

**FINAL
REMOVAL ACTION SITE CLOSEOUT REPORT
TIME-CRITICAL REMOVAL ACTION FOR
BUILDING 195 PESTICIDE SHED DEMOLITION AND SOIL REMOVAL
ALAMEDA POINT
ALAMEDA, CALIFORNIA**

**Environmental Remedial Action
Contract Number N62474-98-D-2076
Contract Task Order 0013**

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February 5, 2004

**U. S. Department of the Navy
Southwest Division
Naval Facilities Engineering Command
Environmental Division
1220 Pacific Highway
San Diego, California 92132-5190**

**Response Authority: CERCLA
Site Status: NPL
Category of Removal: Time-Critical Removal Action
CERCLIS ID: CA2170023236
Site ID: Parcel 98, Building 195
Project Period: 11/12/01 – 6/7/02**

**ALAMEDA POINT
ALAMEDA, CALIFORNIA**

**FINAL
REMOVAL ACTION SITE CLOSEOUT REPORT**

**TIME-CRITICAL REMOVAL ACTION FOR
BUILDING 195 PESTICIDE SHED DEMOLITION AND SOIL REMOVAL**



DEPARTMENT OF THE NAVY

SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090
Ser 06CA.GL/0112
February 5, 2004

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Dear Ms. Cook:

Subj: FINAL REMOVAL ACTION SITE CLOSEOUT REPORT, TIME-CRITICAL REMOVAL
ACTION FOR BUILDING 195 PESTICIDE SHED DEMOLITION AND SOIL REMOVAL
ALAMEDA POINT, ALAMEDA, CALIFORNIA

The above-mentioned final report is enclosed. We have addressed your comments and included our responses and revisions in the report. If you have questions, please call Mr. Greg Lorton at (619) 532-0953 or e-mail him at gregory.lorton@navy.mil.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Macchiarella".

THOMAS MACCHIARELLA
BRAC Environmental Coordinator
By direction of the Commander

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FINAL
REMOVAL ACTION SITE CLOSEOUT REPORT
FOR THE TIME-CRITICAL REMOVAL ACTION FOR
THE BUILDING 195 PESTICIDE SHED
DEMOLITION AND SOIL REMOVAL

DATED 01 DECEMBER 2003

IS ENTERED IN THE DATABASE AND FILED AT
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Acronyms and Abbreviations

µg/dL	microgram(s) per deciliter
ARAR	Applicable or Relevant and Appropriate Requirement
BCT	Base Realignment and Closure Cleanup Team
BRAC	Base Realignment and Closure
Cal/EPA	California Environmental Protection Agency
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	chain-of-custody
COPC	chemical of potential concern
DOT	U.S. Department of Transportation
DTSC	Department of Toxic Substances Control
EBS	Environmental Baseline Survey
EPA	U.S. Environmental Protection Agency
HDPE	high-density polyethylene
HI	hazard index
HNO ₃	nitric acid
HQ	hazard quotient
ILCR	incremental lifetime cancer risk
IT	IT Corporation
mg/kg	milligram(s) per kilogram
mg/L	milligrams per liter
mL	milliliter
PCB	polychlorinated biphenyl
PRG	Preliminary Remediation Goal
RAB	Restoration Advisory Board
RWQCB	Regional Water Quality Control Board
SARA	Federal Superfund Amendments and Reauthorization Act of 1986
STLC	soluble threshold limit concentration
TCLP	toxicity characteristic leaching procedure
TPH	total petroleum hydrocarbons
TtEMI	Tetra Tech EM Inc.
UCL	upper confidence limit
WET	waste extraction test

**TIME-CRITICAL REMOVAL ACTION FOR
ALAMEDA POINT (FORMERLY NAVAL AIR STATION ALAMEDA)
ALAMEDA, CALIFORNIA
February 5, 2004**

Response Authority: CERCLA
Site Status: NPL
Category of Removal: Time-Critical Removal Action
CERCLIS ID: CA2170023236
Site ID: Parcel 98, Building 195
Project Period: 11/12/01 – 6/7/02

Executive Summary

Alameda Point (formerly Naval Air Station Alameda) is located at the western end of Alameda Island on the eastern margin of San Francisco Bay and occupies approximately 2,634 acres (including contiguous submerged lands).

Building 195 (pesticide storage shed) was situated within a landscape maintenance yard in the south-central portion of Environmental Baseline Survey (EBS) Parcel 98 (Parcel 98). The parcel is located west of Main Street in the northeastern portion of Alameda Point. Approximately 115 buildings occupy Parcel 98, most of which were primarily used for military housing and residential maintenance operations (see Figure 1, "Site Location Map"). Building 195 served as a storage shed for fertilizers and pesticides that were applied to the housing area landscape areas.

Landscaping and lawn maintenance activities within the military family housing area used the landscape maintenance yard as a staging area. Small batches of pesticides and fertilizers were mixed on site for routine application on the facility. Application of oil for weed control and dust suppression was at one time a common practice. The oils used potentially contained polychlorinated biphenyls (PCBs), which likely explains its presence in the surface soils at this location. Additionally, lead-based paint on the exterior surface of Building 195 presented the threatened release of lead to the soil surrounding the building.

During the Phase 2A and Phase 2B EBS (1994 and 1995), surface and subsurface soil samples were collected at Parcel 98 and analyzed for constituents of potential concern based on the parcel's history of use. Results of the EBS Phase 2A analyses indicated the presence of dieldrin in two samples (at 0.75 and 0.089 milligrams per kilogram [mg/kg], respectively), exceeding its U.S. Environmental Protection Agency (EPA) Region 9 residential preliminary remediation goal (PRG) of 0.03 mg/kg.

In March 2001, the U.S. Department of the Navy discovered the paint on Building 195 was peeling over most of the structure and proceeded to collect a sample of the paint to determine whether it was lead based. Results of the analysis confirmed the presence of lead in the paint with a concentration of 87,796 mg/kg. Lead was, at this point, included in the chemicals of concern for the site.

On December 14, 2001, pre-excavation soil samples were collected to further delineate the extent of contamination. The samples were analyzed for pesticides, PCBs, and lead. Results of the analyses confirmed the presence of lead in soil with concentrations ranging from 1.7 to 1,290 mg/kg; no dieldrin or other pesticides were detected above their respective residential PRGs. However, the PCB, Aroclor 1260, was detected above its residential PRG (0.22 mg/kg) in samples collected west of the shed at concentrations ranging from 0.005 to 0.81 mg/kg.

A pre-removal risk screening analysis was conducted to evaluate the risk to human health based on the concentrations of pesticides, PCBs, and lead present in the soil. The pre-removal human health risk screening analysis, using the maximum exposure point concentrations from the pre-removal soil data, calculated an incremental lifetime cancer risk (ILCR) of 2.9E-05. The corresponding maximum pre-removal hazard index (HI) of 6.2 in soil was attributed to lead.

Prior to excavation (December 14, 2001), unfiltered Hydropunch[®] groundwater samples were collected at five locations and analyzed for pesticides, PCBs, and lead. Results indicated the presence of dieldrin and lead in all five samples; PCBs were not detected. The positive detections, however, may have been the result of the direct push method of collecting the soil samples. Based on the groundwater screening results, Tetra Tech EM, Inc. (TtEMI) installed three monitoring wells for evaluation of groundwater quality. Analytical results of groundwater samples collected from the wells on May 3, 2002 and July 25, 2002 were non-detect for pesticides and lead.

Based on the soil sampling data collected from the site, the following threat to public health and welfare, as defined in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) Sections 300.415(b)(2)i, was present at Building 195:

- **Actual or potential exposure of nearby human populations to hazardous substances, pollutants, or contaminants.** People residing, working, or playing at the site may be exposed to soil contaminated with dieldrin, Aroclor 1260, and lead through direct contact or incidental ingestion. Dieldrin, Aroclor 1260, and lead are hazardous substances known to pose a threat to human health (*Action Memorandum/Removal Action Work Plan, Time-Critical Removal Action for*

Pesticide Storage Shed and Dieldrin-Contaminated Soil at Building 195, Alameda Point (Navy, 2001).

The Navy determined that this area posed a potential threat to public health, welfare, and the environment based upon the

- Elevated concentrations of dieldrin in soils discovered during the EBS
- Lead-based paint on Building 195 and the release of lead based paint to the soil
- PCB in the soil in the vicinity of the shed
- The intended residential reuse of this property

A time-critical removal action pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 104(a) was appropriate to mitigate these threats (Navy, 2001).

Due to the small area affected at Building 195, the removal action alternative selected was soil excavation and land disposal. This alternative was recommended because it was (1) highly effective in removing the affected soil exceeding the cleanup criteria, (2) easily implementable, and (3) cost-effective (Navy, 2001). Applicable or Relevant and Appropriate Requirements attained for the Building 195 soil removal action are summarized in Table 1, "Applicable or Relevant and Appropriate Requirements for Soil Removal at Building 195."

The on-site removal action activities were conducted between November 12, 2001 and June 7, 2002. Areas where dieldrin and Aroclor 1260 were observed in concentrations exceeding their respective residential PRGs were excavated; soil with concentrations of lead exceeding 209 mg/kg (as derived using the U.S. Department of Toxic Substances Control's LeadSpread Model [Version 7]) were also excavated.

Confirmation samples collected following excavation activities indicate analyses for pesticides are non-detect; concentrations of Aroclor 1260 and lead detected are at or below their respective cleanup goals. The human health risk screening analysis using the maximum exposure point concentrations from the post-removal soil data resulted in an ILCR of 1.4E-06. The HI for lead decreased from 6.2 to 0.75 following soil removal activities. The corresponding ILCR and HI using the 95 percent upper confidence limit (UCL) on the mean exposure point concentrations are 4.6E-07 and 0.58, respectively.

Based on the results of the confirmation soil sampling and the residual risk calculated for the site, no additional soil removal with regard to pesticides, PCBs, and lead is required.

Additionally, based on the results of the representative groundwater samples collected from the monitoring wells installed by TtEMI, no action with respect to groundwater is warranted.

Section A Summary of Events

1.0 Site Conditions

This section presents the site location and description, the history of operations at the site, a summary of the field data collected for the removal action, and an evaluation of the human health risk posed by the site contaminants.

1.1 Site Location

1.1.1 Facility Location

Alameda Point (formerly Naval Air Station Alameda) is located at the western end of Alameda Island. Alameda Island is located on the eastern shore of San Francisco Bay, across the Inner Harbor from the City of Oakland. Alameda Point occupies approximately 2,634 acres (including contiguous submerged lands), and is approximately 2 miles long by 1 mile wide (see Figure 1, "Site Location Map").

1.1.2 Site Location, Area, and Structures

Environmental Baseline Survey (EBS) Parcel 98 (Parcel 98) is located west of Main Street in the northeastern portion of Alameda Point. Approximately 115 buildings are present on this parcel, most of which are housing units. The Building 195 removal area is located within the on-base housing area and approximately ½ mile west of George P. Miller Elementary School and adjacent daycare facility. The Oakland Inner Harbor is located approximately 1,500 feet north of Building 195. The Building 195 removal area is not immediately adjacent to any vulnerable or sensitive populations, habitats, or natural resources. Building 195's pesticide storage shed was located in the south-central portion of Parcel 98 near the intersection of Pensacola and Corpus Christi Roads. The building was contained within a landscape maintenance yard and served as a storage shed for fertilizers and pesticides (see Figure 2, "Parcel 98 Landscape Maintenance Area, Building 195"). The building was of quonset hut design constructed of painted corrugated steel with a composite board interior lining and an earthen floor. The building covered an area of approximately 860 square feet. The landscape maintenance yard, including Building 195, is enclosed within a chain-link fence.

1.2 Past History of Operations and Pollution-Generating Activities at the Site

Landscaping and lawn maintenance activities within the military family housing area were conducted by military and civilian personnel. Pesticides and fertilizers were stored in

Building 195 with small batches of these chemicals mixed on site for routine application on the facility. Application of oil, sometimes containing polychlorinated biphenyls (PCBs), was a common practice for dust suppression and weed control. Although no activity of this type was reported at Building 195, this practice potentially explains the presence of PCBs in the surface soils at this location. Applicable or Relevant and Appropriate Requirements (ARARs) attained for the Building 195 soil removal action are summarized in Table 1, "Applicable or Relevant and Appropriate Requirements for Soil Removal at Building 195." Records indicating the types and quantities of pesticides and fertilizers stored in Building 195 could not be located. Additionally, the presence of lead-based paint on the exterior surface of Building 195 presents the threatened release of lead to the soil surrounding the building. Except for rain, no outside influences appear to be present to accelerate the spread of dieldrin, Aroclor 1260, or lead contamination.

1.3 Summary of Pre-Removal Field Data and Risks to Human Health and/or the Environment

The determination that elevated chemical constituents are present requires their nature and extent be evaluated as well as pre-action risk be calculated prior to initiating any removal action. Planning of the removal action included the evaluation of existing EBS sample collection data, collection of pre-removal characterization samples, and an evaluation of the human health risks associated with the pre-removal condition of the site. The nature and extent of the constituents of concern and an evaluation of their corresponding human health risk is discussed below. A summary of all pre-removal sample collection data is presented on Table 2, "Sample Collection Summary, Pesticide Storage Shed, 2001-2002."

1.3.1 Nature and Extent of Contamination

To support transfer of Alameda Point to the City of Alameda for redevelopment, the Navy initiated the EBS Program in 1993 to evaluate the environmental condition of all property at the facility, which was not being investigated under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); this included Parcel 98. In 1994 and 1995, during the Phase 2A and Phase 2B EBS investigations, surface and subsurface soil samples were collected at Parcel 98 and analyzed for constituents of potential concern based on the parcel's history of use. Results of the EBS Phase 2A analyses indicated the presence of dieldrin in two samples (0.75 milligrams per kilogram (mg/kg) and 0.089 mg/kg) adjacent to Building 195. These samples exceeded the U.S. Environmental Protection Agency (EPA), Region 9 residential Preliminary Remediation Goal (PRG) of 0.03 mg/kg; the maximum concentration detected (0.75 mg/kg) was present in a soil sample collected just inside the front door of Building 195 (*Final Environmental Baseline Survey, Alameda Point*) (IT Corporation [IT], 2001a). During the

Phase 2B EBS, step-out soil samples were collected to delineate the extent of dieldrin contamination. The analyses of step-out samples were either non-detect or below the residential PRG for dieldrin, indicating the dieldrin contamination detected during the Phase 2A EBS sampling was of limited extent.

In March 2001, during a site visit to gather information for dismantling Building 195, the U.S. Department of the Navy observed the paint on the building was peeling over most of the structure and proceeded to collect a sample of the paint for analysis of lead. Results of the analysis confirmed the presence of lead in the paint with a concentration of 87,796 mg/kg. Results of the paint chip analysis are presented in Appendix A, "Analytical Results."

On December 14, 2001, pre-excavation soil samples were collected in and around Building 195 to determine the depth and extent of soil warranting removal (see Figure 3, "Pre-Excavation Soil Sampling, PCBs, Dieldrin, and Lead Detections, Parcel 98, Building 195, Pesticide Storage Shed"). Unfiltered groundwater screening samples were also collected from five Hydropunch[®] locations in the area where dieldrin was detected in the soil from previous EBS sampling. The soil and groundwater samples were analyzed for pesticides, PCBs, and lead. The purpose of the groundwater sampling was to determine if compounds detected in the soil had impacted groundwater quality.

Results of the pre-removal soil sampling revealed the presence of lead, exceeding the cleanup goal of 209 mg/kg, and Aroclor 1260, exceeding EPA residential PRG of 0.22 mg/kg; dieldrin was not detected (see Figure 3). Results of the pre-removal soil sampling are presented on Table 3, "Pre-Excavation Investigation – Detected Analytical Results." The groundwater screening samples revealed the presence of lead and dieldrin exceeding the EPA tapwater PRGs. The presence of these constituents was unconfirmed by groundwater samples collected on May 3 and July 25, 2002 from monitoring wells installed by Tetra Tech EM, Inc. (TtEMI) on May 3, 2002. The concentrations detected in the screening samples were from unfiltered groundwater samples, collected via Hydropunch[®], indicating potential false positive results and, therefore, not representative of actual groundwater quality conditions. Groundwater screening results are presented on Table 3. Analytical results are presented in Appendix A.

Based on the sampling outlined above, it was determined that selected areas within the Building 195 area exceeded established criteria (or PRGs) and that a soil removal action was required.

1.3.2 Pre-Removal Human Health Risk Assessment Summary

Evaluation of pre-removal human health risk requires the determination of land reuse, exposure pathways, and calculation of corresponding risk and hazard indices.

Parcel 98 is designated for future use as residential housing. Potential exposure pathways for lead, dieldrin, and Aroclor 1260 include direct ingestion, inhalation, and dermal contact. The results of the EBS Phase 2A analyses indicated the presence of dieldrin in two samples (0.75 mg/kg and 0.089 mg/kg) exceeding the EPA residential PRG of 0.03 mg/kg. The cleanup goal of 0.03 mg/kg for dieldrin corresponds to a carcinogenic risk of 1.0E-06. Although dieldrin was not detected in the pre-removal soil sampling, the previous EBS results were included in the pre-removal risk assessment. Results of the pre-removal soil sampling revealed the presence of Aroclor 1260 ranging in concentration from 0.005 mg/kg to 0.81 mg/kg; exceeding its EPA residential PRG of 0.22 mg/kg. The cleanup goal of 0.22 mg/kg for Aroclor 1260 corresponds to a carcinogenic risk of 1.0E-06. Based on the EBS and pre-removal soil sampling data collected, a human health risk screening analysis was conducted to evaluate the human health risks associated with the concentrations of pesticides and PCBs. The incremental lifetime cancer risk (ILCR) using maximum exposure point concentrations resulted in a risk of 2.9E-05. Using the 95 percent upper confidence limit (UCL) of the mean exposure point concentrations, the resultant ILCR was 2.4E-06. Details of the pre-removal risk assessment are presented in Appendix B, "Pre- and Post-Removal Risk Assessments."

The results of the analysis of the paint chip sample collected from the shed exterior revealed a lead concentration of 87,796 mg/kg. Due to the observed presence of lead based paint, the pre-removal soil sampling included the analysis for lead; lead was detected in soil at concentrations ranging from 1.7 to 1,290 mg/kg. Blood-lead concentrations are an integrated measure of an internal dose that reflects exposure from site-related and background sources; the lead concentration of concern in children and adults is 10 micrograms per deciliter ($\mu\text{g/dL}$) of whole blood. The EPA and California Environmental Protection Agency (Cal/EPA) points of departure for risk management are 0.05 (95th percentile) and 0.01 (99th percentile) risk, respectively, of exceeding this value. The cleanup goal of 209 mg/kg for lead, as calculated using Department of Toxic Substances Control's (DTSC's) LeadSpread Model (Version 7) inclusive of the produce ingestion pathway, corresponds to the more conservative concentration for children in the 99th percentile. Based on the pre-removal soil sample data collected for lead, the corresponding hazard index (HI) utilizing the maximum exposure point concentration was 6.2. The corresponding HI using the 95 percent UCL of the mean exposure point concentrations was 1.0. Details are presented in Appendix B.

Due to the human health risk screening results using both the maximum and mean exposure point concentrations, the removal of soil from locations adjacent to Building 195 was warranted.

1.3.3 Environmental Risk Summary

Based on the nature of operation in the landscape maintenance yard and the lack of undisturbed habitat in this area, the dieldrin, Aroclor 1260, and lead present in the soil did not appear to pose an unacceptable ecological risk to sensitive receptors. Therefore, a quantitative ecological risk assessment was not conducted for this site.

2.0 Organization of the Removal Action

This section presents the points of contact for the removal action, ARARs attained during the removal, the objective of the removal action, and the remedial alternative selected.

2.1 Points of Contact

Following is a list of the key contacts for those parties involved in the time-critical removal action at the Building 195 pesticide shed and soil removal area.

Organization	Contact	Responsibility
U.S. Navy Naval Facilities Engineering Command Engineering Field Division Southwest 1230 Columbia Street San Diego, California 92101	Andrew Dick (619) 532-0954	Project Manager
U.S. Environmental Protection Agency Region 9 75 Hawthorne Street San Francisco, California 94105	Anna-Marie Cook (415) 972-3029	Project Manager
Department of Toxic Substances Control 700 Heinz Avenue, Suite 200 Berkeley, California 94710	Marcia Liao (510) 540-3767	Project Manager
Caretaker Site Office Alameda Point 410 Palm Ave., Building 1, Suite 161 San Francisco, California 94130-1806	Doug DeLong (510) 749-5961	Environmental Compliance Manager
ROICC Alameda Point 2450 Saratoga Street Alameda, California 94501	Shirley Ng (510) 749-5939	ROICC
Shaw Environmental, Inc. 1326 N. Market Blvd. Sacramento, California 95834	Daniel Shafer (916) 565-4328	Project Manager
Shaw Environmental, Inc. 4005 Port Chicago Highway Concord, California 94520	Tim Ault (925) 288-2011	Technical Manager
Shaw Environmental, Inc. 4005 Port Chicago Highway Concord, California 94520	Chuck Holman (925) 288-2155	Quality Control Manager
City of Alameda 950 W. Mall Square, Suite 100 Alameda, California 94501	Mike Hampen (510) 749-5908	Assistant Leasing & Property Manager
City of Alameda 950 W. Mall Square, Suite 150 Alameda, California 94501	Captain Kenneth Rankin (510) 749-5885	Assistant Fire Marshall

CSO denotes Caretaker Site Office.

ROICC denotes Resident Officer in Charge of Construction.

2.2 Significant ARARs

The Federal Superfund Amendments and Reauthorization Act of 1986 (SARA) requires consideration of ARARs for removal actions at a site. Applicable requirements are promulgated federal or state standards that specifically address a hazardous constituent, removal action, location, or other conditions at a site. Relevant and appropriate requirements are promulgated federal or state requirements that address problems or situations sufficiently similar to those encountered at a hazardous waste site; these requirements may or may not be directly related to the circumstances at a CERCLA site. Applicable or Relevant and Appropriate Requirements considered and attained for the Building 195 soil removal action are summarized in Table 1.

2.3 Objectives of the Removal Action

During Phase 2 EBS activities, dieldrin was detected in the soil in and around Building 195 in the landscape maintenance yard on Parcel 98. The concentrations detected exceeded the EPA residential PRG of 0.03 mg/kg. While collecting information for the removal of the pesticide storage shed at this location, it was observed that the interior and exterior shell of the shed was painted with lead-based paint that was peeling in several areas. Concern was raised as to whether any paint had flaked off the shed and contaminated the surrounding soil with lead. Additionally, based on EPA concerns that oil may have been used in and around the shed for dust suppression/weed control, the Navy included analysis for PCBs.

Based on the above discovery the Navy decided, with regulatory concurrence, to conduct a time-critical removal action to remove the shed and excavate contaminated soil to a level protective of human health.

The objectives of the removal action were to:

- Remove loose and peeling paint from the interior and exterior shell of the shed
- Dismantle and dispose of the shed
- Collect pre-removal soil samples to delineate the extent of dieldrin, lead, and PCB (Aroclor 1260) contamination above the cleanup criteria (0.03 mg/kg for dieldrin; 209 mg/kg for lead; 0.22 mg/kg for Aroclor 1260)
- Excavate and remove impacted soil
- Backfill excavation with clean fill

Completion of these objectives would render this the final remedy, whereby any dieldrin, Aroclor 1260, and/or lead left in the soil would be at concentrations that do not pose an unacceptable human health risk to adults and children.

2.4 Selected Remedial Technology

Based on the small area affected at Building 195, the removal action alternative selected was soil excavation and land disposal. This alternative was selected because it was (1) highly effective in removing the affected soil exceeding the cleanup criteria, (2) easily implementable, and (3) cost-effective (*Action Memorandum/Removal Action Work Plan, Time-Critical Removal Action for Pesticide Storage Shed and Dieldrin-Contaminated Soil at Building 195, Alameda Point*) (Navy, 2001).

Alternatives to excavation and land disposal, including application of a surface cap and stabilization of the contaminated soil, were considered but quickly dismissed due to the small area affected and the future residential reuse of the area.

2.5 Notice to Natural Resource Trustees

No natural resources were present at the Building 195 removal area; therefore, a notice to natural resource trustees informing them of the removal action was not necessary to be filed.

3.0 Chronology of the Removal Action

This section presents the main phases of work leading to the removal action and a chronology of the actual work performed on site.

3.1 Main Phases Leading to Removal Action

A summary of events leading up to the removal action is provided below.

November 16, 1994 – Soil samples were collected on Parcel 98 during the Phase 2A EBS. Two of the samples collected contained dieldrin at concentrations of 0.75 mg/kg and 0.089 mg/kg; exceeding the 1996 EPA residential PRG of 0.028 mg/kg.

October 19, 1995 – Twelve soil samples were collected for analysis during the Phase 2B EBS investigation with no observed exceedances of the PRGs.

February 13, 1998 – EPA issued a letter to the Navy requesting the pesticide storage shed be removed.

March 23, 2001 – During an information-gathering visit to plan the removal of the dieldrin-contaminated soil, peeling paint on the pesticide storage shed was observed. A sample was collected and analyzed for lead. Results indicated a lead concentration of 87,796 mg/kg.

April 17, 2001 – Results of the dieldrin and lead analyses were discussed among the Base Realignment and Closure (BRAC) Cleanup Team (BCT), consisting of representatives from the Navy, EPA, DTSC, and Regional Water Quality Control Board (RWQCB). The Navy decided, with regulatory concurrence, to conduct the removal at this location as a time-critical removal action under CERCLA.

May 15, 2001 – The BCT requested the Navy use DTSC's LeadSpread model to calculate a cleanup goal for lead, ensuring the produce ingestion pathway is included in the evaluation.

May 24, 2001 – Funding was provided by the Navy for the removal action.

June 19, 2001 – The BCT discussed and agreed to cleanup goals for the removal action (0.03 mg/kg for dieldrin; 209 mg/kg for lead; 0.22 mg/kg for Aroclor 1260).

September 4, 2001 – The Navy presented the current information associated with the Building 195 removal area and its approach to conducting the time-critical removal action to the Alameda Point Restoration Advisory Board (RAB).

October 3, 2001 – The Navy submitted the Action Memorandum and Draft Project Plans for review and comment to EPA, DTSC, RWQCB, and the RAB co-chair.

October 18, 2001 – The Navy received verbal approval of the Action Memorandum and Draft Project Plans from EPA; no comments were received from DTSC, RWQCB, or the RAB. The *Final Project Plans* (IT, 2001b) were submitted to all parties on October 25, 2001.

October 24, 2001 – On-site removal activities commenced with the clearing of landscape debris within the maintenance yard.

December 18, 2001 – Public notice published in the Alameda Times Star, Alameda Journal, and Oakland Tribune notifying the public of the availability of the action memorandum for review and comment.

January 18, 2002 – Close of public comment period on the action memorandum; no comments received by the Navy.

3.2 Actual Work Performed

The execution of the removal action was carried out in several steps as discussed below.

3.2.1 Clearing and Grubbing

On October 24, 2001, landscape debris, including grass clippings, leaves, tree and shrub branches, and wood, was cleared from the area around the shed and pushed into a pile. A five-point composite sample of the material was collected for lead analysis to determine if any lead-contaminated soil was mixed in with the landscape debris. Results indicated a total lead concentration of 56.5 mg/kg—well below the concentration to be considered a hazardous waste of 1,000 mg/kg—thus supporting municipal waste disposal. Analytical results are presented in Appendix A.

3.2.2 Underground Utility Clearance

On November 6, 2001, an underground utility clearance survey was conducted in and around the planned removal area to identify any underground gas, water, electric, and phone lines.

3.2.3 Preparation of Lead Abatement Plan

On November 20, 2001, prior to demolition of the shed, a lead abatement plan was prepared by Asbestos Management Group of California, Inc., subcontractor to Shaw Environmental, Inc., identifying the measures to be taken to strip loose and peeling lead based paint from the interior shell and exterior surface of the shed. A copy of the lead abatement plan is included in Appendix C, "Lead Abatement Plan."

3.2.4 Interior Shell Removal

On November 12, 2001, the interior shell (wood framing and composite board) was removed from the shed. The unpaved floor of the shed was covered with plastic. All visible loose and peeling paint was then scraped from the interior surfaces of the shed and allowed to drop onto the plastic. The interior shell was then disassembled and laid onto the plastic. Once the interior lining was removed, the debris was contained within the plastic and stored in a covered roll-off bin for disposal.

3.2.5 Lead-Based Paint Removal

On November 26 and 27, 2001, the ground surface inside the shed and around the exterior perimeter was covered with plastic. All visible loose and peeling paint was then scraped from the interior and exterior surfaces of the shed and allowed to drop onto the plastic. When all visible loose and peeling paint was removed, the debris was contained within the plastic and stored in 55-gallon drums for disposal.

3.2.6 Shed Demolition

On November 28, 2001, the corrugated metal shed structure was crushed flat on site and folded over onto itself. The crushed shed was then loaded into a covered roll-off bin, which was moved at the Navy's direction to the runway area west of Hangar 23 behind a locked and secured fence line pending transportation and disposal. The bin and shed were transported to Forward Landfill for disposal on February 7, 2002.

3.2.7 Soil and Groundwater Sampling and Analysis

On December 14, 2001, pre-removal soil samples were collected in and around the proposed soil removal area and analyzed for pesticides, PCBs, and lead (EPA Methods 8081A, 8082, and 6010B) to determine the depth and extent of soil warranting removal. Results of the analyses confirmed the presence of lead in soil with concentrations ranging from 1.7 mg/kg to 1,290 mg/kg; exceeding its cleanup goal of 209 mg/kg adjacent to the building. Aroclor 1260 was detected in samples collected west of the shed at concentrations ranging from 0.005 to 0.81 mg/kg; exceeding the EPA residential PRG of 0.22 mg/kg. Dieldrin was not detected. Pre-removal soil sampling locations

and results are presented on Figure 3. Results of the pre-removal soil sampling are presented on Table 3. Analytical results are presented in Appendix A.

Unfiltered groundwater screening samples were collected from five Hydropunch[®] locations in the area where dieldrin was detected in the soil from previous EBS sampling. The groundwater screening samples were analyzed for pesticides, PCBs, and lead using EPA Methods 8081A, 8082, and 6010B, respectively. The purpose of the groundwater sampling was to determine if compounds detected in the soil had impacted groundwater quality. Results of the groundwater screening samples revealed the presence of lead and dieldrin exceeding the EPA tapwater PRGs. However, since the Hydropunch groundwater samples were unfiltered, the detections of lead and dieldrin could be attributed to actual suspended solids in the water samples collected. The presence of these constituents was unconfirmed by groundwater samples collected on May 3, 2002 and July 25, 2002 from monitoring wells installed and developed in the soil removal area by TtEMI. Therefore, the concentrations detected in the screening samples are not representative of actual groundwater quality conditions. Pre-removal groundwater sampling locations are presented on Figure 3. Groundwater results are presented on Table 3.

3.2.8 Excavation of Impacted Soil

On February 7 and 8, 2002, an area measuring approximately 48 feet long by 30 feet wide by 2 feet deep (approximately 107 cubic yards) was excavated west of the footprint of the pesticide shed to target removal of dieldrin-, lead-, and Aroclor 1260-contaminated soil. Additionally, a 6-foot-wide strip along the north, east, and south sides of the former shed was excavated to a depth of 1-foot below ground surface (approximately 21 cubic yards) to target removal of lead contaminated soil around the drip line of the shed. The excavation depth of 1-foot around the shed was determined adequate to address shallow soil contamination associated with lead-based paint chips. The 2-foot depth excavation was based on analytical results of dieldrin and Aroclor 1260 from the pre-removal sampling. Soil that was excavated was immediately placed in covered roll-off bins, which were stored on the runway area west of Hangar 23 pending investigation-derived waste analytical results. At one point during excavation activities, soil was inadvertently placed on uncovered, uncontaminated ground adjacent to the excavations while waiting for bins to be delivered. As a precaution, upon delivery of the bins, approximately 6 inches of soil beneath the temporary stockpiles was excavated and placed in the bins. Five 4-point composite soil samples were collected from the stockpile area for chemical analysis along with composite soil confirmation samples collected from the two excavations. Confirmation and stockpile samples were collected on February 13 and 21, 2002. The samples collected were analyzed for pesticides, PCBs, and lead (EPA Methods 8081A, 8082, and 6010B).

Locations of the excavated areas and confirmation samples are presented on Figure 4, "First Excavation Sampling and Criteria Exceedance, Parcel 98, Building 195, Pesticide Storage Shed."

Results of the excavation confirmatory sampling revealed the presence of dieldrin exceeding its residential PRG along the west and east walls of the pesticide excavation. The individual subcomposite samples were subsequently analyzed to determine the location of the elevated dieldrin concentrations. Results of the analyses indicated PRG exceedances for dieldrin along the entire length of the west wall and along the southeast portion of the east wall. Additionally, Aroclor 1260 was detected exceeding its residential PRG beneath two of the five areas where excavated soil was inadvertently placed (Section 3.2.9). The Aroclor 1260 concentrations detected, however, are not believed to indicate cross contamination but, rather, areas that were missed during characterization sampling. Lead was not detected exceeding its cleanup goal in the confirmation soil samples. Results of the confirmation sampling are presented on Table 4, "First Excavation Confirmatory Sampling – Detected Analytical Results." Analytical results are presented in Appendix A.

On March 27, 2002, based on the confirmation sample results, an area measuring approximately 48 feet long by 5 feet wide by 2 feet deep (approximately 18 cubic yards) was excavated along the west side of the original excavation where elevated concentrations of dieldrin were detected in confirmation samples. Additionally, an area measuring 48 feet long by 16 feet wide by 2 feet deep (approximately 57 cubic yards) was excavated along the eastern side of the original pesticide excavation where elevated concentrations of dieldrin and Aroclor 1260 were detected in confirmation samples. Soil that was excavated was immediately placed in covered roll-off bins, which were stored on the runway area west of Hangar 23 pending investigation-derived waste analytical results. On March 28, 2002, upon completion of the second round of soil removal activities, confirmation soil samples were collected from the newly excavated areas and analyzed for pesticides, PCBs, and lead. Results of the analyses indicated the soil with concentrations of dieldrin, Aroclor 1260, and lead exceeding the cleanup criteria had been removed. Locations of the newly excavated areas and confirmation samples are presented on Figure 5, "Second Excavation Confirmatory and Groundwater Sample Locations." Results of the confirmation samples analyses are presented in Table 5, "Second Excavation Confirmatory Sampling – Detected Analytical Results." Analytical results are presented in Appendix A.

3.2.9 Soil Stockpiling, Sampling, and Analysis

During the removal action, soil from the excavations was stockpiled at locations adjacent to the excavated areas and was subsequently loaded into soil bins for transport. After the removal of the excavated soil, an additional 6 inches of native topsoil was removed and composite samples

were collected to verify the removal of any potential constituents of concern. Additional soil below the stockpile areas was excavated based on the results of the sampling.

Three areas were used for stockpiling soil during the excavation: (1) the footprint area of the former Building 195, (2) an area north of the shallow (1-foot) excavation, and (3) an area north of the deeper (2-foot) excavation (see Figure 4). Five composite samples (098-0094 through 098-0099) were collected from the ground surface at these three locations on February 13, 2002 and were analyzed for pesticides, PCBs, and lead. Two of the samples (098-0094 and 098-0097) contained elevated concentrations of PCBs (see Figure 4).

The areas from which samples 098-0094 and 098-0097 were collected were adjacent to the eastern sidewall of the deeper (2-foot) excavation. Elevated dieldrin was detected in confirmatory samples from this eastern sidewall in the first excavation. The material from the sidewall and within the area of these two composite samples (098-0094 and 098-0097) was excavated during the second phase of excavation. Confirmatory samples 098-0102 through 098-0104 were collected to verify the removal of all elevated levels of lead, pesticides, and PCBs (see Figure 5). No elevated levels were detected and preparations for backfilling were initiated. Analytical results are presented in Appendix A.

3.2.10 Field Sampling Methods and Procedures

This section briefly describes the field methods and sampling procedures conducted during the removal action activities. In general, all field sampling methods and procedures discussed in the project plans were observed during field implementation.

3.2.10.1 Sample Containers

All pre- and post-removal soil samples collected for analysis of pesticides, PCBs, and lead were collected in 8-ounce glass jars with Teflon™-lined lids. The pre-removal screening Hydropunch® groundwater samples were collected in 1-liter amber bottles with Teflon™-lined caps for analysis of pesticides and PCBs; the groundwater samples collected for lead analysis were collected in 500 milliliter (mL) high-density polyethylene (HDPE).

3.2.10.2 Sample Preservation

Following collection, all soil and groundwater samples collected for analysis of pesticides, PCBs, and lead (soil) were placed in shipping coolers and kept cool with ice at 4±2 degrees Celsius for shipment to the laboratory for analysis. The pH of groundwater samples collected for analysis of lead was adjusted to less than 2 with nitric acid (HNO₃) and kept at room temperature for shipment to the laboratory.

3.2.10.3 Sample Packaging and Shipment

The shipping of samples to the analytical laboratory by land delivery services was performed according to the U.S. Department of Transportation (DOT) regulations. The International Air Transportation Association regulations were adhered to when shipping samples by air courier services. Packaging of sample containers was based on the level of protection that samples required during handling, shipping, and storage. Proper packaging was based on the following considerations:

1. Type and composition of inner packaging (e.g., plastic bags, metal cans, absorbent packing material, and ice for preservation)
2. Type and composition of overpacks (e.g., metal or plastic coolers, cardboard box, rock core box, and undisturbed tube rack)
3. Method of overpack sealing (e.g., strapping tape, custody seals)
4. Marking and labeling overpacks (e.g., laboratory address, any appropriate DOT Hazard Class Labels, and handling instructions)

Immediately after sample collection, sample labels were affixed to each sample container. Each sample label was covered with clear tape and placed in a resealable plastic bag to keep the sample container and label dry. All glass sample containers were protected with bubble wrap. A temperature blank was placed in every cooler with samples.

Samples shipped by commercial carrier were packed in a sample cooler. Ice, double bagged in resealing bags, was added to the cooler in sufficient quantity to keep the samples cooled to 4 ± 2 degrees Celsius for the duration of the shipment to the laboratory. Sample cooler drain spouts were taped from the inside and outside of the cooler to prevent any leakage.

The chain-of-custody (COC) forms used for sample shipment via commercial carrier included the airbill number and were sealed in a resealable bag. The COC form was then taped to the inside of the sample cooler lid. The cooler was taped shut with strapping tape, and two custody seals were taped across the cooler lid: one seal in the front and one seal in the back. Clear tape was applied to the custody seals to prevent accidental breakage during shipping. The samples were then shipped to the analytical laboratory. A copy of the courier airbill was retained for documentation.

3.2.11 Backfilling

On May 22, 2002, the excavated area was backfilled with 337 tons of a clay-silt-gravel mix of structural backfill material provided by Dumbarton Quarry's Curtner Quarry located in

Milpitas, California. Prior to its use, a sample of the material was collected on May 7, 2002 for analysis of pH; metals; total petroleum hydrocarbons (TPH) as gasoline, diesel fuel, and motor oil; semivolatile organic compounds; pesticides; PCBs; and polynuclear aromatic hydrocarbons. Results of the analyses were either non-detect, below residential PRGs, or, in the case of metals, below Alameda Point background values. The results were discussed with EPA and DTSC representatives who verbally approved the material for use as backfill. A copy of the analytical results for the backfill material is presented in Appendix A. The backfill material was wheel-rolled for compaction and brought to an elevation to match the existing grade of the landscape maintenance yard.

3.2.12 Waste Classification and Disposal

Several waste streams, including vegetative debris, shed construction material, paint chips, and soil, were generated due to the removal action. Copies of all waste profile analyses are presented in Appendix A. Copies of all waste shipping and disposal manifests are presented in Appendix D, "Waste Shipping Manifests."

3.2.12.1 Landscape Debris

Since the total concentration of lead detected (i.e., 56.5 mg/kg) exceeded 10 times the soluble threshold limit concentration (STLC) (50 milligrams per liter [mg/L]) and 10 times the toxicity characteristic leaching procedure (TCLP) concentration (50 mg/L) to potentially be considered hazardous when soluble, a waste extraction test (WET) was performed to determine the actual STLC and TCLP concentrations for proper waste disposal requirements. Results of the analysis indicated STLC and TCLP concentrations of 1.22 mg/L and 0.0576 mg/L, respectively, which supported municipal waste disposal. A total of 162 cubic yards was transported to Altamont Landfill for disposal on February 20 and 21, 2002.

3.2.12.2 Interior Shell

A sample of the composite board interior lining was collected on November 20, 2001 for analysis of lead. Results of the analysis indicated a total lead concentration of 714 mg/kg; follow-up WET analysis resulted in an STLC concentration of 19.6 mg/L and a TCLP concentration of 0.682 mg/L, which, in turn, resulted in transportation and disposal of the interior lining as non-regulated, non-hazardous municipal Class 3 waste to Waste Management.

3.2.12.3 Lead-Based Paint

The paint chips were transported and disposed as hazardous waste to Chemical Waste Management (Kettleman Hills Facility) on July 1, 2002.

3.2.12.4 Shed

The corrugated metal shed was loaded into a covered roll-off bin upon demolition and transported to Forward Landfill for disposal on February 7, 2002. Forward Landfill is a Class II CERCLA subpart D-approved facility.

3.2.12.5 Soil

All soil excavated from the removal area (approximately 203 cubic yards) was profiled for proper disposal by collecting two 4-point composite samples for analysis of metals, pesticides, and PCBs using EPA Test Methods 6010B, 8081A, and 8082. Results of the analyses indicated pesticides and PCBs to be either non-detect or at concentrations below their respective EPA residential PRGs. Lead and chromium were detected in one sample at concentrations of 203 and 60.6 mg/kg, respectively. Although below their respective total threshold limit concentrations, they exceeded ten times their respective STLC values. Based on the total concentrations of lead and chromium detected, TCLP and STLC analyses were performed. Results of the TCLP and STLC analyses were below regulatory limits supporting disposal as non-hazardous waste. The soil was transported to Altamont Landfill on March 27 through 29, 2002 and April 10, 2002 for disposal.

3.2.12.6 Used Personal Protective Equipment

All personal protective equipment, including Tyvek™ suits, rubber gloves, and respirator cartridges, was transported, with the lead-based paint chips, to Chemical Waste Management (Kettleman Hills Facility) on July 1, 2002 and disposed as hazardous waste.

3.2.13 Site Restoration

On May 22, 2002, the fence along the southern boundary of the landscape maintenance yard was re-installed. Additionally, on June 6 and 7, 2002, the green area across the street from the entrance to the landscape maintenance yard was repaired with sod due to some damage sustained during delivery of the backfill material.

3.2.14 Field Changes and Variances

During the course of the removal action, the volume of soil removed increased from the original estimate and some activities were conducted that were not specifically part of the Work Plan. Specifically, based on the EBS soil sampling data collected and the potential for the soil around the drip line of the shed to be contaminated with lead, the original volume of contaminated soil to be removed was estimated to be approximately 64 cubic yards. However, based on the results of the pre-removal soil sampling activities and subsequent confirmation sampling, the final

volume of soil removed totaled approximately 203 cubic yards, which included the areas impacted with dieldrin, Aroclor 1260, and lead:

- At the Navy's direction, only backfill which yielded analytical concentrations commensurate with residential use and approved by EPA and DTSC was allowed to be used for backfill.
- The green area across the street from the entrance to the landscape maintenance yard was repaired with sod after sustaining some minor damage from the trucks delivering backfill material.

4.0 Photo Log

Photos depicting the various activities associated with the removal action are presented in Appendix E, "Photo Log."

5.0 Costs of the Removal Action

Approximate costs associated with the removal action are broken down as follows:

Planning documentation.....	\$ 25,600.00
Lead-based paint removal.....	7,600.00
Shed demolition	2,400.00
Investigation.....	19,600.00
Excavation.....	26,900.00
Transportation/Disposal.....	37,000.00
Lab analysis	10,500.00
Backfill/Site Restoration.....	3,900.00
Reporting.....	<u>12,900.00</u>
Removal Action Total:.....	\$ 146,400.00

6.0 Public Information/Community Relations Activities

A detailed description of the time-critical removal action was presented to the Alameda Point RAB on September 4, 2001. The Navy circulated the Action Memorandum and Administrative Record for public comment on December 18, 2001, within 60 days following initiation of site activities. The public comment period for the Action Memorandum and Administrative Record continued for 30 days until January 18, 2002; no public comments were received.

Section B Effectiveness of the Removal Action

7.0 Results of the Confirmatory Sampling after the Removal Action

As discussed in Section 3.2.8, results of confirmation soil samples collected on February 13 and March 28, 2002 identified that soil impacted with dieldrin, Aroclor 1260, and lead exceeding the established cleanup criteria had been successfully removed. Results of confirmation analyses were either non-detect for the constituents analyzed, or below the established clean-up goals. Additionally, based on the preliminary Hydropunch[®] groundwater screening sampling results, the Navy contracted TtEMI to install three groundwater monitoring wells in and around the soil removal area. Groundwater samples were collected on May 3, 2002 and July 25, 2002 for analysis of pesticides and lead. Results for all constituents analyzed were non-detect indicating the groundwater beneath the removal area had not been impacted from pre-removal site activities. Locations of the monitoring wells are presented on Figure 5. Results of the groundwater analyses from the wells are presented in Table 6, "Groundwater Analytical Results – Tetra Tech EM, Inc., July 2002." The results of the post-removal human health risk screening are presented in Section 8.0.

8.0 Summary of Residual Risk Calculations

This section presents the results of the human health screening risk analysis for the Building 195 area. Table 5-1 in Appendix B summarizes the chemicals of potential concern (COPCs) ILCR and hazard quotient (HQ), based on comparing the maximum exposure point concentrations with the residential PRG for both the pre- and post-removal analytical surface soil results. Table 5-2 in Appendix B summarizes the COPC ILCR and HQ, based on comparing the 95 percent UCL exposure point concentrations with the residential PRG for both the pre- and post-removal analytical surface soil results. Cumulative ILCR and HI are also summarized in both Tables 5-1 and 5-2.

Using the maximum exposure point concentration, the pre-removal cumulative ILCR was $2.9E-05$, with Aroclor 1260 and dieldrin contributing most of the risk, and the HI was 6.2 due to lead. The post-removal cumulative ILCR is $1.4E-06$, with Aroclor 1260 (from sample 098-0095) contributing most of the risk due to its post-removal sample concentration of 0.22 mg/kg (equivalent to residential PRG). The post-removal HI is 0.75 based on residual lead in the soil.

Using the 95 percent UCL exposure point concentration, the pre-removal cumulative ILCR was only slightly greater than $1.0E-06$ ($2.4E-06$) with only Aroclor 1260 exceeding $1.0E-06$. The pre-removal HI was 1.0 due to lead. The post-removal cumulative ILCR is $4.6E-07$, and the post-removal HI is 0.58 due to residual lead in the soil.

In summary, there was a reduction in risk due to the removal actions that took place at the Building 195 removal area. None of the COPCs were detected above any of the EPA residential PRGs. Therefore, the Building 195 area is below acceptable risk levels for residential receptors, and no further action is warranted. Details of the pre- and post-removal risk assessments are presented in Appendix B.

Section C Recommendations

9.0 Recommendations

Based on the results of the confirmation soil sampling and the residual risk calculated for the site, no additional soil removal with regard to pesticides, PCBs, and lead is required.

Additionally, based on groundwater results from the wells installed by TtEMI, no action is recommended to further address groundwater quality.

Section D .References

10.0 References

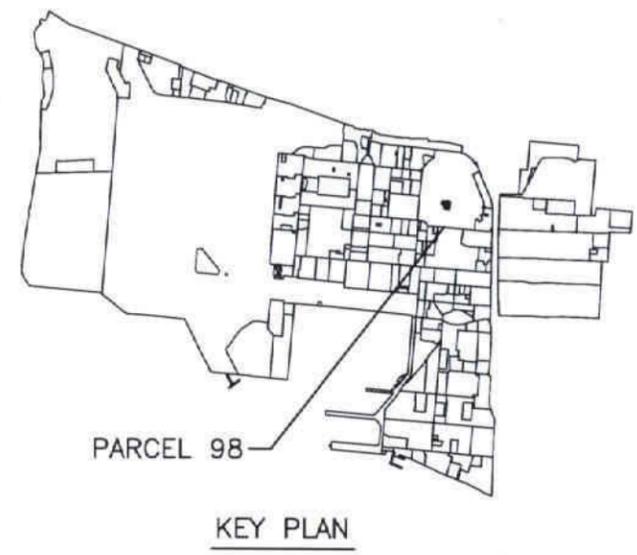
IT Corporation, 2001a, *Final Environmental Baseline Survey, Alameda Point*, June 29.

IT Corporation, 2001b, *Final Project Plans, Building 195 Pesticide Shed Demolition and Soil Removal*, Alameda Point. October 18.

U.S. Department of the Navy, 2001, *Action Memorandum/Removal Action Work Plan, Time-Critical Removal Action for Pesticide Storage Shed and Dieldrin-Contaminated Soil at Building 195, Alameda Point*. October 3.

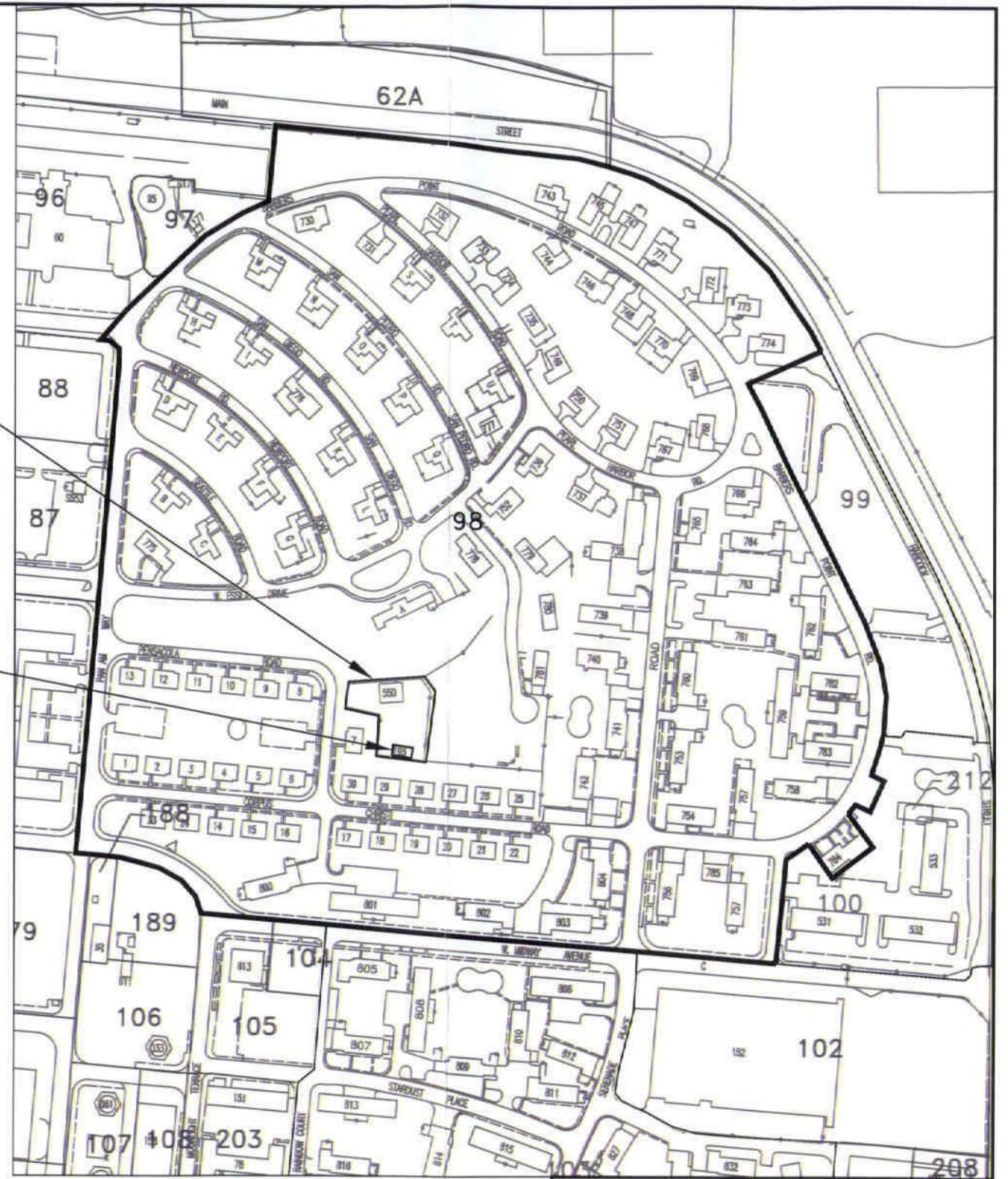
FIGURES

IMAGE X-REF ALA1BASE OFFICE CONCORD DRAWN BY BU 7-10-03 CHECKED BY TA 7-14-03 APPROVED BY DS 7-10-03 DRAWING NUMBER 807181-B107



REMOVAL ACTION SITE
LANDSCAPE MAINTENANCE AREA

BUILDING 195



LEGEND

- 98 PARCEL NAME
- PARCEL BOUNDARY

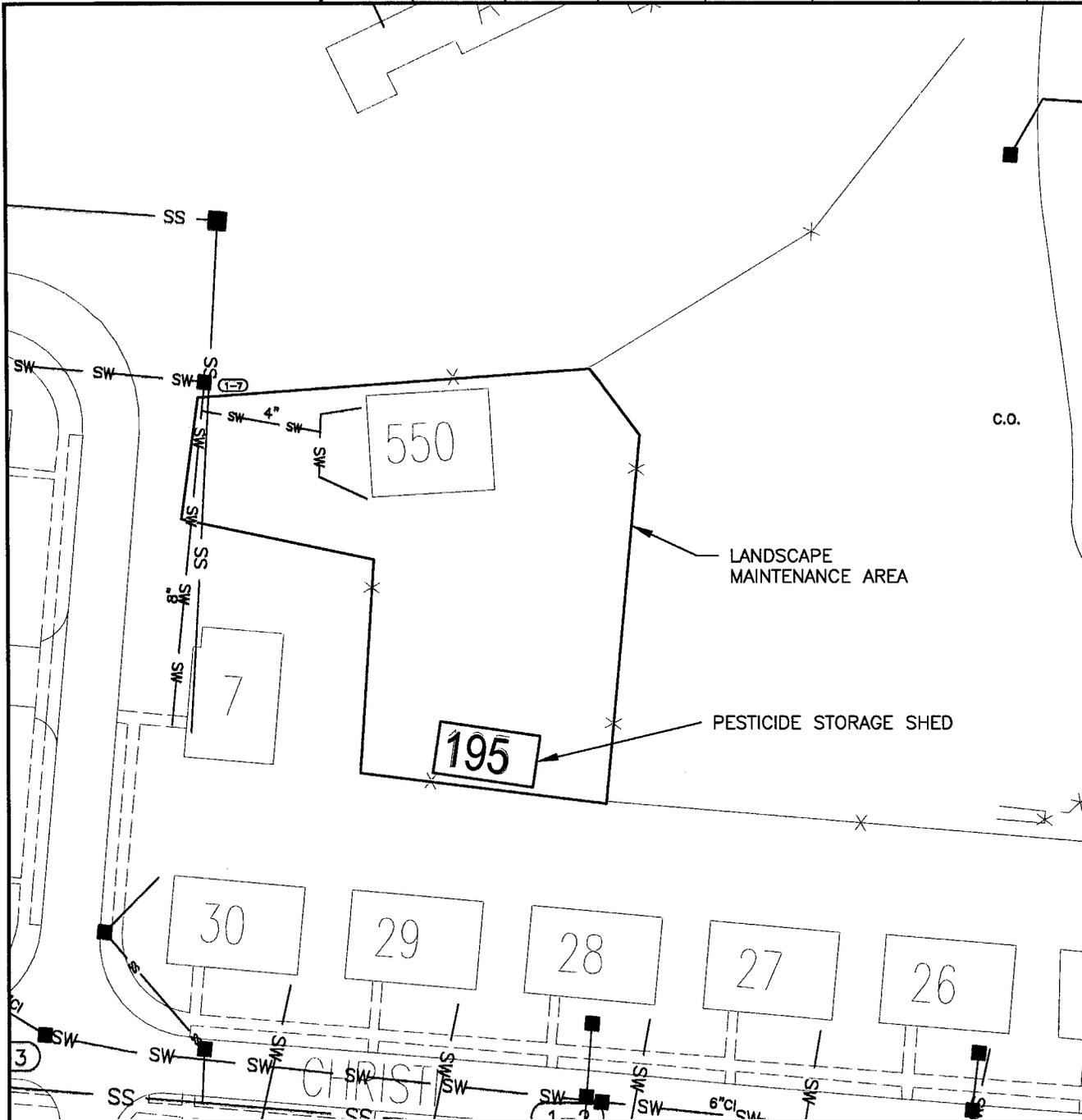


 **Shaw** Shaw Environmental, Inc.

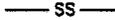
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHWEST DIVISION
SAN DIEGO, CALIFORNIA

FIGURE 1
SITE LOCATION MAP
ALAMEDA POINT
ALAMEDA, CALIFORNIA

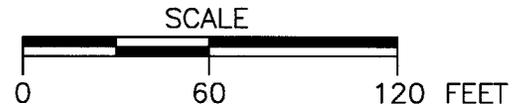
IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
---	ALA1BASE	Concord	BJ	7-14-03	TA	7-14-03	DS	7-14-03	807181-A75



LEGEND

-  SANITARY SEWER MANHOLE NO.
-  SANITARY SEWER LINE
-  STORM DRAIN MANHOLE & NO.
-  CATCH BASIN
-  STORM SEWER LINE

1. ALL SANITARY SEWERS ARE VITRIFIED CLAY PIPE UNLESS NOTED OTHERWISE.

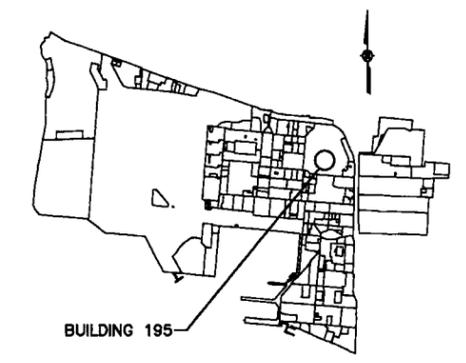
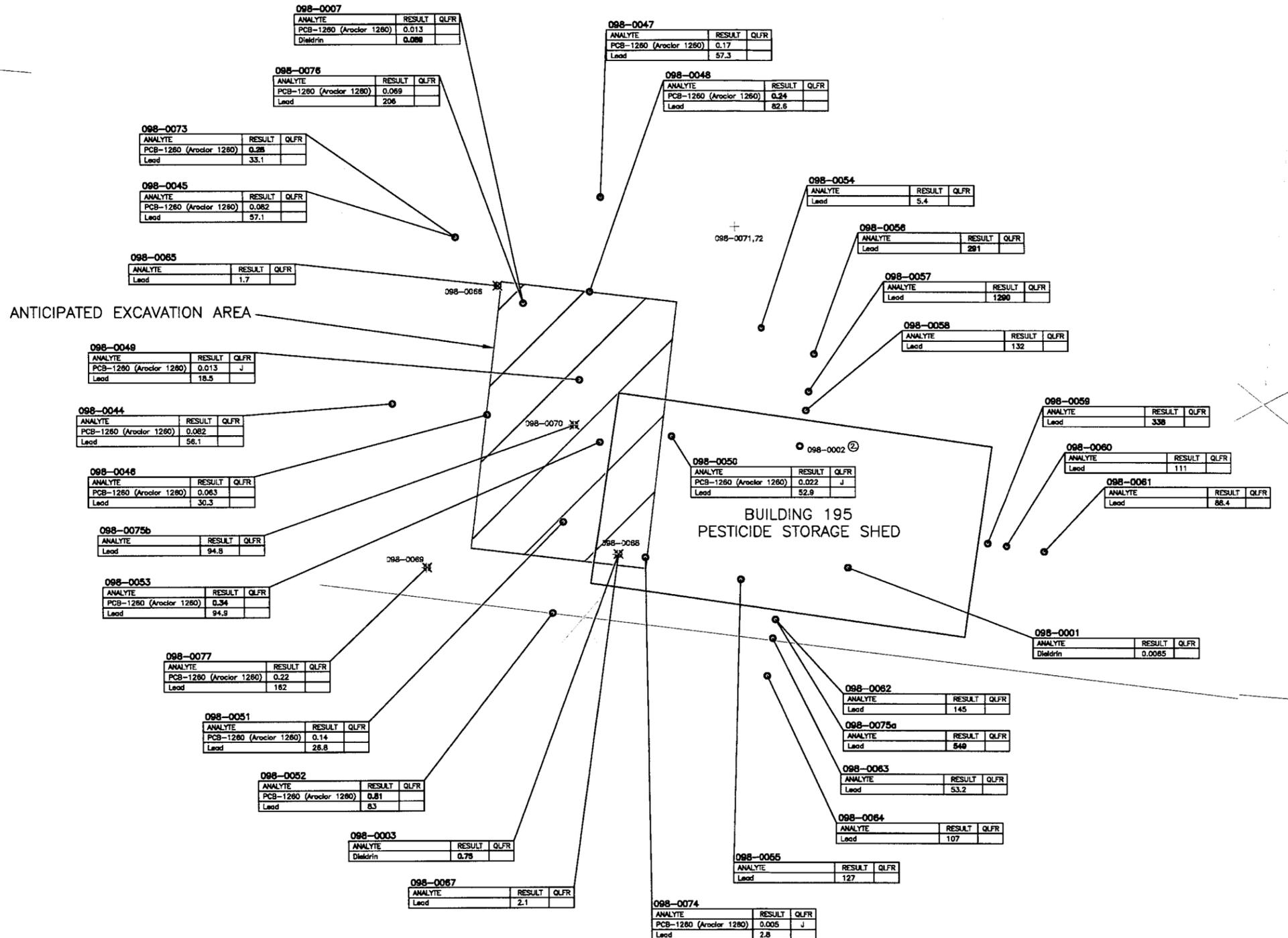


 **Shaw** Shaw Environmental, Inc.

DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL ENGINEERING COMMAND
SAN DIEGO, CALIFORNIA

FIGURE 2
PARCEL 98
LANDSCAPE MAINTENANCE AREA
BUILDING 195
ALAMEDA, CALIFORNIA

IMAGE X-REF ALA1BASE OFFICE CONC DRAWN BY B. Jensen 1-27-04 CHECKED BY TA 1-27-04 APPROVED BY DS 1-27-04 DRAWING NUMBER 807181-D65



- LEGEND**
- ✖ PRE-REMOVAL SURFACE SOIL AND HYDROPUNCH SAMPLE LOCATIONS
 - ✖ PRE-REMOVAL SUBSURFACE SOIL AND HYDROPUNCH SAMPLE LOCATIONS
 - PRE-REMOVAL SURFACE SOIL SAMPLE (PARCEL-SAMPLE #)
 - SURFACE AND SUBSURFACE SOIL SAMPLE
 - PRE-REMOVAL HYDROPUNCH SAMPLE LOCATION
 - ✖ FENCE LINE

CLEAN-UP CRITERIA

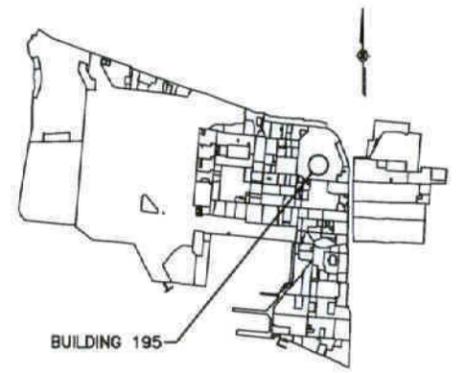
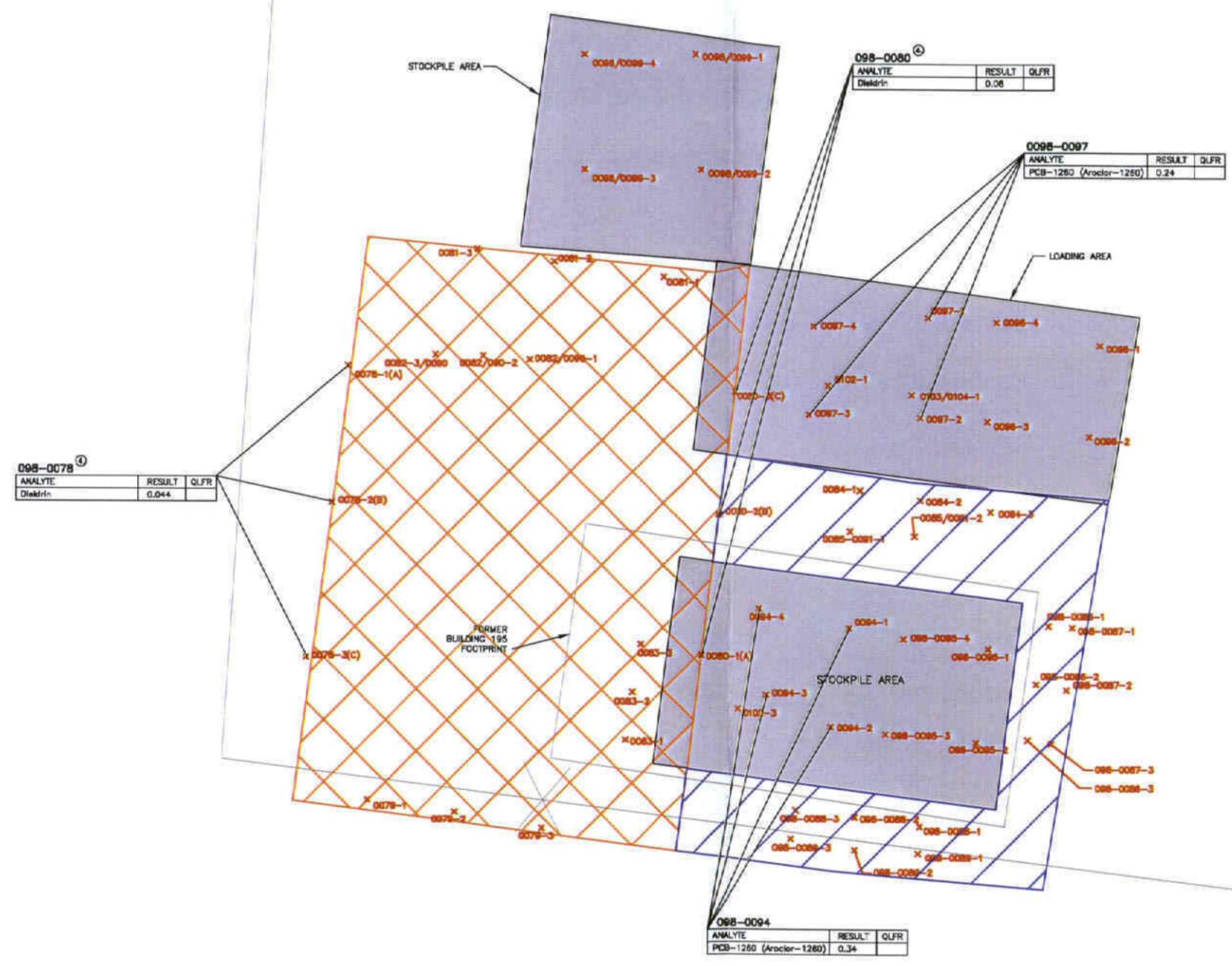
DIELDRIN	0.03 mg/kg
AROCLO 1260	0.220 mg/kg
LEAD	209 mg/kg

- NOTE**
1. ALL SOIL RESULTS MEASURED IN mg/kg.
 2. SAMPLE 098-0002 (EBS PHASE 2A) NOT ANALYZED FOR LEAD.



Shaw Environmental, Inc.
 DEPARTMENT OF THE NAVY SOUTHWEST DIVISION
 NAVAL FACILITIES ENGINEERING COMMAND
 SAN DIEGO, CALIFORNIA

FIGURE 3
 PRE-EXCAVATION SOIL SAMPLING
 PCBs DIELDRIN AND LEAD DETECTIONS
 PARCEL 98, BUILDING 195
 PESTICIDE STORAGE SHED
 ALAMEDA POINT ALAMEDA, CALIFORNIA

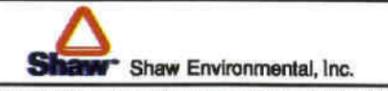
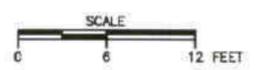


- LEGEND**
- x CONFIRMATORY SAMPLE LOCATIONS
 - ▭ SHALLOW (1') EXCAVATION BOUNDARY
 - ▭ FIRST DEEP (2') EXCAVATION

CLEAN-UP CRITERIA

DIELDRIN	0.03 mg/kg
AROCLOR 1260	0.220 mg/kg
LEAD	209 mg/kg

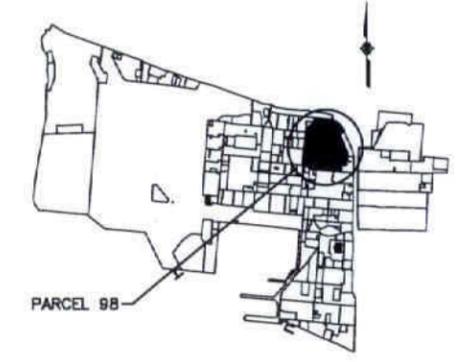
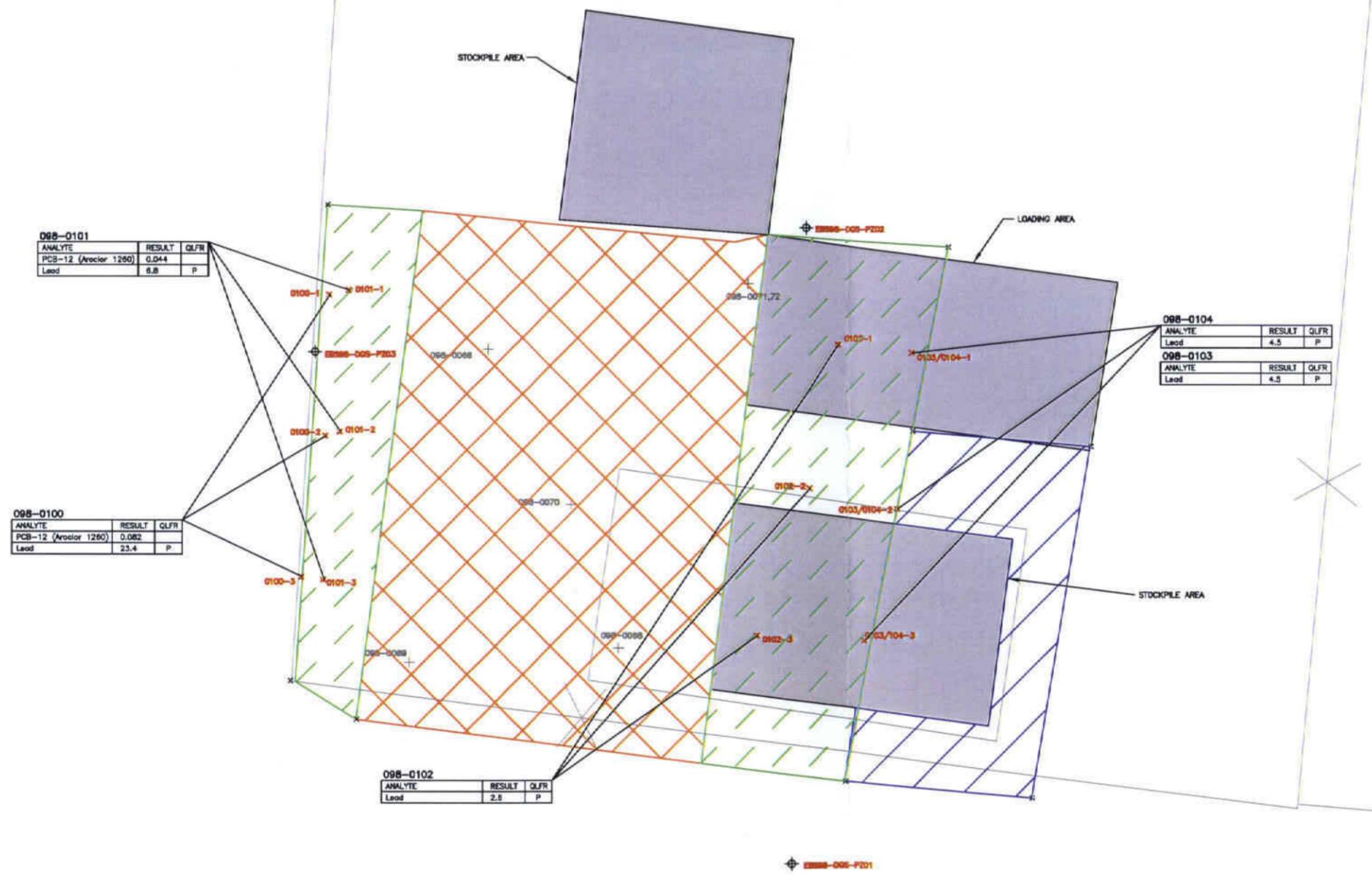
- NOTES**
1. ALL RESULTS MEASURED IN mg/kg.
 2. RESULTS ARE FROM COMPOSITE SAMPLES. FOR EXAMPLE, SAMPLE LOCATIONS 0078-1, 0078-2 AND 0078-3 MAKE UP COMPOSITE RESULT 098-0078.
 3. ONLY CRITERIA EXCEEDANCES PLOTTED -- SEE TABLE 3 FOR DETECTIONS.
 4. SUBCOMPOSITES ANALYZED INDIVIDUALLY, SEE TABLE 4.



DEPARTMENT OF THE NAVY SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
SAN DIEGO, CALIFORNIA

FIGURE 4
FIRST EXCAVATION SAMPLING,
AND CRITERIA EXCEEDANCE
PARCEL 98, BUILDING 195
PESTICIDE STORAGE SHED
ALAMEDA POINT ALAMEDA, CALIFORNIA

IMAGE X-REF OFFICE CONC DRAWN BY CHECKED BY APPROVED BY DRAWING NUMBER
 --- 1-27-04 B. Jensen TA DS 807181-D67



- LEGEND**
- + PRE-REMOVAL HYDROPUNCH SAMPLE LOCATIONS
 - ⊕ MONITORING WELL
 - x CONFIRMATORY SAMPLE LOCATIONS
 - ▭ SHALLOW (1') EXCAVATION BOUNDARY
 - ▨ FIRST DEEP (2') EXCAVATION
 - ▩ SECOND DEEP (2') EXCAVATION
- NOTES**
1. ALL SOIL RESULTS MEASURED IN mg/kg.
 2. RESULTS ARE FROM COMPOSITE SAMPLES. FOR EXAMPLE, SAMPLE LOCATIONS 0100-1, 0100-2 AND 0100-3 MAKE UP COMPOSITE RESULT 098-0100.



Shaw Shaw Environmental, Inc.
 DEPARTMENT OF THE NAVY SOUTHWEST DIVISION
 NAVAL FACILITIES ENGINEERING COMMAND
 SAN DIEGO, CALIFORNIA

FIGURE 5
 SECOND EXCAVATION CONFIRMATORY
 AND GROUNDWATER SAMPLE LOCATIONS
 PARCEL 98, BUILDING 195
 PESTICIDE STORAGE SHED
 ALAMEDA POINT ALAMEDA, CALIFORNIA

TABLES

Table 1
Applicable or Relevant and Appropriate Requirements for Soil Removal at Building 195

Citation	ARAR Classification	Description	Comments
Coastal Management Zone Act; 16USC 1456(c)(1)(A); 15CFR 930	Applicable	Requires federal agencies to conduct activities affecting the coastal zone consistent to the maximum extent practicable with approved state management programs.	The coastal zone is defined as 1000 yards inland from mean high tide. Building 195 is located within the coastal zone, therefore, active removal activities at the facility may affect land or water use, or natural resources of the coastal zone at adjacent facilities.
California Water Pollution Prohibition Act (California Fish and Game Code Section 5650)	Relevant and appropriate	Prohibits the deposition, directly or indirectly, of any substance or material that is deleterious to fish, plant, or bird life into waters of the state.	These requirements are relevant and appropriate to protect fish, plants, or birds that may use the Oakland Inner Harbor from contamination resulting from excavation and treatment activities.
22 CCR Sections 66261.10, 66261.21, 66261.22(a)(1), 66261.23, 66261.24(a)(1), and 66261.100	Applicable	Establishes criteria for identifying hazardous waste.	The requirements will apply to characterize the excavated soil to determine whether it must be managed as hazardous waste.
22 CCR Sections 66262.1, 66262.11, 66262.20, 66262.30, 66262.31, 66262.32, 66262.33, and 66262.34	Applicable	Establishes standards for generators of hazardous waste.	If excavated soil is hazardous waste, these requirements will apply to managing excavated soil prior to shipment off site.
22 CCR Section 66268.7(a)	Applicable	Sets requirements for testing excavated soil to see if it is restricted for land disposal.	This regulation requires generators to determine if treatment is required prior to land disposal.
22 CCR Section 66261.24(a)(2)	Applicable	Establishes criteria for identifying California hazardous waste.	This requirement applies to characterize excavated soil to determine if it is a California hazardous waste.
BAAQMD Regulation 6-301, 302, and 305	Applicable	Sets requirements for controlling particulate and visible emissions during excavation and transport.	These requirements may be applicable to excavation and handling of soils.
Lead Based Paint Poisoning Prevention in Certain Residential Structures, 40 CFR 745.227(e)(7)(i)(A) and 24 CFR 35.56	Relevant and Appropriate	If soil is to be removed, it shall be replaced by soil with a lead concentration no greater than 209 mg/kg.	These requirements are relevant and appropriate to the soil to be excavated even though the established cleanup goal for this action is lower than 400 mg/kg (i.e., 209 mg/kg).
Transportation of hazardous material 49 USC §§ 5101-5127 49 CFR § 171.2(f), 171.2(g), 172.300, 172.301, 172.302, 172.303, 172.304, 172.312, 172.400, 172.504	Relevant and appropriate	Sets forth requirements for transporting hazardous waste including representations that containers are safe, prohibitions on altering labels, marking requirements, labeling requirements and placarding requirements.	Relevant and appropriate for transporting hazardous materials on-site.

Table 1 (Continued)**Applicable or Relevant and Appropriate Requirements for Soil Removal at Building 195**

Citation	ARAR Classification	Description	Comments
BAAQMD Regulation 8-40-301 and 8-40-303	Relevant and appropriate	Limits uncontrolled aeration of stockpiled soil.	These requirements are applicable to contaminated soil that are excavated and stockpiled.
23 CCR 2546	Relevant and appropriate	Requires precipitation and drainage controls to limit to the greatest extent possible, inundation, erosion, or other conditions affecting stockpiled soils.	These requirements are relevant and appropriate to stockpiles generated from excavation of soil if the soil must be managed as a hazardous waste.

BAAQMD denotes Bay Area Air Quality Management District

CCR denotes California Code of Regulations. BAAQMD denotes Bay Area Air Quality Management District

CFR denotes Code of Federal Regulations.

USC denotes U.S. (United States) Code.

Table 2

Sample Collection Summary Pesticide Storage Shed, 2001-2002

Sample No	Sample Type ¹	Start Depth (FT)	Finish Depth (FT)	Depth Unit	Matrix	Composite (Y/N)	Date Collected	Remarks	Analytical Parameters
098-0001	SS	0.5	1	FT	SOIL	N	11/16/94	Pre-excavation sampling	CLP Pesticides/PCBs, TPH-Extractable, TPH-Purgeable
098-0002	SS	0.5	1	FT	SOIL	N	11/16/94	Pre-excavation sampling	CLP Pesticides/PCBs, TPH-Extractable, TPH-Purgeable
098-0003	SS	0.5	1	FT	SOIL	N	11/16/94	Pre-excavation sampling	CLP Pesticides/PCBs, TPH-Extractable, TPH-Purgeable
098-0007	SS	0.5	1	FT	SOIL	N	11/16/94	Pre-excavation sampling	CLP Pesticides/PCBs, TPH-Extractable, TPH-Purgeable
098-0034	SS	0.5	1	FT	SOIL	N	10/19/95	Pre-excavation sampling	CLP Pesticides/PCBs
098-0035	SB	3.5	4	FT	SOIL	N	10/19/95	Pre-excavation sampling	CLP Pesticides/PCBs
13-98-W-001	SOIL/ DEBRIS	NA	NA	NA	PLANT	Y	10/30/01	Pre-existing vegetative debris	Lead 6010B, STLC-TCLP
13-98-W-002	PAINT CHIP	NA	NA	NA	PAINT	N	11/20/01	Lead based paint	Lead 6010B, STLC-TCLP
098-0043	PAINT CHIP	NA	NA	NA	PAINT	N	03/23/01	Lead based paint	AA flame -Lead
098-0044	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0045	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0046	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0047	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0048	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0049	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0050	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0051	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0052	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0053	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0054	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0055	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation sampling	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0056	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B
098-0057	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B
098-0058	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B
098-0059	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B
098-0060	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B
098-0061	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B
098-0062	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B
098-0063	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B

Table 2

Sample Collection Summary Pesticide Storage Shed, 2001-2002

Sample No	Sample Type ¹	Start Depth (FT)	Finish Depth (FT)	Depth Unit	Matrix	Composite (Y/N)	Date Collected	Remarks	Analytical Parameters
098-0064	SS	0	0.1	FT	SOIL	Y	12/14/01	Pre-excavation lead	Lead 6010B
098-0065	SB	3	5	FT	SOIL	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs EPA 8081A-8082, Lead 6010B
098-0066	W	5	8	FT	WATER	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0067	SB	3	5	FT	SOIL	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0068	W	5	8	FT	WATER	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0069	W	5	8	FT	WATER	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0070	W	5	8	FT	WATER	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0071	W	5	8	FT	WATER	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0072	W	5	8	FT	WATER	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0073	FD	0	0.5	FT	SOIL	N	12/14/01	Duplicate of 098-0045	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0074	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0075a	FD	3	5	FT	SOIL	N	12/14/01	Duplicate of 098-0062	Lead 6010B
098-0075b	SS	0	0.1	FT	SOIL	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0076	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0077	SS	0	0.5	FT	SOIL	N	12/14/01	Pre-excavation lead/ Pest/PCB	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0078 (a,b,c)	SS	1.0	1	FT	SOIL	Y	02/13/02	Post-excavation (1st dig) confirmatory, West sidewall, subcomposites	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0079	SS	1.0	1	FT	SOIL	Y	02/13/02	Post-excavation (1st dig) confirmatory, southern sidewall. No exceedances,	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0080	SS	1.0	1	FT	SOIL	Y	02/13/02	Post-excavation (1st dig) confirmatory, West sidewall, subcomposites	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0081	SS	1.0	1	FT	SOIL	Y	02/13/02	Post-excavation (1st dig) confirmatory, northern sidewall.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0082	SS	2.0	2.0	FT	SOIL	Y	02/13/02	Post-excavation (1st dig) confirmatory, excavation base, northwest corner.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0083	SS	2.0	2.0	FT	SOIL	Y	02/13/02	Post-excavation (1st dig) confirmatory, excavation base, northwest corner.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0084	SS	1.0	1.0	FT	SOIL	Y	02/13/02	Post excavation (1st dig) confirmatory, lead removal area, 6 ft. from excav. South sidewall, North of Building 195 footprint.	Lead 6010B

Table 2
Sample Collection Summary Pesticide Storage Shed, 2001-2002

Sample No	Sample Type ¹	Start Depth (FT)	Finish Depth (FT)	Depth Unit	Matrix	Composite (Y/N)	Date Collected	Remarks	Analytical Parameters
098-0085	SS	1.0	1.0	FT	SOIL	Y	02/13/02	Post excavation (1st dig) confirmatory, lead removal area, 3 ft. from sidewall, 2 ft. north of Building 195 footprint.	Lead 6010B
098-0086	SS	1.0	1.0	FT	SOIL	Y	02/13/02	Post excavation (1st dig) confirmatory, lead removal area, 3 ft. from sidewall, 2 ft. east of Building 195 footprint.	Lead 6010B
098-0087	SS	1.0	1.0	FT	SOIL	Y	02/13/02	Post excavation (1st dig) confirmatory, lead removal area, 6 ft. from sidewall, 5 ft. east of Building 195 footprint.	Lead 6010B
098-0088	SS	1.0	1.0	FT	SOIL	Y	02/13/02	Post excavation (1st dig) confirmatory, lead removal area, 3 ft. from sidewall, 2 ft. south of Building 195 footprint.	Lead 6010B
098-0089	SS	1.0	1.0	FT	SOIL	Y	02/13/02	Post excavation (1st dig) confirmatory, lead removal area, 6 ft. from sidewall, 5 ft. south of Building 195 footprint, constituents within limits.	Lead 6010B
098-0090	FD	2.0	2.0	FT	SOIL	Y	02/13/02	Field Duplicate for 098-0082	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0091	FD	1.0	1.0	FT	SOIL	Y	02/13/02	Field Duplicate for 098-0085	Lead 6010B
098-0092	SW	0.0	0.0	FT	SOIL	Y	02/13/02	Soil waste characterization	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0093	SW	0.0	0.0	FT	SOIL	Y	02/13/02	Soil waste characterization : STLC-TLC analysis Pb & Cr.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B)
098-0094	SS	0.25	0.25	FT	SOIL	Y	02/21/02	Post-excavation confirmatory, stockpile footprint, Building 195 footprint.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0095	SS	0.25	0.25	FT	SOIL	Y	02/21/02	Post-excavation confirmatory, stockpile footprint, Building 195 footprint.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0096	SS	0.25	0.25	FT	SOIL	Y	02/21/02	Post-excavation confirmatory, stockpile footprint, North of Building 195 footprint, soil not excavated.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0097	SS	0.25	0.25	FT	SOIL	Y	02/21/02	Post-excavation confirmatory, stockpile footprint, 195 footprint, West part	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0098	SS	0.25	0.25	FT	SOIL	Y	02/21/02	Post-excavation confirmatory. Post-excavation confirmatory, stockpile footprint, soil not excavated	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0099	FD	0.25	0.25	FT	SOIL	Y	02/21/02	Field Duplicate for 098-0098	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0100	SS	1	1	FT	SOIL	Y	03/28/02	Post-excavation confirmatory (2nd dig), western sidewall.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0101	SS	0.25	0.25	FT	SOIL	Y	03/28/02	Post-excavation confirmatory (2nd dig) western basal.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0102	SS	0.25	0.25	FT	SOIL	Y	03/28/02	Post-excavation confirmatory (2nd dig) eastern basal.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP

Table 2
Sample Collection Summary Pesticide Storage Shed, 2001-2002

Sample No	Sample Type ¹	Start Depth (FT)	Finish Depth (FT)	Depth Unit	Matrix	Composite (Y/N)	Date Collected	Remarks	Analytical Parameters
098-0103	SS	1	1	FT	SOIL	Y	03/28/02	Post-excavation confirmatory (2nd dig), eastern sidewall.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0104	FD	1	1	FT	SOIL	Y	03/28/02	Field Duplicate for 098-0103.	Pesticides-PCBs, (EPA 8081A-8082), Lead (EPA 6010B) STLC TCLP
098-0107	S	SS	SS	NA	BACKFILL	Y	05/07/02	Scott Creek Quarry- Accepted and used as backfill	See Appendix
385-EBS-98-001	W	5.0	10.0	FT	WATER	N	05/03/02	Tetra Tech EBS98-DGS-PZ001	Pesticides
385-EBS-98-002	W	5.0	10.0	FT	WATER	N	05/03/02	Tetra Tech EBS98-DGS-PZ002	Pesticides
385-EBS-98-003	W	5.0	10.0	FT	WATER	N	05/03/02	Tetra Tech EBS98-DGS-PZ003	Pesticides
385-EBS-98-004	W	5.0	10.0	FT	WATER	N	07/25/02	Tetra Tech EBS98-DGS-PZ001	EPA 6010 (ICP)
385-EBS-98-005	W	5.0	10.0	FT	WATER	N	07/25/02	Tetra Tech EBS98-DGS-PZ002	EPA 6010 (ICP)
385-EBS-98-006	W	5.0	10.0	FT	WATER	N	07/25/02	Tetra Tech EBS98-DGS-PZ003	EPA 6010 (ICP)

CLP denotes Contract Laboratory Program.
 EPA denotes U.S. Environmental Protection Agency.
 FD denotes field duplicate.
 FT denotes feet.
 NA denotes Not Applicable.
 PCBs denotes polychlorinated biphenyls.
 S denotes source.
 SS denotes surface soil.
 STLC denotes soluble threshold limit concentration.
 SW denotes sample waste.
 TCLP denotes Toxicity Characteristic Leaching Procedure.
 TPH denotes total petroleum hydrocarbon.
 W denotes water.

Table 3
Pre-Excavation Investigation - Detected Analytical Results

Sample Number	Compound Name	Sample Matrix	Result ¹	Unit of Measure	Detect Limit	Qlfr ²	PRG ³	PRG Desc ⁴	PRG Units	Background Area ⁵	Background Conc ⁵	Background Units
098-0044	4,4'-DDD	SOIL	0.006	MG/KG	0.0034		2.4	ca	mg/kg	PINK	NA	NA
098-0046	4,4'-DDD	SOIL	0.004	MG/KG	0.0034		2.4	ca	mg/kg	PINK	NA	NA
098-0047	4,4'-DDD	SOIL	0.006	MG/KG	0.0038		2.4	ca	mg/kg	PINK	NA	NA
098-0048	4,4'-DDD	SOIL	0.01	MG/KG	0.0056		2.4	ca	mg/kg	PINK	NA	NA
098-0073	4,4'-DDD	SOIL	0.002	MG/KG	0.0034	J	2.4	ca	mg/kg	PINK	NA	NA
098-0076	4,4'-DDD	SOIL	0.003	MG/KG	0.004	J	2.4	ca	mg/kg	PINK	NA	NA
098-0077	4,4'-DDD	SOIL	0.002	MG/KG	0.0039	J	2.4	ca	mg/kg	PINK	NA	NA
098-0044	4,4'-DDE	SOIL	0.0089	MG/KG	0.0034		1.7	ca	mg/kg	PINK	NA	NA
098-0045	4,4'-DDE	SOIL	0.001	MG/KG	0.0035	J	1.7	ca	mg/kg	PINK	NA	NA
098-0046	4,4'-DDE	SOIL	0.001	MG/KG	0.0034	J	1.7	ca	mg/kg	PINK	NA	NA
098-0047	4,4'-DDE	SOIL	0.004	MG/KG	0.0038		1.7	ca	mg/kg	PINK	NA	NA
098-0048	4,4'-DDE	SOIL	0.01	MG/KG	0.0056		1.7	ca	mg/kg	PINK	NA	NA
098-0073	4,4'-DDE	SOIL	0.0073	MG/KG	0.0034		1.7	ca	mg/kg	PINK	NA	NA
098-0076	4,4'-DDE	SOIL	0.003	MG/KG	0.004	J	1.7	ca	mg/kg	PINK	NA	NA
098-0077	4,4'-DDE	SOIL	0.002	MG/KG	0.0039	J	1.7	ca	mg/kg	PINK	NA	NA
098-0044	4,4'-DDT	SOIL	0.046	MG/KG	0.0034		1.7	ca*	mg/kg	PINK	NA	NA
098-0045	4,4'-DDT	SOIL	0.0073	MG/KG	0.0035		1.7	ca*	mg/kg	PINK	NA	NA
098-0046	4,4'-DDT	SOIL	0.0076	MG/KG	0.0034		1.7	ca*	mg/kg	PINK	NA	NA
098-0047	4,4'-DDT	SOIL	0.013	MG/KG	0.0038		1.7	ca*	mg/kg	PINK	NA	NA
098-0048	4,4'-DDT	SOIL	0.037	MG/KG	0.0056		1.7	ca*	mg/kg	PINK	NA	NA
098-0049	4,4'-DDT	SOIL	0.002	MG/KG	0.0034	J	1.7	ca*	mg/kg	PINK	NA	NA
098-0050	4,4'-DDT	SOIL	0.004	MG/KG	0.0033		1.7	ca*	mg/kg	PINK	NA	NA
098-0051	4,4'-DDT	SOIL	0.0075	MG/KG	0.0033		1.7	ca*	mg/kg	PINK	NA	NA
098-0054	4,4'-DDT	SOIL	0.0006	MG/KG	0.0035	J	1.7	ca*	mg/kg	PINK	NA	NA
098-0055	4,4'-DDT	SOIL	0.0004	MG/KG	0.0032	J	1.7	ca*	mg/kg	PINK	NA	NA
098-0073	4,4'-DDT	SOIL	0.012	MG/KG	0.0034		1.7	ca*	mg/kg	PINK	NA	NA
098-0074	4,4'-DDT	SOIL	0.0004	MG/KG	0.0033	J	1.7	ca*	mg/kg	PINK	NA	NA
098-0076	4,4'-DDT	SOIL	0.011	MG/KG	0.004		1.7	ca*	mg/kg	PINK	NA	NA
098-0077	4,4'-DDT	SOIL	0.014	MG/KG	0.0039		1.7	ca*	mg/kg	PINK	NA	NA
098-0044	alpha-CHLORDANE	SOIL	0.0041	MG/KG	0.0011		NA	NA	mg/kg	PINK	NA	NA
098-0045	alpha-CHLORDANE	SOIL	0.0033	MG/KG	0.0012		NA	NA	mg/kg	PINK	NA	NA
098-0046	alpha-CHLORDANE	SOIL	0.002	MG/KG	0.0011		NA	NA	mg/kg	PINK	NA	NA
098-0047	alpha-CHLORDANE	SOIL	0.0058	MG/KG	0.0013		NA	NA	mg/kg	PINK	NA	NA
098-0048	alpha-CHLORDANE	SOIL	0.0048	MG/KG	0.0019		NA	NA	mg/kg	PINK	NA	NA
098-0051	alpha-CHLORDANE	SOIL	0.0004	MG/KG	0.0011	J	NA	NA	mg/kg	PINK	NA	NA
098-0073	alpha-CHLORDANE	SOIL	0.002	MG/KG	0.0011		NA	NA	mg/kg	PINK	NA	NA
098-0076	alpha-CHLORDANE	SOIL	0.0055	MG/KG	0.0013		NA	NA	mg/kg	PINK	NA	NA
098-0077	alpha-CHLORDANE	SOIL	0.002	MG/KG	0.0013		NA	NA	mg/kg	PINK	NA	NA
098-0007	AROCLOR-1260	SOIL	0.13	MG/KG	0.077		0.22	ca	mg/kg	PINK	NA	NA
098-0044	AROCLOR-1260	SOIL	0.082	MG/KG	0.038		0.22	ca	mg/kg	PINK	NA	NA
098-0045	AROCLOR-1260	SOIL	0.082	MG/KG	0.038		0.22	ca	mg/kg	PINK	NA	NA
098-0046	AROCLOR-1260	SOIL	0.063	MG/KG	0.038		0.22	ca	mg/kg	PINK	NA	NA
098-0047	AROCLOR-1260	SOIL	0.17	MG/KG	0.042		0.22	ca	mg/kg	PINK	NA	NA
098-0048	AROCLOR-1260	SOIL	0.24	MG/KG	0.062		0.22	ca	mg/kg	PINK	NA	NA
098-0049	AROCLOR-1260	SOIL	0.013	MG/KG	0.037	J	0.22	ca	mg/kg	PINK	NA	NA
098-0050	AROCLOR-1260	SOIL	0.022	MG/KG	0.037	J	0.22	ca	mg/kg	PINK	NA	NA
098-0051	AROCLOR-1260	SOIL	0.14	MG/KG	0.036		0.22	ca	mg/kg	PINK	NA	NA
098-0052	AROCLOR-1260	SOIL	0.81	MG/KG	0.06		0.22	ca	mg/kg	PINK	NA	NA
098-0053	AROCLOR-1260	SOIL	0.34	MG/KG	0.037		0.22	ca	mg/kg	PINK	NA	NA

Table 3
Pre-Excavation Investigation - Detected Analytical Results

Sample Number	Compound Name	Sample Matrix	Result ¹	Unit of Measure	Detect Limit	Qlfr ²	PRG ³	PRG Desc ⁴	PRG Units	Background Area ⁵	Background Conc ⁵	Background Units
098-0073	AROCLOR-1260	SOIL	0.28	MG/KG	0.038		0.22	ca	mg/kg	PINK	NA	NA
098-0074	AROCLOR-1260	SOIL	0.005	MG/KG	0.036	J	0.22	ca	mg/kg	PINK	NA	NA
098-0076	AROCLOR-1260	SOIL	0.069	MG/KG	0.044		0.22	ca	mg/kg	PINK	NA	NA
098-0077	AROCLOR-1260	SOIL	0.22	MG/KG	0.043		0.22	ca	mg/kg	PINK	NA	NA
098-0001	DIELDRIN	SOIL	0.0065	MG/KG	0.0038		0.03	ca	mg/kg	PINK	NA	NA
098-0003	DIELDRIN	SOIL	0.75	MG/KG	0.16		0.03	ca	mg/kg	PINK	NA	NA
098-0007	DIELDRIN	SOIL	0.089	MG/KG	0.0077		0.03	ca	mg/kg	PINK	NA	NA
098-0044	gamma-CHLORDANE	SOIL	0.0025	MG/KG	0.0011		NA	NA	mg/kg	PINK	NA	NA
098-0045	gamma-CHLORDANE	SOIL	0.002	MG/KG	0.0012		NA	NA	mg/kg	PINK	NA	NA
098-0046	gamma-CHLORDANE	SOIL	0.002	MG/KG	0.0011		NA	NA	mg/kg	PINK	NA	NA
098-0047	gamma-CHLORDANE	SOIL	0.005	MG/KG	0.0013		NA	NA	mg/kg	PINK	NA	NA
098-0048	gamma-CHLORDANE	SOIL	0.0061	MG/KG	0.0019		NA	NA	mg/kg	PINK	NA	NA
098-0050	gamma-CHLORDANE	SOIL	0.0006	MG/KG	0.0011	J	NA	NA	mg/kg	PINK	NA	NA
098-0051	gamma-CHLORDANE	SOIL	0.002	MG/KG	0.0011		NA	NA	mg/kg	PINK	NA	NA
098-0052	gamma-CHLORDANE	SOIL	0.003	MG/KG	0.0018		NA	NA	mg/kg	PINK	NA	NA
098-0053	gamma-CHLORDANE	SOIL	0.002	MG/KG	0.0011		NA	NA	mg/kg	PINK	NA	NA
098-0073	gamma-CHLORDANE	SOIL	0.001	MG/KG	0.0011		NA	NA	mg/kg	PINK	NA	NA
098-0076	gamma-CHLORDANE	SOIL	0.0028	MG/KG	0.0013		NA	NA	mg/kg	PINK	NA	NA
098-0077	gamma-CHLORDANE	SOIL	0.002	MG/KG	0.0013		NA	NA	mg/kg	PINK	NA	NA
098-0044	LEAD	SOIL	56.1	MG/KG	0.34		400	nc	mg/kg	PINK	32.60	MG/KG
098-0045	LEAD	SOIL	57.1	MG/KG	0.35		400	nc	mg/kg	PINK	32.60	MG/KG
098-0046	LEAD	SOIL	30.3	MG/KG	0.34		400	nc	mg/kg	PINK	32.60	MG/KG
098-0047	LEAD	SOIL	57.3	MG/KG	0.38		400	nc	mg/kg	PINK	32.6	MG/KG
098-0048	LEAD	SOIL	82.6	MG/KG	0.56		400	nc	mg/kg	PINK	32.60	MG/KG
098-0049	LEAD	SOIL	18.5	MG/KG	0.34		400	nc	mg/kg	PINK	32.60	MG/KG
098-0050	LEAD	SOIL	52.9	MG/KG	0.33		400	nc	mg/kg	PINK	32.60	MG/KG
098-0051	LEAD	SOIL	26.8	MG/KG	0.33		400	nc	mg/kg	PINK	32.6	MG/KG
098-0052	LEAD	SOIL	83	MG/KG	0.55		400	nc	mg/kg	PINK	32.6	MG/KG
098-0053	LEAD	SOIL	94.9	MG/KG	0.34		400	nc	mg/kg	PINK	32.60	MG/KG
098-0054	LEAD	SOIL	5.4	MG/KG	0.35		400	nc	mg/kg	PINK	32.60	MG/KG
098-0055	LEAD	SOIL	127	MG/KG	0.32		400	nc	mg/kg	PINK	32.60	MG/KG
098-0056	LEAD	SOIL	291	MG/KG	0.44		400	nc	mg/kg	PINK	32.60	MG/KG
098-0057	LEAD	SOIL	1290	MG/KG	2.2		400	nc	mg/kg	PINK	32.6	MG/KG
098-0058	LEAD	SOIL	132	MG/KG	0.38		400	nc	mg/kg	PINK	32.6	MG/KG
098-0059	LEAD	SOIL	338	MG/KG	0.34		400	nc	mg/kg	PINK	32.6	MG/KG
098-0060	LEAD	SOIL	111	MG/KG	0.35		400	nc	mg/kg	PINK	32.6	MG/KG
098-0061	LEAD	SOIL	88.4	MG/KG	0.37		400	nc	mg/kg	PINK	32.6	MG/KG
098-0062	LEAD	SOIL	145	MG/KG	0.37		400	nc	mg/kg	PINK	32.6	MG/KG
098-0063	LEAD	SOIL	53.2	MG/KG	0.35		400	nc	mg/kg	PINK	32.6	MG/KG
098-0064	LEAD	SOIL	107	MG/KG	0.39		400	nc	mg/kg	PINK	32.6	MG/KG
098-0065	LEAD	SOIL	1.7	MG/KG	0.35		400	nc	mg/kg	PINK	32.6	MG/KG
098-0067	LEAD	SOIL	2.1	MG/KG	0.35		400	nc	mg/kg	PINK	32.6	MG/KG
098-0073	LEAD	SOIL	33.1	MG/KG	0.34		400	nc	mg/kg	PINK	32.6	MG/KG
098-0074	LEAD	SOIL	2.8	MG/KG	0.33		400	nc	mg/kg	PINK	32.6	MG/KG
098-0075a	LEAD	SOIL	594	MG/KG	2		400	nc	mg/kg	PINK	32.6	MG/KG
098-0075b	LEAD	SOIL	94.8	MG/KG	0.32		400	nc	mg/kg	PINK	32.6	MG/KG
098-0076	LEAD	SOIL	206	MG/KG	0.4		400	nc	mg/kg	PINK	32.6	MG/KG
098-0077	LEAD	SOIL	162	MG/KG	0.39		400	nc	mg/kg	PINK	32.6	MG/KG

Table 3
Pre-Excavation Investigation - Detected Analytical Results

Sample Number	Compound Name	Sample Matrix	Result ¹	Unit of Measure	Detect Limit	Qlfr ²	PRG ³	PRG Desc ⁴	PRG Units	Background Area ⁵	Background Conc ⁵	Background Units
Groundwater Results												
098-0066	DIELDRIN	WATER	0.05	UG/L	0.1	J	0.0042	ca	µg/L	PINK	NA	NA
098-0068	DIELDRIN	WATER	0.02	UG/L	0.1	J	0.0042	ca	µg/L	PINK	NA	NA
098-0069	DIELDRIN	WATER	0.006	UG/L	0.1	J	0.0042	ca	µg/L	PINK	NA	NA
098-0070	DIELDRIN	WATER	0.03	UG/L	0.1	J	0.0042	ca	µg/L	PINK	NA	NA
098-0071	DIELDRIN	WATER	0.02	UG/L	0.1	J	0.0042	ca	µg/L	PINK	NA	NA
098-0072	DIELDRIN	WATER	0.02	UG/L	0.1	J	0.0042	ca	µg/L	PINK	NA	NA
098-0066	LEAD	WATER	137	UG/L	5	P	NA	NA	µg/L	PINK	NA	NA
098-0068	LEAD	WATER	194	UG/L	5	P	NA	NA	µg/L	PINK	NA	NA
098-0069	LEAD	WATER	121	UG/L	5	P	NA	NA	µg/L	PINK	NA	NA
098-0070	LEAD	WATER	61.5	UG/L	5	P	NA	NA	µg/L	PINK	NA	NA
098-0071	LEAD	WATER	38.3	UG/L	5	P	NA	NA	µg/L	PINK	NA	NA
098-0072	LEAD	WATER	49.6	UG/L	5	P	NA	NA	µg/L	PINK	NA	NA

Bold Result: Results appearing in bold exceed PRG.

Background data set (with 80LCL/95 calculations) for NAS Alameda, Areas are color coded in TerraNext, 1997.

Qualifier "J" denotes Estimated value. The analyte was positively identified but the associated numerical value is approximate.

PRG denotes Region 9 Preliminary Remediation Goals (PRGs) 2000 (EPA, 2000).

ca denotes chemical concentration based on a carcinogenic risk of 1x10⁻⁶.

nc denotes chemical concentration based on a noncarcinogenic hazard index of 1.0.

NA denotes Not Applicable.

µg/L denotes micrograms per liter. µ

MG/KG denotes milligrams per kilogram.

Table 4
First Excavation Confirmatory Sampling - Detected Analytical Results

Sample Number	Compound Name	Sample Matrix	Result ¹	Unit of Measure	Detect Limit	Qlfr ²	PRG ³	PRG Desc ⁴	PRG Units	Background Area ⁵	Background Conc	Background Units
098-0078	4,4'-DDD	SOIL	0.0007	MG/KG	0.0033	J	2.4	ca	MG/KG	PINK	NA	NA
098-0079	4,4'-DDD	SOIL	0.0004	MG/KG	0.0033	J	2.4	ca	MG/KG	PINK	NA	NA
098-0080	4,4'-DDD	SOIL	0.001	MG/KG	0.0032	J	2.4	ca	MG/KG	PINK	NA	NA
098-0081	4,4'-DDD	SOIL	0.002	MG/KG	0.0034	J	2.4	ca	MG/KG	PINK	NA	NA
098-0083	4,4'-DDD	SOIL	0.0005	MG/KG	0.0032	J	2.4	ca	MG/KG	PINK	NA	NA
098-0078	4,4'-DDE	SOIL	0.001	MG/KG	0.0033	J	1.7	ca	MG/KG	PINK	NA	NA
098-0079	4,4'-DDE	SOIL	0.0007	MG/KG	0.0033	J	1.7	ca	MG/KG	PINK	NA	NA
098-0080	4,4'-DDE	SOIL	0.002	MG/KG	0.0032	J	1.7	ca	MG/KG	PINK	NA	NA
098-0081	4,4'-DDE	SOIL	0.001	MG/KG	0.0034	J	1.7	ca	MG/KG	PINK	NA	NA
098-0083	4,4'-DDE	SOIL	0.0004	MG/KG	0.0032	J	1.7	ca	MG/KG	PINK	NA	NA
098-0078	4,4'-DDT	SOIL	0.005	MG/KG	0.0033		1.7	ca*	MG/KG	PINK	NA	NA
098-0079	4,4'-DDT	SOIL	0.0008	MG/KG	0.0033	J	1.7	ca*	MG/KG	PINK	NA	NA
098-0080	4,4'-DDT	SOIL	0.0069	MG/KG	0.0032		1.7	ca*	MG/KG	PINK	NA	NA
098-0081	4,4'-DDT	SOIL	0.004	MG/KG	0.0034		1.7	ca*	MG/KG	PINK	NA	NA
098-0082	4,4'-DDT	SOIL	0.0003	MG/KG	0.0032	J	1.7	ca*	MG/KG	PINK	NA	NA
098-0083	4,4'-DDT	SOIL	0.006	MG/KG	0.0032		1.7	ca*	MG/KG	PINK	NA	NA
098-0090	4,4'-DDT	SOIL	0.001	MG/KG	0.0033	J	1.7	ca*	MG/KG	PINK	NA	NA
098-0078	AROCLOR-1260	SOIL	0.065	MG/KG	0.036		0.22	ca	MG/KG	PINK	NA	NA
098-0079	AROCLOR-1260	SOIL	0.01	MG/KG	0.036	J	0.22	ca	MG/KG	PINK	NA	NA
098-0080	AROCLOR-1260	SOIL	0.058	MG/KG	0.036		0.22	ca	MG/KG	PINK	NA	NA
098-0081	AROCLOR-1260	SOIL	0.026	MG/KG	0.038	J	0.22	ca	MG/KG	PINK	NA	NA
098-0082	AROCLOR-1260	SOIL	0.006	MG/KG	0.035	J	0.22	ca	MG/KG	PINK	NA	NA
098-0083	AROCLOR-1260	SOIL	0.064	MG/KG	0.036		0.22	ca	MG/KG	PINK	NA	NA
098-0090	AROCLOR-1260	SOIL	0.014	MG/KG	0.036	J	0.22	ca	MG/KG	PINK	NA	NA
098-0094	AROCLOR-1260	SOIL	0.34	MG/KG	0.026		0.22	ca	MG/KG	PINK	NA	NA
098-0095	AROCLOR-1260	SOIL	0.22	MG/KG	0.027		0.22	ca	MG/KG	PINK	NA	NA
098-0096	AROCLOR-1260	SOIL	0.16	MG/KG	0.036		0.22	ca	MG/KG	PINK	NA	NA
098-0097	AROCLOR-1260	SOIL	0.24	MG/KG	0.038		0.22	ca	MG/KG	PINK	NA	NA
098-0098	AROCLOR-1260	SOIL	0.13	MG/KG	0.039		0.22	ca	MG/KG	PINK	NA	NA
098-0099	AROCLOR-1260	SOIL	0.18	MG/KG	0.046		0.22	ca	MG/KG	PINK	NA	NA
098-0078	DIELDRIN	SOIL	0.044	MG/KG	0.0033		0.03	ca	MG/KG	PINK	NA	NA
098-0078-A (subcomposite)	DIELDRIN	SOIL	0.056	MG/KG	0.0033		0.03	ca	MG/KG	PINK	NA	NA
098-0078-B (subcomposite)	DIELDRIN	SOIL	0.051	MG/KG	0.0033		0.03	ca	MG/KG	PINK	NA	NA
098-0078-C (subcomposite)	DIELDRIN	SOIL	0.031	MG/KG	0.0033		0.03	ca	MG/KG	PINK	NA	NA
098-0080	DIELDRIN	SOIL	0.08	MG/KG	0.0032		0.03	ca	MG/KG	PINK	NA	NA
098-0080-A (subcomposite)	DIELDRIN	SOIL	0.18	MG/KG	0.0033		0.03	ca	MG/KG	PINK	NA	NA
098-0080-B (subcomposite)	DIELDRIN	SOIL	0.013	MG/KG	0.0033		0.03	ca	MG/KG	PINK	NA	NA
098-0080-C (subcomposite)	DIELDRIN	SOIL	0.014	MG/KG	0.0033		0.03	ca	MG/KG	PINK	NA	NA

Table 4
First Excavation Confirmatory Sampling - Detected Analytical Results

Sample Number	Compound Name	Sample Matrix	Result ¹	Unit of Measure	Detect Limit	Qlfr ²	PRG ³	PRG Desc ⁴	PRG Units	Background Area ⁵	Background Conc	Background Units
098-0081	DIELDRIN	SOIL	0.003	MG/KG	0.0034	J	0.03	ca	MG/KG	PINK	NA	NA
098-0082	DIELDRIN	SOIL	0.011	MG/KG	0.0032		0.03	ca	MG/KG	PINK	NA	NA
098-0083	DIELDRIN	SOIL	0.0068	MG/KG	0.0032		0.03	ca	MG/KG	PINK	NA	NA
098-0090	DIELDRIN	SOIL	0.005	MG/KG	0.0033		0.03	ca	MG/KG	PINK	NA	NA
098-0080	gamma-CHLORDANE	SOIL	0.001	MG/KG	0.0011	J	NA	NA	MG/KG	PINK	NA	NA
098-0081	gamma-CHLORDANE	SOIL	0.001	MG/KG	0.0011	J	NA	NA	MG/KG	PINK	NA	NA
098-0078	LEAD	SOIL	28.3	MG/KG	0.33		400	nc	MG/KG	PINK	32.6	MG/KG
098-0079	LEAD	SOIL	32.4	MG/KG	0.33		400	nc	MG/KG	PINK	32.6	MG/KG
098-0080	LEAD	SOIL	24	MG/KG	0.32		400	nc	MG/KG	PINK	32.6	MG/KG
098-0081	LEAD	SOIL	36.4	MG/KG	0.34		400	nc	MG/KG	PINK	32.6	MG/KG
098-0082	LEAD	SOIL	5	MG/KG	0.32		400	nc	MG/KG	PINK	32.6	MG/KG
098-0083	LEAD	SOIL	13.8	MG/KG	0.32		400	nc	MG/KG	PINK	32.6	MG/KG
098-0084	LEAD	SOIL	23.9	MG/KG	0.32		400	nc	MG/KG	PINK	32.6	MG/KG
098-0085	LEAD	SOIL	38.2	MG/KG	0.34		400	nc	MG/KG	PINK	32.6	MG/KG
098-0086	LEAD	SOIL	17.1	MG/KG	0.33		400	nc	MG/KG	PINK	32.60	MG/KG
098-0087	LEAD	SOIL	33.6	MG/KG	0.33		400	nc	MG/KG	PINK	32.60	MG/KG
098-0088	LEAD	SOIL	49.2	MG/KG	0.34		400	nc	MG/KG	PINK	32.6	MG/KG
098-0089	LEAD	SOIL	36.5	MG/KG	0.34		400	nc	MG/KG	PINK	32.6	MG/KG
098-0090	LEAD	SOIL	7.4	MG/KG	0.33		400	nc	MG/KG	PINK	32.6	MG/KG
098-0091	LEAD	SOIL	40.8	MG/KG	0.33		400	nc	MG/KG	PINK	32.6	MG/KG
098-0094	LEAD	SOIL	124	MG/KG	0.31		400	nc	MG/KG	PINK	32.6	MG/KG
098-0095	LEAD	SOIL	156	MG/KG	0.33		400	nc	MG/KG	PINK	32.6	MG/KG
098-0096	LEAD	SOIL	77.8	MG/KG	0.43		400	nc	MG/KG	PINK	32.60	MG/KG
098-0097	LEAD	SOIL	113	MG/KG	0.46		400	nc	MG/KG	PINK	32.60	MG/KG
098-0098	LEAD	SOIL	68.9	MG/KG	0.47		400	nc	MG/KG	PINK	32.60	MG/KG
098-0099	LEAD	SOIL	144	MG/KG	0.55		400	nc	MG/KG	PINK	32.60	MG/KG

Bold Result: Results appearing in bold exceed PRG.

Background data set (with 80LCL/95 calculations) for NAS Alameda, Areas are color coded in TerraNext, 1997.

Qualifier "J" indicates Estimated value. The analyte was positively identified but the associated numerical value is approximate.

ca denotes chemical concentration based on a carcinogenic risk of 1x10⁻⁶.

MG/KG denotes milligrams per kilogram.

NA denotes not applicable.

nc denotes chemical concentration based on a noncarcinogenic hazard index of 1.0.

PRG denotes Region 9 Preliminary Remediation Goals (PRGs) 2000 (EPA, 2000).

Table 5
Second Excavation Confirmatory Sampling - Detected Analytical Results

Sample Number	Compound Name	Sample Matrix	Result1	Unit of Measure	Detect Limit	Qlfr2	PRG3	PRG Desc4	PRG Units5	Background Area5	Background Conc	Background Units
098-0100	LEAD	SOIL	23.4	MG/KG	0.33		400	nc	MG/KG	PINK	32.60	MG/KG
098-0101	LEAD	SOIL	6.8	MG/KG	0.33		400	nc	MG/KG	PINK	32.60	MG/KG
098-0102	LEAD	SOIL	2.6	MG/KG	0.33		400	nc	MG/KG	PINK	32.60	MG/KG
098-0103	LEAD	SOIL	4.5	MG/KG	0.32		400	nc	MG/KG	PINK	32.60	MG/KG
098-0104	LEAD	SOIL	4.5	MG/KG	0.32		400	nc	MG/KG	PINK	32.60	MG/KG
098-0100	PCB-1260 (AROCLOR 1260)	SOIL	0.082	MG/KG	0.036		0.22	ca	MG/KG	PINK	NA	NA
098-0101	PCB-1260 (AROCLOR 1260)	SOIL	0.044	MG/KG	0.036		0.22	ca	MG/KG	PINK	NA	NA

*Bold Result: Results appearing in **bold** exceed PRG.*

Background data set (with 80LCL/95 calculations) for NAS Alameda, Areas are color coded in TerraNext, 1997.

ca denotes chemical concentration based on a carcinogenic risk of 1x10⁻⁶.

mg/kg denotes milligrams per kilogram.

NA denotes Not Applicable.

nc denotes chemical concentration based on a noncarcinogenic hazard index of 1.0.

PRG denotes Region 9 Preliminary Remediation Goals (PRGs) 2000 (EPA, 2000).

Qualifier "J" indicates Estimated value. Thd analyte ws positively identified but the associated numerical value is approximate.

Table 6
Groundwater Analytical Results - Tetra Tech EM, Inc., July 2002

SAMPLE NUMBER	POINT LOCATION	SCREEN INTERVAL	DATE COLLECTED	ANALYTE GROUP	ANALYTE	RESULT	UNITS	QUALIFIER
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDD	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDE	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDT	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ALDRIN	0.05	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ALPHA-BHC	0.05	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ALPHA-CHLORDANE	0.05	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	BETA-BHC	0.05	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	CHLORDANE	2	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	DELTA-BHC	0.05	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	DIELDRIN	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN I	0.05	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN II	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN SULFATE	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN ALDEHYDE	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN KETONE	0.1	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	GAMMA-BHC (LINDANE)	0.05	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	GAMMA-CHLORDANE	0.05	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	HEPTACHLOR	0.01	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	HEPTACHLOR EPOXIDE	0.01	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	METHOXYCHLOR	0.5	µg/L	U
385-EBS98-001	EBS98-DGS-PZ01	5-10 ft. bgs	5/3/2002	PESTICIDES	TOXAPHENE	3	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDD	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDE	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDT	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ALDRIN	0.05	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ALPHA-BHC	0.05	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ALPHA-CHLORDANE	0.05	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	BETA-BHC	0.05	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	CHLORDANE	2	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	DELTA-BHC	0.05	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	DIELDRIN	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN I	0.05	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN II	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN SULFATE	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN ALDEHYDE	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN KETONE	0.1	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	GAMMA-BHC (LINDANE)	0.05	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	GAMMA-CHLORDANE	0.05	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	HEPTACHLOR	0.01	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	HEPTACHLOR EPOXIDE	0.01	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	METHOXYCHLOR	0.5	µg/L	U
385-EBS98-002	EBS98-DGS-PZ02	5-10 ft. bgs	5/3/2002	PESTICIDES	TOXAPHENE	3	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDD	0.1	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDE	0.1	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	4,4'-DDT	0.1	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ALDRIN	0.05	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ALPHA-BHC	0.05	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ALPHA-CHLORDANE	0.05	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	BETA-BHC	0.05	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	CHLORDANE	2	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	DELTA-BHC	0.05	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	DIELDRIN	0.1	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN I	0.05	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN II	0.1	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDOSULFAN SULFATE	0.1	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN	0.1	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN ALDEHYDE	0.1	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	ENDRIN KETONE	0.1	µg/L	U

Table 6
Groundwater Analytical Results - Tetra Tech EM, Inc., July 2002

SAMPLE NUMBER	POINT LOCATION	SCREEN INTERVAL	DATE COLLECTED	ANALYTE GROUP	ANALYTE	RESULT	UNITS	QUALIFIER
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	GAMMA-BHC (LINDANE)	0.05	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	GAMMA-CHLORDANE	0.05	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	HEPTACHLOR	0.01	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	HEPTACHLOR EPOXIDE	0.01	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	METHOXYCHLOR	0.5	µg/L	U
385-EBS98-003	EBS98-DGS-PZ03	5-10 ft. bgs	5/3/2002	PESTICIDES	TOXAPHENE	3	µg/L	U
385-EBS98-004	EBS98-DGS-PZ01	5-10 ft. bgs	7/25/2002	EPA 6010 (ICP)	LEAD, PB,	0.05	µg/L	U
385-EBS98-005	EBS98-DGS-PZ02	5-10 ft. bgs	7/25/2002	EPA 6010 (ICP)	LEAD, PB,	0.05	µg/L	U
385-EBS98-006	EBS98-DGS-PZ03	5-10 ft. bgs	7/25/2002	EPA 6010 (ICP)	LEAD, PB,	0.05	µg/L	U

ft. bgs denotes feet below ground surface.

µ g/L denotes micrograms per liter.

U qualifier denotes non-detect at reported concentration.

**APPENDIX A
ANALYTICAL RESULTS**

ANALYTICAL RESULTS

- **Paint Chip**
- **Vegetative Debris**
- **Interior Shell**
- **Pre-Removal Soil and Groundwater**
- **Confirmation Soil Sampling Results (First Excavation)**
- **Confirmation Soil Sampling Results (Second Excavation)**
- **Waste Soil Profile Analyses**
- **Backfill Analyses**

Paint Chip

MICRO ANALYTICAL LABORATORIES, INC.

LEAD IN PAINT - EPA SOP (1991)

1032

PROJECT:

The I.T. Group
4005 Port Chicago Highway
Concord, CA 94520

ALAMEDA POINT SHIPYARD
ALAMEDA, CA
BLDG. 195
PROJECT NO.
807181-33020602

Micro Log In **22353**
Total Samples **1**
Date Sampled **03/23/2001**
Date Received **03/26/2001**
Date Analyzed **03/27/2001**

Sample ID	Lead Concentration		Reporting Limit (mg/kg)
	Weight Percent	mg/kg (ppm)	
Client: 098-0043 Lab: 22353-01 ALAMEDA POINT, BUILDING 195 SOUTH SIDE PAINT SAMPLE - EXTERIOR	8.78%	87,796	1,852

Technical Supervisor: F. R. 3/27/2001 Analyst: TT
Farid Farnezanzadeh, M.S. Date Reported

AIHA ELLAP Accredited Laboratory, ID #101768. Samples are analyzed by Flame Atomic Absorption Spectrometry in accordance with EPA's "Standard Operating Procedures for Lead in Paint by Hotplate- or Microwave-based Acid Digestions and Atomic Absorption or Inductively Coupled Plasma Emission Spectrometry" (1991), EPA/600/8-91/213, NTIS Document No. PB92-114172. Samples are prepared by hotplate digestion with nitric acid and hydrogen peroxide, and analyzed by Flame AA. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million. N/A = Not Applicable.

5900 HOLLIS STREET, SUITE M, EMERYVILLE, CALIFORNIA 94608 - (510) 659-0824

Vegetative Debris



INTERNATIONAL
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CORPORATION

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD**

Reference Document No. 546351
Page 1 of 1

Project Name/No. Alameda 80718 Samples Shipment Date 10-30-2001
 Sample Team Members T. Ault Lab Destination APCL
 Profit Center No. 3 Lab Contact ASTA Y. Lee
 Project Manager DAN SHAFER Project Contact/Phone JD Lensen
 Purchase Order No. 70180305 Carrier/Waybill No. 13 921519689143
 Required Report Date 11 Nov 1 2001

Bill to: IT Corp SW Div
4005 Port Chicago Highway
CONCORD CA
94520
 Report to: 10 IT Corp - JD Lensen
4005 Port Chicago Highway
CONCORD CA
94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
13-98-W-001	Soil - from Veg. debris pile	10-30-2001 12:40	glass 906	1.21 9102	4°C	JCP single constituent (Lead) 6010B		
Temp 10/30/2001	Temp Blank					NONE		
COPY							FOR LAB USE ONLY	
COPY							FOR LAB USE ONLY	

Special Instructions: ²³

Possible Hazard Identification: ²⁴
 Non-hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: ²⁵
 Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: ²⁶
 Normal Rush 24 hr.
 QC Level: ²⁷
 I II III Project Specific (specify): See PAM

1. Relinquished by ²⁸ (Signature/Affiliation) <u>D. Ault</u>	Date: <u>10-30-2001</u> Time: <u>16:00</u>	1. Received by ²⁸ (Signature/Affiliation)	Date: _____ Time: _____
2. Relinquished by (Signature/Affiliation)	Date: _____ Time: _____	2. Received by (Signature/Affiliation)	Date: _____ Time: _____
3. Relinquished by (Signature/Affiliation)	Date: _____ Time: _____	3. Received by (Signature/Affiliation)	Date: _____ Time: _____

Comments: ²⁹

Applied P & Ch Laboratory

13780 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

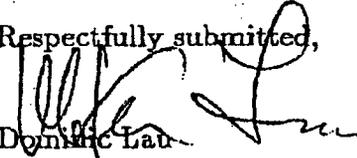
Submitted to:
The IT Group
Attention: JD Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)288-0888

Service ID #: 801-016747
Collected by: T. Ault
Collected on: 10/30/01
Sample Description: Soil
Project Description: 807181 Alameda
Received: 10/31/01
Extracted: N/A
Tested: 10/31/01
Reported: 11/01/01

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				13-98-W-001 01-06747-1
Moisture	ASTM-D2216	%Moisture	0.5	30.9
Dilution Factor				1
Lead	6010B	mg/kg	0.3	56.5

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

13780 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1528 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: JD Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)288-0888

Service ID #: 801-016974
Collected by: T. Ault
Collected on: 10/30/01
Sample Description: Soil
Project Description: 807181 Alameda

Received: 10/31/01
Extracted: 11/09-11/01
Tested: 11/13/01
Reported: 11/14/01

Analysis of Soil Samples (a)

Component Analyzed	Method	Unit	PQL	Analysis Result
				13-98-W-001 01-06974-1
Dilution Factor				5
STLC Lead	6010B	µg/L	5	1,220
Dilution Factor				2
TCLP Lead	6010B	µg/L	5	57.6

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. " ": Analysis is not required.
J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Additional analysis requested on 11/09/01.

Respectfully submitted,



Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Interior Shell



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No. 546301

Page 1 of 1

Project Name/No. Alameda 807181
 Sample Team Members 2 T. Ault
 Profit Center No. 3
 Project Manager 4 DAN Shafer
 Purchase Order No. 8 22 180305
 Required Report Date 11 Dec 1 2001

Samples Shipment Date 7 11-20-2001
 Lab Destination 8 APCU
 Lab Contact 8 HSI NY Lee
 Project Contact/Phone 12 JD LENSEN
 Carrier/Waybill No. 13 8 215 1969 9154

Bill to: 5 IT Corp. Studio
4005 West Chicago Highway
CONCORD CA 94520
 Report to: 10 IT Corp - JD LENSEN
4005 West Chicago Highway
CONCORD CA 94520

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre- 19 servative	Requested Testing 20 Program	Condition on 21 Receipt	Disposal 22 Record No.
13-98-W-002	Paint chip, 810, 195	11-20-2001 14:00	902 g 1953	1cc 90c	NONE	LEAD IN PAINT EPA SOP (1991) STLC & TCLP LEAD (SEE NOTE 1) ONLY	FOR LAB USE ONLY	
COPY								
							FOR LAB USE ONLY	

Special Instructions: 23

Possible Hazard Identification: 24

Non-hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal: 25

Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: 25

Normal Rush 48hr for EPA SOP

QC Level: 27

I. II. III. Project Specific (specify): SEE PM

1. Relinquished by 28

(Signature/Affiliation)

T. Ault
IT Corp

Date: 11-20-2001

Time: 16:00

1. Received by 28

(Signature/Affiliation)

Date: _____

Time: _____

2. Relinquished by

(Signature/Affiliation)

Date: _____

Time: _____

2. Received by

(Signature/Affiliation)

Date: _____

Time: _____

3. Relinquished by

(Signature/Affiliation)

Date: _____

Time: _____

3. Received by

(Signature/Affiliation)

Date: _____

Time: _____

Comments: 29

1) Conduct STLC & TCLP ONLY if result of EPA SOP (1991) recording
 Suppm. Conduct STLC & TCLP for Lead only if this condition exists.

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: JD Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)288-0888

Service ID #: 801-017206 Received: 11/21/01
Collected by: T. Ault Extracted: 11/27-29/01
Collected on: 11/20/01 Tested: 11/29/01
Reported: 11/29/01
Sample Description: Paint Chip from Bldg 195
Project Description: Alameda 807181

Analysis of Paint Chip Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				13-98-W-002 01-07206-1
Dilution Factor				5
Lead, Pb	6010B	mg/kg	0.3	714
Dilution Factor				2
TCLP Lead, Pb ^(a)	6010B	µg/L	5	682
Dilution Factor				5
STLC Lead, Pb ^(a)	6010B	µg/L	5	19,600

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

^(a) Additional analysis requested on 11/27/01.

Respectfully submitted,



Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Pre-Removal Soil and Groundwater



INTERNATIONAL
TECHNOLOGY
CORPORATION

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD***

Reference Document No. 52506
Page 1 of 1

T-952 P.008/019 F-066

3252880888

Project Name/No. 1 Alameda CTO-13⁺ 80701 Samples Shipment Date 7-12-14-2001
 Sample Team Members 2 T. Ault, M. Zellman Lab Destination 8 APCL
 Profit Center No. 3 Lab Contact 9 H.W.Y. Lee
 Project Manager 4 Dave Shaffer Project Contact/Phone 12 JD. Lansen
 Purchase Order No. 6 TRACKWAY # 80701-022 Carrier/Waybill No. 13 B21519679193
 Required Report Date 11

Bill to: 5 ITC/ITP-Subdiv
4805 Port Chicago Highway
Concord CA 94520
 Report to: 10 JD. Lansen
4805 Port Chicago Highway
Concord CA 94520

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre- 18 servative	Requested Testing 20 Program	Condition on 21 Receipt	Disposal 22 Record No.
098-0066	Hydro punch - Parcel 98	12-14-01 9:30	1 Lit Amber 16 Lit Poly	12 12	40C	EPA 8001/8082 Ad-PCB Lead EPA 6010B		
098-0068		12-14-01 8:03					FOR LAB USE ONLY Good Condition	
098-0069		12-14-01 9:55						
098-0070		12-14-01 9:05						
098-0071		12-14-01 10:30						
098-0077		12-14-01 10:55						
098-0075	Soil - surface Parcel 98	12-14-01 11:50	Amber 1 Lit Poly	12 2g		Lead EPA 6010B	FOR LAB USE ONLY	

(6)

Special Instructions: 23 Lead analysis of soil: 3 sub-composite samples taken - composite samples (lab) prior to analysis
Chem 91022

Possible Hazard Identification: 24
 Non-hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: 25
 Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: 26
 Normal Rush 5 day turn-around
 QC Level: 27
 I II III Project Specific (specify): See Pam

1. Relinquished by <u>28</u> (Signature/Affiliation) <u>T. Ault</u> <u>ITC Corp</u>	Date: <u>12-14-01</u> Time: <u>11:00</u>	1. Received by <u>28</u> (Signature/Affiliation) <u>[Signature]</u>	Date: <u>12/15/01</u> Time: <u>11:40</u>
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29

Jan-07-2002 09:02am From-IT CORPORATION APCL Dec 15 01 02:39P



INTERNATIONAL
TECHNOLOGY
CORPORATION

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD ***

Reference Document No. 54635
Page 1 of 2

Project Name/No. 1 Alameda St-13 807181 Samples Shipment Date 7 12-14-2001
 Sample Team Members 2 T. Ault, M. Zellmer Lab Destination 8 ARI
 Profit Center No. 3 Lab Contact 9 HSN Yi Lee
 Project Manager 4 Don Shuter Project Contact/Phone 12 JD Lensen
 Purchase Order No. 6 Under 807181-033 Carrier/Waybill No. 13 821519679182
 Required Report Date 11 5 Day

Bill to: 5 ITC Corp
4005 Port Chicago Highway
Concord CA 94520
 Report to: 10 JD Lensen
4005 Port Chicago Highway
Concord CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
098-0044	Soil probe Parcel 98	12-14-01 10:10	Acetate Sleeve	124	40C	125/123 EPA B081A/ B082, Lead 6010R		
098-0045	"	12-14-01 9:10					FOR LAB USE ONLY <i>Good Condition</i>	
098-0046		12-14-01 9:40						
098-0047		12-14-01 8:40						
098-0048		12-14-01 9:00						
098-0049		12-14-01 8:25						
098-0050		12-14-01 8:15						
098-0051		12-14-01 10:15						

Special Instructions: ²³ Lead analysis for soil 3 sub-composites for samples 098-0056-064
LAB Homogenize samples prior to analysis

Possible Hazard Identification: ²⁴ Non-hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: ²⁵ Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: ²⁶ Normal Rush 5 DAY
 QC Level: ²⁷ I II III Project Specific (specify): See Page

1. Relinquished by ²⁸ <u>T. Ault</u> (Signature/Affiliation) <u>ITC Corp</u>	Date: <u>12-14-01</u> Time: <u>16:00</u>	1. Received by ²⁸ <u>[Signature]</u> (Signature/Affiliation)	Date: <u>12/15/01</u> Time: <u>12:10</u>
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: ²⁹

T-852 P.012/019 F-086

925280888

Jan-07-2002 09:03am From: ITC CORPORATION
 Dec 15 01 02:39P HPL



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No. 30216355
Page 2 of 2

Project Name Alameda County

Project No. 807181

Samples Shipment Date 12-14-01

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre-19 servative	Requested Testing 20 Program	Condition on 21 Receipt	Disposal 22 Record No.
098-0052	Soil Gas probe Parcel 98	12-04-01 8:50	Acetylene Sleeve	1.01	4°C	Ped/PCB EPA 8014/ BORZ & LEAD 6016B		
098-0053		12-04-01 9:45					FOR LAB USE ONLY	
098-0054		12-14-01 9:55						
098-0055		12-14-01 8:05					FOR LAB USE ONLY	
098-0065		12-14-01 10:30						
098-0067		12-14-01 7:25					FOR LAB USE ONLY	
098-0073		12-14-01 8:30						
098-0074		12-14-01 10:00					FOR LAB USE ONLY	
098-0075a		12-14-01 2:10						
098-0076		12-14-01 10:00					FOR LAB USE ONLY	
098-0077		12-14-01 4:20						
098-0056	Soil Surface Parcel 98	12-14-01 11:00	Ambion 9453	200 0.03	4°C	Lot 0 6016B (1)	FOR LAB USE ONLY	
099-0057		12-14-01 11:05						
098-0058		12-14-01 11:44					FOR LAB USE ONLY	
098-0059		12-14-01 10:15						
098-0060		12-14-01 11:20					FOR LAB USE ONLY	
098-0061		12-14-01 11:25						
098-0062		12-14-01 11:30					FOR LAB USE ONLY	
098-0063		12-14-01 10:45						
098-0064		12-14-01 11:45						

T-852 P.013/019 F-066

925288088

Jan-07-2002 08:03am From-IT CORPORATION
Dec 15 01 02:33P nrc

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: JD Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)288-0888

Service ID #: 801-017731 Received: 12/15/01
Collected by: T. Ault/M. Zelmo Extracted: 12/20-22/01
Collected on: 12/14/01 Tested: 12/18-24/01
Reported: 12/31/01
Sample Description: Soil
Project Description: 807181 Alameda CTO 13

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0044 01-07731-1	098-0045 01-07731-2	098-0046 01-07731-3	098-0047 01-07731-4
Moisture	ASTM-D2216	%Moisture	0.5	12.4	13.2	12.1	20.5
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	56.1	57.1	30.3	57.3

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0048 01-07731-5	098-0049 01-07731-6	098-0050 01-07731-7	098-0051 01-07731-8
Moisture	ASTM-D2216	%Moisture	0.5	46.8	11.7	9.8	8.4
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	82.6	18.5	52.9	26.8

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0052 01-07731-9	098-0053 01-07731-10	098-0054 01-07731-11	098-0055 01-07731-12
Moisture	ASTM-D2216	%Moisture	0.5	45.4	10.6	14.0	6.2
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	83.0	94.9	5.4	127

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0056 01-07731-13	098-0057 01-07731-14	098-0058 01-07731-15	098-0059 01-07731-16
Moisture	ASTM-D2216	%Moisture	0.5	32.3	31.6	21.9	10.8
Dilution Factor				1	5	1	1
Lead, Pb,	6010B	mg/kg	0.3	291	1,290	132	338

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0060 01-07731-17	098-0061 01-07731-18	098-0062 01-07731-19	098-0063 01-07731-20
Moisture	ASTM-D2216	%Moisture	0.5	13.9	19.1	19.1	13.6
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	111	88.4	145	53.2

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0064	098-0065	098-0067	098-0073
				01-07731-21	01-07731-22	01-07731-23	01-07731-24
Moisture	ASTM-D2216	%Moisture	0.5	22.3	14.3	14.5	13.0
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	107	1.7	2.1	33.1

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0074	098-0075a	098-0076	098-0077
				01-07731-25	01-07731-26	01-07731-27	01-07731-28
Moisture	ASTM-D2216	%Moisture	0.5	8.3	6.3	24.7	23.3
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	2.8	94.8	206	162

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0044	098-0045	098-0046	098-0047
				01-07731-1	01-07731-2	01-07731-3	01-07731-4
Organochlorine pesticides							
Dilution Factor				1	1	1	1
ALDRIN	8081A	µg/kg	1.7	<1.9	<2.0	<1.9	<2.1
BETA BHC	8081A	µg/kg	1.7	<1.9	<2.0	<1.9	<2.1
ALPHA BHC	8081A	µg/kg	1.7	<1.9	<2.0	<1.9	<2.1
DELTA BHC	8081A	µg/kg	1.7	<1.9	<2.0	<1.9	<2.1
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<1.9	<2.0	<1.9	<2.1
ALPHA-CHLORDANE	8081A	µg/kg	1	4.1	3.3	2	5.8
GAMMA-CHLORDANE	8081A	µg/kg	1	2.5	2	2	5.0
P,P'-DDD	8081A	µg/kg	3	6	<3.5	4	6
P,P'-DDE	8081A	µg/kg	3	8.9	1J	1J	4
P,P'-DDT	8081A	µg/kg	3	46	7.3	7.6	13
DIELDRIN	8081A	µg/kg	3	<3.4	<3.5	<3.4	<3.8
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<1.9	<2.0	<1.9	<2.1
BETA ENDOSULFAN	8081A	µg/kg	3	<3.4	<3.5	<3.4	<3.8
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.7	<5.8	<5.7	<6.3
ENDRIN	8081A	µg/kg	3	<3.4	<3.5	<3.4	<3.8
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.4	<3.5	<3.4	<3.8
ENDRIN KETONE	8081A	µg/kg	2	<2.3	<2.3	<2.3	<2.5
HEPTACHLOR	8081A	µg/kg	1.7	<1.9	<2.0	<1.9	<2.1
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<1.9	<2.0	<1.9	<2.1
METHOXYCHLOR	8081A	µg/kg	10	<11	<12	<11	<13
TOXAPHENE	8081A	µg/kg	100	<110	<120	<110	<130

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0044 01-07731-1	098-0045 01-07731-2	098-0046 01-07731-3	098-0047 01-07731-4
PCBs							
Dilution Factor				1	1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<38	<38	<38	<42
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<75	<76	<75	<83
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<38	<38	<38	<42
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<38	<38	<38	<42
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<38	<38	<38	<42
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<38	<38	<38	<42
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	82 (a)	82 (a)	63 (a)	170 (a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0048 01-07731-5	098-0049 01-07731-6	098-0050 01-07731-7	098-0051 01-07731-8
Organochlorine pesticides							
Dilution Factor				1	1	1	1
ALDRIN	8081A	µg/kg	1.7	<3.2	<1.9	<1.9	<1.9
BETA BHC	8081A	µg/kg	1.7	<3.2	<1.9	<1.9	<1.9
ALPHA BHC	8081A	µg/kg	1.7	<3.2	<1.9	<1.9	<1.9
DELTA BHC	8081A	µg/kg	1.7	<3.2	<1.9	<1.9	<1.9
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<3.2	<1.9	<1.9	<1.9
ALPHA-CHLORDANE	8081A	µg/kg	1	4.8	<1.1	<1.1	0.4J
GAMMA-CHLORDANE	8081A	µg/kg	1	6.1	<1.1	0.6J	2
P,P'-DDD	8081A	µg/kg	3	10	<3.4	<3.3	<3.3
P,P'-DDE	8081A	µg/kg	3	10	<3.4	<3.3	<3.3
P,P'-DDT	8081A	µg/kg	3	37	2J	4	7.5
DIELDRIN	8081A	µg/kg	3	<5.6	<3.4	<3.3	<3.3
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<3.2	<1.9	<1.9	<1.9
BETA ENDOSULFAN	8081A	µg/kg	3	<5.6	<3.4	<3.3	<3.3
ENDOSULFAN SULFATE	8081A	µg/kg	5	<9.4	<5.7	<5.5	<5.5
ENDRIN	8081A	µg/kg	3	<5.6	<3.4	<3.3	<3.3
ENDRIN ALDEHYDE	8081A	µg/kg	3	<5.6	<3.4	<3.3	<3.3
ENDRIN KETONE	8081A	µg/kg	2	<3.8	<2.3	<2.2	<2.2
HEPTACHLOR	8081A	µg/kg	1.7	<3.2	<1.9	<1.9	<1.9
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<3.2	<1.9	<1.9	<1.9
METHOXYCHLOR	8081A	µg/kg	10	<19	<11	<11	<11
TOXAPHENE	8081A	µg/kg	100	<190	<110	<110	<110
PCBs							
Dilution Factor				1	1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<62	<37	<37	<36
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<120	<75	<73	<72
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<62	<37	<37	<36
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<62	<37	<37	<36
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<62	<37	<37	<36
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<62	<37	<37	<36
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	240 (a)	13J (a)	22J (a)	140 (a)

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0052	098-0053	098-0054	098-0055
				01-07731-9	01-07731-10	01-07731-11	01-07731-12
Organochlorine pesticides							
Dilution Factor				1	1	1	1
ALDRIN	8081A	µg/kg	1.7	<3.1	<1.9	<2.0	<1.8
BETA BHC	8081A	µg/kg	1.7	<3.1	<1.9	<2.0	<1.8
ALPHA BHC	8081A	µg/kg	1.7	<3.1	<1.9	<2.0	<1.8
DELTA BHC	8081A	µg/kg	1.7	<3.1	<1.9	<2.0	<1.8
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<3.1	<1.9	<2.0	<1.8
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.8	<1.1	<1.2	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	3	2	<1.2	<1.1
P,P'-DDD	8081A	µg/kg	3	<5.5	<3.4	<3.5	<3.2
P,P'-DDE	8081A	µg/kg	3	<5.5	<3.4	<3.5	<3.2
P,P'-DDT	8081A	µg/kg	3	<5.5	<3.4	0.6J	0.4J
DIELDRIN	8081A	µg/kg	3	<5.5	<3.4	<3.5	<3.2
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<3.1	<1.9	<2.0	<1.8
BETA ENDOSULFAN	8081A	µg/kg	3	<5.5	<3.4	<3.5	<3.2
ENDOSULFAN SULFATE	8081A	µg/kg	5	<9.2	<5.6	<5.8	<5.3
ENDRIN	8081A	µg/kg	3	<5.5	<3.4	<3.5	<3.2
ENDRIN ALDEHYDE	8081A	µg/kg	3	<5.5	<3.4	<3.5	<3.2
ENDRIN KETONE	8081A	µg/kg	2	<3.7	<2.2	<2.3	<2.1
HEPTACHLOR	8081A	µg/kg	1.7	<3.1	<1.9	<2.0	<1.8
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<3.1	<1.9	<2.0	<1.8
METHOXYCHLOR	8081A	µg/kg	10	<18	<11	<12	<11
TOXAPHENE	8081A	µg/kg	100	<180	<110	<120	<110
PCBs							
Dilution Factor				1	1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<60	<37	<38	<35
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<120	<74	<77	<70
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<60	<37	<38	<35
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<60	<37	<38	<35
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<60	<37	<38	<35
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<60	<37	<38	<35
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	810 (*)	340 (*)	<38	<35

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0065	098-0067	098-0073	098-0074
				01-07731-22	01-07731-23	01-07731-24	01-07731-25
Organochlorine pesticides							
Dilution Factor				1	1	1	1
ALDRIN	8081A	µg/kg	1.7	<2.0	<2.0	<2.0	<1.9
BETA BHC	8081A	µg/kg	1.7	<2.0	<2.0	<2.0	<1.9
ALPHA BHC	8081A	µg/kg	1.7	<2.0	<2.0	<2.0	<1.9
DELTA BHC	8081A	µg/kg	1.7	<2.0	<2.0	<2.0	<1.9
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<2.0	<2.0	<2.0	<1.9
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.2	<1.2	2	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.2	<1.2	1	<1.1
P,P'-DDD	8081A	µg/kg	3	<3.5	<3.5	2J	<3.3
P,P'-DDE	8081A	µg/kg	3	<3.5	<3.5	7.3	<3.3
P,P'-DDT	8081A	µg/kg	3	<3.5	<3.5	12	0.4J
DIELDRIN	8081A	µg/kg	3	<3.5	<3.5	<3.4	<3.3
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<2.0	<2.0	<2.0	<1.9
BETA ENDOSULFAN	8081A	µg/kg	3	<3.5	<3.5	<3.4	<3.3
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.8	<5.8	<5.7	<5.5
ENDRIN	8081A	µg/kg	3	<3.5	<3.5	<3.4	<3.3
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.5	<3.5	<3.4	<3.3
ENDRIN KETONE	8081A	µg/kg	2	<2.3	<2.3	<2.3	<2.2
HEPTACHLOR	8081A	µg/kg	1.7	<2.0	<2.0	<2.0	<1.9
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<2.0	<2.0	<2.0	<1.9
METHOXYCHLOR	8081A	µg/kg	10	<12	<12	<11	<11
TOXAPHENE	8081A	µg/kg	100	<120	<120	<110	<110
PCBs							
Dilution Factor				1	1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<39	<39	<38	<36
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<77	<77	<76	<72
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<39	<39	<38	<36
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<39	<39	<38	<36
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<39	<39	<38	<36
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<39	<39	<38	<36
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	<39	<39	280 (a)	5J (a)

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1528 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0075 01-07731-26	098-0076 01-07731-27	098-0077 01-07731-28
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1.7	<1.8	<2.3	<2.2
BETA BHC	8081A	µg/kg	1.7	<1.8	<2.3	<2.2
ALPHA BHC	8081A	µg/kg	1.7	<1.8	<2.3	<2.2
DELTA BHC	8081A	µg/kg	1.7	<1.8	<2.3	<2.2
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<1.8	<2.3	<2.2
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	5.5	2
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.1	2.8	2
P,P'-DDD	8081A	µg/kg	3	<3.2	3J	2J
P,P'-DDE	8081A	µg/kg	3	<3.2	3J	2J
P,P'-DDT	8081A	µg/kg	3	<3.2	11	14
DIELDRIN	8081A	µg/kg	3	<3.2	<4.0	<3.9
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<1.8	<2.3	<2.2
BETA ENDOSULFAN	8081A	µg/kg	3	<3.2	<4.0	<3.9
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.3	<6.6	<6.5
ENDRIN	8081A	µg/kg	3	<3.2	<4.0	<3.9
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.2	<4.0	<3.9
ENDRIN KETONE	8081A	µg/kg	2	<2.1	<2.7	<2.6
HEPTACHLOR	8081A	µg/kg	1.7	<1.8	<2.3	<2.2
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<1.8	<2.3	<2.2
METHOXYCHLOR	8081A	µg/kg	10	<11	<13	<13
TOXAPHENE	8081A	µg/kg	100	<110	<130	<130
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<35	<44	<43
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<70	<88	<86
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<35	<44	<43
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<35	<44	<43
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<35	<44	<43
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<35	<44	<43
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	<35	69 ^(a)	220 ^(a)

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

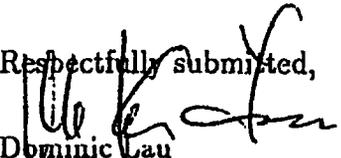
J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

^(a) Presence of PCB may cause false positives in pesticides chromatogram.

Respectfully submitted,


 Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: JD Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)288-0888

Service ID #: 801-017729 Received: 12/15/01
Collected by: T. Ault/M. Zellman Extracted: 12/21/01
Collected on: 12/14/01 Tested: 12/18-27/01
Reported: 12/28/01
Sample Description: Water and Soil
Project Description: 807181 Alameda CTO 13

Analysis of Water and Soil Samples**I. Analysis of Water Samples**

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0066 01-07729-1	098-0068 01-07729-2	098-0069 01-07729-3
Dilution Factor				1	1	1
Lead, Pb,	6010B	µg/L	5	137	194	121
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/L	0.05	<0.05	<0.05	<0.05
BETA BHC	8081A	µg/L	0.05	<0.05	<0.05	<0.05
ALPHA BHC	8081A	µg/L	0.05	<0.05	<0.05	<0.05
DELTA BHC	8081A	µg/L	0.05	<0.05	<0.05	<0.05
GAMMA BHC (LINDANE)	8081A	µg/L	0.05	<0.05	<0.05	<0.05
ALPHA-CHLORDANE	8081A	µg/L	0.05	<0.05	<0.05	<0.05
GAMMA-CHLORDANE	8081A	µg/L	0.05	<0.05	<0.05	<0.05
P,P'-DDD	8081A	µg/L	0.1	<0.1	<0.1	<0.1
P,P'-DDE	8081A	µg/L	0.1	<0.1	<0.1	<0.1
P,P'-DDT	8081A	µg/L	0.1	<0.1	<0.1	<0.1
DIELDRIN	8081A	µg/L	0.1	0.05J	0.02J	0.006J
ALPHA ENDOSULFAN	8081A	µg/L	0.05	<0.05	<0.05	<0.05
BETA ENDOSULFAN	8081A	µg/L	0.1	<0.1	<0.1	<0.1
ENDOSULFAN SULFATE	8081A	µg/L	0.5	<0.5	<0.5	<0.5
ENDRIN	8081A	µg/L	0.1	<0.1	<0.1	<0.1
ENDRIN ALDEHYDE	8081A	µg/L	0.1	<0.1	<0.1	<0.1
ENDRIN KETONE	8081A	µg/L	0.1	<0.1	<0.1	<0.1
HEPTACHLOR	8081A	µg/L	0.05	<0.05	<0.05	<0.05
HEPTACHLOR EPOXIDE	8081A	µg/L	0.05	<0.05	<0.05	<0.05
METHOXYCHLOR	8081A	µg/L	2	<2	<2	<2
TOXAPHENE	8081A	µg/L	5	<5	<5	<5
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/L	1	<1	<1	<1
PCB-1221 (AROCLOR 1221)	8082	µg/L	2	<2	<2	<2
PCB-1232 (AROCLOR 1232)	8082	µg/L	1	<1	<1	<1
PCB-1242 (AROCLOR 1242)	8082	µg/L	1	<1	<1	<1
PCB-1248 (AROCLOR 1248)	8082	µg/L	1	<1	<1	<1
PCB-1254 (AROCLOR 1254)	8082	µg/L	1	<1	<1	<1
PCB-1260 (AROCLOR 1260)	8082	µg/L	1	<1	<1	<1

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0070	098-0071	098-0072
				01-07729-4	01-07729-5	01-07729-6
Dilution Factor				1	1	1
Lead, Pb,	6010B	µg/L	5	61.5	38.3	49.6
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/L	0.05	<0.05	<0.05	<0.05
BETA BHC	8081A	µg/L	0.05	<0.05	<0.05	<0.05
ALPHA BHC	8081A	µg/L	0.05	<0.05	<0.05	<0.05
DELTA BHC	8081A	µg/L	0.05	<0.05	<0.05	<0.05
GAMMA BHC (LINDANE)	8081A	µg/L	0.05	<0.05	<0.05	<0.05
ALPHA-CHLORDANE	8081A	µg/L	0.05	<0.05	<0.05	<0.05
GAMMA-CHLORDANE	8081A	µg/L	0.05	<0.05	<0.05	<0.05
P,P'-DDD	8081A	µg/L	0.1	<0.1	<0.1	<0.1
P,P'-DDE	8081A	µg/L	0.1	<0.1	<0.1	<0.1
P,P'-DDT	8081A	µg/L	0.1	<0.1	<0.1	<0.1
DIELDRIN	8081A	µg/L	0.1	0.03J	0.02J	0.02J
ALPHA ENDOSULFAN	8081A	µg/L	0.05	<0.05	<0.05	<0.05
BETA ENDOSULFAN	8081A	µg/L	0.1	<0.1	<0.1	<0.1
ENDOSULFAN SULFATE	8081A	µg/L	0.5	<0.5	<0.5	<0.5
ENDRIN	8081A	µg/L	0.1	<0.1	<0.1	<0.1
ENDRIN ALDEHYDE	8081A	µg/L	0.1	<0.1	<0.1	<0.1
ENDRIN KETONE	8081A	µg/L	0.1	<0.1	<0.1	<0.1
HEPTACHLOR	8081A	µg/L	0.05	<0.05	<0.05	<0.05
HEPTACHLOR EPOXIDE	8081A	µg/L	0.05	<0.05	<0.05	<0.05
METHOXYCHLOR	8081A	µg/L	2	<2	<2	<2
TOXAPHENE	8081A	µg/L	5	<5	<5	<5
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/L	1	<1	<1	<1
PCB-1221 (AROCLOR 1221)	8082	µg/L	2	<2	<2	<2
PCB-1232 (AROCLOR 1232)	8082	µg/L	1	<1	<1	<1
PCB-1242 (AROCLOR 1242)	8082	µg/L	1	<1	<1	<1
PCB-1248 (AROCLOR 1248)	8082	µg/L	1	<1	<1	<1
PCB-1254 (AROCLOR 1254)	8082	µg/L	1	<1	<1	<1
PCB-1260 (AROCLOR 1260)	8082	µg/L	1	<1	<1	<1

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

II . Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				098-00756 01-07729-7
Moisture	ASTM-D2216	%Moisture	0.5	23.2
Dilution Factor				5
Lead, Pb,	6010B	mg/kg	0.3	594

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,



Dominic Lau

Laboratory Director

Applied P & Ch Laboratory

Confirmation Soil Sampling Results (First Excavation)



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 546357
Page 1 of 2

Project Name/No. 1 Alameda CTO-13 Samples Shipment Date 7 2/13/2002
 Sample Team Members 2 T. Ault, R. Gonzalez Lab Destination 8 APCZ
 Profit Center No. 3 Lab Contact 9 HSIN Y. LOE
 Project Manager 4 PAUL SHAFER Project Contact/Phone 12 JD LENSEN
 Purchase Order No. 6 Trade # B0718-033 Carrier/Waybill No. 13 8291 9599 0739
 Required Report Date 11

Bill to: 5 JTC Corp -
4005 East Chicago Highway
Concord CA 94520
 Report to: 10 J.D. Lensen
4005 East Chicago Highway
Concord CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
098-0078	Confirmatory Soil 1 ft depth - West side	02/13/2002 11:09	Amber Glass	8oz 3ct	4°C	Pest/PCB EPA8081A/1 8082, LEAD EPA 6010B		
098-0078ms/msd	matrix spike/ matrix spike dup.	02/13/2002 11:43					FOR LAB USE ONLY	
098-0079	Confirmatory Soil 1ft depth - South side	02/13/2002 11:15					FOR LAB USE ONLY	
098-0080	Confirmatory Soil 1ft. depth East side	02/13/2002 11:18					FOR LAB USE ONLY	
098-0081	Confirmatory Soil 1 ft depth - North side	02/13/2002 11:22					FOR LAB USE ONLY	
098-0082	Confirmatory Soil 1ft. depth, North west bottom	02/13/2002 11:30					FOR LAB USE ONLY	
098-0083	Confirmatory Soil 1ft depth Southeast bottom	02/13/2002 11:32					FOR LAB USE ONLY	
098-0084	Confirmatory Soil Surface, Perimeter North G'	02/13/2002 11:56				Lead - EPA 6010 B ①		

Special Instructions: ²³ ① Composite at Lab.

Possible Hazard Identification: ²⁴
 Non-hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: ²⁵
 Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: ²⁶
 Normal Rush 5 DAY
 GC Level: ²⁷
 I. II. III. Project Specific (specify): See PAW

1. Relinquished by ²⁸ <u>T. Ault</u> (Signature/Affiliation) <u>JTC Corp</u> Date: <u>2-14-2002</u> Time: <u>14:00</u>	1. Received by ²⁸ _____ (Signature/Affiliation) _____ Date: <u>2/15/2</u> Time: <u>0930</u>
2. Relinquished by (Signature/Affiliation) _____ Date: _____ Time: _____	2. Received by (Signature/Affiliation) _____ Date: _____ Time: _____
3. Relinquished by (Signature/Affiliation) _____ Date: _____ Time: _____	3. Received by (Signature/Affiliation) _____ Date: _____ Time: _____

Comments: ²⁹

* See back of form for special instructions.
 Yellow: Field copy



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.³⁰ 546357
Page 2 of 2

Project Name Alameda CTO-13

Project No. 207181

Samples Shipment Date 2-14-2002

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre-19 servative	Requested Testing Program 20	Condition on 21 Receipt	Disposal 22 Record No.
098-0085	Confirmatory Soil Surface, North Perimeter 3'	02/13/2002 11:59	Am by 01455	8oz 3oz	4°C	LCAD EPA 6010 B		
098-0085 ms/msd	Matrix Spike / Matrix Spike Dup	02/13/2002 12:34					FOR LAB USE ONLY	
098-0086	Confirmatory Soil, Surface Perimeter East 3ft	02/13/2002 12:09						
098-0087	Confirmatory Soil, Surface Perimeter East 6ft	02/13/2002 12:08					FOR LAB USE ONLY	
098-0088	Confirmatory Soil, Surface Perimeter South 3ft	02/13/2002 12:13						
098-0089	Confirmatory Soil, Surface Perimeter South 6ft	02/13/2002 12:15					FOR LAB USE ONLY	
098-0090	Confirmatory Soil 1ft, Northwest Bottom	02/13/2002 11:38				Pest/PCB 8081A/8082 Lead 6010 B		
098-0091	Confirmatory Soil, Surface Perimeter North 3ft	02/13/2002 12:29				LCAD EPA 6010 B	FOR LAB USE ONLY	
098-0092	Waste Sample Lead Soil bins	02/13/2002 14:35		8oz 4oz		Pest/PCB 8081A/8082 Total Metals/EPA 6010 B		
098-0093	Waste Sample Lead Soil bins	02/13/2002 14:40		8oz 4oz		Pest/PCB 8081A/8082 Total Metals/EPA 6010 B	FOR LAB USE ONLY	
Temp blank	Temp Blank	02/13/2002	Waste 604	1oz 4oz	4°C	NONE		
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	

White: To accompany samples

Yellow: Field copy

* See back of form for special instructions.

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: J.D. Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-021634 Received: 02/15/02
Collected by: T. Ault/R. Gonzalas Extracted: 02/18/02
Collected on: 02/13/02 Tested: 02/15-19/02
Reported: 02/20/02
Sample Description: Soil
Project Description: 807181 Alameda CTO 13

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0079	098-0080	098-0081	098-0082
				02-01634-2	02-01634-3	02-01634-4	02-01634-5
Moisture	ASTM-D2216	%Moisture	0.5	8.5	7.6	12.3	6.9
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	32.4	24.0	36.4	5.0

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0083	098-0084	098-0086	098-0087
				02-01634-6	02-01634-7	02-01634-9	02-01634-10
Moisture	ASTM-D2216	%Moisture	0.5	7.6	6.7	7.7	8.0
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	13.8	23.9	17.1	33.6

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0088	098-0089	098-0090	098-0091
				02-01634-11	02-01634-12	02-01634-13	02-01634-14
Moisture	ASTM-D2216	%Moisture	0.5	11.2	11.2	8.1	9.4
Lead, Pb,	6010B	mg/kg	0.3	49.2	36.5	7.4	40.8

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0092	098-0093	098-0078	098-0085
				02-01634-15	02-01634-16	02-01634-17	02-01634-18
Moisture	ASTM-D2216	%Moisture	0.5	12.9	12.5	9.4	10.5
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	-	-	28.3	38.2

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0079	098-0080	098-0081
				02-01634-2	02-01634-3	02-01634-4
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
BETA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
ALPHA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
DELTA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.1	1J	1J
P,P'-DDD	8081A	µg/kg	3	0.4J	1J	2J
P,P'-DDE	8081A	µg/kg	3	0.7J	2J	1J
P,P'-DDT	8081A	µg/kg	3	0.8J	6.9	4
DIELDRIN	8081A	µg/kg	3	<3.3	80	3J
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
BETA ENDOSULFAN	8081A	µg/kg	3	<3.3	<3.2	<3.4
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.5	<5.4	<5.7
ENDRIN	8081A	µg/kg	3	<3.3	<3.2	<3.4
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.3	<3.2	<3.4
ENDRIN KETONE	8081A	µg/kg	2	<2.2	<2.2	<2.3
HEPTACHLOR	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
METHOXYCHLOR	8081A	µg/kg	10	<11	<11	<11
TOXAPHENE	8081A	µg/kg	100	<110	<110	<110
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<36	<36	<38
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<72	<71	<75
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<36	<36	<38
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<36	<36	<38
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<36	<36	<38
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<36	<36	<38
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	10J (a)	58 (a)	26J (a)

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0082	098-0083	098-0090
				02-01634-5	02-01634-6	02-01634-13
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
BETA BHC	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
ALPHA BHC	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
DELTA BHC	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1	<1.1
P,P'-DDD	8081A	µg/kg	3	<3.2	0.5J	<3.3
P,P'-DDE	8081A	µg/kg	3	<3.2	0.4J	<3.3
P,P'-DDT	8081A	µg/kg	3	0.3J	6	1J
DIELDRIN	8081A	µg/kg	3	11	6.8	5
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
BETA ENDOSULFAN	8081A	µg/kg	3	<3.2	<3.2	<3.3
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.4	<5.4	<5.4
ENDRIN	8081A	µg/kg	3	<3.2	<3.2	<3.3
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.2	<3.2	<3.3
ENDRIN KETONE	8081A	µg/kg	2	<2.1	<2.2	<2.2
HEPTACHLOR	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
METHOXYCHLOR	8081A	µg/kg	10	<11	<11	<11
TOXAPHENE	8081A	µg/kg	100	<110	<110	<110
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<35	<36	<36
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<71	<71	<72
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<35	<36	<36
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<35	<36	<36
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<35	<36	<36
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<35	<36	<36
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	6J (a)	64 (a)	14J (a)

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0092 02-01634-15	098-0093 02-01634-16	098-0078 02-01634-17
Metals						
Dilution Factor				1	1	1
ANTIMONY	6010B	mg/kg	5	<5.7	0.78J	-
ARSENIC	6010B	mg/kg	0.3	4.5	5.7	-
BARIUM	6010B	mg/kg	1	70.1	98.0	-
BERYLLIUM	6010B	mg/kg	0.2	<0.23	<0.23	-
CADMIUM	6010B	mg/kg	0.2	0.51	0.66	-
CHROMIUM	6010B	mg/kg	0.5	37.1	60.6	-
COBALT	6010B	mg/kg	0.5	7.3	8.9	-
COPPER	6010B	mg/kg	0.5	15.9	18.4	-
LEAD	6010B	mg/kg	0.3	36.8	203	-
MERCURY	7471A	mg/kg	0.2	0.094J	0.068J	-
MOLYBDENUM	6010B	mg/kg	0.2	<0.23	<0.23	-
NICKEL	6010B	mg/kg	0.3	31.5	54.4	-
SELENIUM	6010B	mg/kg	0.5	<0.57	<0.57	-
SILVER	6010B	mg/kg	0.5	<0.57	<0.57	-
THALLIUM	6010B	mg/kg	0.5	<0.57	<0.57	-
VANADIUM	6010B	mg/kg	0.5	23.8	24.7	-
ZINC	6010B	mg/kg	0.5	84.6	248	-
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
BETA BHC	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
ALPHA BHC	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
DELTA BHC	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	3.0	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	2	2.8	<1.1
P,P'-DDD	8081A	µg/kg	3	1J	5	0.7J
P,P'-DDE	8081A	µg/kg	3	2J	5	1J
P,P'-DDT	8081A	µg/kg	3	9.2	14	5
DIELDRIN	8081A	µg/kg	3	13	6	44
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
BETA ENDOSULFAN	8081A	µg/kg	3	<3.4	<3.4	<3.3
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.7	<5.7	<5.5
ENDRIN	8081A	µg/kg	3	<3.4	<3.4	<3.3
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.4	<3.4	<3.3
ENDRIN KETONE	8081A	µg/kg	2	<2.3	<2.3	<2.2
HEPTACHLOR	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
METHOXYCHLOR	8081A	µg/kg	10	<11	<11	<11
TOXAPHENE	8081A	µg/kg	100	<110	<110	<110

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0092	098-0093	098-0078
				02-01634-15	02-01634-16	02-01634-17
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	< 76	< 75	< 73
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	140 (a)	58 (a)	65 (a)

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

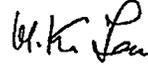
J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Presence of PCB may cause false positives in pesticides chromatogram.

Respectfully submitted,



Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

APCL Analytical Report

Submitted to:
The IT Group
Attention: J.D. Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-021713 Received: 02/15/02
Collected by: T. Ault/R.Gonzalas Extracted: 2/22/02
Collected on: 02/13/02 Tested: 02/22-25/02
Reported: 02/26/02
Sample Description: Soil
Project Description: 807181 Alameda CTO 13

Analysis of Soil Samples ^(a)

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0078A 02-01713-1	098-0078B 02-01713-2	098-0078C 02-01713-3
Moisture, percent	ASTM-D2216	%Moisture	0.5	11.4	10	8.2
Dilution Factor				1	1	1
DIELDRIN	8081A	µg/kg	3	56 ^(b)	51 ^(b)	31 ^(b)

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0080A 02-01713-4	098-0080B 02-01713-5	098-0080C 02-01713-6
Moisture	ASTM-D2216	%Moisture	0.5	8.1	6.9	13.5
Dilution Factor				10	1	1
DIELDRIN	8081A	µg/kg	3	180 ^(b)	13 ^(b)	14 ^(b)

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

^(a) Additional analysis requested on 2/22/02.

^(b) Presence of PCB may cause false positives in pesticides chromatogram.

Respectfully submitted,



Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: JD Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-021787 Received: 02/28/02
Collected by: T. Ault/R. Gonzales Extracted: 03/01-05/02
Collected on: 02/21/02 Tested: 02/28-03/08/02
Reported: 03/08/02
Sample Description: Soil
Project Description: Alameda

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0094 02-01787-1	098-0095 02-01787-2	098-0096 02-01787-3
PERCENT MOISTURE	ASTM-D2216	W%	0.5	4.5	8.3	31.0
Dilution Factor				1	1	1
LEAD, PB,	6010B	mg/kg	0.3	124	156	77.8
ORGANOCHLORINE PESTICIDES						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1	<1.0	<1.1	<1.4
BETA-BHC	8081A	µg/kg	1	<1.0	<1.1	<1.4
ALPHA-BHC	8081A	µg/kg	1	<1.0	<1.1	<1.4
DELTA-BHC	8081A	µg/kg	1	<1.0	<1.1	<1.4
GAMMA-BHC (LINDANE)	8081A	µg/kg	1	<1.0	<1.1	<1.4
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.0	<1.1	<1.4
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.0	<1.1	<1.4
4,4'-DDD	8081A	µg/kg	2	<2.1	<2.2	<2.9
4,4'-DDE	8081A	µg/kg	2	<2.1	<2.2	<2.9
4,4'-DDT	8081A	µg/kg	2	<2.1	<2.2	<2.9
DIELDRIN	8081A	µg/kg	2	<2.1	<2.2	<2.9
ENDOSULFAN I	8081A	µg/kg	1	<1.0	<1.1	<1.4
ENDOSULFAN II	8081A	µg/kg	2	<2.1	<2.2	<2.9
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.2	<5.5	<7.2
ENDRIN	8081A	µg/kg	2	<2.1	<2.2	<2.9
ENDRIN ALDEHYDE	8081A	µg/kg	2	<2.1	<2.2	<2.9
ENDRIN KETONE	8081A	µg/kg	2	<2.1	<2.2	<2.9
HEPTACHLOR	8081A	µg/kg	1	<1.0	<1.1	<1.4
HEPTACHLOR EPOXIDE	8081A	µg/kg	1	<1.0	<1.1	<1.4
METHOXYCHLOR	8081A	µg/kg	10	<10	<11	<14
TOXAPHENE	8081A	µg/kg	100	<100	<110	<140
PCBS						
Dilution Factor				1	1	1
AROCLOR-1016	8082	µg/kg	50	<52	<55	<72
AROCLOR-1221	8082	µg/kg	100	<100	<110	<140
AROCLOR-1232	8082	µg/kg	50	<52	<55	<72
AROCLOR-1242	8082	µg/kg	50	<52	<55	<72

AROCLOR-1248	8082	μg/kg	50	<52	<55	<72
AROCLOR-1254	8082	μg/kg	25	<26	<27	<36
AROCLOR-1260	8082	μg/kg	25	340	220	160

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0097 02-01787-4	098-0098 02-01787-5	098-0099 02-01787-6
PERCENT MOISTURE	ASTM-D2216	W%	0.5	34.1	35.7	45.7
LEAD, PB,	6010B	mg/kg	0.3	113	68.9	144
ORGANOCHLORINE PESTICIDES						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1	<1.5	<1.6	<1.8
BETA-BHC	8081A	µg/kg	1	<1.5	<1.6	<1.8
ALPHA-BHC	8081A	µg/kg	1	<1.5	<1.6	<1.8
DELTA-BHC	8081A	µg/kg	1	<1.5	<1.6	<1.8
GAMMA-BHC (LINDANE)	8081A	µg/kg	1	<1.5	<1.6	<1.8
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.5	<1.6	<1.8
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.5	<1.6	<1.8
4,4'-DDD	8081A	µg/kg	2	<3.0	<3.1	<3.7
4,4'-DDE	8081A	µg/kg	2	<3.0	<3.1	<3.7
4,4'-DDT	8081A	µg/kg	2	<3.0	<3.1	<3.7
DIELDRIN	8081A	µg/kg	2	<3.0	<3.1	<3.7
ENDOSULFAN I	8081A	µg/kg	1	<1.5	<1.6	<1.8
ENDOSULFAN II	8081A	µg/kg	2	<3.0	<3.1	<3.7
ENDOSULFAN SULFATE	8081A	µg/kg	5	<7.6	<7.8	<9.2
ENDRIN	8081A	µg/kg	2	<3.0	<3.1	<3.7
ENDRIN ALDEHYDE	8081A	µg/kg	2	<3.0	<3.1	<3.7
ENDRIN KETONE	8081A	µg/kg	2	<3.0	<3.1	<3.7
HEPTACHLOR	8081A	µg/kg	1	<1.5	<1.6	<1.8
HEPTACHLOR EPOXIDE	8081A	µg/kg	1	<1.5	<1.6	<1.8
METHOXYCHLOR	8081A	µg/kg	10	<15	<16	<18
TOXAPHENE	8081A	µg/kg	100	<150	<160	<180
PCBS						
Dilution Factor				1	1	1
AROCLOR-1016	8082	µg/kg	50	<76	<78	<92
AROCLOR-1221	8082	µg/kg	100	<150	<160	<180
AROCLOR-1232	8082	µg/kg	50	<76	<78	<92
AROCLOR-1242	8082	µg/kg	50	<76	<78	<92
AROCLOR-1248	8082	µg/kg	50	<76	<78	<92
AROCLOR-1254	8082	µg/kg	25	<38	<39	<46
AROCLOR-1260	8082	µg/kg	25	240	130	180

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Sample duplicates were composited before analysis.

Respectfully submitted,


 Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

Confirmation Soil Sampling Results (Second Excavation)



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No. 546350
Page 1 of 1

Project Name/No. 1 Alameda CTO-13
Sample Team Members 2 Ault
Profit Center No. 3
Project Manager 4 Don Shafer
Purchase Order No. 6 Trade # 607191-033
Required Report Date 11 4-5-2002

Samples Shipment Date 7 3-28-2002
Lab Destination 8 APCL
Lab Contact 9 HSUN J. Lee
Project Contact/Phone 12 JD Lensen
Carrier/Waybill No. 13 8291 9599 0820

Bill to: 5 IT Corp
4005 Port Chicago Highway
Concord, CA 94520
Report to: 10 JD Lensen
4005 Port Chicago Highway
Concord, CA 94520

ONE CONTAINER PER LINE

Sample Number	Sample Description/Type	Date/Time Collected	Container Type	Sample Volume	Prior Service	Requested Testing Program	Condition on Receipt	Disposal Record No.
09B-0100	Confirmatory Soil composite, side, north of 210	3-28-2002 11:38	Amber 9192	304 403	400	Res/PCB, EPA 8081A/1 EPA 821, Lead EPA 6010 B		
09B-0101	Confirmatory Soil composite, base, west of 210	3-28-2002 11:41					FOR LAB USE ONLY	
09B-0102	Confirmatory Soil composite base east of 210	3-28-2002 11:45						
09B-0103	Confirmatory Soil composite side of 210	3-28-2002 11:48					FOR LAB USE ONLY	
09B-0104	Confirmatory Soil composite base west of 210	3-28-2002 11:51						
Temp Blank	Temp Blank CTO-13 3-28-02			100	40	NA		

COPY

Special Instructions: 23 1 composite at lab.

Possible Hazard Identification: 24
Non-hazard Flammable Skin Irritant Poison B Unknown
Sample Disposal: 25
Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: 26
Normal Rush 5 DAY
QC Level: 27
I II III Project Specific (specify): See PAM

1. Relinquished by <u>28</u> (Signature/Affiliation) <u>T Shafer</u>	Date: <u>10:20</u> Time: <u>3-28-02</u>	1. Received by <u>28</u> (Signature/Affiliation)	Date: _____ Time: _____
2. Relinquished by (Signature/Affiliation)	Date: _____ Time: _____	2. Received by (Signature/Affiliation)	Date: _____ Time: _____
3. Relinquished by (Signature/Affiliation)	Date: _____ Time: _____	3. Received by (Signature/Affiliation)	Date: _____ Time: _____

Comments: 29

White: To accompany samples
Yellow: Field Copy
SHAW E & L, INC.
*Set back of form for special instructions.
10/14/00Z 10:34 FAX 925288888
006

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1628 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: JD Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925) 288-9898 Fax: (925) 827-5927

Service ID #: 801-022214
Collected by: Ault
Collected on: 03/28/02
Received: 03/29/02
Extracted: 03/29/02
Tested: 03/29-04/01/02
Reported: 04/01/02

Sample Description: Soil
Project Description: Alameda CTO 13

Analysis of Soil Samples (a)

Component Analyzed	Method	Unit	PQL	Analysis Result	
				098-0100	098-0101
				02-02214-1	02-02214-2
MOISTURE	ASTM-D2216	%Moisture	0.5	8.0	8.2
Dilution Factor				1	1
LEAD	6010B	mg/kg	0.3	23.4	6.8
ORGANOCHLORINE PESTICIDES					
Dilution Factor				1	1
ALDRIN	8081A	µg/kg	1.7	<1.8	<1.9
BETA BHC	8081A	µg/kg	1.7	<1.8	<1.9
ALPHA BHC	8081A	µg/kg	1.7	<1.8	<1.9
DELTA BHC	8081A	µg/kg	1.7	<1.8	<1.9
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<1.8	<1.9
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1
P,P'-DDD	8081A	µg/kg	3	<3.3	<3.3
P,P'-DDE	8081A	µg/kg	3	<3.3	<3.3
P,P'-DDT	8081A	µg/kg	3	<3.3	<3.3
DIELDRIN	8081A	µg/kg	3	<3.3	<3.3
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<1.8	<1.9
BETA ENDOSULFAN	8081A	µg/kg	3	<3.3	<3.3
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.4	<5.4
ENDRIN	8081A	µg/kg	3	<3.3	<3.3
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.3	<3.3
ENDRIN KETONE	8081A	µg/kg	2	<2.2	<2.2
HEPTACHLOR	8081A	µg/kg	1.7	<1.8	<1.9
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<1.8	<1.9
METHOXYCHLOR	8081A	µg/kg	10	<11	<11
TOXAPHENE	8081A	µg/kg	100	<110	<110
PCBS					
Dilution Factor				1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<36	<36
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<72	<72
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<36	<36
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<36	<36
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<36	<36
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<36	<36
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	82	44

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0102 02-02214-3	098-0103 02-02214-4	098-0104 02-02214-5
MOISTURE	ASTM-D2216	%Moisture	0.5	8.6	5.4	6.5
Dilution Factor				1	1	1
LEAD	6010B	mg/kg	0.3	2.6	4.5	4.5
ORGANOCHLORINE PESTICIDES						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1.7	<1.9	<1.8	<1.8
BETA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.8
ALPHA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.8
DELTA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.8
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<1.9	<1.8	<1.8
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1	<1.1
P,P'-DDD	8081A	µg/kg	3	<3.3	<3.2	<3.2
P,P'-DDE	8081A	µg/kg	3	<3.3	<3.2	<3.2
P,P'-DDT	8081A	µg/kg	3	<3.3	<3.2	<3.2
DIELDRIN	8081A	µg/kg	3	<3.3	<3.2	<3.2
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<1.9	<1.8	<1.8
BETA ENDOSULFAN	8081A	µg/kg	3	<3.3	<3.2	<3.2
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.5	<5.3	<5.3
ENDRIN	8081A	µg/kg	3	<3.3	<3.2	<3.2
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.3	<3.2	<3.2
ENDRIN KETONE	8081A	µg/kg	2	<2.2	<2.1	<2.1
HEPTACHLOR	8081A	µg/kg	1.7	<1.9	<1.8	<1.8
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<1.9	<1.8	<1.8
METHOXYCHLOR	8081A	µg/kg	10	<11	<11	<11
TOXAPHENE	8081A	µg/kg	100	<110	<110	<110
PCBS						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<36	<35	<35
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<72	<70	<71
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<36	<35	<35
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<36	<35	<35
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<36	<35	<35
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<36	<35	<35
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	<36	<35	<35

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

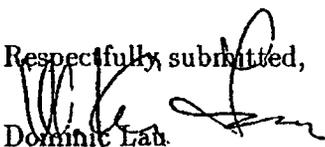
J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Sample duplicates were composited before analysis.

Respectfully submitted,


 Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

Waste Soil Profile Analyses
(samples 098-0092 and 098-0093 only)



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 546357
Page 1 of 2

T-066 P.002/004 F-936

Project Name/No. 1 Alameda CID-13 Samples Shipment Date ^{14 104} 7 2/18/2002
 Sample Team Members 2 T. A. H. R. Gargalas Lab Destination 8 APC
 Profit Center No. 3 Lab Contact 9 Henry Y. Lee
 Project Manager 4 Dan Skalen Project Contact/Phone 12 J.D. Lennon
 Purchase Order No. 6 Track # 207187-033 Carrier/Waybill No. 13 8291 7599 0739
 Required Report Date 11

Bill to: 5 ITC Corp -
4075 Hill Street, Berkeley, CA 94702
 Report to: 10 J.D. Lennon
4075 Hill Street, Berkeley, CA 94702

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
093-0078	Confirmatory Soil 1 ft depth - West side	02/13/2002 11:09	Amber Glass	80g 30A	4°C	Pcs/PCB BPA80819/L B242, Lead EPA 6010 B		
093-0078 ^{MSD}	matrix spike/ matrix spike dup.	02/13/2002 11:43					FOR LAB USE ONLY	
093-0077	Confirmatory Soil 1 ft depth - South side	02/13/2002 11:15						
093-0080	Confirmatory Soil 1 ft depth East side	02/13/2002 11:18						
093-0081	Confirmatory Soil 1 ft depth North side	02/13/2002 11:20						
093-0082	Confirmatory Soil 1 ft depth North side	02/13/2002 11:30					FOR LAB USE ONLY	
093-0083	Confirmatory Soil 1 ft depth Southeast, balcony	02/13/2002 11:32						
093-0084	Confirmatory Soil Surface, Perimeter North, 6'	02/13/2002 11:56				Lead - EPA 6010 B (1)		

COPY

Special Instructions: ²³ (1) Composite at Lab.

Possible Hazard Identification: ²⁴
 Non-hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: ²⁵
 Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: ²⁶
 Normal Rush 5 day
 GC Level: ²⁷
 I II III Project Specific (specify): See PAVA

1. Relinquished by ²⁸ <u>T. A. H. R. Gargalas</u> (Signature/Affiliation) Date: <u>2-14-2002</u> Time: <u>14:00</u>	1. Received by ²⁹ (Signature/Affiliation) Date: _____ Time: _____
2. Relinquished by (Signature/Affiliation) Date: _____ Time: _____	2. Received by (Signature/Affiliation) Date: _____ Time: _____
3. Relinquished by (Signature/Affiliation) Date: _____ Time: _____	3. Received by (Signature/Affiliation) Date: _____ Time: _____

Comments: ²⁹

From 16:05 Feb-21-02

White: To accompany samples
Yellow: Field copy
* See back of form for special instructions.



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No. 30 546357
Page 2 of 2

Alameda CTO-13

Project No. 207101

Samples Shipment Date 2-14-2002

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre-19 preservative	Requested Testing Program 20	Condition on 21 Receipt	Disposal 22 Record No.
098-0085	Confirmatory Soil Surface North Perimeter 2'	2/13/2002 11:59	Amber glass	8oz 3oz	4°C	LOAD EPA 6010B		
098-0085	Initial Spike / Filter Spike Dup	02/13/2002 12:34					FOR LAB USE ONLY	
098-0086	Confirmatory Soil Surface Perimeter East 3 ft	02/13/2002 12:09					FOR LAB USE ONLY	
098-0087	Confirmatory Soil Surface Perimeter East 6 ft	02/13/2002 12:18					FOR LAB USE ONLY	
098-0088	Confirmatory Soil Surface Perimeter South 3 ft	02/13/2002 12:13					FOR LAB USE ONLY	
098-0089	Confirmatory Soil Surface Perimeter South 6 ft	02/13/2002 12:15					FOR LAB USE ONLY	
098-0090	Confirmatory Soil 1 ft Northwest Bottom	02/13/2002 11:58				Per/PCB 8081A/8082 1-0 6010B	FOR LAB USE ONLY	
098-0091	Confirmatory Soil Surface Perimeter North 7'	02/13/2002 12:29				ADSDA 6010B	FOR LAB USE ONLY	
098-0092	WASTE Sample (res) AB Soil 6015	02/13/2002 14:35		1003 102		Per/PCB 8081A/8082 Total Metals EPA 6010B	FOR LAB USE ONLY	
098-0093	Waste Sample Soil 6015	02/13/2002 14:40		301 402		Per/PCB 8081A/8082 Total Metals EPA 6010B	FOR LAB USE ONLY	
Temp blank	Temp Blank	02/13/2002	White W03	1.24 103016	4°C	NO USE		
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	

COPY

Writer: To accompany samples

Yellow: Field copy

*See back of form for special instructions.

F-936

T-066 P.004/004

From

16:06

Feb-21-02

APCL Analytical Report

Submitted to:
 The IT Group
 Attention: J.D. Lenzen
 4005 Port Chicago Highway
 Concord CA 94520-1120
 Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-021634 Received: 02/15/02
 Collected by: T. Ault/R. Gonzales Extracted: 02/18/02
 Collected on: 02/13/02 Tested: 02/15-19/02
 Reported: 02/20/02
 Sample Description: Soil
 Project Description: 807181 Alameda CTO 13

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0079 02-01634-2	098-0080 02-01634-3	098-0081 02-01634-4	098-0082 02-01634-5
Moisture	ASTM-D2216	%Moisture	0.5	8.5	7.6	12.3	8.9
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	32.4	24.0	36.4	5.0

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0083 02-01634-6	098-0084 02-01634-7	098-0086 02-01634-9	098-0087 02-01634-10
Moisture	ASTM-D2216	%Moisture	0.5	7.5	6.7	7.7	8.0
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	13.8	23.9	17.1	33.6

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0088 02-01634-11	098-0089 02-01634-12	098-0090 02-01634-13	098-0091 02-01634-14
Moisture	ASTM-D2216	%Moisture	0.5	11.2	11.2	8.1	8.4
Lead, Pb,	6010B	mg/kg	0.3	49.2	36.5	7.4	40.8

Component Analyzed	Method	Unit	PQL	Analysis Result			
				098-0092 02-01634-15	098-0093 02-01634-16	098-0078 02-01634-17	098-0085 02-01634-18
Moisture	ASTM-D2216	%Moisture	0.5	12.9	12.5	9.4	11.5
Dilution Factor				1	1	1	1
Lead, Pb,	6010B	mg/kg	0.3	-	-	28.3	38.2

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0079	098-0080	098-0081
				02-01634-2	02-01634-3	02-01634-4
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
BETA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
ALPHA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
DELTA BHC	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.1	1J	1J
P,P'-DDD	8081A	µg/kg	3	0.4J	1J	2J
P,P'-DDE	8081A	µg/kg	3	0.7J	2J	1J
P,P'-DDT	8081A	µg/kg	3	0.8J	6.9	4
DIELDRIN	8081A	µg/kg	3	<3.3	80	3J
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
BETA ENDOSULFAN	8081A	µg/kg	3	<3.3	<3.2	<3.4
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.5	<5.4	<5.7
ENDRIN	8081A	µg/kg	3	<3.3	<3.2	<3.4
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.3	<3.2	<3.4
ENDRIN KETONE	8081A	µg/kg	2	<2.2	<2.2	<2.3
HEPTACHLOR	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<1.9	<1.8	<1.9
METHOXYCHLOR	8081A	µg/kg	10	<11	<11	<11
TOXAPHENE	8081A	µg/kg	100	<110	<110	<110
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<36	<36	<38
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<72	<71	<75
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<36	<36	<38
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<36	<36	<38
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<36	<36	<38
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<36	<36	<38
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	10J (a)	58 (a)	26J (a)

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0082	098-0083	098-0090
				02-01634-5	02-01634-6	02-01634-13
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
BETA BHC	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
ALPHA BHC	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
DELTA BHC	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	<1.1	<1.1	<1.1
P,P'-DDD	8081A	µg/kg	3	<3.2	0.5J	<3.3
P,P'-DDE	8081A	µg/kg	3	<3.2	0.4J	<3.3
P,P'-DDT	8081A	µg/kg	3	0.3J	6	1J
DIELDRIN	8081A	µg/kg	3	11	6.8	5
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
BETA ENDOSULFAN	8081A	µg/kg	3	<3.2	<3.2	<3.3
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.4	<5.4	<5.4
ENDRIN	8081A	µg/kg	3	<3.2	<3.2	<3.3
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.2	<3.2	<3.3
ENDRIN KETONE	8081A	µg/kg	2	<2.1	<2.1	<2.2
HEPTACHLOR	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<1.8	<1.8	<1.8
METHOXYCHLOR	8081A	µg/kg	10	<11	<11	<11
TOXAPHENE	8081A	µg/kg	100	<110	<110	<110
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<35	<36	<36
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<71	<71	<72
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<35	<36	<36
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<35	<36	<36
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<35	<36	<36
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<35	<36	<36
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	6J (a)	64 (a)	14J (a)

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0092 02-01634-15	098-0093 02-01634-16	098-0078 02-01634-17
Metals						
Dilution Factor				1	1	1
ANTIMONY	6010B	mg/kg	5	<5.7	0.78J	-
ARSENIC	6010B	mg/kg	0.3	4.5	5.7	-
BARIUM	6010B	mg/kg	1	70.1	98.0	-
BERYLLIUM	6010B	mg/kg	0.2	<0.23	<0.23	-
CADMIUM	6010B	mg/kg	0.2	0.51	0.66	-
CHROMIUM	6010B	mg/kg	0.5	37.1	60.6	-
COBALT	6010B	mg/kg	0.5	7.3	8.9	-
COPPER	6010B	mg/kg	0.5	15.9	18.4	-
LEAD	6010B	mg/kg	0.3	36.8	203	-
MERCURY	7471A	mg/kg	0.2	0.094J	0.068J	-
MOLYBDENUM	6010B	mg/kg	0.2	<0.23	<0.23	-
NICKEL	6010B	mg/kg	0.3	31.5	54.4	-
SELENIUM	6010B	mg/kg	0.5	<0.57	<0.57	-
SILVER	6010B	mg/kg	0.5	<0.57	<0.57	-
THALLIUM	6010B	mg/kg	0.5	<0.57	<0.57	-
VANADIUM	6010B	mg/kg	0.5	23.8	24.7	-
ZINC	6010B	mg/kg	0.5	84.6	248	-
Organochlorine pesticides						
Dilution Factor				1	1	1
ALDRIN	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
BETA BHC	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
ALPHA BHC	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
DELTA BHC	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
ALPHA-CHLORDANE	8081A	µg/kg	1	<1.1	3.0	<1.1
GAMMA-CHLORDANE	8081A	µg/kg	1	2	2.8	<1.1
P,P'-DDD	8081A	µg/kg	3	1J	5	0.7J
P,P'-DDE	8081A	µg/kg	3	2J	5	1J
P,P'-DDT	8081A	µg/kg	3	9.2	14	5
DIELDRIN	8081A	µg/kg	3	13	6	44
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
BETA ENDOSULFAN	8081A	µg/kg	3	<3.4	<3.4	<3.3
ENDOSULFAN SULFATE	8081A	µg/kg	5	<5.7	<5.7	<5.5
ENDRIN	8081A	µg/kg	3	<3.4	<3.4	<3.3
ENDRIN ALDEHYDE	8081A	µg/kg	3	<3.4	<3.4	<3.3
ENDRIN KETONE	8081A	µg/kg	2	<2.3	<2.3	<2.2
HEPTACHLOR	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	<2.0	<1.9	<1.9
METHOXYCHLOR	8081A	µg/kg	10	<11	<11	<11
TOXAPHENE	8081A	µg/kg	100	<110	<110	<110

Component Analyzed	Method	Unit	PQL	Analysis Result		
				098-0092 02-01634-15	098-0093 02-01634-16	098-0078 02-01634-17
PCBs						
Dilution Factor				1	1	1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	< 76	< 75	< 73
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	< 38	< 38	< 36
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	140 (a)	58 (a)	65 (a)

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. ".": Analysis is not required.

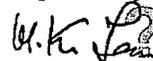
J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Presence of PCB may cause false positives in pesticides chromatogram.

Respectfully submitted,



Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: J.D. Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-021876 Received: 02/15/02
Collected by: T. Ault/R. Gonzales Extracted: 03/07-09/02
Collected on: 02/13/02 Tested: 03/08-11/02
Reported: 03/12/02
Sample Description: Soil
Project Description: 807181 Alameda CTO 13

Analysis of Soil Samples ^(a)

Component Analyzed	Method	Unit	PQL	Analysis Result
				098-0093 02-01876-1
Dilution Factor				2
TCLP LEAD	6010B	µg/L	5	48.0
Dilution Factor				5
STLC CHROMIUM	6010B	µg/L	5	410
STLC LEAD	6010B	µg/L	5	2,760

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

^(a) Additional analysis for 02-1634 requested on 03/06/02.

Respectfully submitted,



DOMINIC LAU
Laboratory Director
Applied P & Ch Laboratory

Backfill Analyses



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 546313
Page 1 of 1

Project Name/No. ¹ Alameda CTO-13/98 Samples Shipment Date: ⁷ 5-8-2002
 Sample Team Members ² Ault Lab Destination ⁸ APCL
 Profit Center No. ³ Lab Contact ⁹ Henry Lee
 Project Manager ⁴ Dan Shafer Project Contact/Phone ¹² JDLensen
 Purchase Order No. ⁶ Track # 807181 4033 Carrier/Waybill No. ¹³ 921750047311
 Required Report Date ¹¹ 7-13-02

Bill to: ⁵ Shaw/IT Corp
 4005 Port Chicago Highway
 Concord CA 94520
 Report to: ¹⁰ JDLensen
 4005 Port Chicago Highway
 Concord CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Preservative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
098-0107	Proposed backfill (structural) Scott Creek Quarry	5-7-2002 19:30	Amber 5455 Bus	3ea 9.12	40C	SVOC-EPA 8970C PNA-EPA 8970-SIM PCB-EPA 8092 Pesticides-EPA 8081 EPA 17 Metals-EPA 601DB/7000 PH Purgeable EPA 815B PH Extractable EPA 815B PH Purgeable EPA 815B		
Temp Blank 098-5-7-02	TRIP BLANK	5-7-02 NA	40ml Amber	1ea 4002	40C HCL	TPH Purgeable 815B		

COPY

FOR LAB USE ONLY

Special Instructions: ²³ composite at lab

Possible Hazard Identification: ²⁴
 Non-hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: ²⁵
 Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: ²⁶
 Normal Rush 48 hrs
 GC Level: ²⁷
 I II III Project Specific (specify): See PAVM

1. Relinquished by ²⁸ (Signature/Affiliation) TDAult	Date: 17:50 Time: 5-8-02	1. Received by ²⁸ (Signature/Affiliation)	Date: _____ Time: _____
2. Relinquished by (Signature/Affiliation)	Date: _____ Time: _____	2. Received by (Signature/Affiliation)	Date: _____ Time: _____
3. Relinquished by (Signature/Affiliation)	Date: _____ Time: _____	3. Received by (Signature/Affiliation)	Date: _____ Time: _____

Comments: ²⁹

White: To accompany samples Yellow: Field copy *See back of form for special instructions.

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1528 Fax: (909) 590-1488

APCL Analytical Report

Submitted to:
The IT Group
Attention: JD Lenzen
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-022878
Collected by: Ault
Collected on: 05/07/02
Received: 05/09/02
Extracted: 05/09/02
Tested: 05/09-14/02
Reported: 05/14/02
Sample Description: Soil and Water
Project Description: Alameda CTO 13

Analysis of Water and Soil Samples

I . Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 098-5-7-02 02-02878-1
Dilution Factor GASOLINE	M8015V	mg/L	0.05	1 0.01J

II . Analysis of Soil Samples ^(a)

Component Analyzed	Method	Unit	PQL	Analysis Result 098-0107 02-02878-2
MOISTURE	ASTM-D2216	%Moisture	0.5	7.1
PH	9045C	pH unit	0.01	8.58
METALS				
Dilution Factor				1
ANTIMONY	6010B	mg/kg	5	< 5.4
ARSENIC	6010B	mg/kg	0.3	4.1
BARIUM	6010B	mg/kg	1	60.7
BERYLLIUM	6010B	mg/kg	0.2	0.15J
CADMIUM	6010B	mg/kg	0.2	0.21J
CHROMIUM	6010B	mg/kg	0.5	25.7
COBALT	6010B	mg/kg	0.5	9.6
COPPER	6010B	mg/kg	0.5	7.0
LEAD	6010B	mg/kg	0.3	7.0
MERCURY	7471A	mg/kg	0.2	0.045J
MOLYBDENUM	6010B	mg/kg	0.2	0.43
NICKEL	6010B	mg/kg	0.3	28.4
SELENIUM	6010B	mg/kg	0.5	0.42J
SILVER	6010B	mg/kg	0.5	< 0.54
THALLIUM	6010B	mg/kg	0.5	< 0.54
VANADIUM	6010B	mg/kg	0.5	23.2
ZINC	6010B	mg/kg	0.5	35.1
Dilution Factor				1
GASOLINE	M8015V	mg/kg	1	0.03J
Dilution Factor				1
DIESEL FUEL	M8015E	mg/kg	10	< 11
Dilution Factor				1
MOTOR OILS	M8015E	mg/kg	10	6J

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result
				098-0107 02-02878-2
SEMI-VOC, 64 COMPOUNDS				
Dilution Factor				1
ACENAPHTHENE	8270C	µg/kg	500	< 540
ACENAPHTHYLENE	8270C	µg/kg	500	< 540
ANTHRACENE	8270C	µg/kg	500	< 540
BENZO(A)ANTHRACENE	8270C	µg/kg	500	< 540
BENZO(A)PYRENE	8270C	µg/kg	500	< 540
BENZO(B)FLUORANTHENE	8270C	µg/kg	500	< 540
BENZO(G,H,I)PERYLENE	8270C	µg/kg	500	< 540
BENZO(K)FLUORANTHENE	8270C	µg/kg	500	< 540
BIS(2-CHLOROETHOXY) METHANE	8270C	µg/kg	500	< 540
BIS(2-CHLOROETHYL) ETHER	8270C	µg/kg	500	< 540
BIS(2-CHLOROISOPROPYL) ETHER	8270C	µg/kg	500	< 540
BIS(2-ETHYLHEXYL) PHTHALATE	8270C	µg/kg	500	< 540
4-BROMOPHENYL PHENYL ETHER	8270C	µg/kg	500	< 540
BENZYL BUTYL PHTHALATE	8270C	µg/kg	500	< 540
4-CHLORO-3-METHYLPHENOL	8270C	µg/kg	1000	< 1100
4-CHLOROANILINE	8270C	µg/kg	1000	< 1100
2-CHLORONAPHTHALENE	8270C	µg/kg	500	< 540
2-CHLOROPHENOL	8270C	µg/kg	500	< 540
4-CHLOROPHENYL PHENYL ETHER	8270C	µg/kg	500	< 540
CHRYSENE	8270C	µg/kg	500	< 540
DI-N-BUTYL PHTHALATE	8270C	µg/kg	500	< 540
DI-N-OCTYLPHTHALATE	8270C	µg/kg	500	< 540
DIBENZ(A,H)ANTHRACENE	8270C	µg/kg	500	< 540
DIBENZOFURAN	8270C	µg/kg	500	< 540
1,2-DICHLOROBENZENE	8270C	µg/kg	500	< 540
1,3-DICHLOROBENZENE	8270C	µg/kg	500	< 540
1,4-DICHLOROBENZENE	8270C	µg/kg	500	< 540
3,3'-DICHLOROBENZIDINE	8270C	µg/kg	1000	< 1100
2,4-DICHLOROPHENOL	8270C	µg/kg	500	< 540
DIETHYL PHTHALATE	8270C	µg/kg	500	< 540
DIMETHYL PHTHALATE	8270C	µg/kg	500	< 540
2,4-DIMETHYLPHENOL	8270C	µg/kg	500	< 540
4,6-DINITRO-2-METHYLPHENOL	8270C	µg/kg	2500	< 2700
2,4-DINITROPHENOL	8270C	µg/kg	2500	< 2700
2,4-DINITROTOLUENE	8270C	µg/kg	500	< 540
2,6-DINITROTOLUENE	8270C	µg/kg	500	< 540
FLUORANTHENE	8270C	µg/kg	500	< 540
FLUORENE	8270C	µg/kg	500	< 540
HEXACHLOROBENZENE	8270C	µg/kg	500	< 540
HEXACHLOROBUTADIENE	8270C	µg/kg	500	< 540
HEXACHLOROCYCLOPENTADIENE	8270C	µg/kg	2500	< 2700
HEXACHLOROETHANE	8270C	µg/kg	500	< 540

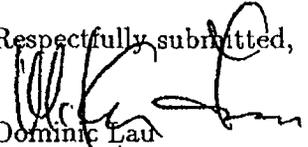
APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result	
				098-0107	02-02878-2
INDENO(1,2,3-C,D)PYRENE	8270C	µg/kg	500	< 540	
ISOPHORONE	8270C	µg/kg	500	< 540	
2-METHYLNAPHTHALENE	8270C	µg/kg	500	< 540	
4-METHYLPHENOL (P-CRESOL)	8270C	µg/kg	500	< 540	
2-METHYLPHENOL (O-CRESOL)	8270C	µg/kg	500	< 540	
NAPHTHALENE	8270C	µg/kg	500	< 540	
2-NITROANILINE	8270C	µg/kg	2500	< 2700	
3-NITROANILINE	8270C	µg/kg	2500	< 2700	
4-NITROANILINE	8270C	µg/kg	2500	< 2700	
NITROBENZENE	8270C	µg/kg	500	< 540	
2-NITROPHENOL	8270C	µg/kg	500	< 540	
4-NITROPHENOL	8270C	µg/kg	2500	< 2700	
N-NITROSODI-N-PROPYLAMINE	8270C	µg/kg	500	< 540	
N-NITROSODIPHENYLAMINE	8270C	µg/kg	2500	< 2700	
PENTACHLOROPHENOL	8270C	µg/kg	2500	< 2700	
PHENANTHRENE	8270C	µg/kg	500	< 540	
PHENOL	8270C	µg/kg	500	< 540	
PYRENE	8270C	µg/kg	500	< 540	
1,2,4-TRICHLOROBENZENE	8270C	µg/kg	500	< 540	
2,4,5-TRICHLOROPHENOL	8270C	µg/kg	500	< 540	
2,4,6-TRICHLOROPHENOL	8270C	µg/kg	500	< 540	
ORGANOCHLORINE PESTICIDES					
Dilution Factor				1	
ALDRIN	8081A	µg/kg	1.7	< 1.8	
BETA BHC	8081A	µg/kg	1.7	< 1.8	
ALPHA BHC	8081A	µg/kg	1.7	< 1.8	
DELTA BHC	8081A	µg/kg	1.7	< 1.8	
GAMMA BHC (LINDANE)	8081A	µg/kg	1.7	< 1.8	
ALPHA-CHLORDANE	8081A	µg/kg	1	< 1.1	
GAMMA-CHLORDANE	8081A	µg/kg	1	< 1.1	
P,P'-DDD	8081A	µg/kg	3	< 3.2	
P,P'-DDE	8081A	µg/kg	3	< 3.2	
P,P'-DDT	8081A	µg/kg	3	< 3.2	
DIELDRIN	8081A	µg/kg	3	< 3.2	
ALPHA ENDOSULFAN	8081A	µg/kg	1.7	< 1.8	
BETA ENDOSULFAN	8081A	µg/kg	3	< 3.2	
ENDOSULFAN SULFATE	8081A	µg/kg	5	< 5.4	
ENDRIN	8081A	µg/kg	3	< 3.2	
ENDRIN ALDEHYDE	8081A	µg/kg	3	< 3.2	
ENDRIN KETONE	8081A	µg/kg	2	< 2.2	
HEPTACHLOR	8081A	µg/kg	1.7	< 1.8	
HEPTACHLOR EPOXIDE	8081A	µg/kg	1.7	< 1.8	
METHOXYCHLOR	8081A	µg/kg	10	< 11	
TOXAPHENE	8081A	µg/kg	100	< 110	

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result
				098-0107 02-02878-2
PCBS				
Dilution Factor				1
PCB-1016 (AROCLOR 1016)	8082	µg/kg	33	<36
PCB-1221 (AROCLOR 1221)	8082	µg/kg	66	<71
PCB-1232 (AROCLOR 1232)	8082	µg/kg	33	<36
PCB-1242 (AROCLOR 1242)	8082	µg/kg	33	<36
PCB-1248 (AROCLOR 1248)	8082	µg/kg	33	<36
PCB-1254 (AROCLOR 1254)	8082	µg/kg	33	<36
PCB-1260 (AROCLOR 1260)	8082	µg/kg	33	<36
PAH (NOAA)				
Dilution Factor				1
ACENAPHTHENE	PAH-SIM	µg/kg	25	<27
ACENAPHTHYLENE	PAH-SIM	µg/kg	25	<27
ANTHRACENE	PAH-SIM	µg/kg	25	<27
BENZO(A)ANTHRACENE	PAH-SIM	µg/kg	25	<27
BENZO(A)PYRENE	PAH-SIM	µg/kg	25	<27
BENZO(B)FLUORANTHENE	PAH-SIM	µg/kg	25	<27
BENZO(G,H,I)PERYLENE	PAH-SIM	µg/kg	25	<27
BENZO(K)FLUORANTHENE	PAH-SIM	µg/kg	25	<27
CHRYSENE	PAH-SIM	µg/kg	25	<27
DIBENZ(A,H)ANTHRACENE	PAH-SIM	µg/kg	25	<27
FLUORANTHENE	PAH-SIM	µg/kg	25	<27
FLUORENE	PAH-SIM	µg/kg	25	<27
INDENO(1,2,3-C,D)PYRENE	PAH-SIM	µg/kg	25	<27
2-METHYLNAPHTHALENE	PAH-SIM	µg/kg	25	<27
NAPHTHALENE	PAH-SIM	µg/kg	25	<27
PHENANTHRENE	PAH-SIM	µg/kg	25	<27
PYRENE	PAH-SIM	µg/kg	25	<27

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit.
 N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
 J: Reported between PQL and MDL.
 † All results are reported on dry basis for soil samples.
 Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0
 (a) Sample duplicates were composited before analysis.

Respectfully submitted,

 Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

**APPENDIX B
PRE- AND POST-REMOVAL RISK ASSESSMENTS**

Appendix B

Human Health Risk Reduction Screening Analysis for Building 195 Pesticide Shed Demolition and Soil Removal

1. INTRODUCTION

This human health screening risk analysis was completed to show the risk reduction from the removal action at the Building 195 area, and to verify that the human health risks have been reduced to acceptable levels. In order to demonstrate the reduction in risk, both pre- and post-removal surface soil analytical results were evaluated. The remaining sections will focus on the selection of chemicals of potential concern (COPC), the risk assessment screening methodology, the exposure assumptions built into the risk screening methodology, and the results including the overall reduction of risk.

Building 195 is located within the boundaries of EBS Parcel 98 (Zone 16 Housing Zone) as designated in Phase 1 of the EBS. Parcel 98 is the largest parcel in Zone 16, consisting of approximately 52 acres, and is irregularly shaped. Parcel 98 has historically been utilized as military family housing dating from the early days of base operation. Use as family housing continued until base closure. Given the historical usage of Parcel 98, current reuse plans designate Parcel 98 for continued use as residential housing.

Parcel 98 primarily consists of family housing units, open space, and a limited access area designated for landscape support activity. The housing units were constructed in two phases, the first in the early 1940s and the second in 1961. During the nearly sixty years that the area was in use as residential housing, landscaping and lawn maintenance activities were routinely conducted on the parcel by military and civilian personnel. A landscape maintenance yard is located in the south-central area of Parcel 98 to support this activity. Building 195 is located within the landscape maintenance yard.

2. IDENTIFICATION OF CHEMICALS OF POTENTIAL CONCERN

This section identifies the COPCs for the Building 195 area. Pertinent data collection considerations are discussed, and the data evaluation process is presented.

2.1 Data Descriptions

During the Phase 2 EBS investigations, soil samples collected from the two locations west of Building 195 contained dieldrin at concentrations greater than its U.S Environmental Protection Agency (EPA) Region 9 residential preliminary remediation goal (PRG) (EPA, 2000) of 0.03

mg/kg. Dieldrin was detected in two samples collected from 0.5 to 1.0 feet below ground surface (bgs) at concentrations ranging from 0.089 to 0.75 mg/kg. Subsequent soil sampling in the vicinity of Building 195 suggests that soil containing dieldrin in concentrations exceeding the residential PRG appears to be limited to the area immediately west of Building 195. Compounds detected during subsequent sampling include alpha-chlordane, Aroclor 1260, gamma-chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and lead. Aroclor 1260 and lead were present at concentrations above the regulatory cleanup criteria. The remaining detected constituents, although present at concentrations below regulatory cleanup levels, were included as constituents of concern in this risk screening.

The paint covering the surface of Building 195 was observed to be peeling over most of the structure. Analysis of a paint chip sample collected from the building resulted in a lead concentration of 87,796 mg/kg, which confirmed the suspicion that the paint was lead based.

Due to the risks associated with dieldrin, Aroclor 1260, and lead concentrations, the following removal action activities were proposed and completed.

- Pre-excavation soil and groundwater sampling
- Lead-based paint removal and demolition of Building 195
- Excavation of impacted soils
- Post-excavation confirmatory sampling
- Backfilling and site restoration.

The pre-removal data includes all available analytical soil data (both pre- and post-removal sampling events); the post-removal data includes only analytical data for soil remaining on-site. Groundwater analyses for pesticides, PCBs, and lead were all non-detect and, therefore, not included in the risk screening.

2.2 Statistical Methodology for Chemicals of Potential Concern

This section presents the procedure used to identify the COPCs for Building 195. For individual data sets that contained nondetections (ND) (i.e., data which were U or UJ qualified), the detection limit of the nondetected result was divided by two before any statistical calculation was performed. Sample duplicates were treated as unique results and were included in statistical calculations for this screening assessment. Both of these steps are in accordance with EPA guidance (EPA, 1989). All statistical calculations were performed using ProUCL (EPA, 2002).

The following statistical manipulations were performed on both the pre- and post-removal surface soil analytical data sets:

- Frequency Sampled - Number of samples that were collected and analyzed for a particular chemical.
- Maximum Concentration - Highest concentration of a given chemical.
- Minimum Concentration - Lowest concentration of a particular chemical. This value may be one half of the detection limit for data that contain nondetections.
- Mean Concentration - Arithmetic mean of a particular chemical.
- Standard Deviation - Sample standard deviation of a particular chemical.
- Upper 95-Percent Confidence Limit of the Mean (UCL) - Upper 95% UCL was calculated by ProUCL based on the determined distribution.

2.3 Chemicals of Potential Concern

The pre- and post-removal surface soil analytical data at Building 195 are summarized in Tables 2-1 and 2-2. Included in this summary are the number of samples (n), the maximum and minimum values, mean, standard deviation, and 95-percent UCL. Both the maximum (hot spot or worst case analysis) and the 95% UCL (representing the site as a whole) are considered potential exposure point concentrations in the risk screening analysis.

Table 2-1
 Summary Statistics for Building 195 Pre-Removal Soil Sampling
 (concentrations in mg/kg)

COPC	N	F	Distribution Type	Minimum	Maximum	Mean	Standard Deviation	95% UCL
Alpha-Chlordane	46	9	NP	0.0004	0.042	0.0021	0.006	0.0036
Aroclor 1260	46	30	NP	0.005	0.81	0.12	0.18	0.16
Dieldrin	46	9	NP	0.001	0.75	0.023	0.11	0.049
Gamma-Chlordane	46	14	NP	0.0005	0.042	0.0021	0.006	0.0035
Lead	54	54	Lognormal	1.7	1290	101	193	201
4,4'-DDD	46	12	NP	0.0004	0.08	0.0038	0.012	0.0066
4,4'-DDE	46	13	NP	0.0004	0.08	0.0039	0.012	0.0067
4,4'-DDT	46	21	NP	0.0003	0.08	0.0067	0.014	0.010

COPC = chemical of potential concern

mg/kg = milligram per kilogram

N = number of samples

F = frequency of detection

NP = nonparametric

UCL = upper confidence limit

Table 2-2
 Summary Statistics for Building 195 Post-Removal Soil Sampling
 (concentrations in mg/kg)

COPC	N	F	Distribution Type	Minimum	Maximum	Mean	Standard Deviation	95% UCL
Alpha-Chlordane	22	0	NP	0.0006	0.001	0.00066	0.0002	0.0007
Aroclor 1260	22	11	NP	0.006	0.22	0.052	0.063	0.073
Dieldrin	22	5	NP	0.001	0.011	0.0027	0.002	0.0036
Gamma-Chlordane	22	1	NP	0.0005	0.001	0.00069	0.0002	0.00075
Lead	24	24	Lognormal	1.7	156	41.5	44.8	121
4,4'-DDD	22	3	NP	0.0004	0.002	0.0016	0.0004	0.0017
4,4'-DDE	22	3	NP	0.0004	0.0019	0.0015	0.0004	0.0016
4,4'-DDT	22	5	NP	0.0003	0.006	0.0018	0.0011	0.0022

COPC = chemical of potential concern

mg/kg = milligram per kilogram

N = number of samples

F = frequency of detection

NP = nonparametric

UCL = upper confidence limit

3. METHODOLOGY FOR HUMAN HEALTH SCREENING RISK ANALYSIS

To evaluate the reduction in risk at Building 195, pre- and post-removal surface soil maximum and 95% UCL exposure point concentrations of the COPCs are compared to their respective residential Region 9 PRG (EPA, 2000). The PRGs represent the soil concentration below which no significant health effects are likely to occur from the assumed soil exposure pathways. The PRGs are fixed to conservative levels of risk (i.e., a cancer risk of 1×10^{-06} or a hazard quotient [HQ] of 1.0). The PRG uses these soil exposure pathways in their calculations;

- Incidental ingestion of chemicals in soil
- Dermal contact with chemicals in soil
- Inhalation of fugitive dust or volatile organic compounds from soil.

The proposed current and future land use of Parcel 98, including Building 195, is residential. Therefore, the soil exposure point concentrations were compared to residential U.S. EPA Region 9 PRGs to provide a conservative risk screening evaluation.

An incremental lifetime cancer risk (ILCR), using an exposure point concentration and a respective carcinogenic PRG, can be estimated with the following formula;

$$ILCR = TR \frac{EPC_i}{PRG_i}$$

Where:

- TR = Target lifetime cancer risk of 1×10^{-06}
- EPC_i = Maximum or RME exposure point concentration of COPC_i detected in soil (mg/kg)
- PRG_i = Region 9 Residential Soil Screening for COPC_i detected in soil (mg/kg) based on carcinogenic effects.

In weighing exposure to potentially carcinogenic compounds, a reasonable level of risk must be selected. The EPA used an ILCR (also referred to as excess cancer risk) of one in one million (1×10^{-06}) as the lower bound of an acceptable range for developing drinking water standards. The upper bound of an acceptable ILCR recommended by the EPA for drinking water is 1 in 10,000 (1×10^{-04}) (EPA, 1987). In addition, the EPA specifies a risk range of 10^{-06} to 10^{-04} associated with the consideration and selection of remedial alternatives for contaminated land in the National Contingency Plan (NCP) (EPA, 1990).

Based on the regulatory precedents cited above, a reasonable and appropriate ILCR range would be from 10^{-06} to 10^{-04} . As implemented under the NCP, a pathway ILCR greater than 10^{-06} must receive risk management consideration (EPA, 1990). The quantitative risk assessment is one of many factors that is considered in the decision-making process for remediation. Therefore, there is no single risk value that defines “acceptable” and “unacceptable” risk. Because the purpose of the risk assessment is to present quantitative and qualitative estimates of potential risk, all pathway risks greater than the lower bound of 10^{-06} were examined. When the cumulative site ILCR to an individual based on the reasonable maximum exposure (RME) for both current and future land use is less than 10^{-04} , action is generally not warranted unless there are adverse environmental impacts (EPA, 1991).

A HQ, using an exposure point concentration and a respective non-carcinogenic PRG, can be estimated with the following formula;

$$HQ = THQ \frac{EPC_i}{PRG_i}$$

Where:

- THQ = The target hazard quotient of 1.0
- EPC_i = Maximum or RME exposure point concentration of COPC_i detected in soil (mg/kg)
- PRG_i = Region 9 Residential Soil Screening for COPC_i detected in soil (mg/kg) based on carcinogenic effects

In addition to calculation of ILCR for each carcinogenic COPC, cumulative residential ILCR is estimated for the Building 195 exposure area. The cumulative ILCR for exposure to multiple COPC is estimated with the following equation;

$$ILCR = \sum (TR \frac{EPC_i}{PRG_i})$$

The cumulative non-carcinogenic hazard index (HI) for exposure to multiple COPC is estimated with the following equation;

$$HI = \sum (THQ \frac{EPC_i}{PRG_i})$$

Where:

- HI = The cumulative non-carcinogenic HI.

If the cumulative HI exceeds 1.0, then segregation of the COPC HQ by type of effect may be necessary. All of the COPC contributing to a HI greater than 1.0 may not cause the same health effect, and their HQ may need to be examined on an individual basis.

4. EVALUATION OF THE SCREENING RISK REDUCTION ANALYSIS

The purpose of the screening risk analysis was to summarize the risk reduction through the removal of soil at Building 195. However, this analysis will also provide the current, post-removal, human health risk at Building 195 for the receptors chosen in the analysis. The area is expected to be developed for residential use; therefore, the soil exposure point concentrations were compared to residential U.S. EPA Region 9 PRGs to provide a conservative risk screening evaluation.

If the post-removal maximum and/or 95 percent UCL soil concentrations are below residential soil PRGs and the cumulative ILCR and HI are below the upperbound target risk levels, the site human risk levels are acceptable and no further action is warranted.

5. RESULTS OF THE SCREENING RISK REDUCTION ANALYSIS

This section presents the results of the human health screening risk analysis for the Building 195 area. Table 5-1 summarizes the COPC ILCR and HQ, based on comparing the maximum exposure point concentrations with the residential PRG for both the pre- and post-removal analytical surface soil results. Table 5-2 summarizes the COPC ILCR and HQ, based on comparing the 95% UCL exposure point concentrations with the residential PRG for both the pre- and post-removal analytical surface soil results. Cumulative ILCR and HI are also summarized in both Tables 5-1 and 5-2.

Using the maximum exposure point concentration, the pre-removal cumulative ILCR was 2.9E-05 with Aroclor 1260 and dieldrin contributing most of the risk and the HI was 6.2 due to lead. The post-removal cumulative ILCR is 1.4E-06 with Aroclor 1260 contributing most of the risk due to its post-removal sample concentration of 0.22 mg/kg, which is equivalent to the residential PRG. The post-removal HI is 0.75 based on residual lead concentrations in the soil.

Using the 95% UCL exposure point concentration, the pre-removal cumulative ILCR was only slightly greater than 1.0E-06 (2.4E-06) with only Aroclor 1260 exceeding 1.0E-06. The pre-removal HI was 1.0 due to lead. The post-removal cumulative ILCR is 4.6E-07; the HI is 0.58 due to residual lead concentrations in the soil.

In summary, there was a reduction in risk due to the removal action that took place at the Building 195 area. None of the COPCs were detected above any of the EPA residential PRGs. In addition, under current post-removal conditions, none of the COPCs exceeded the allowable regulatory limits using the 95% UCL concentration. Therefore, the Building 195 area is below acceptable risk levels for residential receptors and no further action is warranted.

Table 5-1
Results of the Human Health Risk Screening Analysis for Building 195
Using Maximum Exposure Point Concentrations

COPC	Residential Region IX PRG (mg/kg)	Pre-Removal			Post-Removal		
		Concentration (mg/kg)	HI	ILCR	Concentration (mg/kg)	HI	ILCR
Alpha-Chlordane	1.6 c	0.042	NA	2.6E-08	0.001	NA	6.3E-10
Aroclor 1260	0.22 c	0.81	NA	3.7E-06	0.22	NA	1.0E-06
Dieldrin	0.03 c	0.75	NA	2.5E-05	0.011	NA	3.7E-07
Gamma-Chlordane	1.6 c	0.042	NA	2.6E-08	0.001	NA	6.3E-10
Lead	209 n1	1290	6.2	NA	156	0.75	NA
4,4'-DDD	2.4 c	0.08	NA	3.3E-08	0.002	NA	8.3E-10
4,4'-DDE	1.7 c	0.08	NA	4.7E-08	0.0019	NA	1.1E-09
4,4'-DDT	1.7 c	0.08	NA	4.7E-08	0.006	NA	3.5E-09
		Total	6.2	2.9E-05	Total	0.75	1.4E-06

c = Carcinogenic

COPC = Chemical of potential concern

HI = Hazard Index

ILCR = Incremental lifetime cancer risk

mg/kg = milligram per kilogram

n1 = cleanup goal calculated using DTSC's LEADSPREAD Version 7

NA = not applicable

ND = Non-detect

PRG = Soil screening level

Table 5-2
 Results of the Human Health Risk Screening Analysis for Building 195
 Using 95 % UCL of the Mean Exposure Point Concentrations

COPC	Residential Region IX PRG (mg/kg)	Pre-Removal			Post-Removal		
		Concentration (mg/kg)	HI	ILCR	Concentration (mg/kg)	HI	ILCR
Alpha-Chlordane	1.6 c	0.0036	NA	2.3E-09	0.0007	NA	4.4E-10
Aroclor 1260	0.22 c	0.16	NA	7.3E-07	0.073	NA	3.3E-07
Dieldrin	0.03 c	0.049	NA	1.6E-06	0.0036	NA	1.2E-07
Gamma-Chlordane	1.6 c	0.0035	NA	2.2E-09	0.00075	NA	4.7E-10
Lead	209 nl	201	1.0	NA	121	0.58	NA
4,4'-DDD	2.4 c	0.0066	NA	2.8E-09	0.0017	NA	7.1E-10
4,4'-DDE	1.7 c	0.0067	NA	3.9E-09	0.0016	NA	9.4E-10
4,4'-DDT	1.7 c	0.010	NA	5.9E-09	0.0022	NA	1.3E-09
		Total	1.0	2.4E-06	Total	0.58	4.6E-07

c = Carcinogenic

COPC = Chemical of potential concern

HI = Hazard Index

ILCR = Incremental lifetime cancer risk

mg/kg = milligram per kilogram

nl = cleanup goal calculated using DTSC's LEADSPREAD Version 7

NA = not applicable

PRG = Soil screening level

UCL = Upper confidence limit

6. REFERENCES

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U.S. Environmental Protection Agency. 1991. Role of the Baseline Risk Assessment in Superfund Remedy Selection Decisions. *OSWER Directive 9355.0-30*. Office of Solid Waste and Emergency Response, Washington, D.C.

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U.S. Environmental Protection Agency. 2002. *ProUCL User's Guide*, U.S. Environmental Protection Agency.

**APPENDIX C
LEAD ABATEMENT PLAN**

AMG Asbestos Management Group of California, Inc.

Contractor's State License 586844

DOGH Registration 271

**LEAD ABATEMENT PLAN (OSHA) WRITTEN COMPLIANCE PLAN
FOR BUILDING 195, ALAMEDA POINT**

Date: November 20, 2001

1. Location of Project:

The job will take place at building 195 Alameda Point (formally Alameda Naval Air Station) Alameda, California. It is assumed that an inspection has been performed on the building in the past and the results revealed lead-based paint on the exterior and interior of the building. The exterior of the building consists of corrugated steel panels with loose and flaky lead-based paint. AMG is to remove the loose and flaky paint from the exterior and interior of the building. The existing lead-based paint represents a hazard to workers who may disturb it during lead hazard control or renovation activities.

2. Brief Description of Job:

The abatement will involve the removal and of the loose and flaky paint from the exterior and interior metal corrugated siding from building 195.

3. Schedule:

Work will proceed according to the following schedule:

Day 1: Initial setup, including placement of plastic sheeting on exterior ground surfaces for containment purposes.

Begin manual removal of exterior paint. All surfaces will be thoroughly wetted with water mist prior to scraping to minimize dust generation. Surfaces will be lightly scraped with metal paint scrapers.

Place lead-based paint debris in 55-gallon drums for future disposal.

Daily cleanup, HEPA vacuuming

Day 2: Complete removal of exterior lead-based paint following protocol referenced above.

HEPA vacuums will be utilized for final cleanup of the perimeter of the building.

4. Equipment and Materials:

Metal scrapers, rubber gloves, ½ faced HEPA filtered respirators, HEPA vacuums, plastic sheeting and metal drums.

The job is expected to start on November 26, 2001 and be completed on November 27, 2001.

5. Crew

A. Arce, A. Gomez, R. Martinez, and V. Ramirez

6. Competent Person:

Mr. Andres Arce, a certified DHS supervisor, will be onsite at the beginning of the project and will make periodic visits to assure that all occupational health and safety issues are being followed. Mr. Andres will travel no more than 50 miles from the job site and be in constant radio/telephone contact with the crew at all times. Mr. Andres will conduct daily inspections of the work areas to ensure that control measures, work practices, personal protective equipment, and hygiene facilities are used as prescribed in this document.

7. Control Measures

The primary control method for this project is to remove all loose and flaky lead-based paint. During removal operations, the exterior of the structure will be wetted with water mist prior to removal to reduce airborne dust generation during removal activities.

To further reduce generation of leaded dust in the work areas, paint chips and dust will be vacuumed on at least a daily basis with HEPA filtered vacuums. Final cleaning will be accomplished by three successive cleanings consisting of HEPA vacuuming alternated with wet wiping with trisodium phosphate solution. The use of HEPA vacuums and wet cleaning methods will minimize worker lead exposures.

8. Technology Considered in Meeting the Permissible Exposure Limit:

The HUD *Guidelines for Evaluation and Control of Lead Hazards in Housing* and other publications were reviewed to determine the appropriate engineering controls to be used in this project. The only specialized equipment that will be utilized for this project is HEPA filtered vacuums cleaners.

9. Respirators

All individuals in the work area will be provided with a half-mask, air-purifying respirator equipped with HEPA cartridges. Respirators will be provided in the context of a complete respiratory protection program; the written respirator program is attached.

Respirators will be required during surface preparation, manual scapping, cleaning activities, and final cleanup. Respirator use during other activities, including initial setup (such as laying down plastic for containment), and enclosure after surface preparation is not necessary, unless other workers nearby (same interior room or outside wall) are performing activities for which respirators are required.

10. Protective Clothing

Disposable protective clothing will be worn at all times in the work area. Protective clothing will be made of breathable fabric to reduce the potential for worker heat stress. If visibly contaminated with paint dust or chips, protective clothing will be vacuumed before it is removed.

11. Hygiene Facilities:

Hand washing facilities will be used to decontaminate workers. The facilities will be located in a adjacent to the work area. Buckets with fresh water and soap will be made available to wash hands and face before all breaks and at the end of the day. Wastewater will be collected, pretreated onsite with filtration, and disposed in accordance with prior arrangements made with IT and the facility Owner.

12. Air Monitoring Data:

Personal air monitoring will be performed during the course of the manual scapping of the project. It is not anticipated that the employees performing work on this project will exceed the permissible exposure limit of fifty micrograms per cubic meter of air (50ug/m³) average over an 8-hour period.

No final air testing will be performed at this site because the building is to be demolished and not occupied. A visual inspection will be performed to determine if all loose and flaky paint has be removed and packaged properly for disposal by others.

13. Medical Surveillance Program:

A medical surveillance program is already in place for this work crew. Worker blood lead and ZPP levels are measured initially before the onset of work, every 2 months for the first 6 months of employment, and every 6 months thereafter.

Follow-up blood sampling tests. Whenever the results of a blood lead level test indicate that an employee's blood lead level exceeds the numerical criterion for medical removal, the employer shall provide a second (follow-up) blood sampling test within two weeks after the employer receives the results of the first blood sampling test.

LEAD ABATEMENT PLAN (OSHA) WRITTEN COMPLIANCE PLAN FOR BUILDING 195, ALAMEDA
POINT

Page 4

Date: November 20, 2001

Accuracy of blood lead level sampling and analysis. Blood lead level sampling and analysis provided pursuant to this section shall have an accuracy (to a confidence level of 95 percent) within plus or minus 15 percent or 6ug/dl, whichever is greater, and shall be conducted by a laboratory approved by OSHA.

14. Training

All workers have been trained using a DHS Worker Training Curriculum.

Plan completed by:



Brent Bates, President Asbestos Management Group of California, Inc., November 20, 2001

**APPENDIX D
WASTE SHIPPING MANIFESTS**

Waste Shipping Manifests

Vegetative Debris with Soil

Paint Chips

Shed

Excavated Soil

Vegetative Debris with Soil

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 10490	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda CA 94501				NON HAZ WASTE MAN # 10490 TRUCK	
4. Generator's Phone (510) 749-5939		Shirley Ng		A. State Transporter's ID	
5. Transporter 1 Company Name DILLARD Environmental Lic		6. US EPA ID Number CA 982523433		B. Transporter 1 Phone 925-637-6850	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore CA 94550-6		10. US EPA ID Number CA 981382732		E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity	14. Unit Wt./Vol.
Non-hazardous waste solid (vegetative debris and soil)		No.	Type		
		001	SM DT	00018	Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. Debris and soil, Profile# 55022700 24-Hour Contact: Chem-Tel 800-255-3924 CTO-13, Parcel 98				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. Site Pick up location: Alameda Point Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Shirley Ng		Signature <i>Shirley S. Ng</i>		Date 2 20 10 02	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Jim Nunes		Signature <i>Jim Nunes</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	

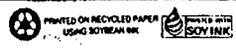
NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 10491	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St., Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 10491 <i>truck</i>	
4. Generator's Phone (510) 748-5939		Shirley Ng		A. State Transporter's ID	
5. Transporter 1 Company Name David Environmental/KMD		6. US EPA ID Number 982523433		B. Transporter 1 Phone (925) 637-6890	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6		10. US EPA ID Number CAD981382732		D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit Wt./Vol.	
Non-hazardous waste solid (vegetative debris and soil)		No. 001	Type CM DT	00018	Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a, Debris and soil, Profile# 55022700 CTO-13, Parcel 98			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. Site Pick up location: Alameda Point Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Joey Moglia Jr		Signature <i>[Signature]</i>		Date 02/20/02	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Shirley Ng		Signature <i>[Signature]</i>	
				Date 02/20/02	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
				Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	
				Month Day Year	

NON-HAZARDOUS WASTE



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 10492	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN #10492	
4. Generator's Phone (510,749-5939)		Shirley Ng		Truck # 091-TRAILOR #370	
5. Transporter 1 Company Name <i>Dillard Trucking</i>		6. US EPA ID Number 1CHD982323433		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (925)634-6850	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6		10. US EPA ID Number CAD981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
Non-hazardous waste solid (vegetative debris and soil)			No.	Type	14. Unit Wt./Vol.
			001	CM DT	00018 Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. Debris and soil, Profile# 55022700 CTO-13, Parcel 98			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. Site Pick up location: Alameda Point Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <i>Shirley Ng</i>			Signature <i>Shirley S. Ng</i>		Date Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature <i>Randolph B. ...</i>		Date Month Day Year 02/20/02
Printed/Typed Name <i>Randolph B. ...</i>			Signature		Date
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Date
Printed/Typed Name			Signature		Date
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name			Signature		Date Month Day Year

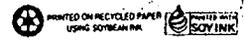
NON-HAZARDOUS WASTE GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 10645	2. Page 1 of 1	
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 10645		
4. Generator's Phone (510 749-5939)				Shirley Ng Truck # 891		
5. Transporter 1 Company Name DILLARD ENVIRONMENTAL		6. US EPA ID Number CAD982523433		A. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone		
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6		US EPA ID Number CAD981382732		C. State Transporter's ID		
				D. Transporter 2 Phone		
				E. State Facility's ID		
				F. Facility's Phone 925-449-6349		
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity	
Non-hazardous waste solid (vegetative debris and soil)			No.	Type	Unit Wt./Vol.	
			001	DT	00018	Y
10. Additional Descriptions for Materials Listed Above (1a. Debris and soil. Profile # 35022700)			14. Handling Codes for Wastes Listed Above			
CTO-13, Parcel 98						
<p>Special Handling Instructions and Additional Information</p> <p>Wear proper protective equipment while handling.</p> <p>Weights or volumes are approximate.</p> <p>Site Pick up location: Alameda Point Alameda, CA</p>						
<p>16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.</p>						
17. Transporter 1 Acknowledgement of Receipt of Materials				Date		
Printed/Typed Name Shirley Ng		Signature <i>Shirley Ng</i>		Month Day Year 02 20 02		
18. Transporter 2 Acknowledgement of Receipt of Materials				Date		
Printed/Typed Name Jim Nunes		Signature <i>Jim Nunes</i>		Month Day Year 02 20 02		
19. Discrepancy Indication Space				Date		
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				Date		
Printed/Typed Name		Signature		Month Day Year		

NON-HAZARDOUS WASTE GENERATOR



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on efile (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 10646	2. Page 1 of 1	
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN #		
4. Generator's Phone (510) 749-5939 Shirley Ng						
5. Transporter 1 Company Name Divine Environmental		6. US EPA ID Number CA0482523433		A. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (415) 837-8855		
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6				C. State Transporter's ID		
10. US EPA ID Number CA D981382732				D. Transporter 2 Phone		
				E. State Facility's ID		
				F. Facility's Phone 925-449-6349		
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit	
Non-hazardous waste solid (vegetative debris and soil)			No.		WL/Vol.	
			Type			
				001	00018	Y
G. Additional Descriptions for Materials Listed Above 11a, Debris and soil, Profile# 55022700 CTO-13 Parcel 98			H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. Site Pick up location: Alameda Point Alameda, CA						
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.						
Printed/Typed Name Shirley Ng Robert Perricone		Signature <i>Robert Perricone</i>		Date 02/20/02		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Jerry Hooper Jr		Signature <i>Jerry Hooper Jr</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		
19. Discrepancy Indication Space						
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.						
Printed/Typed Name		Signature		Date Month Day Year		

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA2170023236		Manifest Document No. 10647	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # Truck # 091 - Trailer # 370	
4. Generator's Phone (510, 749-5839)		Shirley Ng		A. State Transporter's ID	
5. Transporter 1 Company Name Dillard Trucking		6. US EPA ID Number CHD982523433		B. Transporter 1 Phone (925) 634-6850	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6				10. US EPA ID Number CAD981382732	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
Non-hazardous waste solid (vegetative debris and soil)			No. Type		
			001	00018	Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a, Debris and soil, Profile# 55022700			H. Handling Codes for Wastes Listed Above		
CTO-13, Parcel 98					
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. Site Pick up location: Alameda Point Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Shirley Ng Robert Penocchio				Date	
Signature <i>[Signature]</i>				Month	Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name Kenneth V. Reed				Month	Day Year
Signature <i>[Signature]</i>				02	20 10
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Month	Day Year
Signature					
19. Discrepancy Indication Space					
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Date	
Signature				Month	Day Year

NON-HAZARDOUS WASTE GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 12648	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN #	
4. Generator's Phone (510) 749-5939				Shirley Ng	
5. Transporter 1 Company Name Dillard Environmental		6. US EPA ID Number CAD982523433		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 925-634-6850	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6				E. State Facility's ID	
10. US EPA ID Number CAD981382732				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity	14. Unit Wt/Vol.
Non-hazardous waste solid (vegetative debris and soil)		001	DT	00018	Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. Debris and soil, Profile# 55022700 CTO-13, Parcel 98				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. Site Pick up location: Alameda Point Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Shirley Ng Robert Ferris		Signature <i>[Signature]</i>		Date 02 20 02	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Jim Nunes		Signature <i>[Signature]</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				Date	
Printed/Typed Name		Signature		Month Day Year	

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 10707	2. Page 1 of 1	
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda CA 94501				NON HAZ WASTE MAN #		
4. Generator's Phone (510) 749-5939		Shirley Ng		A. State Transporter's ID		
5. Transporter 1 Company Name Dillard Trucking		6. US EPA ID Number CHD-982523433		B. Transporter 1 Phone 925 634-6850		
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore CA 94550-6349				E. State Facility's ID		
10. US EPA ID Number ICAD981382732				F. Facility's Phone 925-449-6349		
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit W/Vol.	
Non-hazardous waste solid (vegetative debris and soil)			No.	Type		
			001	DT	00018	Y
G. Additional Descriptions for Materials Listed Above 11a. Debris and soil, Profile# 55022700 CTO-13, Parcel 98			H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. Site Pick up location: Alameda Point Alameda, CA						
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.						
Printed/Typed Name Robert Perricone		Signature <i>Robert Perricone</i>		Date Month Day Year		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name RANDOLPH V. RUIZ		Signature <i>Randolph V. Ruiz</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Date Month Day Year 02 21 02		
19. Discrepancy Indication Space		Printed/Typed Name		Signature		
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.		Printed/Typed Name		Date Month Day Year		

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 10708	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN #	
4. Generator's Phone (510 749-5939)		Shirley Ng			
5. Transporter 1 Company Name DILLARD ENVIRONMENTAL		6. US EPA ID Number CHD-982323433		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (925) 634-6830	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number ICAD981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
			No.	Type	14. Unit Wt./Vol.
Non-hazardous waste solid (vegetative debris and soil)			001	DT	00018 Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. Debris and soil, Profile# 55022700 CTO-13, Parcel 98			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. Site Pick up location: Alameda Point Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Robert Perricone			Signature <i>Robert Perricone</i>		Date Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name RON VALENTINE		Date Month Day Year 2 21 02
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Date
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.			Printed/Typed Name		Date Month Day Year
			Signature		

NON-HAZARDOUS WASTE

Paint Chips

IN CASE OF EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER AT 800-424-8802. WITHIN CALIFORNIA, CALL 800-852-7350.

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. CA2170023236	Manifest Document No. 03643	2. Page 1 of 1	Information in the shaded area is not required by Federal law.
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda CA 94501		4. Generator's Phone (510) 749-5939		21 28 10 29	
5. Transporter 1 Company Name Dillard Trucking Inc.		6. US EPA ID Number CA D982523433		07 15 00 00 00	
7. Transporter 2 Company Name		8. US EPA ID Number			
9. Designated Facility Name and Site Address Chemical Waste Management, Inc., Kettleman Hills Facility 35251 Old Skyline Road Kettleman City CA 93239		10. US EPA ID Number CA T000846117		55 28 97 00 00	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Waste environmentally hazardous substances, solid, n.o.s. (lead) 9, UN3077, PG III (ERG171)		12. Containers: No. 003	Type DM	13. Total Quantity 0500	14. Unit P
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). pickup location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Shirley Ng		on behalf of Signature <i>Shirley Ng</i>		Month 07	Day 01
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Randolph V. Rico		Signature <i>Randolph V. Rico</i>		Month 07	Day 01
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month	Day
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name		Signature		Month	Day

DO NOT WRITE BELOW THIS LINE.

Shed

Excavated Soil

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11332	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN #	
4. Generator's Phone (510 749-5939)		Shirley Ng			
5. Transporter 1 Company Name Denbeste Transportation		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (707) 838-1457	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-5349		10. US EPA ID Number CAD981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
Non-hazardous waste solid (soil with trace contaminants)			001	CM	00016 Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off. Profile # 55097100 Bin # DB 689 CTO-13, Parcel 98			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Petricone		Signature <i>Bob Petricone</i>		Date 03/27/02	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Todd Acklam		Signature <i>Todd Acklam</i>		Date 03/27/02	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	

NON-HAZARDOUS WASTE



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11333	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11333	
4. Generator's Phone (510 749-5939		Shirley Ng			
5. Transporter 1 Company Name Acklam Trucking		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt/Vol.
Non-hazardous waste solid (soil with trace contaminants)			No.	Type	
			001	CM	00016
			002		00022
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
11a. 1x20yd roll-off, Profile # 55047100 Bin # DB696 / DB646 CTO-13, Parcel 98					
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Perricone		Signature <i>Bob Perricone</i>		Date 03/27/02	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name 1000 Acklam		Signature <i>Tacee Acklam</i>	
				Date 03/27/02	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
				Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11334	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11334	
4. Generator's Phone (510 749-5939)		Shirley Ng		A. State Transporter's ID	
5. Transporter 1 Company Name Acklam Trucking		6. US EPA ID Number		B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION Non-hazardous waste solid (soil with trace contaminants)			12. Containers		13. Total Quantity
			No.	Type	Unit
			001	CM	90016 88018
b.					Y
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100 Bin # <u>DB 689</u> CTO-13, Parcel 98			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Perrone				Signature <i>Bob Perrone</i>	
				Date 03/27/02	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name JOHN ACKLAM				Signature <i>John Acklam</i>	
				Date 03/27/02	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Signature	
				Date	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

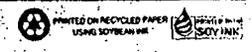


NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11335	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC Alameda Point 2450 Saratoga St, Suite 200 Alameda CA 94501				NON HAZ WASTE MAN # 11335	
4. Generator's Phone: 510 749-5939 Shirley Ng					
5. Transporter 1 Company Name Acklam Transportation		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
Non-hazardous waste solid (soil with trace contaminants)			001	00016	Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100 Bin # DB610 CTO-13, Parcel 98			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Perricone		Signature <i>Bob Perricone</i>		Date 03/28/02	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Todd Acklam		Signature <i>Todd Acklam</i>	
				Date 03/28/02	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
				Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.					
Printed/Typed Name		Signature		Date	
				Month Day Year	

NON-HAZARDOUS WASTE GENERATOR TRANSPORTER FACILITY



NON-HAZARDOUS WASTE MANIFEST

Form No. 101 (Rev. 12/98) (Form designed for use on 5/16 (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11336	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11336	
4. Generator's Phone () 510-749-5939		5. Generator's Name Shirley Ng			
6. Transporter 1 Company Name Denbeste Transportation		7. US EPA ID Number CA 982513632		A. State Transporter's ID	
8. Transporter 2 Company Name		9. US EPA ID Number		B. Transporter 1 Phone 800-838-1477	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CA D 981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit WL/Vol.
Non-hazardous waste solid (soil with trace contaminants)			No. 001	Type CM	00016
b.					Y
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100 Bin # DB679 CTO-13, Parcel 98			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Perricini		Signature <i>Bob Perricini</i>		Date 03 28 02	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Tommy Gonzalez		Signature <i>Tommy Gonzalez</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		Printed/Typed Name		Signature	
				Date	

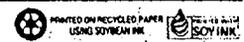
NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Use only on elite (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11337	2. Page 1 of 1		
Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11337			
Generator's Phone: 510 749-5939				Shirley Ng			
5. Transporter 1 Company Name Acklam Trucking		6. US EPA ID Number		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone			
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone 925-449-6349			
11. WASTE DESCRIPTION Non-hazardous waste solid (soil with trace contaminants)				12. Containers			
				No.	Type	13. Total Quantity	14. Unit Wt./Vol.
				001	CM	00016	Y
				b.			
				c.			
11a. Additional Descriptions for Materials Listed Above 1x20yd roll-off, Profile # 55047100 Bin # DR698				H. Handling Codes for Wastes Listed Above			
CTO-13, Parcel 98							
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Bob Perricone				Signature <i>Bob Perricone</i>			
17. Transporter 1 Acknowledgement of Receipt of Materials				Date 03/28/02			
Printed/Typed Name TODD ACKLAM				Signature <i>Todd Acklam</i>			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name				Signature			
19. Discrepancy Indication Space							
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature			
				Date			

NON-HAZARDOUS WASTE

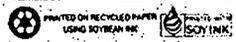


NON-HAZARDOUS WASTE MANIFEST

Form designed for use on elite (12 pitch) typewriter

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11338	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11338	
4. Generator's Phone: 510 749-5939 Shirley Ng					
5. Transporter 1 Company Name Denbriste Transportative		6. US EPA ID Number CA0982513632		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone: (800) 838-1477	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone: 925-449-6349	
11. WASTE DESCRIPTION Non-hazardous waste solid (soil with trace contaminants)			12. Containers		13. Total Quantity
			No.	Type	Unit
			001	CM	00016
					Y
11a. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100 Bin # <u>DB733</u>			14. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name Bob Peracchio		Signature <i>Bob Peracchio</i>		Month	Day Year
				03	28 02
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name Tony Gonzalez		Signature <i>Tony Gonzalez</i>		Month	Day Year
				03	28 02
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name		Signature		Month	Day Year
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.					
Printed/Typed Name				Date	
Signature		Month	Day	Year	

NON-HAZARDOUS WASTE



NON-HAZARDOUS WASTE MANIFEST

Print on Recycled Paper (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11339	2. Page 1 of 1 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St. Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11339	
4. Generator's Phone (510 749-5939)		Shirley Ng			
5. Transporter 1 Company Name Denbeste Transportation		6. US EPA ID Number CA0982513632		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone: 800-838-1477	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CA D 981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
Non-hazardous waste solid (soil with trace contaminants)			No.	Type	Unit
					WL/Vol.
			001	CM	00016
					Y
11a. 1x20yd roll-off, Profile # 55047100			H. Handling Codes for Wastes Listed Above		
Bin # DB 727					
CTO-13, Parcel 98					
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Peppicone		Signature <i>Bob Peppicone</i>		Date 03/28/02	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Richard MORENO		Signature <i>Richard Moreno</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

(Form designed for use on egg (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. CA 2170023236	Manifest Document No. 11340	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501		NON HAZ WASTE MAN # 11340	
4. Generator's Phone (510 749-5939) Shirley Ng			
5. Transporter 1 Company Name Acklam Trucking	6. US EPA ID Number	A. State Transporter's ID	
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore CA 94550-6349		C. State Transporter's ID	
10. US EPA ID Number CAD981382732		D. Transporter 2 Phone	
		E. State Facility's ID	
		F. Facility's Phone 925-449-6349	

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
Non-hazardous waste solid (soil with trace contaminants)	001	CM	00016	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100 Bin # <u>DB755</u> CTO-13, Parcel 98	H. Handling Codes for Wastes Listed Above
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15. Special Handling Instructions and Additional Information
**Wear proper protective equipment while handling. Weights or volumes are approximate.
 24 Hour emergency telephone number (800) 255-3924 (Chem-tel).
 Pick-up location: Alameda Point, Alameda, CA**

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name Bob Perkinson	Signature <i>Bob Perkinson</i>	Date Month Day Year 03 28 02
17. Transporter 1 Acknowledgement of Receipt of Materials		Date
Printed/Typed Name TODD ACKLAM	Signature <i>Todd Acklam</i>	Month Day Year 03 28 02
18. Transporter 2 Acknowledgement of Receipt of Materials		Date
Printed/Typed Name	Signature	Month Day Year
19. Discrepancy Indication Space		
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name	Signature	Date Month Day Year

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 1134 1134 B8	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 1134	
4. Generator's Phone (510) 749-5939 Shirley Ng					
5. Transporter 1 Company Name Denbeste Transportation		6. US EPA ID Number CAD982513632		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 800-838-1477	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity	14. Unit WL/Vol.
Non-hazardous waste solid (soil with trace contaminants)		No.	Type		
		001	CM	00016	Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100				H. Handling Codes for Wastes Listed Above	
CTO-13, Parcel 98 Bin DB685					
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Perrone		Signature <i>Bob Perrone</i>		Date Month Day Year 03 28 02	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Tony Gonzalez		Signature <i>Tony Gonzalez</i>		Date Month Day Year 03 28 02	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date Month Day Year	

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11342	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11342	
4. Generator's Phone (510 749-5939)		Shirley Ng			
5. Transporter 1 Company Name Debate Transpirtals		6. US EPA ID Number CA0982513632		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 800-838-1477	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CA D981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION Non-hazardous waste solid (soil with trace contaminants)		12. Containers		13. Total Quantity	
		No.	Type	Unit	
		001	CM	00016	
		004		00016	
		002			
11a. 1x20yd roll-off, Profile # 55047100		H. Handling Codes for Wastes Listed Above			
CTO-13, Parcel 98 Bin DB744					
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Proenza		Signature <i>Bob Proenza</i>		Date 03/29/02	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Tony Gonzalez		Signature <i>Tony Gonzalez</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.					
Printed/Typed Name		Signature		Date	

NON-HAZARDOUS WASTE GENERATOR



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA-2170023236		Manifest Document No. 11343	2. Page 1 of 1	
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN #		
4. Generator's Phone (510) 749-5939		Shirley Ng				
5. Transporter 1 Company Name DenBeste		6. US EPA ID Number ICND 982513638		A. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 800 838-1477		
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID		
				D. Transporter 2 Phone		
				E. State Facility's ID		
				F. Facility's Phone 925-449-6349		
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt/Vol.	
Non-hazardous waste solid (soil with trace contaminants)			No.	Type		
			001	CM	00016	Y
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047160 CTO-13, Parcel 98 B. # DB751			H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate, 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA						
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.						
Printed/Typed Name Bob Perricini		Signature <i>Bob Perricini</i>		Date Month Day Year 03 29 02		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Tony Gonzalez		Signature <i>Tony Gonzalez</i>		Date Month Day Year 03 29 02		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Date		
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.						
Printed/Typed Name		Signature		Date		

NON-HAZARDOUS WASTE

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on 8 1/2 (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11344	2. Page 1 of 1	
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11344		
4. Generator's Phone (510) 749-5939 Shirley Ng						
5. Transporter 1 Company Name Acklam Trucking		6. US EPA ID Number		A. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone		
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID		
				D. Transporter 2 Phone		
				E. State Facility's ID		
				F. Facility's Phone 925-449-6349		
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.	
Non-hazardous waste solid (soil with trace contaminants)			No.	Type		
			001	CM	00016	Y
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA			H. Handling Codes for Wastes Listed Above			
11a. 1x20yd roll-off, Profile # 55047100						
CTO-13, Parcel 98 Bin # DB642						
18. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.						
Printed/Typed Name Bob Perrine		Signature <i>Bob Perrine</i>		Date 03/28/02		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Todd Acklam		Signature <i>Todd Acklam</i>		
				Date 03/29/02		
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		
				Date		
19. Discrepancy Indication Space						
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.						
Printed/Typed Name		Signature		Date		

NON-HAZARDOUS WASTE



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11494	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN #	
4. Generator's Phone 510, 749-5939		Shirley Ng			
5. Transporter 1 Company Name Denbest Transportation		6. US EPA ID Number CAD982513632		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 800-838-1477	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION Non-hazardous waste solid (soil with trace contaminants)			12. Containers		13. Total Quantity
			No.	Type	Unit Wt./Vol.
			001	CM	00016
b.					
c.					
d.					
11a. 1x20yd roll-off, Profile # 55047100			H. Handling Codes for Wastes Listed Above		
CTO-13, Parcel 98 Bin # DB684					
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bill Ferricone		Signature <i>Bill Ferricone</i>		Date 03/28/02	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Richard Morenu		Signature <i>Richard Morenu</i>		Date 03/29/02	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	

NON-HAZARDOUS WASTE GENERATOR

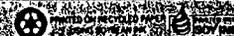


NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11495	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11495	
4. Generator's Phone (510) 749-5939		Shirley Ng			
5. Transporter 1 Company Name Acklam Trucking	6. US EPA ID Number		A. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter 1 Phone		
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CA D 981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit WL/Vol.	
Non-hazardous waste solid (soil with trace contaminants)		No.	Type		
		001	CM	00016	Y
		b.			
		c.			
d.					
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100		H. Handling Codes for Wastes Listed Above			
CTO-13, Parcel 98		Bin# DB743			
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Perrigan		Signature <i>[Signature]</i>		Date 03 29 02	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name TODD Acklam		Signature <i>[Signature]</i>		Date 03 29 02	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	

NON-HAZARDOUS WASTE



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11496	2. Page 1 of 1	
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN #11496		
4. Generator's Phone (510) 749-5939				Shirley Ng		
5. Transporter 1 Company Name Denbeste Transportation		6. US EPA ID Number CAD982513632		A. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 800-838-1477		
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID		
				D. Transporter 2 Phone		
				E. State Facility's ID		
				F. Facility's Phone 925-449-6349		
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.	
Non-hazardous waste solid (soil with trace contaminants)			No.	Type		
			001	CM	00016	Y
b.						
c.						
d.						
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100			H. Handling Codes for Wastes Listed Above			
CTO-13, Parcel 98			Bin # 646			
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA						
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.						
Printed/Typed Name Bob Perrudin			Signature <i>Bob Perrudin</i>		Date 03/29/02	
17. Transporter 1 Acknowledgement of Receipt of Materials			Date			
Printed/Typed Name Tony Gonzalez			Signature <i>Tony Gonzalez</i>		Date 03/29/02	
18. Transporter 2 Acknowledgement of Receipt of Materials			Date			
Printed/Typed Name			Signature		Date	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.						
Printed/Typed Name			Signature		Date	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11497	2. Page 1 of 1	
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11497		
4. Generator's Phone (510) 749-5939 Shirley Ng						
5. Transporter 1, Company Name Denbeste Transportation		6. US EPA ID Number CAD982513632		A. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 800-858-1472		
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number CAD981382732		C. State Transporter's ID		
				D. Transporter 2 Phone		
				E. State Facility's ID		
				F. Facility's Phone 925-449-6349		
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt/Vol.	
Non-hazardous waste solid (soil with trace contaminants) b. c. d.			No.	Type		
			001	CM	00016	Y
G. Additional Descriptions for Materials Listed Above 11a. 1x20yd roll-off, Profile # 55047100 CTO-13, Parcel 98 Bin # DB ^{NY} 696				H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA						
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.						
Printed/Typed Name Bar. Pecorelli			Signature <i>Bar. Pecorelli</i>	Date Month Day Year 03 29 02		
17. Transporter 1 Acknowledgement of Receipt of Materials			Date			
Printed/Typed Name Richard Moxey			Signature <i>Richard Moxey</i>	Date Month Day Year 03 29 02		
18. Transporter 2 Acknowledgement of Receipt of Materials			Date			
Printed/Typed Name			Signature	Date Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.						
Printed/Typed Name			Signature	Date Month Day Year		

NON-HAZARDOUS WASTE GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 2170023236		Manifest Document No. 11498	2. Page 1 of 1
3. Generator's Name and Mailing Address ROICC - Alameda Point 2450 Saratoga St, Suite 200 Alameda, CA 94501				NON HAZ WASTE MAN # 11498	
4. Generator's Phone (510/749-5939)		Shirley Ng			
5. Transporter 1 Company Name Debeste Trans		6. US EPA ID Number 1CA0982513632		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 400-838-1477	
9. Designated Facility Name and Site Address Altamont Landfill & Resource Recovery Facility 10840 Altamont Pass Road Livermore, CA 94550-6349		10. US EPA ID Number 1CAD981382732		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 925-449-6349	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
Non-hazardous waste solid (soil with trace contaminants)			No. 001	Type CM	00016 Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
11a. 1x20yd roll-off, Profile # 55047100					
CTO-13, Parcel 98 Bin # DB724					
15. Special Handling Instructions and Additional Information Wear proper protective equipment while handling. Weights or volumes are approximate. 24 Hour emergency telephone number (800) 255-3924 (Chem-tel). Pick-up location: Alameda Point, Alameda, CA					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name Bob Pappas				Signature <i>Bob Pappas</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date 04/10/02	
Printed/Typed Name Tom Gonzalez				Signature <i>Tom Gonzalez</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date 04/10/02	
Printed/Typed Name				Signature	
19. Discrepancy Indication Space				Date	
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				Date	
Printed/Typed Name				Signature	
				Date	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER FACILITY

**APPENDIX E
PHOTO LOG**

Photo Log



Photo 1 – Building 195, Pesticide Storage Shed



Photo 2 – Interior Lead Abatement Activity, Building 195

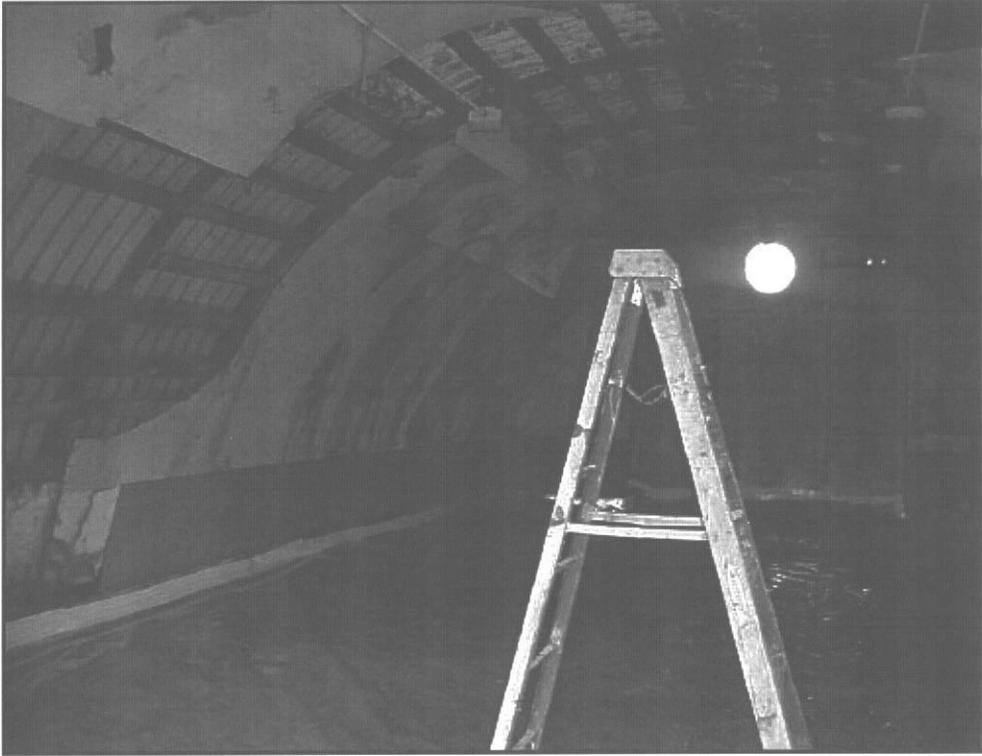


Photo 3 – Pre-Abatement Interior, Building 195



Photo 4 – Post-Abatement Interior, Building 195



Photo 7 – Vegetative Debris Removal



Photo 8 – Vegetative Debris Transportation



Photo 5 – Demolition of Building 195

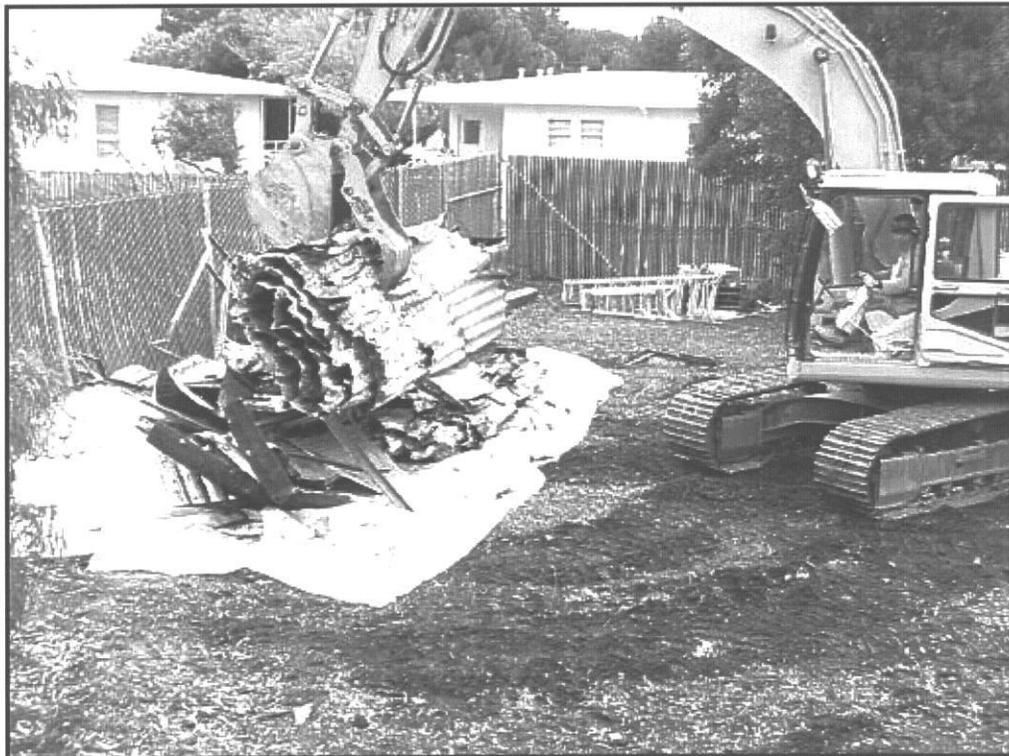


Photo 6 – Demolition Bi-Products, Building 195



Photo 9 – First Soil Excavation-Deep (View to Southeast)



Photo 10 – First Soil Excavation-Deep, Near Completion (View to Southeast)



Photo 11 – First Soil Excavation, Shallow (View to Southwest)



Photo 12 – Loading Excavation Soil for Disposal



Photo 13 – Transportation of Excavated Soil



Photo 14 – Second Excavation – In Progress (View to Southwest)



Photo 15 – Second Excavation – Completed (View to Southwest)



Photo 16 – Second Excavation – Eastern Boundary (Looking South)

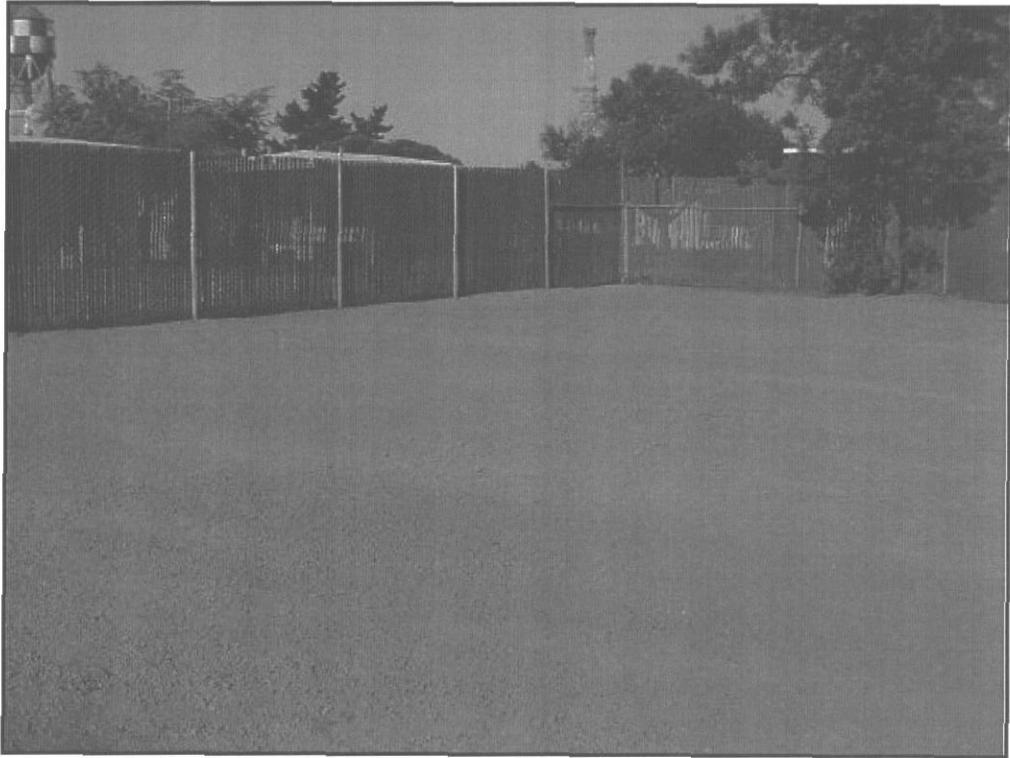


Photo 17 – Backfilled Excavation (View to Southwest)



Photo 18 – Backfilled Excavation (View to West)

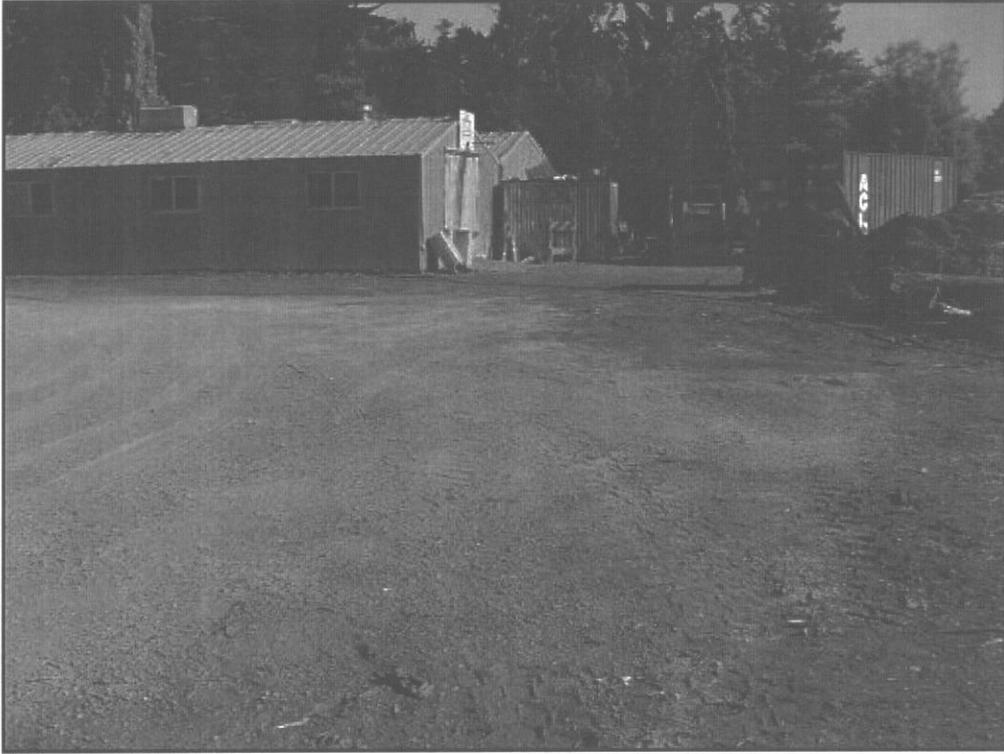


Photo 19 – Backfilled Excavation (View to North)

**APPENDIX F
DATA QUALITY ASSESSMENT**

1.0 Data Quality Assessment

Forty five (45) primary soil samples, six field duplicates and six groundwater samples were collected from the pesticide shed area at Alameda Point from December 14, 2001 through March 28, 2002. The samples were sent to Applied Physics and Chemistry Laboratory (APCL) in Chino, California. Soil and groundwater samples were analyzed for the following parameters:

- Organochlorine pesticides by EPA Method 8081A
- Lead by EPA Methods 6010B/7471A
- Polychlorinated biphenyls (PCBs) by EPA Method 8082

One soil sample of borrow material from the Scott Creek Quarry was analyzed for the following parameters:

- TPH as gasoline, diesel and motor oil by EPA Method 8015B
- Organochlorine pesticides by EPA Method 8081A
- California Code of Regulations (CCR) Title 22 Metals by EPA Methods 6010B/7471A
- PCBs by EPA Method 8082
- Polycyclic aromatic hydrocarbons (PAHs) by EPA 8270C SIM
- pH by EPA 9045C

1.1 Data Quality Indicators

Analytical data for this project were assessed in terms of precision, accuracy, representativeness and comparability, based on the requirements of the analytical methods.

The analytical data were reported in the sample delivery groups (SDGs) shown below. The data were validated by Laboratory Data Consultants, Inc., at EPA Level III with one SDG, 02-2214 at EPA Level IV. The findings of the data validation process are summarized in this section. The summaries of qualified analytical data are shown in Tables 1 through 4.

APCL SDG 01-7729	APCL SDG 01-7731	APCL SDG 02-1634	APCL SDG 02-1713
098-0066 098-0068 098-0069 098-0070 098-0071 098-0072 098-0075 (field duplicate of 098-0062)	098-0044 ; 098-0045 098-0046 ; 098-0047 098-0048 ; 098-0049 098-0050 ; 098-0051 098-0052 ; 098-0053 098-0054 ; 098-0055 098-0056 ; 098-0057 098-0058 ; 098-0059 098-0060 ; 098-0061 098-0062 ; 098-0063 098-0064 ; 098-0065 098-0067 ; 098-0073 (field duplicate of 098-0045) 098-0074 ; 098-0076 098-0077 ; 098-0075 (field duplicate of 098- 0062)	098-0078 098-0079 098-0080 098-0081 098-0082 098-0083 098-0084 098-0085 098-0086 098-0087 098-0088 098-0089 098-0090 (field duplicate of 098-0082) 098-0091	098-0078A 098-0078B 098-0078C 098-0080A 098-0080B 098-0080C
APCL SDG 02-1787	APCL SDG 02-2214	APCL SDG 02-2878	
098-0094 098-0095 098-0096 098-0097 098-0098 098-0099(field duplicate of 098-0098)	98-0100 98-0101 98-0102 98-0103 98-0104 (field duplicate of 098-0103)	098-0107	

1.2 Level III and Level IV Data Validation

The following laboratory quality control (QC) parameters were evaluated during the Level III validation process:

- Sample receipt, preservation and holding times (representativeness)
- Method blanks
- Surrogate standard recoveries (accuracy)
- Calibrations (initial and continuing)
- Internal standards (EPA Methods 8270C SIM and 8081A only)
- Laboratory control spikes (LCSs)/laboratory control spike duplicates (precision and accuracy)
- Matrix spikes (MSs)/matrix spike duplicates (MSDs) (precision and accuracy)

- Interference check samples/serial dilutions (EPA 6010B only)
- Recalculation of sample results from raw laboratory data (Level IV only)

1.2.1 Sample Receipt, Temperature, and Holding Times

All sample shipments were received at the laboratory within the EPA-specified temperature range of 2 to 6 degrees Celsius (°C). Sample preservation was according to the EPA method requirements, and all holding times were met for all analyses.

1.2.2 Method Blanks and Rinse Blank

A method blank is a matrix equivalent sample used to check reagent or process introduced contamination during the method preparation and analysis. The continuing calibration blank is used in metals analysis to monitor instrument contamination.

The method blanks, continuing calibration blanks and rinse blanks did not contain any analytes of interest at or above the method reporting limits for all analyses, with the following exception:

Metals (EPA 6010B)

Selenium was detected at a low concentration in the continuing calibration blank for SDG 02-2878. Selenium was also detected in project sample 98-0107 at a concentration less than five times the blank concentration. The sample result was reported as not detected (U) at the reporting limit. Data usability was not affected.

TPH as gasoline (EPA 8015B)

TPH as gasoline was detected at a low concentration in method blank for SDG 02-2878. TPH as gasoline was also detected in project sample 98-0107 at concentration less than five times the blank concentration. The sample result was reported as not detected (U) at the reporting limit. Data usability was not affected.

1.2.3 Surrogate Standards

Surrogate standards are added prior to extraction and analysis for EPA Methods 8015B, 8270C SIM, 8082 and 8081A to monitor the efficiency of the extraction and the accuracy of the analysis for each sample. All of the surrogate spike recoveries were within the laboratory specified control limits for all samples, with the following exceptions:

Chlorinated Pesticides (EPA Method 8081A)

The surrogate standard recoveries for samples 098-0051, 098-0052 and 098-0053 were below the required control limits. Chlorinated pesticide results for these three samples

were qualified as estimated concentrations (J/UJ), due to the low surrogate recoveries. Data usability was not affected.

PCB (EPA Method 8082)

The surrogate standard recoveries for samples 098-0095 and 098-0097 were above the required control limits. No PCBs were detected in either of these samples so no data were qualified due to the high surrogate recoveries. Data usability was not affected.

1.24 Calibrations

The requirements for initial and continuing calibrations were met for all analyses, with the following exceptions:

PAHs (EPA Method 8270C SIM)

The relative standard deviation (%RSD) did not meet the method specified criteria of less than 15% in the initial calibration for SDG 02-2878 for: benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-c,d)pyrene, benzo (g,h,I) perylene and dibenz(a,h)anthracene. Project sample results were qualified as estimated concentrations (J/UJ) for all of these analytes based on the initial calibration. Data usability was not affected.

1.25 Internal Standards

Internal standards are usually synthetic compounds, which are similar in chemical behavior to the target analytes. They are added to samples at the time of instrument analysis and are used to quantify results through internal standard calibration procedures. Internal standard recoveries are used to correct for injection and detector variability. All internal standard areas and retention times for EPA Methods 8270C, 8270-SIM and 8081A were within the method specified criteria, with the following exception:

Chlorinated pesticides (EPA Method 8081A)

The percent difference (%D) for the internal standard was above the method specified criteria (50-200%) in sample 098-0094 and 098-0095. No pesticides were detected in either sample, therefore, the sample results were not qualified due to internal standard recovery. Data usability was not affected.

1.26 Interference Check Sample and Serial Dilutions

The interference check sample (ICS) is used to measure the inter-element interference for inductively coupled plasma (ICP) analysis (EPA Method 6010B). It measures the positive or negative bias of the instrument based on high concentrations of known

interfering elements. All interference check samples met the method required acceptance criteria.

The serial dilution is used to measure matrix interference which causes instrument signal suppression. All serial dilutions met the method specified acceptance criteria with the following exceptions:

SDG 01-7729 and 01-7731

The percent difference (%D) for lead in the serial dilution of samples 098-0066 and 098-0074 was 32.4% and 15.9%, respectively, which is above the 10% acceptance criteria. Associated samples in each SDG were qualified as estimate concentrations (J) for lead due to the non-compliant serial dilutions. Data usability was not affected.

SDG 02-2878

The percent difference (%D) for arsenic, barium, chromium, cobalt, and nickel in the serial dilution of sample 098-0107 were above the 10% acceptance criteria. Detected concentrations of these elements in sample 098-0107 were qualified as estimate concentrations (J) due to the non-compliant serial dilutions. Data usability was not affected.

1.2.7 Laboratory Control Samples

Laboratory control samples are blank matrix equivalent spiked samples that are carried through the entire method preparation and analysis. They are used to evaluate the accuracy and precision of the preparation and analysis without matrix interference. LCSs are prepared with each batch of samples for every analysis. All the LCS recoveries were within the specified control limits for all analyses.

1.2.8 Matrix Spikes and Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicates (MSD) are representative matrix samples spiked with known concentrations of analytes and carried through the entire method preparation and analysis. They are used to evaluate any bias introduced to the method due to matrix interferences, and to measure accuracy (percent recovery) and precision using RPD of recoveries for each analytical batch. All percent recoveries and RPDs were within the specified control limits for all MS/MSD analyses, with the following exceptions:

Metals (EPA Method 6010B)

The percent recovery for lead in the MS/MSD of sample 098-0049 was above the upper control limit. All detected concentrations of lead in project samples 098-0044 through 098-0064 were qualified as estimated concentrations (J) based on the MS/MSD recovery. Data usability was not affected.

Chlorinated Pesticides (EPA Method 8081A)

The percent recoveries for aldrin, gamma-BHC, DDT, dieldrin, endrin and heptachlor in the MS/MSD of sample 098-0095 were all above the upper control limit. All project samples in SDG 02-1787 were qualified as estimated concentrations (J/UJ) for these six pesticides based on the MS/MSD recovery. Data usability was not affected, but this does indicate contaminant variability in the sampled matrix.

1.2.9 Field Duplicates

Six soil field duplicate samples were collected and analyzed throughout the project. Field duplicate precision is presented in Table 5. The field duplicate precision (greater than 50%) indicates sample heterogeneity and variability in contaminant concentration distribution at the site.

1.3 Chemical Data Quality and Usability

In summary, all of the QC data are indicative of acceptable analytical method performance. The anomalies mentioned above do not invalidate the data for its intended use. All of the data are valid and usable for project decisions.

TABLES

**Summary of Analytical Results
Contamination Delineation
CTO 13, Pesticide Shed, Alameda Point**

Sampl ID		098-0044	098-0045	098-0046	098-0047	098-0048	098-0049	098-0050	098-0051	098-0052	098-0053
Sample Date		12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001
Parameter	Units										
Metals (EPA 6010B)											
Lead	mg/kg	56.1 J	57.1 J	30.3 J	57.3 J	82.6 J	18.5 J	52.9 J	26.8 J	83 J	94.9 J
Organochlorine Pesticides (EPA 8081A)											
4,4'-DDD	µg/kg	6	3.5 U	4	6	10	3.4 U	3.3 U	3.3 UJ	5.5 UJ	3.4 UJ
4,4'-DDE	µg/kg	8.9	1	1	4	10	3.4 U	3.3 U	3.3 UJ	5.5 UJ	3.4 UJ
4,4'-DDT	µg/kg	46	7.3	7.6	13	37	2	4	7.5 J	5.5 UJ	3.4 UJ
Aldrin	µg/kg	1.9 U	2 U	1.9 U	2.1 U	3.2 U	1.9 U	1.9 U	1.9 UJ	3.1 UJ	1.9 UJ
alpha-BHC	µg/kg	1.9 U	2 U	1.9 U	2.1 U	3.2 U	1.9 U	1.9 U	1.9 UJ	3.1 UJ	1.9 UJ
alpha-Chlordane	µg/kg	4.1	3.3	2	5.8	4.8	1.1 U	1.1 U	0.4 J	1.8 UJ	1.1 UJ
beta-BHC	µg/kg	1.9 U	2 U	1.9 U	2.1 U	3.2 U	1.9 U	1.9 U	1.9 UJ	3.1 UJ	1.9 UJ
delta-BHC	µg/kg	1.9 U	2 U	1.9 U	2.1 U	3.2 U	1.9 U	1.9 U	1.9 UJ	3.1 UJ	1.9 UJ
Dieldrin	µg/kg	3.4 U	3.5 U	3.4 U	3.8 U	5.6 U	3.4 U	3.3 U	3.3 UJ	5.5 UJ	3.4 UJ
Endosulfan I	µg/kg	1.9 U	2 U	1.9 U	2.1 U	3.2 U	1.9 U	1.9 U	1.9 UJ	3.1 UJ	1.9 UJ
Endosulfan II	µg/kg	3.4 U	3.5 U	3.4 U	3.8 U	5.6 U	3.4 U	3.3 U	3.3 UJ	5.5 UJ	3.4 UJ
Endosulfan sulfate	µg/kg	5.7 U	5.8 U	5.7 U	6.3 U	9.4 U	5.7 U	5.5 U	5.5 UJ	9.2 UJ	5.6 UJ
Endrin	µg/kg	3.4 U	3.5 U	3.4 U	3.8 U	5.6 U	3.4 U	3.3 U	3.3 UJ	5.5 UJ	3.4 UJ
Endrin aldehyde	µg/kg	3.4 U	3.5 U	3.4 U	3.8 U	5.6 U	3.4 U	3.3 U	3.3 UJ	5.5 UJ	3.4 UJ
Endrin ketone	µg/kg	2.3 U	2.3 U	2.3 U	2.5 U	3.8 U	2.3 U	2.2 U	2.2 UJ	3.7 UJ	2.2 UJ
gamma-BHC	µg/kg	1.9 U	2 U	1.9 U	2.1 U	3.2 U	1.9 U	1.9 U	1.9 UJ	3.1 UJ	1.9 UJ
gamma-Chlordane	µg/kg	2.5	2	2	5	6.1	1.1 U	0.6	2 J	3 J	2 J
Heptachlor	µg/kg	1.9 U	2 U	1.9 U	2.1 U	3.2 U	1.9 U	1.9 U	1.9 UJ	3.1 UJ	1.9 UJ
Heptachlor epoxide	µg/kg	1.9 U	2 U	1.9 U	2.1 U	3.2 U	1.9 U	1.9 U	1.9 UJ	3.1 UJ	1.9 UJ
Methoxychlor	µg/kg	11 U	12 U	11 U	13 U	19 U	11 U	11 U	11 UJ	18 UJ	11 UJ
Toxaphene	µg/kg	110 U	120 U	110 U	130 U	190 U	110 U	110 U	110 UJ	180 UJ	110 UJ
Polychlorinatedbiphenyls (EPA 8082)											
Aroclor-1016	µg/kg	38 U	38 U	38 U	42 U	62 U	37 U	37 U	36 U	60 U	37 U
Aroclor-1221	µg/kg	75 U	76 U	75 U	83 U	120 U	75 U	73 U	72 U	120 U	74 U
Aroclor-1232	µg/kg	38 U	38 U	38 U	42 U	62 U	37 U	37 U	36 U	60 U	37 U
Aroclor-1242	µg/kg	38 U	38 U	38 U	42 U	62 U	37 U	37 U	36 U	60 U	37 U
Aroclor-1248	µg/kg	38 U	38 U	38 U	42 U	62 U	37 U	37 U	36 U	60 U	37 U
Aroclor-1254	µg/kg	38 U	38 U	38 U	42 U	62 U	37 U	37 U	36 U	60 U	37 U
Aroclor-1260	µg/kg	82	82	63	170	240	13	22	140	810	340

ug/kg denotes micrograms per kilogram

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the associated numerical value is an estimate.

T 1
Summary of Analytical Results
Contamination Delineation
CTO 13, Pesticide Shed, Alameda Point

Sampl ID		098-0054	098-0055	098-0056	098-0057	098-0058	098-0059	098-0060	098-0061	098-0062	098-0063
Sample Date		12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001
Parameter	Units										
Metals (EPA 6010B)											
Lead	mg/kg	5.4 J	127 J	291 J	1290 J	132 J	338 J	111 J	88.4 J	145 J	53.2 J
Organochlorine Pesticides (EPA 8081A)											
4,4'-DDD	µg/kg	3.5 U	3.2 U	not analyzed							
4,4'-DDE	µg/kg	3.5 U	3.2 U	not analyzed							
4,4'-DDT	µg/kg	0.6	0.4	not analyzed							
Aldrin	µg/kg	2 U	1.8 U	not analyzed							
alpha-BHC	µg/kg	2 U	1.8 U	not analyzed							
alpha-Chlordane	µg/kg	1.2 U	1.1 U	not analyzed							
beta-BHC	µg/kg	2 U	1.8 U	not analyzed							
delta-BHC	µg/kg	2 U	1.8 U	not analyzed							
Dieldrin	µg/kg	3.5 U	3.2 U	not analyzed							
Endosulfan I	µg/kg	2 U	1.8 U	not analyzed							
Endosulfan II	µg/kg	3.5 U	3.2 U	not analyzed							
Endosulfan sulfate	µg/kg	5.8 U	5.3 U	not analyzed							
Endrin	µg/kg	3.5 U	3.2 U	not analyzed							
Endrin aldehyde	µg/kg	3.5 U	3.2 U	not analyzed							
Endrin ketone	µg/kg	2.3 U	2.1 U	not analyzed							
gamma-BHC	µg/kg	2 U	1.8 U	not analyzed							
gamma-Chlordane	µg/kg	1.2 U	1.1 U	not analyzed							
Heptachlor	µg/kg	2 U	1.8 U	not analyzed							
Heptachlor epoxide	µg/kg	2 U	1.8 U	not analyzed							
Methoxychlor	µg/kg	12 U	11 U	not analyzed							
Toxaphene	µg/kg	120 U	110 U	not analyzed							
Polychlorinatedbiphenyls (EPA 8082)											
Aroclor-1016	µg/kg	38 U	35 U	not analyzed							
Aroclor-1221	µg/kg	77 U	70 U	not analyzed							
Aroclor-1232	µg/kg	38 U	35 U	not analyzed							
Aroclor-1242	µg/kg	38 U	35 U	not analyzed							
Aroclor-1248	µg/kg	38 U	35 U	not analyzed							
Aroclor-1254	µg/kg	38 U	35 U	not analyzed							
Aroclor-1260	µg/kg	38 U	35 U	not analyzed							

ug/kg denotes micrograms per kilogram

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the associated numerical value is an estimate.

**Summary of Analytical Results
Contamination Delineation
CTO 13, Pesticide Shed, Alameda Point**

Sampl ID		098-0064	098-0065	098-0067	098-0074	098-0075B	098-0076	098-0077
Sample Date		12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001
Parameter	Units							
Metals (EPA 6010B)								
Lead	mg/kg	107 J	1.7 J	2.1 J	2.8 J	94.8 J	206 J	162 J
Organochlorine Pesticides (EPA 8081A)								
4,4'-DDD	µg/kg	3.5 U	3.2 U	3.5 U	3.3 U	3.2 U	3	2
4,4'-DDE	µg/kg	3.5 U	3.2 U	3.5 U	3.3 U	3.2 U	3	2
4,4'-DDT	µg/kg	0.6	0.4	3.5 U	0.4	3.2 U	11	14
Aldrin	µg/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	2.3 U	2.2 U
alpha-BHC	µg/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	2.3 U	2.2 U
alpha-Chlordane	µg/kg	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	5.5	2
beta-BHC	µg/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	2.3 U	2.2 U
delta-BHC	µg/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	2.3 U	2.2 U
Dieldrin	µg/kg	3.5 U	3.2 U	3.5 U	3.3 U	3.2 U	4 U	3.9 U
Endosulfan I	µg/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	2.3 U	2.2 U
Endosulfan II	µg/kg	3.5 U	3.2 U	3.5 U	3.3 U	3.2 U	4 U	3.9 U
Endosulfan sulfate	µg/kg	5.8 U	5.3 U	5.8 U	5.5 U	5.3 U	6.6 U	6.5 U
Endrin	µg/kg	3.5 U	3.2 U	3.5 U	3.3 U	3.2 U	4 U	3.9 U
Endrin aldehyde	µg/kg	3.5 U	3.2 U	3.5 U	3.3 U	3.2 U	4 U	3.9 U
Endrin ketone	µg/kg	2.3 U	2.1 U	2.3 U	2.2 U	2.1 U	2.7 U	2.6 U
gamma-BHC	µg/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	2.3 U	2.2 U
gamma-Chlordane	µg/kg	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	2.8	2
Heptachlor	µg/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	2.3 U	2.2 U
Heptachlor epoxide	µg/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	2.3 U	2.2 U
Methoxychlor	µg/kg	12 U	11 U	12 U	11 U	11 U	13 U	13 U
Toxaphene	µg/kg	120 U	110 U	120 U	110 U	110 U	130 U	130 U
Polychlorinatedbiphenyls (EPA 8082)								
Aroclor-1016	µg/kg	<i>not analyzed</i>	39 U	39 U	36 U	35 U	44 U	43 U
Aroclor-1221	µg/kg	<i>not analyzed</i>	77 U	77 U	72 U	70 U	88 U	86 U
Aroclor-1232	µg/kg	<i>not analyzed</i>	39 U	39 U	36 U	35 U	44 U	43 U
Aroclor-1242	µg/kg	<i>not analyzed</i>	39 U	39 U	36 U	35 U	44 U	43 U
Aroclor-1248	µg/kg	<i>not analyzed</i>	39 U	39 U	36 U	35 U	44 U	43 U
Aroclor-1254	µg/kg	<i>not analyzed</i>	39 U	39 U	36 U	35 U	44 U	43 U
Aroclor-1260	µg/kg	<i>not analyzed</i>	39 U	39 U	5	35 U	69	220

ug/kg denotes micrograms per kilogram

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the associated numerical value is an estimate.

**Summary of Analytical Results, Soil Confirmation Samples
CTO 13, Pesticide Shed, Alameda Point**

Sampl ID	098-0078	098-0078A	098-0078B	098-0078C	098-0079	098-0080	098-0080A	098-0080B	098-0080C	098-0081	
Sample Date	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	
Parameter	Units										
Metals (EPA 6010B)											
Lead	mg/kg	28.3	not analyzed	not analyzed	not analyzed	32.4	24	not analyzed	not analyzed	not analyzed	36.4
Organochlorine Pesticides (EPA 8081A)											
4,4'-DDD	µg/kg	0.7	not analyzed	not analyzed	3.5 U	3.2 U	1	not analyzed	not analyzed	not analyzed	2
4,4'-DDE	µg/kg	1	not analyzed	not analyzed	3.5 U	3.2 U	2	not analyzed	not analyzed	not analyzed	1
4,4'-DDT	µg/kg	5	not analyzed	not analyzed	0.6	0.4	6.9	not analyzed	not analyzed	not analyzed	4
Aldrin	µg/kg	1.9 U	not analyzed	not analyzed	2 U	1.8 U	1.8 U	not analyzed	not analyzed	not analyzed	1.9 U
alpha-BHC	µg/kg	1.9 U	not analyzed	not analyzed	2 U	1.8 U	1.8 U	not analyzed	not analyzed	not analyzed	1.9 U
alpha-Chlordane	µg/kg	1.1 U	not analyzed	not analyzed	1.2 U	1.1 U	1.1 U	not analyzed	not analyzed	not analyzed	1.1 U
beta-BHC	µg/kg	1.9 U	not analyzed	not analyzed	2 U	1.8 U	1.8 U	not analyzed	not analyzed	not analyzed	1.9 U
delta-BHC	µg/kg	1.9 U	not analyzed	not analyzed	2 U	1.8 U	1.8 U	not analyzed	not analyzed	not analyzed	1.9 U
Dieldrin	µg/kg	44	56	51	3.5 U	3.2 U	80	180	13	14	3
Endosulfan I	µg/kg	1.9 U	not analyzed	not analyzed	2 U	1.8 U	1.8 U	not analyzed	not analyzed	not analyzed	1.9 U
Endosulfan II	µg/kg	3.3 U	not analyzed	not analyzed	3.5 U	3.2 U	3.2 U	not analyzed	not analyzed	not analyzed	3.4 U
Endosulfan sulfate	µg/kg	5.5 U	not analyzed	not analyzed	5.8 U	5.3 U	5.4 U	not analyzed	not analyzed	not analyzed	5.7 U
Endrin	µg/kg	3.3 U	not analyzed	not analyzed	3.5 U	3.2 U	3.2 U	not analyzed	not analyzed	not analyzed	3.4 U
Endrin aldehyde	µg/kg	3.3 U	not analyzed	not analyzed	3.5 U	3.2 U	3.2 U	not analyzed	not analyzed	not analyzed	3.4 U
Endrin ketone	µg/kg	2.2 U	not analyzed	not analyzed	2.3 U	2.1 U	2.2 U	not analyzed	not analyzed	not analyzed	2.3 U
gamma-BHC	µg/kg	1.9 U	not analyzed	not analyzed	2 U	1.8 U	1.8 U	not analyzed	not analyzed	not analyzed	1.9 U
gamma-Chlordane	µg/kg	1.1 U	not analyzed	not analyzed	1.2 U	1.1 U	1	not analyzed	not analyzed	not analyzed	1
Heptachlor	µg/kg	1.9 U	not analyzed	not analyzed	2 U	1.8 U	1.8 U	not analyzed	not analyzed	not analyzed	1.9 U
Heptachlor epoxide	µg/kg	1.9 U	not analyzed	not analyzed	2 U	1.8 U	1.8 U	not analyzed	not analyzed	not analyzed	1.9 U
Methoxychlor	µg/kg	11 U	not analyzed	not analyzed	12 U	11 U	11 U	not analyzed	not analyzed	not analyzed	11 U
Toxaphene	µg/kg	110 U	not analyzed	not analyzed	120 U	110 U	110 U	not analyzed	not analyzed	not analyzed	110 U
Polychlorinatedbiphenyls (EPA 8082)											
Aroclor-1016	µg/kg	36 U	not analyzed	not analyzed	not analyzed	36 U	36 U	not analyzed	not analyzed	not analyzed	38 U
Aroclor-1221	µg/kg	73 U	not analyzed	not analyzed	not analyzed	72 U	71 U	not analyzed	not analyzed	not analyzed	75 U
Aroclor-1232	µg/kg	36 U	not analyzed	not analyzed	not analyzed	36 U	36 U	not analyzed	not analyzed	not analyzed	38 U
Aroclor-1242	µg/kg	36 U	not analyzed	not analyzed	not analyzed	36 U	36 U	not analyzed	not analyzed	not analyzed	38 U
Aroclor-1248	µg/kg	36 U	not analyzed	not analyzed	not analyzed	36 U	36 U	not analyzed	not analyzed	not analyzed	38 U
Aroclor-1254	µg/kg	36 U	not analyzed	not analyzed	not analyzed	36 U	36 U	not analyzed	not analyzed	not analyzed	38 U
Aroclor-1260	µg/kg	65	not analyzed	not analyzed	not analyzed	10	58	not analyzed	not analyzed	not analyzed	26

ug/kg denotes micrograms per kilogram

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the associated numerical value is an estimate.

**Summary of Analytical Results, Soil Confirmation Samples
CTO 13, Pesticide Shed, Alameda Point**

Sampl ID		098-0082	098-0083	098-0084	098-0085	098-0086	098-0087	098-0088	098-0089	098-0094	098-0095
Sample Date		2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/13/2002	2/21/2002	2/21/2002
Parameter	Units										
Metals (EPA 6010B)											
Lead	mg/kg	5	13.8	23.9	38.2	17.1	33.6	49.2	36.5	124	156
Organochlorine Pesticides (EPA 8081A)											
4,4'-DDD	µg/kg	3.2 U	0.5	not analyzed	3.5 U	3.2 U	not analyzed	not analyzed	not analyzed	3.1 U	3.3 U
4,4'-DDE	µg/kg	3.2 U	0.4	not analyzed	3.5 U	3.2 U	not analyzed	not analyzed	not analyzed	3.1 U	3.3 U
4,4'-DDT	µg/kg	0.3	6	not analyzed	0.6	0.4	not analyzed	not analyzed	not analyzed	3.1 UJ	3.3 UJ
Aldrin	µg/kg	1.8 U	1.8 U	not analyzed	2 U	1.8 U	not analyzed	not analyzed	not analyzed	1.8 UJ	1.9 UJ
alpha-BHC	µg/kg	1.8 U	1.8 U	not analyzed	2 U	1.8 U	not analyzed	not analyzed	not analyzed	1.8 U	1.9 U
alpha-Chlordane	µg/kg	1.1 U	1.1 U	not analyzed	1.2 U	1.1 U	not analyzed	not analyzed	not analyzed	1 U	1.1 U
beta-BHC	µg/kg	1.8 U	1.8 U	not analyzed	2 U	1.8 U	not analyzed	not analyzed	not analyzed	1.8 U	1.9 U
delta-BHC	µg/kg	1.8 U	1.8 U	not analyzed	2 U	1.8 U	not analyzed	not analyzed	not analyzed	1.8 U	1.9 U
Dieldrin	µg/kg	11	6.8	not analyzed	3.5 U	3.2 U	not analyzed	not analyzed	not analyzed	3.1 UJ	3.3 UJ
Endosulfan I	µg/kg	1.8 U	1.8 U	not analyzed	2 U	1.8 U	not analyzed	not analyzed	not analyzed	1.8 U	1.9 U
Endosulfan II	µg/kg	3.2 U	3.2 U	not analyzed	3.5 U	3.2 U	not analyzed	not analyzed	not analyzed	3.1 U	3.3 U
Endosulfan sulfate	µg/kg	5.4 U	5.4 U	not analyzed	5.8 U	5.3 U	not analyzed	not analyzed	not analyzed	5.2 U	5.5 U
Endrin	µg/kg	3.2 U	3.2 U	not analyzed	3.5 U	3.2 U	not analyzed	not analyzed	not analyzed	3.1 UJ	3.3 UJ
Endrin aldehyde	µg/kg	3.2 U	3.2 U	not analyzed	3.5 U	3.2 U	not analyzed	not analyzed	not analyzed	3.1 U	3.3 U
Endrin ketone	µg/kg	2.1 U	2.2 U	not analyzed	2.3 U	2.1 U	not analyzed	not analyzed	not analyzed	2.1 U	2.2 U
gamma-BHC	µg/kg	1.8 U	1.8 U	not analyzed	2 U	1.8 U	not analyzed	not analyzed	not analyzed	1.8 UJ	1.9 UJ
gamma-Chlordane	µg/kg	1.1 U	1.1 U	not analyzed	1.2 U	1.1 U	not analyzed	not analyzed	not analyzed	1 U	1.1 U
Heptachlor	µg/kg	1.8 U	1.8 U	not analyzed	2 U	1.8 U	not analyzed	not analyzed	not analyzed	1.8 UJ	1.9 UJ
Heptachlor epoxide	µg/kg	1.8 U	1.8 U	not analyzed	2 U	1.8 U	not analyzed	not analyzed	not analyzed	1.8 U	1.9 U
Methoxychlor	µg/kg	11 U	11 U	not analyzed	12 U	11 U	not analyzed	not analyzed	not analyzed	10 U	11 U
Toxaphene	µg/kg	110 U	110 U	not analyzed	120 U	110 U	not analyzed	not analyzed	not analyzed	100 U	110 U
Polychlorinatedbiphenyls (EPA 8082)											
Aroclor-1016	µg/kg	35 U	36 U	not analyzed	35 U	36 U					
Aroclor-1221	µg/kg	71 U	71 U	not analyzed	69 U	72 U					
Aroclor-1232	µg/kg	35 U	36 U	not analyzed	35 U	36 U					
Aroclor-1242	µg/kg	35 U	36 U	not analyzed	35 U	36 U					
Aroclor-1248	µg/kg	35 U	36 U	not analyzed	35 U	36 U					
Aroclor-1254	µg/kg	35 U	36 U	not analyzed	35 U	36 U					
Aroclor-1260	µg/kg	6	64	not analyzed	340	220 J					

ug/kg denotes micrograms per kilogram

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the associated numerical value is an estimate.

**Summary of Analytical Results, Soil Confirmation Samples
CTO 13, Pesticide Shed, Alameda Point**

Sampl ID		098-0096	098-0097	098-0098	098-0100	098-0101	098-0102	098-0103
Sample Date		2/21/2002	2/21/2002	2/21/2002	3/28/2002	3/28/2002	3/28/2002	3/28/2002
Parameter	Units							
Metals (EPA 6010B)								
Lead	mg/kg	77.8	113	68.9	23.4	6.8	2.6	4.5
Organochlorine Pesticides (EPA 8081A)								
4,4'-DDD	µg/kg	4.3 U	4.6 U	4.7 U	3.3 U	3.3 U	3.3 U	3.2 U
4,4'-DDE	µg/kg	4.3 U	4.6 U	4.7 U	3.3 U	3.3 U	3.3 U	3.2 U
4,4'-DDT	µg/kg	4.3 UJ	4.6 UJ	4.7 UJ	3.3 U	3.3 U	3.3 U	3.2 U
Aldrin	µg/kg	2.5 UJ	2.6 UJ	2.6 UJ	1.8 U	1.9 U	1.9 U	1.8 U
alpha-BHC	µg/kg	2.5 U	2.6 U	2.6 U	1.8 U	1.9 U	1.9 U	1.8 U
alpha-Chlordane	µg/kg	1.4 U	1.5 U	1.6 U	1.1 U	1.1 U	1.1 U	1.1 U
beta-BHC	µg/kg	2.5 U	2.6 U	2.6 U	1.8 U	1.9 U	1.9 U	1.8 U
delta-BHC	µg/kg	2.5 U	2.6 U	2.6 U	1.8 U	1.9 U	1.9 U	1.8 U
Dieldrin	µg/kg	4.3 UJ	4.6 UJ	4.7 UJ	3.3 U	3.3 U	3.3 U	3.2 U
Endosulfan I	µg/kg	2.5 U	2.6 U	2.6 U	1.8 U	1.9 U	1.9 U	1.8 U
Endosulfan II	µg/kg	4.3 U	4.6 U	4.7 U	3.3 U	3.3 U	3.3 U	3.2 U
Endosulfan sulfate	µg/kg	7.2 U	7.6 U	7.8 U	5.4 U	5.4 U	5.5 U	5.3 U
Endrin	µg/kg	4.3 UJ	4.6 UJ	4.7 UJ	3.3 U	3.3 U	3.3 U	3.2 U
Endrin aldehyde	µg/kg	4.3 U	4.6 UJ	4.7 UJ	3.3 U	3.3 U	3.3 U	3.2 U
Endrin ketone	µg/kg	2.9 U	3 U	3.1 U	2.2 U	2.2 U	2.2 U	2.1 U
gamma-BHC	µg/kg	2.5 UJ	2.6 UJ	2.6 UJ	1.8 U	1.9 U	1.9 U	1.8 U
gamma-Chlordane	µg/kg	1.4 U	1.5 U	1.6 U	1.1 U	1.1 U	1.1 U	1.1 U
Heptachlor	µg/kg	2.5 UJ	2.6 UJ	2.6 UJ	1.8 U	1.9 U	1.9 U	1.8 U
Heptachlor epoxide	µg/kg	2.5 U	2.6 U	2.6 U	1.8 U	1.9 U	1.9 U	1.8 U
Methoxychlor	µg/kg	14 U	15 U	16 U	11 U	11 U	11 U	11 U
Toxaphene	µg/kg	140 U	150 U	160 U	110 U	110 U	110 U	110 U
Polychlorinatedbiphenyls (EPA 8082)								
Aroclor-1016	µg/kg	48 U	50 U	51 U	36 U	36 U	36 U	35 U
Aroclor-1221	µg/kg	96 U	100 U	100 U	72 U	72 U	72 U	70 U
Aroclor-1232	µg/kg	48 U	50 U	51 U	36 U	36 U	36 U	35 U
Aroclor-1242	µg/kg	48 U	50 U	51 U	36 U	36 U	36 U	35 U
Aroclor-1248	µg/kg	48 U	50 U	51 U	36 U	36 U	36 U	35 U
Aroclor-1254	µg/kg	48 U	50 U	51 U	36 U	36 U	36 U	35 U
Aroclor-1260	µg/kg	160	240 J	130	82	44	36 U	35 U

ug/kg denotes micrograms per kilogram

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the associated numerical value is an estimate.

**Summary of Analytical Results
Groundwater Delineation
CTO 13, Pesticide Shed, Alameda Point**

Sample ID		098-0066	098-0068	098-0069	098-0070	098-0071	098-0072
Sample Date		12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001	12/14/2001
Parameter	Units						
Metals (EPA 6010B)							
Lead	µg/L	137 J	194 J	121 J	61.5 J	38.3 J	49.6 J
Organochlorine Pesticides (EPA 8081A)							
4,4'-DDD	µg/L	0.1 U					
4,4'-DDE	µg/L	0.1 U					
4,4'-DDT	µg/L	0.1 U					
Aldrin	µg/L	0.05 U					
alpha-BHC	µg/L	0.05 U					
alpha-Chlordane	µg/L	0.05 U					
beta-BHC	µg/L	0.05 U					
delta-BHC	µg/L	0.05 U					
Dieldrin	µg/L	0.05	0.02	0.006	0.03	0.02	0.02
Endosulfan I	µg/L	0.05 U					
Endosulfan II	µg/L	0.1 U					
Endosulfan sulfate	µg/L	0.5 U					
Endrin	µg/L	0.1 U					
Endrin aldehyde	µg/L	0.1 U					
Endrin ketone	µg/L	0.1 U					
gamma-BHC	µg/L	0.05 U					
gamma-Chlordane	µg/L	0.05 U					
Heptachlor	µg/L	0.05 U					
Heptachlor epoxide	µg/L	0.05 U					
Methoxychlor	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Toxaphene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Polychlorinatedbiphenyls (EPA 8082)							
Aroclor-1016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221	µg/L	2 U	2 U	2 U	2 U	2 U	2 U
Aroclor-1232	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1248	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	µg/L	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260	µg/L	1 U	1 U	1 U	1 U	1 U	1 U

ug/l denotes micrograms per liter

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the associated numerical value is an estimate.

Table 4: Summary of Analytical Results from Borrow Soil Testing, Scott Creek Quarry

Sample ID		098-0107
Sample Location		Scott Creek Quarry
Sample Date		5/7/2002
Parameter	Units	
Polynuclear aromatic hydrocarbons (EPA 8270C-SIM)		
2-Methylnaphthalene	µg/kg	27 U
Acenaphthene	µg/kg	27 U
Acenaphthylene	µg/kg	27 U
Anthracene	µg/kg	27 U
Benzo(a)anthracene	µg/kg	27 U
Benzo(a)pyrene	µg/kg	27 U
Benzo(b)fluoranthene	µg/kg	27 UJ
Benzo(g,h,i)perylene	µg/kg	27 UJ
Benzo(k)fluoranthene	µg/kg	27 UJ
Chrysene	µg/kg	27 U
Dibenz(a,h)anthracene	µg/kg	27 UJ
Fluoranthene	µg/kg	27 U
Fluorene	µg/kg	27 U
Indeno(1,2,3-c,d)pyrene	µg/kg	27 UJ
Naphthalene	µg/kg	27 U
Phenanthrene	µg/kg	27 U
Pyrene	µg/kg	27 U
Total Petroleum Hydrocarbons (EPA 8015B)		
TPH as Motor Oil	mg/kg	6
TPH, as diesel fuel	mg/kg	11 U
TPH, as gasoline	mg/kg	1.1 U
Metals (EPA 6010B/7000)		
Antimony	mg/kg	5.4 U
Arsenic	mg/kg	4.1 J
Barium	mg/kg	60.7 J
Beryllium	mg/kg	0.15
Cadmium	mg/kg	0.21
Chromium	mg/kg	25.7 J
Cobalt	mg/kg	9.6 J
Copper	mg/kg	7
Lead	mg/kg	7
Molybdenum	mg/kg	0.43
Nickel	mg/kg	28.4 J
Selenium	mg/kg	0.54 U
Silver	mg/kg	0.54 U
Thallium	mg/kg	0.54 U
Vanadium	mg/kg	23.2
Zinc	mg/kg	35.1
Mercury	mg/kg	0.045
Pesticides (EPA 8081A)		
4,4'-DDD	µg/kg	3.2 U
4,4'-DDE	µg/kg	3.2 U
4,4'-DDT	µg/kg	3.2 U
Aldrin	µg/kg	1.8 U
alpha-BHC	µg/kg	1.8 U
alpha-Chlordane	µg/kg	1.1 U
beta-BHC	µg/kg	1.8 U

Table 4: Summary of Analytical Results from Borrow Soil Testing, Scott Creek Quarry

Sample ID		098-0107
Sample Location		Scott Creek Quarry
Sample Date		5/7/2002
Parameter	Units	
delta-BHC	µg/kg	1.8 U
Dieldrin	µg/kg	3.2 U
Endosulfan I	µg/kg	1.8 U
Endosulfan II	µg/kg	3.2 U
Endosulfan sulfate	µg/kg	5.4 U
Endrin	µg/kg	3.2 U
Endrin aldehyde	µg/kg	3.2 U
Endrin ketone	µg/kg	2.2 U
gamma-BHC	µg/kg	1.8 U
gamma-Chlordane	µg/kg	1.1 U
Heptachlor	µg/kg	1.8 U
Heptachlor epoxide	µg/kg	1.8 U
Methoxychlor	µg/kg	11 U
Toxaphene	µg/kg	110 U
PCBs (EPA 8082)		
Aroclor-1016	µg/kg	36 U
Aroclor-1221	µg/kg	71 U
Aroclor-1232	µg/kg	36 U
Aroclor-1242	µg/kg	36 U
Aroclor-1248	µg/kg	36 U
Aroclor-1254	µg/kg	36 U
Aroclor-1260	µg/kg	36 U
SVOCs (EPA 8270C)		
1,2,4-Trichlorobenzene	µg/kg	540 U
1,2-Dichlorobenzene	µg/kg	540 U
1,3-Dichlorobenzene	µg/kg	540 U
1,4-Dichlorobenzene	µg/kg	540 U
2,4,5-Trichlorophenol	µg/kg	540 U
2,4,6-Trichlorophenol	µg/kg	540 U
2,4-Dichlorophenol	µg/kg	540 U
2,4-Dimethylphenol	µg/kg	540 U
2,4-Dinitrophenol	µg/kg	2700 U
2,4-Dinitrotoluene	µg/kg	540 U
2,6-Dinitrotoluene	µg/kg	540 U
2-Chloronaphthalene	µg/kg	540 U
2-Chlorophenol	µg/kg	540 U
2-Methylnaphthalene	µg/kg	540 U
2-Methylphenol	µg/kg	540 U
2-Nitroaniline	µg/kg	2700 U
2-Nitrophenol	µg/kg	540 U
3,3'-Dichlorobenzidine	µg/kg	1100 U
3-Nitroaniline	µg/kg	2700 U
4,6-dinitro-2-methylphenol	µg/kg	2700 U
4-Bromophenylphenyl ether	µg/kg	540 U
4-Chloro-3-methylphenol	µg/kg	1100 U
4-Chloroaniline	µg/kg	1100 U
4-Chlorophenylphenyl ether	µg/kg	540 U
4-Methylphenol	µg/kg	540 U

Table 4: Summary of Analytical Results from Borrow Soil Testing, Scott Creek Quarry

Sample ID		098-0107
Sample Location		Scott Creek Quarry
Sample Date		5/7/2002
Parameter	Units	
4-Nitroaniline	µg/kg	2700 U
4-Nitrophenol	µg/kg	2700 U
Acenaphthene	µg/kg	540 U
Acenaphthylene	µg/kg	540 U
Anthracene	µg/kg	540 U
Benzo(a)anthracene	µg/kg	540 U
Benzo(a)pyrene	µg/kg	540 U
Benzo(b)fluoranthene	µg/kg	540 U
Benzo(g,h,i)perylene	µg/kg	540 U
Benzo(k)fluoranthene	µg/kg	540 U
Benzyl butyl phthalate	µg/kg	540 U
bis(2-Chloroethoxy)methane	µg/kg	540 U
bis(2-Chloroethyl)ether	µg/kg	540 U
bis(2-chloroisopropyl) ether	µg/kg	540 U
bis(2-Ethylhexyl)phthalate	µg/kg	540 U
Chrysene	µg/kg	540 U
Di-n-butyl phthalate	µg/kg	540 U
Di-n-octyl phthalate	µg/kg	540 U
Dibenz(a,h)anthracene	µg/kg	540 U
Dibenzofuran	µg/kg	540 U
Diethylphthalate	µg/kg	540 U
Dimethylphthalate	µg/kg	540 U
Fluoranthene	µg/kg	540 U
Fluorene	µg/kg	540 U
Hexachlorobenzene	µg/kg	540 U
Hexachlorobutadiene	µg/kg	540 U
Hexachlorocyclopentadiene	µg/kg	2700 U
Hexachloroethane	µg/kg	540 U
Indeno(1,2,3-c,d)pyrene	µg/kg	540 U
Isophorone	µg/kg	540 U
N-Nitrosodi-n-propylamine	µg/kg	540 U
N-Nitrosodiphenylamine	µg/kg	2700 U
Naphthalene	µg/kg	540 U
Nitrobenzene	µg/kg	540 U
Pentachlorophenol	µg/kg	2700 U
Phenanthrene	µg/kg	540 U
Phenol	µg/kg	540 U
Pyrene	µg/kg	540 U
Corrosivity		
pH		8.58

ug/kg denotes micrograms per kilogram

mg/kg denotes milligrams per kilogram

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the associated numerical value is an estimate.

Table 5: Field Duplicate Summary

Method	Compound	Sample Date	Primary Result	PQL	Dilution	Duplicate Result	PQL	Dilution	Units	RPD
098-0045 - SW6010B										
Dup ID: 098-0073										
	Lead	12/14/2001	57.1	0.35	1	33.1	0.34	1	mg/kg	53
098-0045 - SW8081A										
Dup ID: 098-0073										
	Aldrin	12/14/2001	<2	2	1	<2	2	1	µg/kg	NA
	alpha-BHC	12/14/2001	<2	2	1	<2	2	1	µg/kg	NA
	beta-BHC	12/14/2001	<2	2	1	<2	2	1	µg/kg	NA
	delta-BHC	12/14/2001	<2	2	1	<2	2	1	µg/kg	NA
	gamma-BHC	12/14/2001	<2	2	1	<2	2	1	µg/kg	NA
	alpha-Chlordane	12/14/2001	3.3	1.2	1	2	1.1	1	µg/kg	49
	gamma-Chlordane	12/14/2001	2	1.2	1	1	1.1	1	µg/kg	67
	4,4'-DDD	12/14/2001	<3.5	3.5	1	2	3.4	1	µg/kg	NA
	4,4'-DDE	12/14/2001	1	3.5	1	7.3	3.4	1	µg/kg	152
	4,4'-DDT	12/14/2001	7.3	3.5	1	12	3.4	1	µg/kg	49
	Dieldrin	12/14/2001	<3.5	3.5	1	<3.4	3.4	1	µg/kg	NA
	Endosulfan I	12/14/2001	<2	2	1	<2	2	1	µg/kg	NA
	Endosulfan II	12/14/2001	<3.5	3.5	1	<3.4	3.4	1	µg/kg	NA
	Endosulfan sulfate	12/14/2001	<5.8	5.8	1	<5.7	5.7	1	µg/kg	NA
	Endrin	12/14/2001	<3.5	3.5	1	<3.4	3.4	1	µg/kg	NA
	Endrin aldehyde	12/14/2001	<3.5	3.5	1	<3.4	3.4	1	µg/kg	NA
	Endrin ketone	12/14/2001	<2.3	2.3	1	<2.3	2.3	1	µg/kg	NA
	Heptachlor	12/14/2001	<2	2	1	<2	2	1	µg/kg	NA
	Heptachlor epoxide	12/14/2001	<2	2	1	<2	2	1	µg/kg	NA
	Methoxychlor	12/14/2001	<12	12	1	<11	11	1	µg/kg	NA
	Toxaphene	12/14/2001	<120	120	1	<110	110	1	µg/kg	NA
098-0045 - SW8082										
Dup ID: 098-0073										
	Aroclor-1016	12/14/2001	<38	38	1	<38	38	1	µg/kg	NA
	Aroclor-1221	12/14/2001	<76	76	1	<76	76	1	µg/kg	NA
	Aroclor-1232	12/14/2001	<38	38	1	<38	38	1	µg/kg	NA
	Aroclor-1242	12/14/2001	<38	38	1	<38	38	1	µg/kg	NA
	Aroclor-1248	12/14/2001	<38	38	1	<38	38	1	µg/kg	NA
	Aroclor-1254	12/14/2001	<38	38	1	<38	38	1	µg/kg	NA
	Aroclor-1260	12/14/2001	82	38	1	280	38	1	µg/kg	109
098-0062 - SW6010B										
Dup ID: 098-0075A										
	Lead	12/14/2001	145	0.37	1	594	2	5	mg/kg	122
098-0082 - SW6010B										
Dup ID: 098-0090										
	Lead	2/13/2002	5	0.32	1	7.4	0.33	1	mg/kg	39
098-0082 - SW8081A										
Dup ID: 098-0090										
	Aldrin	2/13/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	alpha-BHC	2/13/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	beta-BHC	2/13/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	delta-BHC	2/13/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	gamma-BHC	2/13/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	alpha-Chlordane	2/13/2002	<1.1	1.1	1	<1.1	1.1	1	µg/kg	NA
	gamma-Chlordane	2/13/2002	<1.1	1.1	1	<1.1	1.1	1	µg/kg	NA

Table 5: Field Duplicate Summary

Method	Compound	Sample Date	Primary			Duplicate			Units	RPD
			Result	PQL	Dilution	Result	PQL	Dilution		
098-0082 - SW8081A										
Dup ID: 098-0090										
	4,4'-DDD	2/13/2002	<3.2	3.2	1	<3.3	3.3	1	µg/kg	NA
	4,4'-DDE	2/13/2002	<3.2	3.2	1	<3.3	3.3	1	µg/kg	NA
	4,4'-DDT	2/13/2002	0.3	3.2	1	1	3.3	1	µg/kg	108
	Dieldrin	2/13/2002	11	3.2	1	5	3.3	1	µg/kg	75
	Endosulfan I	2/13/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	Endosulfan II	2/13/2002	<3.2	3.2	1	<3.3	3.3	1	µg/kg	NA
	Endosulfan sulfate	2/13/2002	<5.4	5.4	1	<5.4	5.4	1	µg/kg	NA
	Endrin	2/13/2002	<3.2	3.2	1	<3.3	3.3	1	µg/kg	NA
	Endrin aldehyde	2/13/2002	<3.2	3.2	1	<3.3	3.3	1	µg/kg	NA
	Endrin ketone	2/13/2002	<2.1	2.1	1	<2.2	2.2	1	µg/kg	NA
	Heptachlor	2/13/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	Heptachlor epoxide	2/13/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	Methoxychlor	2/13/2002	<11	11	1	<11	11	1	µg/kg	NA
	Toxaphene	2/13/2002	<110	110	1	<110	110	1	µg/kg	NA
098-0082 - SW8082										
Dup ID: 098-0090										
	Aroclor-1016	2/13/2002	<35	35	1	<36	36	1	µg/kg	NA
	Aroclor-1221	2/13/2002	<71	71	1	<72	72	1	µg/kg	NA
	Aroclor-1232	2/13/2002	<35	35	1	<36	36	1	µg/kg	NA
	Aroclor-1242	2/13/2002	<35	35	1	<36	36	1	µg/kg	NA
	Aroclor-1248	2/13/2002	<35	35	1	<36	36	1	µg/kg	NA
	Aroclor-1254	2/13/2002	<35	35	1	<36	36	1	µg/kg	NA
	Aroclor-1260	2/13/2002	6	35	1	14	36	1	µg/kg	80
098-0085 - SW6010B										
Dup ID: 098-0091										
	Lead	2/13/2002	38.2	0.34	1	40.8	0.33	1	mg/kg	7
098-0098 - SW6010B										
Dup ID: 098-0099										
	Lead	2/21/2002	68.9	0.47	1	144	0.55	1	mg/kg	71
098-0098 - SW8081A										
Dup ID: 098-0099										
	Aldrin	2/21/2002	<2.6	2.6	1	<3.1	3.1	1	µg/kg	NA
	alpha-BHC	2/21/2002	<2.6	2.6	1	<3.1	3.1	1	µg/kg	NA
	beta-BHC	2/21/2002	<2.6	2.6	1	<3.1	3.1	1	µg/kg	NA
	delta-BHC	2/21/2002	<2.6	2.6	1	<3.1	3.1	1	µg/kg	NA
	gamma-BHC	2/21/2002	<2.6	2.6	1	<3.1	3.1	1	µg/kg	NA
	alpha-Chlordane	2/21/2002	<1.6	1.6	1	<1.8	1.8	1	µg/kg	NA
	gamma-Chlordane	2/21/2002	<1.6	1.6	1	<1.8	1.8	1	µg/kg	NA
	4,4'-DDD	2/21/2002	<4.7	4.7	1	<5.5	5.5	1	µg/kg	NA
	4,4'-DDE	2/21/2002	<4.7	4.7	1	<5.5	5.5	1	µg/kg	NA
	4,4'-DDT	2/21/2002	<4.7	4.7	1	<5.5	5.5	1	µg/kg	NA
	Dieldrin	2/21/2002	<4.7	4.7	1	<5.5	5.5	1	µg/kg	NA
	Endosulfan I	2/21/2002	<2.6	2.6	1	<3.1	3.1	1	µg/kg	NA
	Endosulfan II	2/21/2002	<4.7	4.7	1	<5.5	5.5	1	µg/kg	NA
	Endosulfan sulfate	2/21/2002	<7.8	7.8	1	<9.2	9.2	1	µg/kg	NA
	Endrin	2/21/2002	<4.7	4.7	1	<5.5	5.5	1	µg/kg	NA
	Endrin aldehyde	2/21/2002	<4.7	4.7	1	<5.5	5.5	1	µg/kg	NA
	Endrin ketone	2/21/2002	<3.1	3.1	1	<3.7	3.7	1	µg/kg	NA

Table 5: Field Duplicate Summary

Method	Compound	Sample Date	Primary			Duplicate			Units	RPD
			Result	PQL	Dilution	Result	PQL	Dilution		
098-0098 - SW8081A										
Dup ID: 098-0099										
	Heptachlor	2/21/2002	<2.6	2.6	1	<3.1	3.1	1	µg/kg	NA
	Heptachlor epoxide	2/21/2002	<2.6	2.6	1	<3.1	3.1	1	µg/kg	NA
	Methoxychlor	2/21/2002	<16	16	1	<18	18	1	µg/kg	NA
	Toxaphene	2/21/2002	<160	160	1	<180	180	1	µg/kg	NA
098-0098 - SW8082										
Dup ID: 098-0099										
	Aroclor-1016	2/21/2002	<51	51	1	<61	61	1	µg/kg	NA
	Aroclor-1221	2/21/2002	<100	100	1	<120	120	1	µg/kg	NA
	Aroclor-1232	2/21/2002	<51	51	1	<61	61	1	µg/kg	NA
	Aroclor-1242	2/21/2002	<51	51	1	<61	61	1	µg/kg	NA
	Aroclor-1248	2/21/2002	<51	51	1	<61	61	1	µg/kg	NA
	Aroclor-1254	2/21/2002	<51	51	1	<61	61	1	µg/kg	NA
	Aroclor-1260	2/21/2002	130	51	1	180	61	1	µg/kg	32
098-0103 - SW6010B										
Dup ID: 098-0104										
	Lead	3/28/2002	4.5	0.32	1	4.5	0.32	1	mg/kg	0
098-0103 - SW8081A										
Dup ID: 098-0104										
	Aldrin	3/28/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	alpha-BHC	3/28/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	beta-BHC	3/28/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	delta-BHC	3/28/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	gamma-BHC	3/28/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	alpha-Chlordane	3/28/2002	<1.1	1.1	1	<1.1	1.1	1	µg/kg	NA
	gamma-Chlordane	3/28/2002	<1.1	1.1	1	<1.1	1.1	1	µg/kg	NA
	4,4'-DDD	3/28/2002	<3.2	3.2	1	<3.2	3.2	1	µg/kg	NA
	4,4'-DDE	3/28/2002	<3.2	3.2	1	<3.2	3.2	1	µg/kg	NA
	4,4'-DDT	3/28/2002	<3.2	3.2	1	<3.2	3.2	1	µg/kg	NA
	Dieldrin	3/28/2002	<3.2	3.2	1	<3.2	3.2	1	µg/kg	NA
	Endosulfan I	3/28/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	Endosulfan II	3/28/2002	<3.2	3.2	1	<3.2	3.2	1	µg/kg	NA
	Endosulfan sulfate	3/28/2002	<5.3	5.3	1	<5.3	5.3	1	µg/kg	NA
	Endrin	3/28/2002	<3.2	3.2	1	<3.2	3.2	1	µg/kg	NA
	Endrin aldehyde	3/28/2002	<3.2	3.2	1	<3.2	3.2	1	µg/kg	NA
	Endrin ketone	3/28/2002	<2.1	2.1	1	<2.1	2.1	1	µg/kg	NA
	Heptachlor	3/28/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	Heptachlor epoxide	3/28/2002	<1.8	1.8	1	<1.8	1.8	1	µg/kg	NA
	Methoxychlor	3/28/2002	<11	11	1	<11	11	1	µg/kg	NA
	Toxaphene	3/28/2002	<110	110	1	<110	110	1	µg/kg	NA
098-0103 - SW8082										
Dup ID: 098-0104										
	Aroclor-1016	3/28/2002	<35	35	1	<35	35	1	µg/kg	NA
	Aroclor-1221	3/28/2002	<70	70	1	<71	71	1	µg/kg	NA
	Aroclor-1232	3/28/2002	<35	35	1	<35	35	1	µg/kg	NA
	Aroclor-1242	3/28/2002	<35	35	1	<35	35	1	µg/kg	NA
	Aroclor-1248	3/28/2002	<35	35	1	<35	35	1	µg/kg	NA
	Aroclor-1254	3/28/2002	<35	35	1	<35	35	1	µg/kg	NA
	Aroclor-1260	3/28/2002	<35	35	1	<35	35	1	µg/kg	NA

Table 5: Field Duplicate Summary

Method	Compound	Sample Date	Primary Result	PQL Dilution	Duplicate Result	PQL Dilution	Units	RPD
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<: not detected above the practical quantitation limit unless denoted with an *, where it denotes a non-detect below the method detection limit.

NA = Neither the primary nor the field duplicate contained reportable levels of the associated analyte; RPD is not calculated, and agreement is considered to be acceptable

**APPENDIX G
RESPONSES TO U.S. EPA COMMENTS**

Navy Responses to U.S. EPA Comments on the Draft Removal Action Site Closeout Report, Time-Critical Removal Action for Building 195 Pesticide Shed Demolition and Soil Removal, Parcel 98, Alameda Point, Alameda, California, July 23, 2003

Comments by: Anna-Marie Cook, dated October 30, 2003; comments received by Shaw on December 17, 2003

General Comments

Comment No.	Section, Figure, Table	Comments	Response
1	NA	Include a statement to the effect that based on knowledge of past practices at the site and EPA concerns, the Navy included testing for PCBs. If this explanation is not given, it appears that by random chance another contaminant was tested for and found. The next logical conclusion would be that if more things were tested for they might also be found.	In Section 2.3, Objectives of the Removal Action, a sentence will be added to the end of paragraph no. 1 stating, "Additionally, based on EPA concerns that oil may have been used in and around the shed for dust suppression/weed control, the Navy included analysis for PCBs." Bullet no. 3 will be revised to address PCBs and the following paragraph will be deleted.
2	NA	The figures do not show as much information as they should to make the document complete. It is very difficult to determine on Figure 3 where the soil samples are located versus where the hydropunch samples are located, a problem compounded by the legend which states that all concentration are presented in mg/kg, i.e for soil only. Figure 5 should show the locations of the hydropunch samples and concentrations as well as the groundwater monitoring wells and their concentrations for both sampling rounds.	The time-critical removal action was designed to focus on removal of the shed and investigation/removal of the contaminated soil. Groundwater samples (Hydropunch and monitoring well) were collected to provide additional site information; however, they were not collected as one of the project objectives. All Hydropunch and groundwater monitoring well results are presented on Tables 3 and 6, respectively. The five Hydropunch locations are clearly shown on Figure 3. Monitoring well locations are currently shown on Figure 5 and pre-removal Hydropunch locations will be added. For clarity purposes, the legend on Figure 3 will be revised by replacing 'Results' with 'Locations'. To be consistent with the figure title, Note 1 will be revised to refer to soil results.

Specific Comments

1	Page 3-1	On page 3-1, a bullet item should be added from February 13, 1998 that states that a letter from EPA was sent to the Navy requesting that the shed be	Comment noted. The requested statement will be added to the text.
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Comments by: Anna-Marie Cook, dated October 30, 2003; comments received by Shaw on December 17, 2003

General Comments

Comment No.	Section, Figure, Table	Comments	Response
		removed due to concerns with Aroclor and Dieldrin. This letter started the initial discussions over whether a removal action was warranted for the pesticide shed and ultimately resulted in the Navy deciding to sample the area further and perform a removal action.	
2	Page 3-2	On page 3-2, please include a bullet for October 24, 2001 when on-site activities began.	Comment noted. The requested statement will be added to the text.
3	Page 3-3, Section 3.2.6	Where was the folded, crushed shed stored for the approximately two rainy months between it's demolition and disposal?	Upon demolition, the shed was stored in a covered roll-off bin which was moved (at the Navy's direction) to the runway area west of Hangar 23 behind a locked and secured fence line, pending transportation and disposal at Forward Landfill. The bin was moved from the removal action site to provide enough room for soil excavation activities.
4	Page 3-4, Section 3.2.8	Add a sentence or two to explain why the 1 and 2 foot depths of excavation were used.	Sentences will be added stating, "The excavation depth of 1 foot around the shed was determined adequate to address shallow soil contamination associated with lead-based paint chips. The 2-foot depth excavation was based on analytical results of dieldrin and Aroclor 1260 from the pre-removal sampling." This criteria was discussed and approved with the regulatory agencies during pre-removal planning meetings.
5	Page 3-5, Section 3.2.9	Please clarify/explain the sentence "Although the origin of the PCBs is unknown, the removal of topsoil in addition to the stockpile material makes the stockpiling activity an unlikely source of PCBs." Also, stating that the origin of the PCBs is unknown leads to the conclusion that the general area beyond the limits of the removal action may be contaminated further with	The statement in the text is not relevant to the discussion of stockpiling and will be deleted.

Comments by: Anna-Marie Cook, dated October 30, 2003; comments received by Shaw on December 17, 2003

General Comments

Comment No.	Section, Figure, Table	Comments	Response
		PCBs. The PCBs may well have been used for dust control which may mean that the PCB contamination is more widespread than the vicinity of the pesticide shed.	
6	Appendix E	From the photographs it appears that a fence was erected around the removal action site to prevent access from any unauthorized personnel. However, the text documenting the removal action does not describe this step. Please add a sentence or two prior to the section on landscape clearing describing what measures were taken to secure the area during this removal action and where the roll-off bins were stored prior to disposal of their contents.	<p>The fence observed in pre-excavation photographs was an existing fence; it was not installed for the purpose of this removal action, but did serve to establish an effective exclusion zone for this project. Part of the original fence was removed to facilitate excavating activities and a temporary fence was erected in its place to control site access. The text will not be revised.</p> <p>Prior to transportation for disposal, the roll-off bins were stored on the runway area west of Hangar 23 behind a locked and secured fence line, as designated by the Navy, pending receipt of investigation-derived waste (IDW) analytical results. The text in Section 3.2.8 will be revised accordingly. Storage of the bins outside the removal action site was done to provide room for soil excavation activities.</p>
7	Tables	Please include the hydropunch sample results and both rounds of groundwater monitoring well results in the Tables Section for completeness.	Hydropunch and TtEMI's groundwater monitoring well results are currently presented on Tables 3 and 6, respectively.
8	Page 3-8, Section 3.2.12.4	How was a determination made regarding how much lead remained on the shed after scraping was completed? What were the results of that determination and what type of landfill is Forward Landfill?	Based on research and inquiries to landfill personnel, only loose, peeling, and/or flaking paint need be removed from the shed surface to render the remaining paint "intact" and considered non-hazardous. Visual observation was used in the field to confirm the removal of loose and peeling paint. As noted on the waste manifest for the shed in Appendix D, the paint remaining on the shed was considered intact. Forward Landfill is a Class II CERCLA subpart

Comments by: Anna-Marie Cook, dated October 30, 2003; comments received by Shaw on December 17, 2003

General Comments

Comment No.	Section, Figure, Table	Comments	Response
			D-approved facility.
9	Page 3-9, Section 3.2.14, First Bullet	Please reword to clarify. For example: Only backfill which yielded analytical concentrations commensurate with residential use was allowed to be used for backfill.	The statement in Section 3.2.14 will be revised as follows: "At the Navy's direction, only backfill which yielded analytical concentrations commensurate with residential use and approved by EPA and DTSC was allowed to be used for backfill." Regulatory approval is noted in Section 3.2.11.