						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)				9504Z411062F							
1,1-Dichloroethene	61-145/14	59-172/22	65	64	2						
Trichloroethene	71-120/14	62-137/24	87	91	4						
Benzene	76-127/11	66-142/21	98	99	1						
Toluene	76-125/13	59-139/21	103	102	1						
Chlorobenzene	75-130/13	60-133/21	92	96	4						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil

EPA 8270 (PAHs)

9504Z411062F

	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
Naphthalene	40-160/30	40-160/30	65	72	10						
Fluorene	40-160/30	40-160/30	77	81	4						
Pyrene	40-160/30	40-160/30	87	92	6						
Benzo(a)pyrene	40-160/30	40-160/30	69	83	19						
Indeno(123cd)pyrene	40-160/30	40-160/30	96	104	9						

EPA 6010/7000

9504Z411064F

	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
Cadmium	75-125/20	75-125/20	102	NA	ND						
Chromium	75-125/20	75-125/20	105	NA	2						
Lead	75-125/20	75-125/20	102	NA	ND						
Nickel	75-125/20	75-125/20	106	NA	ND						
Zinc	75-125/20	75-125/20	103	NA	54*						

Zn - difference criterion applies and is met.

EPA 7420m

9504Z411062F

	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
Organic lead	75-125/20	75-125/20	107	NA	ND						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Onsite
Analytical Batch: 1A084

QA Reviewer: E. Long
Review Date: 3/26/96

				Combined method (BTEX/Gas)								
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	**Sample Matrix**	**Sample Date**	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9430Z41192AF-DF	soil	7/27/94	NA	NA	NA	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z41193AF-DF	soil	7/27/94	NA	NA	NA	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z41194AF-DF	soil	7/27/94	NA	NA	NA	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z41195AF-DF	soil	7/27/94	NA	NA	NA	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z41103AF-DF	soil	7/27/94	NA	NA	NA	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z41104AF-DF	soil	7/27/94	NA	NA	NA	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z411088F	soil	7/27/94	NA	8/2/94	8/2/94	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z411089F	soil	7/27/94	NA	8/2/94	8/2/94	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z411090F	soil	7/27/94	NA	8/2/94	8/2/94	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z411096F	soil	7/27/94	NA	8/2/94	8/2/94	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z411097F	soil	7/27/94	NA	8/2/94	8/2/94	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z411100F	soil	7/27/94	NA	8/2/94	8/2/94	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z411101F	soil	7/27/94	NA	8/2/94	8/2/94	8/2/94	8/5/94	NA	NA	NA	NA	NA
9430Z411102F	soil	7/27/94	NA	8/2/94	8/2/94	8/2/94	8/5/94	NA	NA	NA	NA	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Onsite Environmental
Analytical Batch: 1A084

QA Reviewer: Edward Long
Review Date: 3/26/96

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)
EPA 8020 - All analytes were nondetected in the method blanks.			
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.			
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.			

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Onsite Environmental
Analytical Batch: 1A084

QA Reviewer: Edward Long
Review Date: 3/26/96

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	**Soil**	Z41192AF-DF	Z41193AF-DF	Z41194AF-DF	Z41195AF-DF	Z41103AF-DF	Z41104AF-DF	9430Z411088F	9430Z411089F	9430Z411090F	9430Z411096F
EPA 8020 (BTEX) a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	97	91	97	100
EPA 8015m (Gasoline) 4-Bromofluorobenzene	70-130	70-130	NA	NA	NA	NA	NA	NA	NA		NA	NA
EPA 8015m (Diesel) o-Terphenyl	65-150	50-150	58	59	DIL	54	85	97	68	50	65	70

Run as combined method with EPA 8020.

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Onsite Environmental
Analytical Batch: 1A062

QA Reviewer: Edward Long
Review Date: 3/26/96

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	**Soil**	9430Z411097F	9430Z411100F	9430Z411101F	9430Z411102F						
EPA 8020 (BTEX)												
a,a,a-Trifluorotoluene	75-118	65-135	93	94	91	92						
EPA 8015m (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	NA	NA	NA	NA						
			Run as combined method with EPA 8020.									
EPA 8015m (Diesel)												
o-Terphenyl	65-150	50-150	78	63	83	120						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Onsite **QA Reviewer: E. Long**
Analytical Batch: 1A084 **Review Date: 3/26/96**

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**		**LCS**	**LCSD**		**LCS**	**LCSD**		**LCS**	**LCSD**
	Water	**Soil**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**	**RPD**	**%Rec**	**%Rec**
EPA 8020 (Aromatic VOCs)										
Benzene	75-122/12	79-116/12	93	NA	NA					
Toluene	79-122/18	81-115/12	95	NA	NA					
Ethylbenzene	73-117/18	81-118/13	95	NA	NA					
Xylenes	75-120/14	85-114/12	93	NA	NA					
EPA 8015m (Gasoline)										
Volatile PH as Gasoline	75-125/15	75-125/15	97	NA	NA					
EPA 8015m (Diesel)										
Diesel Fuel	65-150/30	65-150/30	70	NA	NA					
Fog Oil	65-150/30	65-150/30	NA	NA	NA					

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Onsite
Analytical Batch: 1A084

QA Reviewer: E. Long
Review Date: 3/26/96

Sample matrix: soil

	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)				9430Z411102F							
Benzene	65-135/25	65-135/25	95	95	0						
Toluene	65-135/25	65-135/25	96	95	1						
Ethylbenzene	65-135/25	65-135/25	89	90	1						
Xylenes	65-135/25	65-135/25	97	97	0						
EPA 8015m (Gasoline)				9430Z411102F							
Volatile PH as Gasoline	65-135/30	65-135/30	91	99	8						
EPA 8015m (Diesel)				9430Z41192AF-DF							
Diesel Fuel	65-150/30	65-150/30	102	112	10						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 72432

QA Reviewer: Edward Long
Review Date: 10/31/95

Sample Number	Sample Matrix	Sample Date	EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
			W: 14 days	W: 14 days	W: 14 days	W: 14 days	W: 40 days	W: 28 days	W: 7 days	W: 40 days	W: 180 days	W: 28 days
			S: 14 days	S: 14 days	S: 14 days	S: 14 days	S: 40 days	S: 28 days	S: 14 days	S: 40 days	S: 180 days	S: 28 days
9344Z275401F	soil	11/2/93	11/12/93	NA	11/13/93	11/12/93	11/16/93	NA	11/5/93	11/16/93	11/8/93	NA
9344Z275402F	soil	11/2/93	11/12/93	NA	11/13/93	11/12/93	11/15/93	NA	11/5/93	11/16/93	11/8/93	NA
9344Z275403F	soil	11/2/93	11/12/93	NA	11/13/93	11/12/93	11/15/93	NA	11/5/93	11/18/93	11/8/93	NA
9344Z275404F	soil	11/2/93	11/12/93	NA	11/13/93	11/12/93	11/16/93	NA	11/5/93	11/18/93	11/8/93	NA
9344Z275405F	soil	11/2/93	11/15/93	NA	11/13/93	11/12/93	11/16/93	NA	11/5/93	11/18/93	11/8/93	NA
9344Z275406F	soil	11/2/93	11/15/93	NA	11/11/93	11/12/93	11/16/93	NA	11/5/93	11/18/93	11/8/93	NA
9344Z275407F	soil	11/2/93	11/12/93	NA	11/11/93	11/12/93	11/16/93	NA	11/5/93	11/18/93	11/8/93	NA
9344Z275408F	soil	11/2/93	11/15/93	NA	11/13/93	11/12/93	11/16/93	NA	11/5/93	11/18/93	11/8/93	NA
9344Z275409F	soil	11/3/93	11/16/93	NA	11/13/93	11/12/93	11/16/93	NA	11/14/93	11/18/93	11/8/93	NA
9344Z275410F	soil	11/3/93	11/15/93	NA	11/11/93	11/12/93	11/15/93	NA	11/14/93	11/18/93	11/8/93	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 72432

QA Reviewer: Edward Long
Review Date: 10/31/95

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	401F	402F	403F	404F	405F	406F	407F	408F	409F	410F
EPA 8240													
Acetone	Method	1.3	13	16/-	3.3/U	44/-	3.6/U	ND/-	3.2/U	ND/-	47/-	6.6/U	86/-
Methyl ethyl ketone	Method	1.5	15	ND/-	ND/-	5.9/U	ND/-	7.8/U	ND/-	ND/-	ND/-	ND/-	13/U
Methylene chloride	Method	6.2	62	3.9/U	3.2/U	3.8/U	4.0/U	26/U	ND/-	ND/-	ND/-	4.1/U	1.7/
Methyl isobutyl ketone	Method	1.3	6.5	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-
EPA 8270 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010		(mg/kg)	(mg/kg)										
Lead	CCB	-2.3	2.3	1.8/U	0.62/U	1.2/U	1.2/U	54/-	0.64/U	4.4/	8.1/	15/-	1.0/
Nickel	CCB	-34.9	35	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-	ND/-
Zinc	Prep	1.83	9.2	4.7/U	3.7/U	5.9/U	6.6/U	6.0/U	6.0/U	8.7/U	6.8/U	64/-	36/-

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 72432

QA Reviewer: Edward Long
Review Date: 10/31/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	**Soil**										
EPA 8020 (VOCs)			**401F**	**402F**	**403F**	**404F**	**405F**	**406F**	**407F**	**408F**	**409F**	**410F**
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	83	78	73	72	90	79	64*	79	77	69*
									qualify: J- (ND)			qualify: J- (ND)
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	100	96	110	110	DIL	89	100	DIL	96	100
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	96	98	105	107	109	107	103	105	104	117
4-Bromofluorobenzene	86-115	74-121	97	96	91	92	97	98	87	94	97	88
1,2-Dichloroethane-d4	76-114	70-121	99	97	99	99	107	102	97	106	95	104
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	76	66	78	75	39	73	57	45	79	59
2-Fluorobiphenyl	43-116	30-115	94	76	86	84	86	81	71	90	84	80
Terphenyl-d14	33-141	18-137	128	135	105	95	88	102	101	77	103	94
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

DIL = surrogate compound diluted out

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 72432 **Review Date: 10/31/95**

Sample matrix: soil

	FHL Control Limits for % recovery/RPD		LCS	LCSD		LCS	LCSD		LCS	LCSD	
	Water	Soil	%Rec	%Rec	RPD	%Rec	%Rec	RPD	%Rec	%Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	NA	NA	NA	NA	NA	NA			
Toluene	79-122/18	81-115/12	NA	NA	NA	NA	NA	NA			
Ethylbenzene	73-117/18	81-118/13	NA	NA	NA	NA	NA	NA			
Xylenes	75-120/14	85-114/12	NA	NA	NA	NA	NA	NA			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	100	94	6	97	97	0			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	91	92	1	NA	NA	NA			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA			
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	94	89	6	99	94	5			
Trichloroethene	70-119/12	68-114/17	88	89	1	87	85	3			
Benzene	81-129/12	84-120/21	93	92	1	101	99	2			
Toluene	83-125/12	81-118/17	99	101	2	109	108	1			
Chlorobenzene	83-125/12	81-121/12	98	98	0	101	101	0			

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra | **QA Reviewer: Edward Long**

Analytical Batch: 72432 | **Review Date: 10/31/95**

Sample matrix: soil	FHL Control Limits for % recovery/RPD											
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8270 (PAHs)											
Naphthalene	40-160/30	40-160/30	90	91	1	NA	NA	NA			
Fluorene	40-160/30	40-160/30	100	101	1	NA	NA	NA			
Pyrene	40-160/30	40-160/30	112	112	0	NA	NA	NA			
Benzo(a)pyrene	40-160/30	40-160/30	132	134	2	NA	NA	NA			
Indeno(123cd)pyrene	40-160/30	40-160/30	146	144	1	NA	NA	NA			
EPA 6010/7000											
Cadmium	75-125	75-125	110	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	105	NA	NA	NA	NA	NA			
Lead	75-125	75-125	100	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	105	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	111	NA	NA	NA	NA	NA			
EPA 7420m											
Organic lead	75-125	75-125	NA	NA	NA	NA	NA	NA			

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Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72432

QA Reviewer: Edward Long
Review Date: 10/31/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	NA	NA	NA						
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9344Z275401F							
Volatile PH as Gasoline	65-135/30	65-135/30	98	95	3						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	Matrix spike not performed due to insufficient sample.								
Fog Oil	65-150/30	65-150/30									
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)				9344Z275402F							
1,1-Dichloroethene	61-145/14	59-172/22	104	92	12						
Trichloroethene	71-120/14	62-137/24	90	86	5						
Benzene	76-127/11	66-142/21	94	88	7						
Toluene	76-125/13	59-139/21	108	104	4						
Chlorobenzene	75-130/13	60-133/21	104	100	4						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 72432

QA Reviewer: Edward Long
Review Date: 10/31/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD		MS	MSD		MS	MSD		MS	MSD	
	Water	Soil	%Rec	%Rec	RPD	%Rec	%Rec	RPD	%Rec	%Rec	RPD
EPA 8270 (PAHs)			9344Z275403F								
Naphthalene	40-160/30	40-160/30	NA	NA	NA						
Fluorene	40-160/30	40-160/30	120	129	7						
Pyrene	40-160/30	40-160/30	132	144	9						
Benzo(a)pyrene	40-160/30	40-160/30	147	162*	10						
Indeno(123cd)pyrene	40-160/30	40-160/30	180*	201*	11						
			Associated results are ND; LCS acceptable; no qualifiers applied.								
EPA 6010/7000			9344Z275401F								
Cadmium	75-125/20	75-125/20	98	NA	ND						
Chromium	75-125/20	75-125/20	92	NA	38*						
Lead	75-125/20	75-125/20	115	NA	23*						
Nickel	75-125/20	75-125/20	102	NA	ND						
Zinc	75-125/20	75-125/20	104	NA	4						
			Affected: all samples Qualify: J (det) for chromium. Lead: difference criterion applies and is met.								
EPA 7420m											
Organic lead	75-125/20	75-125/20	NA	NA	NA						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 76515

QA Reviewer: Edward Long
Review Date: 11/6/95

				Combined method (BTEX/Gas)								
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	**Sample Matrix**	**Sample Date**	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9426Z275007F	soil	6/29/94	7/8/94	7/12/94	7/12/94	7/12/94	7/27/94	NA	7/12/94	7/25/94	NA	7/14/94
9426Z275009F	soil	6/29/94	7/10/94	7/13/94	7/13/94	7/12/94	7/29/94	NA	7/12/94	7/25/94	NA	7/14/94
9426Z275010F	soil	6/29/94	7/8/94	7/12/94	7/12/94	7/12/94	7/28/94	NA	7/12/94	7/26/94	NA	7/14/94
9426Z275012F	soil	6/29/94	7/10/94	7/13/94	7/13/94	7/12/94	7/29/94	NA	7/12/94	7/25/94	NA	7/14/94

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 76515

QA Reviewer: Edward Long
Review Date: 11/6/95

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	007F	009F	010F	012F						
EPA 8240													
Acetone	Method	9.8	98	34/U	160/-	7.3/U	14/U						
EPA 8270 - All analytes were nondetected in the method blanks.													
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 7420m - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U)

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 76515

QA Reviewer: Edward Long
Review Date: 11/6/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery												
	Water	**Soil**											
EPA 8020 (VOCs)			**007F**	**009F**	**010F**	**012F**							
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA							
Mod EPA 8015 (Gasoline)													
4-Bromofluorobenzene	70-130	70-130	68*	95	77	70							
			qualify J (det/ND) for BTEX/Gas										
Mod EPA 8015 (Diesel)													
o-Terphenyl	65-150	50-150	120	DIL	110	110							
EPA 8240 (VOCs)													
Toluene-d8	88-110	81-117	117	105	99	104							
4-Bromofluorobenzene	86-115	74-121	92	88	111	95							
1,2-Dichloroethane-d4	76-114	70-121	92	107	97	103							
EPA 8270 (B/N/A Extractables)													
Nitrobenzene-d5	36-114	23-120	111	65	66	97							
2-Fluorobiphenyl	43-116	30-115	117*	115	80	106							
Terphenyl-d14	33-141	18-137	136	116	108	128							
Phenol-d5	10-94	24-113	NA	NA	NA	NA							
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA							
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA							
			Only one out; results are ND.										

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 76515

QA Reviewer: Edward Long
Review Date: 11/6/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	92	91	1	96	94	2			
Toluene	79-122/18	81-115/12	89	89	0	95	92	3			
Ethylbenzene	73-117/18	81-118/13	94	93	1	97	97	0			
Xylenes	75-120/14	85-114/12	94	93	1	97	97	0			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	96	97	1	95	95	0			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	109	103	6	NA	NA	NA			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA			
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	89	89	0	90	84	7			
Trichloroethene	70-119/12	68-114/17	80	82	2	87	81	7			
Benzene	81-129/12	84-120/21	94	93	1	99	92	7			
Toluene	83-125/12	81-118/17	94	96	2	100	91	9			
Chlorobenzene	83-125/12	81-121/12	95	96	1	105	97	8			

* Recovery not within control limits. Reextraction data are included in parentheses.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 76515

QA Reviewer: Edward Long
Review Date: 11/6/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8270 (PAHs)											
Acenaphthene	40-160/30	40-160/30	84	93	10	84	82	2			
Fluorene	40-160/30	40-160/30	NA	NA	NA	NA	NA	NA			
Pyrene	40-160/30	40-160/30	99	98	1	86	88	2			
Benzo(a)pyrene	40-160/30	40-160/30	NA	NA	NA	NA	NA	NA			
Indeno(123cd)pyrene	40-160/30	40-160/30	NA	NA	NA	NA	NA	NA			

Spiking solution did not contain the other analytes, due to a lab error.
Surrogate recoveries were acceptable. No qualifiers were applied to the data.

	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 6010/7000											
Cadmium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	NA	NA	NA	NA	NA	NA			
Lead	75-125	75-125	NA	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	NA	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	NA	NA	NA	NA	NA	NA			
EPA 7420m											
Organic lead	75-125	75-125	105	99	6	NA	NA	NA			

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 76515
QA Reviewer: Edward Long
Review Date: 11/6/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)				9426Z275007F							
Benzene	65-135/25	65-135/25	80	84	4						
Toluene	65-135/25	65-135/25	74	80	8						
Ethylbenzene	65-135/25	65-135/25	73	82	12						
Xylenes	65-135/25	65-135/25	71	82	14						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9426Z275007F							
Volatile PH as Gasoline	65-135/30	65-135/30	149*	142*	5						
			Associated gasoline results are ND.								
EPA 8015m (Diesel)				9426Z275007F							
Diesel Fuel	65-150/30	65-150/30	108	128	17						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)				9426Z275007F							
1,1-Dichloroethene	61-145/14	59-172/22	96	94	2						
Trichloroethene	71-120/14	62-137/24	88	90	2						
Benzene	76-127/11	66-142/21	82	82	0						
Toluene	76-125/13	59-139/21	99	101	2						
Chlorobenzene	75-130/13	60-133/21	76	74	3						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 76515

QA Reviewer: Edward Long
Review Date: 11/6/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8270 (PAHs)			9426Z275007F								
Naphthalene	40-160/30	40-160/30	69	87	23						
Fluorene	40-160/30	40-160/30	NA	NA	NA						
Pyrene	40-160/30	40-160/30	93	105	12						
Benzo(a)pyrene	40-160/30	40-160/30	NA	NA	NA						
Indeno(123cd)pyrene	40-160/30	40-160/30	NA	NA	NA						

Spiking solution did not contain the other analytes, due to a lab error.
Surrogate recoveries were acceptable. No qualifiers were applied to the data.

	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 6010/7000											
Cadmium	75-125/20	75-125/20	NA	NA	NA						
Chromium	75-125/20	75-125/20	NA	NA	NA						
Lead	75-125/20	75-125/20	NA	NA	NA						
Nickel	75-125/20	75-125/20	NA	NA	NA						
Zinc	75-125/20	75-125/20	NA	NA	NA						

	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 7420m			9426Z275007F								
Organic lead	75-125/20	75-125/20	108	106	2						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

				Combined method (BTEX/Gas)									
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample	Sample	Sample	W: 14 days	W: 14 days	W: 14 days	W: 14 days	W: 40 days	W: 28 days	W: 7 days	W: 40 days	W: 180 days	W: 28 days
Number	Matrix	Date	S: 14 days	S: 14 days	S: 14 days	S: 14 days	S: 40 days	S: 28 days	S: 14 days	S: 40 days	S: 180 days	S: 28 days
9450Z380001F	soil	12/12/94	NA	12/22/94	12/22/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380002F	soil	12/12/94	NA	12/23/94	12/23/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380003F	soil	12/12/94	NA	12/23/94	12/23/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380004F	soil	12/12/94	NA	12/23/94	12/23/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380005F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/11/95	NA	NA	NA	NA	12/21/94
9450Z380006F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z380007F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z380008F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z411009F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z411010F	soil	12/13/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z411011F	soil	12/14/94	NA	12/23/94	12/23/94	12/23/94	1/7/95	NA	NA	NA	NA	12/21/94
9450Z411012F	soil	12/14/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	12/21/94
9450Z411013F	soil	12/14/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	12/21/94
9450Z411014F	soil	12/14/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z449015F	soil	12/15/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z449016F	soil	12/15/94	NA	12/23/94	12/23/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z449017F	soil	12/16/94	NA	12/24/94	12/24/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z449018F	soil	12/16/94	NA	12/24/94	12/24/94	12/23/94	1/8/95	NA	NA	NA	NA	NA
9450Z275019F	soil	12/16/94	12/28/94	NA	12/24/94	NA	NA	NA	12/28/94	12/30/94	1/11/95	NA
9450Z275020F	soil	12/16/94	12/28/94	NA	12/27/94	NA	NA	NA	12/28/94	12/30/94	1/11/95	NA

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	019F	020F								
EPA 8240 - All analytes were nondetected in the method blanks.													
EPA 8270 - All analytes were nondetected in the method blanks.													
EPA 8020 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010													
Cadmium	ICB	1.9 µg/L	1.9 mg/kg	ND/-	ND/-								
EPA 7420m - All analytes were nondetected in the method blanks.													

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery Water	Soil	001F	002F	003F	004F	005F	006F	007F	008F	009F	010F
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	81	85	79	86	87	87	103	77	77	86
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	86	95	79	96	367*	97	90	89	90	90
							results are ND					
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	Soil										
EPA 8020 (VOCs)			011F	012F	013F	014F	015F	016F	017F	018F	019F	020F
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	86	88	89	86	89	85	86	87	74	84
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	91	93	90	92	89	91	88	93	NA	NA
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	98	98
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	103	97
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	104	107
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	82	76
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	96	84
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	84	81
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	105	101	1	NA	NA	NA			
Toluene	79-122/18	81-115/12	98	98	1	NA	NA	NA			
Ethylbenzene	73-117/18	81-118/13	104	101	3	NA	NA	NA			
Xylenes	75-120/14	85-114/12	107	103	4	NA	NA	NA			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	107	108	1	111	109	2			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	108	116	7	NA	NA	NA			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA			
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	97	95	2	NA	NA	NA			
Trichloroethene	70-119/12	68-114/17	99	108	8	NA	NA	NA			
Benzene	81-129/12	84-120/21	109	114	4	NA	NA	NA			
Toluene	83-125/12	81-118/17	110	109	1	NA	NA	NA			
Chlorobenzene	83-125/12	81-121/12	107	110	3	NA	NA	NA			

= Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation

Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD		LCS	LCSD		LCS	LCSD		LCS	LCSD	
	Water	Soil	%Rec	%Rec	RPD	%Rec	%Rec	RPD	%Rec	%Rec	RPD
EPA 8270 (PAHs)											
Naphthalene	40-160/30	40-160/30	73	75	3	NA	NA	NA			
Fluorene	40-160/30	40-160/30	80	84	5	NA	NA	NA			
Pyrene	40-160/30	40-160/30	82	85	4	NA	NA	NA			
Benzo(a)pyrene	40-160/30	40-160/30	81	80	1	NA	NA	NA			
Indeno(123cd)pyrene	40-160/30	40-160/30	56	56	0	NA	NA	NA			
EPA 6010/7000											
Cadmium	75-125	75-125	106	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	108	NA	NA	NA	NA	NA			
Lead	75-125	75-125	103	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	114	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	108	NA	NA	NA	NA	NA			
EPA 7420m											
Organic lead	75-125	75-125	102	101	1	NA	NA	NA			

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8020 (Aromatic VOCs)				9450Z380001F							
Benzene	65-135/25	65-135/25	88	91	3						
Toluene	65-135/25	65-135/25	82	87	7						
Ethylbenzene	65-135/25	65-135/25	83	92	10						
Xylenes	65-135/25	65-135/25	83	94	12						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9450Z380001F							
Volatile PH as Gasoline	65-135/30	65-135/30	96	95	1						
EPA 8015m (Diesel)				9450Z380001F							
Diesel Fuel	65-150/30	65-150/30	141	132	7						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)				9450Z275019F							
1,1-Dichloroethene	61-145/14	59-172/22	106	103	3						
Trichloroethene	71-120/14	62-137/24	104	108	4						
Benzene	76-127/11	66-142/21	102	99	3						
Toluene	76-125/13	59-139/21	105	103	2						
Chlorobenzene	75-130/13	60-133/21	102	100	2						

* = Recovery not within control limits. Reextraction data are indicated in parenth

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 79421

QA Reviewer: Edward Long
Review Date: 10/18/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8270 (PAHs)				9450Z275019F							
Naphthalene	40-160/30	40-160/30	74	73	2						
Fluorene	40-160/30	40-160/30	84	82	3						
Pyrene	40-160/30	40-160/30	85	83	2						
Benzo(a)pyrene	40-160/30	40-160/30	80	80	0						
Indeno(123cd)pyrene	40-160/30	40-160/30	58	56	3						
EPA 6010/7000				9450Z275019F							
Cadmium	75-125/20	75-125/20	90	NA	ND						
Chromium	75-125/20	75-125/20	93	NA	8						
Lead	75-125/20	75-125/20	95	NA	ND						
Nickel	75-125/20	75-125/20	92	NA	49*						
Zinc	75-125/20	75-125/20	93	NA	3						

Ni - difference criterion applies and is met.

	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 7420m				9450Z275019F							
Organic lead	75-125/20	75-125/20	103	NA	ND						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 79429 **Review Date: 2/2/95**

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	**Type of Blank**	**Blank Concentration**	**Action Level (5X, 10X)**	**021F**	**022F**	**023F**	**024F**						
EPA 8240 - All analytes were nondetected in the method blanks.													
EPA 8270 - All analytes were nondetected in the method blanks.													
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.													
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.													
EPA 6010													
Cadmium	ICB	1.9 µg/L	1.9 mg/kg	ND/-	ND/-	ND/-	ND/-						

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

tion
iew of Blanks

Sample matrix: soil
All units are µg/kg, except where noted.

Laboratory: Quanterra
Analytical Batch: 79429

QA Reviewer: Edward Long
Review Date: 2/2/95

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	021F	022F	023F	024F
EPA 8240 - All analytes were nondetected in the method blanks.							
EPA 8270 - All analytes were nondetected in the method blanks.							
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.							
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.							
EPA 6010							
Cadmium	ICB	1.9 µg/L	1.9 mg/kg	ND/-	ND/-	ND/-	ND/-

on level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
ues which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 79429

QA Reviewer: Edward Long
Review Date: 2/2/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery													
	Water	Soil												
EPA 8020 (VOCs)			021F	022F	023F	024F								
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA								
Mod EPA 8015 (Gasoline)														
4-Bromofluorobenzene	70-130	70-130	89	88	90	90								
Mod EPA 8015 (Diesel)														
o-Terphenyl	65-150	50-150	92	48*	89	88								
				qualify: J- (det/ND)										
EPA 8240 (VOCs)														
Toluene-d8	88-110	81-117	103	98	96	102								
4-Bromofluorobenzene	86-115	74-121	98	101	96	103								
1,2-Dichloroethane-d4	76-114	70-121	109	109	107	110								
EPA 8270 (PAHs)														
Nitrobenzene-d5	36-114	23-120	83	71	80	74								
2-Fluorobiphenyl	43-116	30-115	96	83	90	86								
Terphenyl-d14	33-141	18-137	91	85	80	81								
Phenol-d5	10-94	24-113	NA	NA	NA	NA								
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA								
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA								

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 79429

QA Reviewer: Edward Long
Review Date: 2/2/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**										
	Water	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	NA	NA	NA						
Toluene	79-122/18	81-115/12	NA	NA	NA						
Ethylbenzene	73-117/18	81-118/13	NA	NA	NA						
Xylenes	75-120/14	85-114/12	NA	NA	NA						
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	106	106	0						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	100	111	10						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA						
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	97	95	2						
Trichloroethene	70-119/12	68-114/17	99	108	8						
Benzene	81-129/12	84-120/21	109	114	4						
Toluene	83-125/12	81-118/17	110	109	1						
Chlorobenzene	83-125/12	81-121/12	107	110	3						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 79429

QA Reviewer: Edward Long
Review Date: 2/2/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8270 (PAHs)											
Naphthalene	40-160/30	40-160/30	73	75	3						
Fluorene	40-160/30	40-160/30	80	84	4						
Pyrene	40-160/30	40-160/30	82	85	4						
Benzo(a)pyrene	40-160/30	40-160/30	81	80	1						
Indeno(123cd)pyrene	40-160/30	40-160/30	56	56	0						
EPA 6010/7000											
Cadmium	75-125	75-125	103	NA	NA						
Chromium	75-125	75-125	108	NA	NA						
Lead	75-125	75-125	103	NA	NA						
Nickel	75-125	75-125	114	NA	NA						
Zinc	75-125	75-125	108	NA	NA						
EPA 7420m											
Organic lead	75-125	75-125	NA	NA	NA						

= Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 79429

QA Reviewer: Edward Long
Review Date: 2/2/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**										
	Water	**Soil**	**MS %Rec**	**MSD %Rec**	**RPD**	**MS %Rec**	**MSD %Rec**	**RPD**	**MS %Rec**	**MSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	65-135/25	65-135/25	NA	NA	NA						
Toluene	65-135/25	65-135/25	NA	NA	NA						
Ethylbenzene	65-135/25	65-135/25	NA	NA	NA						
Xylenes	65-135/25	65-135/25	NA	NA	NA						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9450Z275021F							
Volatile PH as Gasoline	65-135/30	65-135/30	85	80	6						
EPA 8015m (Diesel)				9450Z275021F							
Diesel Fuel	65-150/30	65-150/30	140	150	7						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)				9450Z275021F							
1,1-Dichloroethene	61-145/14	59-172/22	101	106	5						
Trichloroethene	71-120/14	62-137/24	102	103	2						
Benzene	76-127/11	66-142/21	92	96	4						
Toluene	76-125/13	59-139/21	103	108	5						
Chlorobenzene	75-130/13	60-133/21	98	99	1						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 79429

QA Reviewer: Edward Long
Review Date: 2/2/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD										
	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8270 (PAHs)			9450Z275021F								
Naphthalene	40-160/30	40-160/30	73	73	1						
Fluorene	40-160/30	40-160/30	83	84	1						
Pyrene	40-160/30	40-160/30	87	88	1						
Benzo(a)pyrene	40-160/30	40-160/30	79	80	2						
Indeno(123cd)pyrene	40-160/30	40-160/30	71	73	3						
EPA 6010/7000			9450Z275021F								
Cadmium	75-125/20	75-125/20	95	NA	ND						
Chromium	75-125/20	75-125/20	95	NA	32*						
Lead	75-125/20	75-125/20	97	NA	ND						
Nickel	75-125/20	75-125/20	101	NA	31*						
Zinc	75-125/20	75-125/20	99	NA	2						
EPA 7420m											
Organic lead	75-125/20	75-125/20	NA	NA	NA						

Affected: all samples
Qualify: J (det) for chromium.
Ni - difference criterion applies and is met.

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra
Analytical Batch: 79530

QA Reviewer: Edward Long
Review Date: 10/23/95

				Combined method (BTEX/Gas)								
			EPA 8240 (VOCs)	EPA 8020 (BTEX)	EPA 8015m (Gasoline)	EPA 8015m (Diesel)		SM5520 (O & G)	EPA 8270 (SOCs)		EPA 6010/7000 (Metals)	EPA 7420m (Organic Lead)
Sample Number	Sample Matrix	Sample Date	Analysis W: 14 days S: 14 days	Analysis W: 14 days S: 14 days	Analysis W: 14 days S: 14 days	Extraction W: 14 days S: 14 days	Analysis W: 40 days S: 40 days	Analysis W: 28 days S: 28 days	Extraction W: 7 days S: 14 days	Analysis W: 40 days S: 40 days	Analysis W: 180 days S: 180 days	Analysis W: 28 days S: 28 days
9451Z380030F	soil	12/22/94	NA	1/3/95	1/3/95	1/4/95	1/7/95	NA	NA	NA	NA	1/4/95
9451Z380031F	soil	12/22/94	NA	1/3/95	1/3/95	1/4/95	1/6/95	NA	NA	NA	NA	1/4/95
9451Z380032F	soil	12/22/94	NA	1/4/95	1/4/95	1/4/95	1/6/95	NA	NA	NA	NA	1/4/95
9451Z380033F	soil	12/22/94	NA	1/4/95	1/4/95	1/4/95	1/7/95	NA	NA	NA	NA	1/4/95
9451Z275034F	soil	12/22/94	12/28/94	NA	12/29/94	1/4/95	1/7/95	NA	12/28/94	1/3/95	1/11/94	NA
9451Z275035F	soil	12/22/94	12/29/94	NA	12/30/94	1/4/95	1/7/95	NA	12/28/94	12/30/94	1/11/94	NA
9451Z275036F	soil	12/22/94	12/29/94	NA	12/30/94	1/4/95	1/7/95	NA	12/28/94	12/30/94	1/11/94	NA
9451Z275037F	soil	12/22/94	12/30/94	NA	12/30/94	1/4/95	1/7/95	NA	12/28/94	12/30/94	1/11/94	NA
9451Z449038F	soil	12/23/94	NA	1/4/95	1/4/95	1/4/95	1/10/95	NA	NA	NA	NA	NA
9451Z449039F	soil	12/23/94	NA	1/4/95	1/4/95	1/4/95	1/7/95	NA	NA	NA	NA	NA
9451Z449040F	soil	12/23/94	NA	1/4/95	1/4/95	1/4/95	1/7/95	NA	NA	NA	NA	1/4/95
9451Z449041F	soil	12/23/94	NA	1/4/95	1/4/95	1/4/95	1/7/95	NA	NA	NA	NA	1/4/95
9451Z449042F	soil	12/23/94	NA	1/4/95	1/4/95	1/4/95	1/7/95	NA	NA	NA	NA	1/4/95

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra
Analytical Batch: 79530

QA Reviewer: Edward Long
Review Date: 10/23/95

Sample matrix: soil
All units are mg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concen-tration	Action Level (5X, 10X)	034F	035F	036F	037F
EPA 8240 - All analytes were nondetected in the method blanks.							
EPA 8270 - All analytes were nondetected in the method blanks.							
EPA 8020 - All analytes were nondetected in the method blanks.							
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.							
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.							
EPA 6010							
Cadmium	ICB	1.9 µg/L	1.9 mg/kg	ND/-	ND/-	ND/-	ND/-
EPA 7420m - All analytes were nondetected in the method blanks.							

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
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Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 79530

QA Reviewer: Edward Long
Review Date: 10/23/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery Water	FHL Control Limits for % recovery Soil	030F	031F	032F	033F	034F	035F	036F	037F	038F	039F
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	86	84	83	81	81	82	87	88	84	92
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	103	113	105	75	52	100	104	100	205* qualify: J+ (det)	85
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	105	98	100	104	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	94	100	103	103	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	109	101	100	102	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	74	76	85	83	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	88	86	93	90	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	85	85	85	83	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 79530

QA Reviewer: Edward Long
Review Date: 10/23/95

Sample matrix: soil	FHL Control Limits for % recovery		Surrogate recoveries are indicated here for all samples in the reporting batch.									
	Water	Soil										
EPA 8020 (VOCs)			040F	041F	042F							
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA							
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	92	88	85							
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	92	100	98							
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA							
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA							
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA							
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA							
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA							
Terphenyl-d14	33-141	18-137	NA	NA	NA							
Phenol-d5	10-94	24-113	NA	NA	NA							
2-Fluorophenol	21-100	25-121	NA	NA	NA							
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA							

* = Recovery not within control limits. Reextraction data are indicated in parentheses.
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 79530

QA Reviewer: Edward Long
Review Date: 10/23/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD										
	Water	Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RP
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	93	94	1	NA	NA	NA			
Toluene	79-122/18	81-115/12	93	92	1	NA	NA	NA			
Ethylbenzene	73-117/18	81-118/13	97	95	3	NA	NA	NA			
Xylenes	75-120/14	85-114/12	94	91	3	NA	NA	NA			
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA			
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	108	109	1	102	96	6			
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	103	110	7	NA	NA	NA			
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA			
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA			
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	97	95	2	83	85	2			
Trichloroethene	70-119/12	68-114/17	99	108	8	89	91	2			
Benzene	81-129/12	84-120/21	109	114	4	93	95	2			
Toluene	83-125/12	81-118/17	110	109	1	90	95	5			
Chlorobenzene	83-125/12	81-121/12	107	110	3	94	98	4			

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 79530

QA Reviewer: Edward Long
Review Date: 10/23/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
EPA 8270 (PAHs)											
Naphthalene	40-160/30	40-160/30	73	75	3	NA	NA	NA			
Fluorene	40-160/30	40-160/30	80	84	5	NA	NA	NA			
Pyrene	40-160/30	40-160/30	82	85	4	NA	NA	NA			
Benzo(a)pyrene	40-160/30	40-160/30	81	80	1	NA	NA	NA			
Indeno(123cd)pyrene	40-160/30	40-160/30	56	56	0	NA	NA	NA			
EPA 6010/7000											
Cadmium	75-125	75-125	106	NA	NA	NA	NA	NA			
Chromium	75-125	75-125	108	NA	NA	NA	NA	NA			
Lead	75-125	75-125	103	NA	NA	NA	NA	NA			
Nickel	75-125	75-125	114	NA	NA	NA	NA	NA			
Zinc	75-125	75-125	108	NA	NA	NA	NA	NA			
EPA 7420m											
Organic lead	75-125	75-125	99	96	3	NA	NA	NA			

- Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 79530

QA Reviewer: Edward Long
Review Date: 10/23/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD		MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
	Water	Soil									
EPA 8020 (Aromatic VOCs)				9451Z275030F							
Benzene	65-135/25	65-135/25	81	84	4						
Toluene	65-135/25	65-135/25	80	82	2						
Ethylbenzene	65-135/25	65-135/25	83	87	4						
Xylenes	65-135/25	65-135/25	80	83	3						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9451Z275030F							
Volatile PH as Gasoline	65-135/30	65-135/30	94	94	0						
EPA 8015m (Diesel)				9451Z275030F							
Diesel Fuel	65-150/30	65-150/30	104	102	2						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)				9451Z275034F							
1,1-Dichloroethene	61-145/14	59-172/22	106	104	2						
Trichloroethene	71-120/14	62-137/24	105	103	3						
Benzene	76-127/11	66-142/21	97	93	5						
Toluene	76-125/13	59-139/21	113	106	7						
Chlorobenzene	75-130/13	60-133/21	101	95	6						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 79530

QA Reviewer: Edward Long
Review Date: 10/23/95

Sample matrix: soil

EPA 8270 (PAHs)	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
				9451Z275034F							
Naphthalene	40-160/30	40-160/30	68	73	8						
Fluorene	40-160/30	40-160/30	79	81	3						
Pyrene	40-160/30	40-160/30	79	81	3						
Benzo(a)pyrene	40-160/30	40-160/30	83	84	1						
Indeno(123cd)pyrene	40-160/30	40-160/30	67	68	1						

EPA 6010/7000	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
				9451Z275034F							
Cadmium	75-125/20	75-125/20	93	NA	ND						
Chromium	75-125/20	75-125/20	97	NA	7						
Lead	75-125/20	75-125/20	97	NA	ND						
Nickel	75-125/20	75-125/20	96	NA	28*						
Zinc	75-125/20	75-125/20	95	NA	6						

Ni - difference criterion applies and is met.

EPA 7420m	Water	Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
				9451Z275034F							
Organic lead	75-125/20	75-125/20	97	NA	ND						

– Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: Quanterra | **QA Reviewer: Edward Long**

Analytical Batch: 80007 | **Review Date: 11/3/95**

Sample Number	Sample Matrix	Sample Date	EPA 8240 (VOCs) Analysis W: 14 days S: 14 days	Combined method (BTEX/Gas) EPA 8020 (BTEX) Analysis W: 14 days S: 14 days	Combined method (BTEX/Gas) EPA 8015m (Gasoline) Analysis W: 14 days S: 14 days	EPA 8015m (Diesel) Extraction W: 14 days S: 14 days	EPA 8015m (Diesel) Analysis W: 40 days S: 40 days	SM5520 (O & G) Analysis W: 28 days S: 28 days	EPA 8270 (SOCs) Extraction W: 7 days S: 14 days	EPA 8270 (SOCs) Analysis W: 40 days S: 40 days	EPA 6010/7000 (Metals) Analysis W: 180 days S: 180 days	EPA 7420m (Organic Lead) Analysis W: 28 days S: 28 days
9504Z449050F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/2/95	NA	NA	NA	NA	NA
9504Z449051F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/2/95	NA	NA	NA	NA	NA
9504Z449052F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/2/95	NA	NA	NA	NA	NA
9504Z449053F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449054F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/2/95	NA	NA	NA	NA	NA
9504Z449055F	soil	1/26/95	NA	2/6/95	2/6/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449056F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449057F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449058F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449059F	soil	1/26/95	NA	2/6/95	2/6/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449060F	soil	1/26/95	NA	2/6/95	2/6/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z449061F	soil	1/26/95	NA	2/6/95	2/6/95	2/1/95	2/3/95	NA	NA	NA	NA	NA
9504Z411062F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	1/31/95
9504Z411063F	soil	1/26/95	NA	2/3/95	2/3/95	2/1/95	2/3/95	NA	NA	NA	NA	1/31/95
9504Z275064F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA
9504Z275065F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA
9504Z275066F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA
9504Z275067F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA
9504Z275068F	soil	1/26/95	2/1/95	NA	2/3/95	2/1/95	2/3/95	NA	1/31/95	2/1/95	2/2/95	NA

*** = Holding time violation**

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 80007 **Review Date: 11/3/95**

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)	064F	065F	066F	067F	068F
EPA 8240								
Acetone	Method	7.1	71	ND/-	ND/-	34/U	ND/-	ND/-
EPA 8270 - All analytes were nondetected in the method blanks.								
EPA 8020 - All analytes were nondetected in the method blanks.								
EPA 8015m (Gas) - All analytes were nondetected in the method blanks.								
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.								
EPA 6010								
Cadmium	CCB	2.9 µg/L	2.9 mg/kg	ND/-	ND/-	ND/-	ND/-	ND/-
Nickel	CCB	23 µg/L	23 mg/kg	ND/-	4.6/U	5.3/U	7.9/U	9.5/U
Zinc	Prep	0.42 mg/kg	2.1 mg/kg	4.6/-	5.9/-	7.8/-	5.0/-	6.2/-
EPA 7420m - All analytes were nondetected in the method blanks.								

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected "U".

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	**FHL Control Limits for % recovery Water**	**Soil**	**050F**	**051F**	**052F**	**053F**	**054F**	**055F**	**056F**	**057F**	**058F**	**059F**
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	87	77	75	86	83	89	87	77	83	88
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	86	83	89	DIL	86	86	76	90	86	90
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil

Surrogate recoveries are indicated here for all samples in the reporting batch.

	FHL Control Limits for % recovery											
	Water	**Soil**	**060F**	**061F**	**062F**	**063F**	**064F**	**065F**	**066F**	**067F**	**068F**	
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	88	86	82	86	85	77	74	78	80	
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	83	85	89	90	78	65	84	87	93	
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	104	106	106	104	102	
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	96	99	104	103	102	
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	101	111	107	113	114	
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	NA	NA	NA	NA	68	70	70	70	76	
2-Fluorobiphenyl	43-116	30-115	NA	NA	NA	NA	76	75	74	73	80	
Terphenyl-d14	33-141	18-137	NA	NA	NA	NA	61	57	63	58	58	
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	95	98	3	96	95	0	NA	NA	NA
Toluene	79-122/18	81-115/12	95	97	2	93	95	2	NA	NA	NA
Ethylbenzene	73-117/18	81-118/13	98	99	1	99	99	0	NA	NA	NA
Xylenes	75-120/14	85-114/12	99	99	1	100	98	2	NA	NA	NA
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	107	106	1	109	109	0	100	100	0
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	89	86	3	NA	NA	NA	NA	NA	NA
Fog Oil	65-150/30	65-150/30	NA	NA	NA	NA	NA	NA	NA	NA	NA
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	84	85	1	NA	NA	NA	NA	NA	NA
Trichloroethene	70-119/12	68-114/17	93	87	7	NA	NA	NA	NA	NA	NA
Benzene	81-129/12	84-120/21	102	92	10	NA	NA	NA	NA	NA	NA
Toluene	83-125/12	81-118/17	100	95	5	NA	NA	NA	NA	NA	NA
Chlorobenzene	83-125/12	81-121/12	99	95	5	NA	NA	NA	NA	NA	NA

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: Quanterra **QA Reviewer: Edward Long**
Analytical Batch: 80007 **Review Date: 11/3/95**

Sample matrix: soil

	FHL Control Limits for % recovery/RPD										
	Water	**Soil**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**	**LCS %Rec**	**LCSD %Rec**	**RPD**
EPA 8270 (PAHs)											
Naphthalene	40-160/30	40-160/30	74	73	0	NA	NA	NA	NA	NA	NA
Fluorene	40-160/30	40-160/30	79	80	2	NA	NA	NA	NA	NA	NA
Pyrene	40-160/30	40-160/30	77	78	2	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	40-160/30	40-160/30	78	81	4	NA	NA	NA	NA	NA	NA
Indeno(123cd)pyrene	40-160/30	40-160/30	97	100	3	NA	NA	NA	NA	NA	NA
EPA 6010/7000											
Cadmium	75-125	75-125	113	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	75-125	75-125	113	NA	NA	NA	NA	NA	NA	NA	NA
Lead	75-125	75-125	113	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	75-125	75-125	119	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	75-125	75-125	114	NA	NA	NA	NA	NA	NA	NA	NA
EPA 7420m											
Organic lead	75-125	75-125	104	106	2	NA	NA	NA	NA	NA	NA

= Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation

Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil	**FHL Control Limits for % recovery/RPD**										
	Water	**Soil**	**MS %Rec**	**MSD %Rec**	**RPD**	**MS %Rec**	**MSD %Rec**	**RPD**	**MS %Rec**	**MSD %Rec**	**RPD**
EPA 8020 (Aromatic VOCs)				9504Z411062F							
Benzene	65-135/25	65-135/25	82	84	1						
Toluene	65-135/25	65-135/25	78	81	4						
Ethylbenzene	65-135/25	65-135/25	80	83	3						
Xylenes	65-135/25	65-135/25	79	81	3						
1,3-Dichlorobenzene	65-135/25	65-135/25	NA	NA	NA						
EPA 8015m (Gasoline)				9504Z411062F							
Volatile PH as Gasoline	65-135/30	65-135/30	87	90	3						
EPA 8015m (Diesel)				9504Z411062F							
Diesel Fuel	65-150/30	65-150/30	118	116	2						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/40	65-135/40	NA	NA	NA						
EPA 8240 (VOCs)				9504Z411062F							
1,1-Dichloroethene	61-145/14	59-172/22	65	64	2						
Trichloroethene	71-120/14	62-137/24	87	91	4						
Benzene	76-127/11	66-142/21	98	99	1						
Toluene	76-125/13	59-139/21	103	102	1						
Chlorobenzene	75-130/13	60-133/21	92	96	4						

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 5 - Review of Matrix Spike/Matrix Spike Duplicates (MS/MSD) and Matrix Duplicates

Laboratory: Quanterra
Analytical Batch: 80007

QA Reviewer: Edward Long
Review Date: 11/3/95

Sample matrix: soil	FHL Control Limits for % recovery/RPD Water	FHL Control Limits for % recovery/RPD Soil	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD	MS %Rec	MSD %Rec	RPD
EPA 8270 (PAHs)				9504Z411062F							
Naphthalene	40-160/30	40-160/30	65	72	10						
Fluorene	40-160/30	40-160/30	77	81	4						
Pyrene	40-160/30	40-160/30	87	92	6						
Benzo(a)pyrene	40-160/30	40-160/30	69	83	19						
Indeno(123cd)pyrene	40-160/30	40-160/30	96	104	9						
EPA 6010/7000				9504Z411064F							
Cadmium	75-125/20	75-125/20	102	NA	ND						
Chromium	75-125/20	75-125/20	105	NA	2						
Lead	75-125/20	75-125/20	102	NA	ND						
Nickel	75-125/20	75-125/20	106	NA	ND						
Zinc	75-125/20	75-125/20	103	NA	54*						
EPA 7420m				9504Z411062F							
Organic lead	75-125/20	75-125/20	107	NA	ND						

Zn - difference criterion applies and is met.

* = Recovery not within control limits. Reextraction data are indicated in parentheses.

Fort Ord UST - Data Validation
Worksheet 1 - Review of Holding Times

Laboratory: APPL, Inc.
Analytical Batch: 22004

QA Reviewer: L. Helliwell/E. Long
Review Date: 3/5/96

				Combined method (BTEX/Gas)									
			EPA 8240	EPA 8020	EPA 8015m	EPA 8015m		SM5520	EPA 8270		EPA 6010/7000	EPA 7420m
			(VOCs)	(BTEX)	(Gasoline)	(Diesel)		(O & G)	(SOCs)		(Metals)	(Organic Lead)
			Analysis	Analysis	Analysis	Extraction	Analysis	Analysis	Extraction	Analysis	Analysis	Analysis
Sample Number	Sample Matrix	Sample Date	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 14 days S: 14 days	W: 40 days S: 40 days	W: 28 days S: 28 days	W: 7 days S: 14 days	W: 40 days S: 40 days	W: 180 days S: 180 days	W: 28 days S: 28 days
9603H275170F	soil	1/17/96	NA	1/19/96	1/19/96	1/22/96	1/23/96	NA	1/22/96	1/23/96	NA	NA
9603H275172D	soil	1/17/96	NA	1/19/96	1/19/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275173F	soil	1/17/96	NA	1/19/96	1/19/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275174F	soil	1/17/96	NA	1/19/96	1/19/96	1/22/96	1/24/96	NA	1/22/96	1/24/96	NA	NA
9603H275175F	soil	1/17/96	NA	1/22/96	1/22/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275176F	soil	1/17/96	NA	1/22/96	1/22/96	1/22/96	1/23/96	NA	1/22/96	1/24/96	NA	NA
9603H275177F	soil	1/17/96	NA	1/19/96	1/19/96	1/22/96	1/24/96	NA	1/22/96	1/24/96	NA	NA
9603H275178F	soil	1/17/96	NA	1/19/96	1/19/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275182F	soil	1/17/96	NA	1/20/96	1/20/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275184D	soil	1/17/96	NA	1/20/96	1/20/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275185F	soil	1/17/96	NA	1/20/96	1/20/96	1/22/96	1/24/96	NA	1/22/96	1/24/96	NA	NA
9603H275186F	soil	1/17/96	NA	1/20/96	1/20/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275187F	soil	1/17/96	NA	1/20/96	1/20/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275188F	soil	1/17/96	NA	1/20/96	1/20/96	1/22/96	1/24/96	NA	1/22/96	1/24/96	NA	NA
9603H275189F	soil	1/17/96	NA	1/20/96	1/20/96	1/22/96	1/24/96	NA	1/22/96	1/23/96	NA	NA
9603H275190F	soil	1/17/96	NA	1/20/96	1/20/96	1/22/96	1/24/96	NA	1/22/96	1/24/96	NA	NA
9603H275191A	water	1/17/96	NA	1/23/96	1/23/96	NA	NA	NA	NA	NA	NA	NA

* = Holding time violation

Fort Ord UST - Data Validation
Worksheet 2 - Review of Blanks

Laboratory: APPL, Inc.
Analytical Batch: 22004

QA Reviewer: L. Helliwell/E. Long
Review Date: 3/5/96

Sample matrix: soil
All units are µg/kg, except where noted.

Sample results and qualifiers are indicated here for all samples in the reporting batch.

Analytical Method and Target Analyte	Type of Blank	Blank Concentration	Action Level (5X, 10X)
EPA 8020 - All analytes were nondetected in the method blanks and trip blank.			
EPA 8270 - All analytes were nondetected in the method blanks.			
EPA 8015m (Gas) - All analytes were nondetected in the method blanks and trip blank.			
EPA 8015m (Diesel) - All analytes were nondetected in the method blanks.			

Note: Action level for a common lab contaminant = 10X the highest concentration observed in any blank associated with the analytical batch.
The action level for other target analytes = 5X the highest concentration observed in any blank associated with the analytical batch.
Sample values which are less than or equal to the action level (expressed in the same units) are qualified as nondetected (U).

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: APPL, Inc.
Analytical Batch: 22004

QA Reviewer: L. Helliwell/E. Long
Review Date: 3/5/96

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	FHL Control Limits for % recovery Water	 Soil	170F	172D	173F	174F	175F	176F	177F	178F	182F	184D
EPA 8020 (VOCs)												
4-Bromofluorobenzene	75-118	65-135	112	104	103	107	107	110	103	112	104	104
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	98	96	101	104	126	114	99	98	102	111
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	71	73	75	70	87	76	74	70	65	72
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 8270 (PAHs)												
Nitrobenzene-d5	36-114	23-120	90	76	91	75	97	84	93	95	97	99
2-Fluorobiphenyl	43-116	30-115	87	86	85	79	95	85	93	90	91	89
Terphenyl-d14	33-141	18-137	109	104	104	101	91	97	101	101	103	106
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 3 - Review of Surrogate Recoveries

Laboratory: APPL, Inc.
Analytical Batch: 22004

QA Reviewer: L. Helliwell/E. Long
Review Date: 3/5/96

Surrogate recoveries are indicated here for all samples in the reporting batch.

Sample matrix: soil	**FHL Control Limits for % recovery Water**	**Soil**	**185F**	**186F**	**187F**	**188F**	**189F**	**190F**	**191A**			
EPA 8020 (VOCs)												
a,a,a-Trifluorotoluene	75-118	65-135	103	100	99	101	99	130	104			
Mod EPA 8015 (Gasoline)												
4-Bromofluorobenzene	70-130	70-130	100	105	93	97	98	120	101			
Mod EPA 8015 (Diesel)												
o-Terphenyl	65-150	50-150	74	67	68	69	71	70	NA			
EPA 8240 (VOCs)												
Toluene-d8	88-110	81-117	NA	NA	NA	NA	NA	NA	NA			
4-Bromofluorobenzene	86-115	74-121	NA	NA	NA	NA	NA	NA	NA			
1,2-Dichloroethane-d4	76-114	70-121	NA	NA	NA	NA	NA	NA	NA			
EPA 8270 (B/N/A Extractables)												
Nitrobenzene-d5	36-114	23-120	93	74	88	95	95	87	NA			
2-Fluorobiphenyl	43-116	30-115	97	78	91	100	91	85	NA			
Terphenyl-d14	33-141	18-137	102	71	88	107	97	88	NA			
Phenol-d5	10-94	24-113	NA	NA	NA	NA	NA	NA	NA			
2-Fluorophenol	21-100	25-121	NA	NA	NA	NA	NA	NA	NA			
2,4,6-Tribromophenol	10-123	19-122	NA	NA	NA	NA	NA	NA	NA			

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**
DIL = surrogate compound diluted out.

Fort Ord UST - Data Validation
Worksheet 4 - Review of Laboratory Control Samples (LCS)

Laboratory: APPL, Inc.
Analytical Batch: 22004

QA Reviewer: L. Helliwell/E. Long
Review Date: 3/5/96

Sample matrix: soil	FHL Control Limits for % recovery/RPD		LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD	LCS %Rec	LCSD %Rec	RPD
	Water	Soil									
EPA 8020 (Aromatic VOCs)											
Benzene	75-122/12	79-116/12	116	NA	NA						
Toluene	79-122/18	81-115/12	116	NA	NA						
Ethylbenzene	73-117/18	81-118/13	98	NA	NA						
Xylenes	75-120/14	85-114/12	112	NA	NA						
1,3-Dichlorobenzene	74-123/19	65-135/20	NA	NA	NA						
EPA 8015m (Gasoline)											
Volatile PH as Gasoline	75-125/15	75-125/15	110	NA	NA						
EPA 8015m (Diesel)											
Diesel Fuel	65-150/30	65-150/30	85	NA	NA						
Fog Oil	65-150/30	65-150/30	NA	NA	NA						
SM5520											
Oil and Grease	65-135/35	65-135/35	NA	NA	NA						
EPA 8240 (VOCs)											
1,1-Dichloroethene	65-139/16	63-165/18	NA	NA	NA						
Trichloroethene	70-119/12	68-114/17	NA	NA	NA						
Benzene	81-129/12	84-120/21	NA	NA	NA						
Toluene	83-125/12	81-118/17	NA	NA	NA						
Chlorobenzene	83-125/12	81-121/12	NA	NA	NA						

*** = Recovery not within control limits. Reextraction data are indicated in parentheses.**

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Buildings 4107, 4110, and 4590
and Facility 2754
Former Fort Ord, California

February 27, 1997

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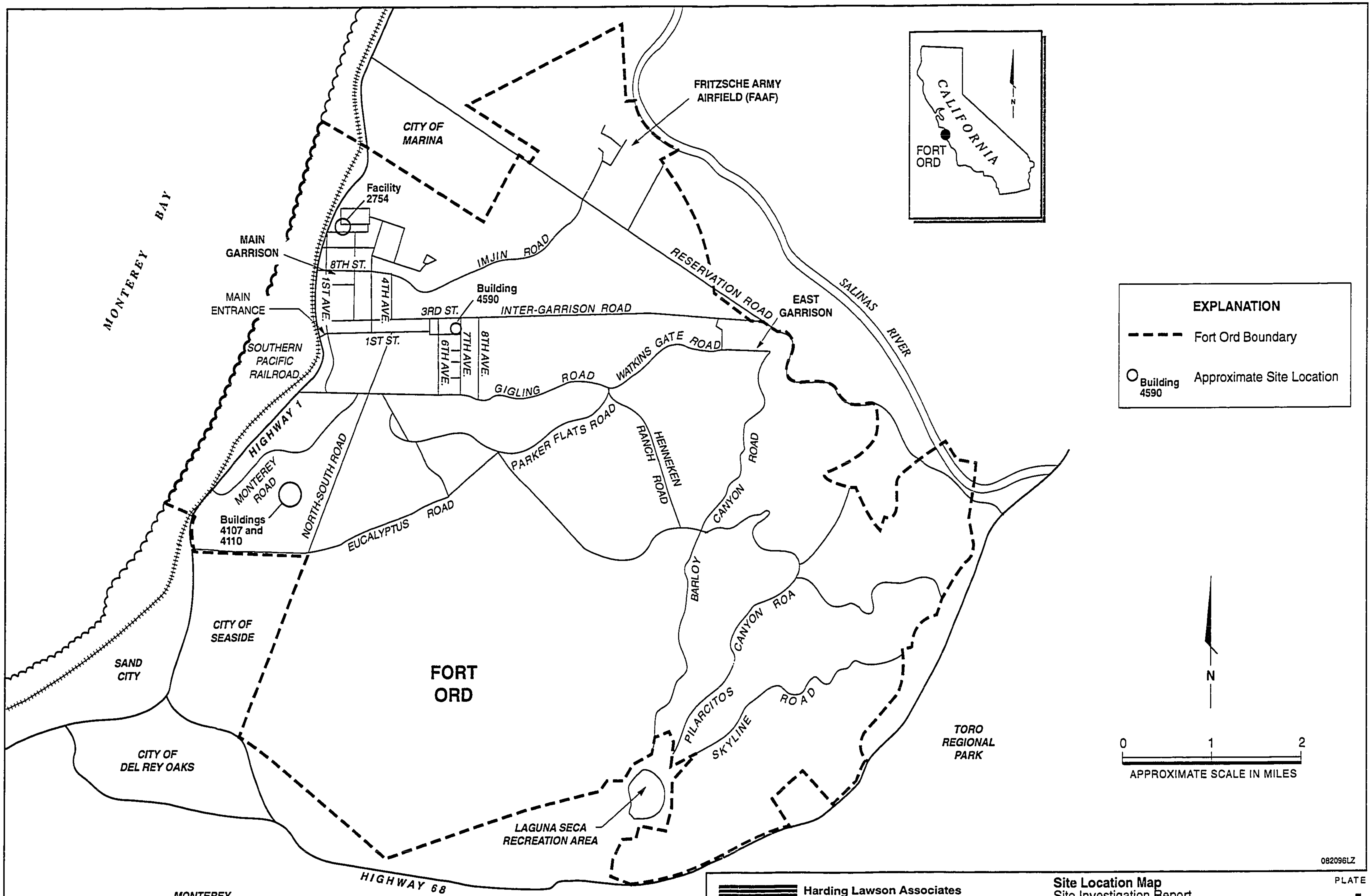

Harding Lawson Associates
Engineering and
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Site Location Map
Site Investigation Report
Buildings 4107, 4110 and 4590,
and Facility 2754
Former Fort Ord, California

PLATE
1

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
DJPc	23367 02671	JJ	2/94	6/96

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