

**Phase II Investigation Report  
Zeneca Inc. Richmond Facility  
Richmond, California**

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Prepared for  
Zeneca Inc.  
Richmond, California

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## CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by an LFR Levine·Fricke California Registered Geologist.

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## ACRONYMS AND ABBREVIATIONS

$\mu\text{g/l}$	micrograms per liter
1,2-DCB	1,2-dichlorobenzene
4,4-DDD	dichlorodiphenyldichloroethane
4,4-DDE	dichlorodiphenyltrichloroethylene
AST	aboveground storage tank
AWQC	ambient water-quality criteria
bgs	below ground surface
Cal-EPA	California Environmental Protection Agency
CAM	California Assessment Manual
cis-1,2-DCE	cis-1,2-dichloroethene
CRRMP	Conceptual Remedial and Risk Management Plan
DDT	dichlorodiphenyltrichloroethane
ERA	ecological risk assessment
ERM	effects range-median
ESPP	East Shore Parks Properties
GMAV	genus mean acute value
LFR	LFR Levine-Fricke
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
NAWQC	National Ambient Water Quality Criteria
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PER	Pacific EcoRisk
PRG	preliminary remedial goal
proprietary pesticides	Proprietary pesticides manufactured by Zeneca Inc. and Stauffer Chemical Company
RWQCB	Regional Water Quality Control Board
SMAV	species mean acute value
Stauffer	Stauffer Chemical Company
SU	standard units
SVOC	semivolatile organic compound

SWAT	Solid Waste Assessment Test
TCE	trichloroethene
U.S. DOE	U.S. Department of Energy
U.S. EPA	U.S. Environmental Protection Agency
URS	URS Consultants
VOC	volatile organic compound
WCC	Woodward-Clyde Consultants
WRC	Western Research Center
Zeneca	Zeneca Inc.

## 1.0 INTRODUCTION

LFR Levine-Fricke (LFR) has prepared this Phase II Investigation report on behalf of Zeneca Inc. (“Zeneca”) for the Zeneca Richmond Facility, located at 1415 South 47<sup>th</sup> Street in Richmond, California (“the Site”; Figure 1). The Site is a former industrial and agricultural chemical manufacturing and formulating facility. Various entities have performed manufacturing operations at the Site for over 100 years. The manufacturing operations have been inactive at the Site since 1997, but research activities are still performed at the Western Research Center (WRC). The primary operation at the WRC is agricultural chemical research. The operational history of the Site is described in LFR’s report entitled, “Phase I Environmental Site Assessment, Zeneca Inc. Facility, Richmond California,” dated April 7, 2000 (“the Phase I ESA”; LFR 2000). The work described in this Phase II report was performed to characterize subsurface conditions across the property (Figure 2).

To assist in the organization of the Phase II Investigation, the Site was divided into three areas, the WRC, Plant Area, and Open Space (Figure 2). The majority of the work conducted in the Plant Area of the Site was performed in accordance with LFR’s work plan entitled, “Amended Proposal for Preliminary Site Characterization and Conceptual Remediation and Risk Management Plan,” dated August 16, 1999 (“the Preliminary Site Characterization”; LFR 1999a). At Zeneca’s request, the scope of the preliminary investigation was expanded to include the WRC and Open Space (“the Phase II Investigation”). The Phase II Investigation was conducted in accordance with the scope of work presented in LFR’s “Work Order to Conduct Phase I and Phase II Investigations of the 86-Acre Zeneca Ag Products Facility in Richmond, California,” dated October 18, 1999 (LFR 1999b).

### 1.1 Objectives

Zeneca voluntarily initiated the Preliminary Site Characterization, Phase I ESA, and Phase II Investigation to characterize environmental conditions at the Site (Figure 2). Manufacturing operations were active in the Plant Area until late 1997. Although a significant quantity of data and numerous reports have been produced for the Site via environmental investigations conducted over the last 10 years, the majority of the work focused on relevant portions of the site perimeter. Limited data were available for the WRC, certain portions of the Plant Area, and the Open Space. The Phase II Investigation was therefore designed to complete the site characterization. Data generated during the Phase II Investigation will be evaluated with existing data to develop a Conceptual Remedial and Risk Management Plan (CRRMP). LFR is currently preparing this CRRMP.

To facilitate evaluation of Phase II investigation data, screening criteria were selected for comparison with soil and groundwater data. Comparison of results to screening criteria facilitates identification of areas of potential environmental concern, some of which may require further evaluation to assess whether additional investigation,

mitigation, and/or remediation is appropriate. The screening criteria selected for this report, as described in Section 2.3, were selected for comparative purposes only, and are not intended as cleanup goals or site specific target levels for soil and groundwater at the Site. As also discussed in Section 2.3, the screening criteria are specific to particular exposure pathways and receptors, and are not meant to evaluate all potential exposure pathways and receptors at the Site.

## **1.2 Operational History and Previous Investigations**

### **1.2.1 Operational History**

Stauffer Chemical Company (“Stauffer”) began industrial chemical operations at the Site in 1897 with a chamber plant that was built for sulfuric acid manufacturing. Stauffer expanded its operations to include the manufacturing of aluminum sulfate, ferric sulfate, carbon disulfide, superphosphate fertilizer, and titanium trichloride. A primary by-product was cinder generated from the roasting of iron pyrite to produce sulfuric acid. In the 1950s, Stauffer began manufacturing and formulating agricultural chemicals at the Site and opened the WRC for research and development of new agricultural chemicals. In 1960, Stauffer increased its agricultural formulating capabilities and began producing and formulating a number of agricultural chemicals including Devrinol®, Vapam®, and Ordram® at the Site. Additional site historical information is presented in Section 4 of this report for the WRC, Plant Area, and Open Space. A more detailed discussion of site history is presented in the Phase I ESA (LFR 2000).

### **1.2.2 Previous Investigations**

Since 1980, several remedial investigations have been conducted to assess soil and groundwater quality at the Site. Most of the investigations were performed under the direction of the Regional Water Quality Control Board (RWQCB). The following reports provide information regarding the hydrogeology, groundwater quality, and the status of ongoing remedial activities.

- Solid Waste Assessment Test (SWAT) for the Cinder Fill Area (“the SWAT Report”; The Mark Group 1991a)
- Revised Hydrogeologic Assessment Report (The Mark Group 1991b)
- Closure Plan for the Agricultural Yard Pond (The Mark Group 1991c)
- Report of Removal of Underground Storage Tanks (The Mark Group 1991d)
- Supplemental Site Subsurface Investigation Report (Woodward-Clyde Consultants [WCC] 1993)
- CERCLA Site Inspection, Stauffer Chemical Company, also known as ICI Americas, 1415 47<sup>th</sup> Street, Richmond, California (URS Consultants [URS] 1994)

- Sediment Quality in Stege Marsh, Ecological Risk Assessment (Pacific EcoRisk [PER] 1999)

Additional information on previous investigation and remedial activities are presented in Section 6.0 and Appendix C of the Phase I ESA (LFR 2000).

### 1.3 Physical Setting

The Site comprises approximately 86 acres, and is located south of Interstate 580, east of the UC Berkeley Field Station, and along the San Francisco Bay shoreline (Figures 1 and 2). The majority of the WRC and Plant Area ground surface is covered by concrete slabs and asphalt. The Open Space is unpaved and includes Stege Marsh (an approximately 8-acre saltwater marsh), two freshwater lagoons, and the surge ponds.

### 1.4 Report Organization

This report provides a brief discussion of site geology and hydrogeology and summarizes historical operations and investigation results for the WRC, Plant Area, and Open Space. Presentation of the information has been organized into five sections:

**1.0 Introduction.** This section presents the objectives of the Phase II Investigation, a summary of historical observations and previous investigations, and the physical setting of the Site.

**2.0 Scope of Work.** This section presents the scope of work for the Phase II Investigation, including field methods, laboratory analysis methods, and selection of screening criteria.

**3.0 Site Geology and Hydrogeology.** This section presents a summary of site geology and hydrogeology.

**4.0 Historical Operations and Investigation Results.** This section summarizes historical operations and analytical results for soil and groundwater samples collected at the Site.

**5.0 Summary.** This section presents a summary of the analytical results of soil and groundwater samples that exceeded screening criteria.

**Tables.** Table 1 presents the groundwater elevation data collected during the Phase II Investigation. Tables 2a through 2g present the frequency and concentration ranges of chemicals detected in soil and groundwater samples collected by LFR during the Preliminary Site Characterization and the Phase II Investigation. Tables 3a through 3g present the analytical results for the soil and groundwater samples.

**Figures.** Figures show the historical site use, geologic cross sections, groundwater elevations, and analytical results of soil, groundwater, and sediment samples.



**Appendices.** Appendix A presents field methods used during the Phase II investigation. Appendix B includes LFR's quality assurance review.

## 2.0 SCOPE OF WORK

The following tasks were conducted as part of the Phase II Investigation:

- collecting soil and grab groundwater samples collected from the WRC, Plant Area, and Open Space using a direct push (Geoprobe) drilling rig and hand auguring equipment
- installing Upper and Lower Horizon groundwater monitoring wells in the WRC, Plant Area, and Open Space using a hollow-stem auger rig
- developing and sampling recently installed groundwater monitoring wells and collecting groundwater samples from selected existing wells
- submitting soil and groundwater samples to a state-certified laboratory and Zeneca's on-site laboratory for analyses
- surveying newly installed wells to locate the wells horizontally and vertically
- measuring the depth to water in accessible groundwater monitoring wells
- reviewing the ecological risk assessment (ERA) prepared by PER for Stege Marsh (PER 1999)

Soil sample locations are shown on Figure 3 and groundwater sample locations are shown on Figure 4.

## 2.1 Field Methods

The following provides a brief description of field methods used during the Phase II Investigation. A more detailed description of field methods and procedures is included in Appendix A.

Permits to drill soil borings and install the Upper and Lower Horizon groundwater monitoring wells were obtained from the Contra Costa County Department of Health before initiating the fieldwork. Drilling services for soil and grab groundwater sampling and installation of Upper Horizon wells were provided by Fast-Tek Engineering Support Services of Point Richmond, California. Drilling services for the installation of the Lower Horizon wells were provided by Spectrum Exploration of Stockton, California.

Soil samples were generally collected from approximately 1.5, 3.5, and 6.5 feet below ground surface (bgs). The 1.5 and 3.5 feet bgs samples were submitted for laboratory analyses, and the 6.5 feet bgs sample was placed on hold at the analytical laboratory pending the results of the shallow samples. Grab groundwater samples were collected

from selected areas to depths of approximately 20 feet bgs. The groundwater results were typically used as a screening level tool to guide further investigation. Groundwater samples were also collected from new and selected existing groundwater monitoring wells.

## 2.2 Laboratory Analysis

Soil and groundwater samples were analyzed by Curtis & Tompkins, Ltd., located in Berkeley, California and Calscience Environmental Laboratories, Inc., located in Garden Grove, California. Soil and groundwater samples were submitted to the on-site Zeneca laboratory for the analysis of proprietary pesticides. Each of these laboratories is a state-certified laboratory. Laboratory reports are on file at LFR and the quality assurance review of the data conducted by LFR is included as Appendix B.

Soil and groundwater samples were analyzed for 17 California Assessment Manual (CAM) metals using EPA Method 6010 (Method 7471 for mercury); volatile organic compounds (VOCs) using EPA Method 8260; semivolatile organic compounds (SVOCs) using EPA Method 8270; polychlorinated biphenyls (PCBs) and pesticides using EPA Method 8080; and proprietary pesticides. Water-quality parameters (temperature, pH, conductivity, and turbidity) were measured in the field, and soil pH was measured in the laboratory.

## 2.3 Selection of Screening Criteria

Based on expected future site use, certain exposure pathways were considered more likely to be complete. A site conceptual model, which includes a summary of sources, exposure pathways, and potential receptors, will be presented and discussed in the CRRMP. The site conceptual model will provide the basis for selection of pathway-specific remedial action objectives. For the Phase II Investigation, the likely exposure pathways were evaluated to identify screening levels for the purposes of comparison with the Phase II investigation data. For example, contaminants near aquatic habitats may result in ecological exposures. Therefore, ecological screening criteria for groundwater and sediment were identified for comparison with data collected near or in the aquatic habitats. Similarly, a potential exists for human exposure to surficial soil at the Site during future construction activities. Therefore, as described below, the U.S. Environmental Protection Agency (U.S. EPA) Region IX preliminary remedial goals (PRGs; U.S. EPA 1999) for commercial/industrial exposures were identified as appropriate benchmarks for comparison with soil concentration data obtained from areas of the Site likely to be redeveloped.

LFR understands that the RWQCB's Basin Plan has identified groundwater in the area of the Site for several potential beneficial uses, including municipal supply. We also understand that water quality objectives consistent with that use include Maximum Contaminant Levels. In general, shallow groundwater at the Site does not meet the Sources of Drinking Water Criteria of less than 3,000 micrograms per liter ( $\mu\text{g/l}$ ) total dissolved solids, as specified in the State Water Resources Control Board Resolution

88-63 (SWRCB 1988). Given the degraded nature of groundwater quality in the vicinity of the Site and low probability of actual potable use of shallow groundwater, other public health and environmental protection objectives were considered to evaluate data collected during the Phase II investigation (e.g., ecological screening criteria were used for comparison with groundwater data collected near aquatic habitats).

The screening criteria used in this report do not evaluate all potential human or ecological exposure pathways, such as volatilization of contaminants in groundwater to indoor air or human consumption of groundwater (i.e., drinking water standards). Use of particular screening criteria in this document neither implies that a particular exposure pathway is complete, nor that the selected screening criteria are the only potentially applicable criteria.

### **2.3.1 Soil**

For the purposes of this report, analytical results of soil samples analyzed for metals, VOCs, SVOCs, organochlorine pesticides, PCBs, and proprietary pesticides manufactured by Zeneca and Stauffer (“proprietary pesticides”) collected at the WRC, Plant Area, and portions of the Open Space are compared to U.S. EPA PRGs for industrial land use. PRGs for carcinogens were modified to reflect a  $1 \times 10^{-5}$  target risk rather than the  $1 \times 10^{-6}$  target risk used to calculate the industrial PRGs. According to U.S. EPA guidance (EPA 1991), target health-based cleanup goals should be in the  $10^{-4}$  to  $10^{-6}$  risk range. Based on the industrial setting of the Site,  $10^{-5}$  was selected as the tentative site risk target, which is within the acceptable risk range. The PRGs for noncarcinogenic compounds are based on a hazard index of 1.0.

In certain samples, the analytical reporting limits for SVOCs were elevated (EPA Method 8270), sometimes above the selected PRG, because of interference with nontarget chemicals. SVOCs were detected infrequently in soil and groundwater samples, and the elevated analytical reporting limits likely had little influence on the overall site characterization.

### **2.3.2 Sediment in the Fresh Water Lagoons and Stege Marsh**

Analytical results for seven sediment samples collected from the bottom of the fresh water lagoons located in the Open Space and analytical results of sediment samples collected by PER from Stege Marsh (PER 1999) are compared to effects range-median (ERM) values from Long et al. (1984). These screening values are typically used to be protective of ecological receptors that are present in marsh or wetland environments. For compounds that do not have an established ERM, results were screened using the PRGs for ecological endpoints published by the U.S. Department of Energy in August 1997 (U.S. DOE 1997). If criteria were not established for a chemical in the above-mentioned documents, appropriate criteria will be identified or developed in the CRRMP.

The proprietary pesticides identified in the sediment samples collected from Stege Marsh were detected at concentrations close to analytical detection limits. The properties of these chemicals indicate that they are highly volatile and have a very short half-life in sediments (PER 1999). These chemicals were not considered to be chemicals of concern, and therefore no ecological screening criteria were developed in the ERA (PER 1999).

### 2.3.3 Groundwater

Results of groundwater samples analyzed for metals, VOCs, SVOCs, and organochlorine pesticides are compared to action levels developed for the East Shore Parks Properties (ESPP; ERM Inc. and Erler & Kalinowski 1998), if available. The ESPP and the Site are similar in shoreline location. The ESPP action levels were developed to be protective of human health and potential ecological receptors. The ESPP action levels are generally based on ten times the National Ambient Water Quality Criteria (NAWQC) for Salt Water Aquatic Life Protection (chronic exposure; EPA 1998). The factor of ten has been applied to these values to account for the dilution and attenuation of chemicals in groundwater as they migrate and discharge to surface water. The ESPP action levels were only developed for specific chemicals detected at ESPP.

For chemicals that do not have ESPP action levels, the results were compared to ten times the NAWQC for Salt Water Aquatic Life Protection (chronic exposure). For chemicals detected in groundwater samples that do not have an NAWQC value, the concentrations of those chemicals were compared to ten times the PRG for ecological endpoints (U.S. DOE 1997).

In addition to the screening criteria discussed above, VOC concentrations detected in groundwater beneath the Site have the potential to pose a health risk to human receptors, such as construction and on-site workers, through volatilization and inhalation. The pathway will be evaluated in the CRRMP.

#### ***Proprietary Pesticides***

Results for groundwater samples analyzed for proprietary pesticides have been screened against ambient water quality criteria (AWQC) developed by PER (1999). In its report, PER indicates that these criteria were developed as follows:

**Step 1:** All “acceptable” acute toxicity studies are collected, and the Species Mean Acute Value (SMAV) is calculated, which is the geometric mean of all data.

**Step 2:** The “geometric mean” of the geometric mean SMAVs within a genus is calculated. This value is called the Genus Mean Acute Value (GMAV).

**Step 3:** The AWQC are then calculated using the four lowest GMAVs.

The same three steps are repeated for all available chronic data (as opposed to acute data) to calculate the Species Mean Chronic Value and Genus Mean Chronic Value.

The AWQC developed by PER for proprietary pesticides are based on results of acute and chronic studies provided by Zeneca to PER.

#### 2.3.4 Exceptions

Screening criteria that are below normal detection limits or below naturally occurring background concentrations were omitted from the evaluation. Examples include barium in groundwater, which occurs naturally in concentrations above the selected screening criteria, and the PRG for ecological endpoints for acetone and gamma-BHC in sediment, both of which are well below normal analytical detection limits (U.S. DOE 1997).

### 3.0 SITE GEOLOGY AND HYDROGEOLOGY

The following sections provide a brief discussion of the geology and hydrogeology of the Site. The information presented below is based on observations and measurements made by LFR during recent site investigation activities and data presented in reports prepared by other consultants.

#### 3.1 Site Geology

Site geology consists primarily of alluvial sediments that were deposited at the Site from the Berkeley hills, located east and northeast of the facility. Earlier hydrogeologic evaluations of the site (WCC 1993) indicate that sediments within 80 to 100 feet bgs at the Site can be subdivided into four distinct units. In descending stratigraphic order, these units are fill, Bay Sediments, Quaternary Alluvium (interbedded gravel, sand, silt, and clay), and Yerba Buena Mud. LFR's observations made during the drilling of soil borings and the review of the hydrogeologic information reported by WCC (1993) and Montgomery Watson (Montgomery Watson 1994) were used to prepare a cross section location map and two generalized cross sections illustrating the site stratigraphy (Figures 5, 6, and 7, respectively). Following is a description of the four distinct units observed at the Site.

**Fill.** Fill beneath the Site is composed of a variety of materials including cinders, a by-product of the historical operation of a sulfuric acid production plant at the Site, and alum mud. LFR's observations, made during the drilling of soil borings and the review of the hydrogeologic information reported by WCC (1993) and Montgomery Watson (Montgomery Watson 1994), are that the fill is generally thicker in the southern part of the facility adjacent to San Francisco Bay (Figure 7). The results of sampling conducted during the Preliminary Characterization Investigation, along with information from existing reports, indicate that cinders and associated soil within the

fill material have pH values generally ranging from approximately 3 to 5 standard units (SU).

**Bay Sediments.** These sediments are present in the southern part of the Site, south of the historical San Francisco Bay shoreline. They primarily comprise fine-grained, silty sand with smaller amounts of mud and peat. The maximum observed thickness of the Bay Sediments is greater than 9 feet in well H-37, located near the current shoreline. In some locations near the historical San Francisco Bay shoreline, the Bay Sediments lie directly above the sands of the Quaternary Alluvium.

**Quaternary Alluvium.** The Quaternary Alluvium is comprised of interbedded gravel, sand, silt, and clay units. Two coarse-grained (sand/gravel), water-bearing units designated as the Upper and Lower Horizons have been identified in the Quaternary Alluvium. Beneath most of the Site, the Upper and Lower Horizons are separated by a clay aquitard of varying thickness. LFR's observation, made during recent drilling and review of logs from previously drilled soil borings, is that the aquitard may be absent in the southeastern part portion of the Site, and the Upper and Lower Horizons may not be separated.

The Upper Horizon, or the shallower, water-bearing unit, is typically encountered at depths ranging from approximately 10 to 20 feet bgs. Borings drilled into the Upper Horizon generally encountered one or more intervals of sand and/or gravel ranging from 1 to 3 feet in thickness. The sand and gravel units in the Upper Horizon appear to be generally laterally continuous across the Site, as illustrated in cross section A-A' (Figure 6). However, there are areas where sands and gravels were not encountered (Figure 7).

The Lower Horizon, or the deeper, water-bearing unit, is encountered above the Yerba Buena Mud at depths ranging from approximately 25 to 40 feet bgs. The sand and gravel units in the Lower Horizon vary in thickness and appear to be laterally discontinuous across the Site. Several borings drilled in the Lower Horizon encountered mostly silt and clay with thin intervals of sand and gravel (less than 2 feet thick). Several other borings (e.g., borings H-70 and B-1) drilled into the Lower Horizon encountered thick units of sand and gravel (up to 15-feet thick). The sand and gravel units in the Lower Horizon appear to have been deposited in a stream channel environment of higher energy than the Upper Horizon sediments.

**Yerba Buena Mud.** The Yerba Buena Mud is laterally extensive and is approximately 40 to 50 feet thick in the vicinity of the facility. LFR's observations, made during the drilling of soil borings and the review of geologic cross sections prepared by WCC (1993), are that the top of the Yerba Buena Mud is present at depths of approximately 25 to 30 feet bgs in the northern portion of the Site and approximately 35 to 45 feet bgs in the southern portion of the Site.

## 3.2 Site Hydrogeology

As described above, two hydrogeologic units have been identified at the Site: the water-bearing sand and gravel in the Upper Horizon and the water-bearing sand and gravel in the Lower Horizon.

In addition, perched groundwater was observed in the upper 5 feet of sediment in several borings drilled by LFR during this investigation. These included eight borings drilled in Area 3, five borings in Area 4, and three borings in Area 5 of the Plant Area; one boring (OS-10) near the surge ponds in the Open Space; and one boring north of Area 3 in the Plant Area. The presence of perched water likely fluctuates seasonally. Because this investigation was conducted during the dry season, the perched water may be more prevalent during the rainy season (winter).

### 3.2.1 Upper Horizon Hydrogeology

The depth to groundwater in the Upper Horizon groundwater monitoring wells measured by LFR on November 8, 1999, varied from approximately 6.37 feet bgs in well H-30 to approximately 18.11 feet bgs in well H-61 (Table 1).

As shown in Figure 8, shallow groundwater flows generally to the south, toward San Francisco Bay. The apparent influence of pumping from the groundwater extraction trench on shallow groundwater flow is illustrated in Figure 8 by depressions in the groundwater surface and deflection of contour lines in the vicinity of the extraction trench. The hydraulic gradient in the Upper Horizon across the western portion of the Site (unaffected by the groundwater extraction trench) was 0.002 feet per foot (ft/ft) on November 8, 1999, as measured between wells H-24 and H-37.

### 3.2.2 Lower Horizon Hydrogeology

The depth to groundwater in the Lower Horizon groundwater monitoring wells measured by LFR on November 16, 1999, varied from approximately 5 feet bgs in well H-76 to approximately 15 feet bgs in well H-59 (Table 1).

As shown in Figure 9, groundwater flow direction in the Lower Horizon is generally to the south, toward San Francisco Bay. It appears that variations in stratigraphy within the Lower Horizon influence groundwater flow direction as indicated by the deflection of groundwater contour lines at several locations across the Site. The hydraulic gradient across the eastern portion of the Site was 0.0027 ft/ft between wells H-72 and H-78, as measured on November 19, 1999.

## 4.0 HISTORICAL OPERATIONS AND INVESTIGATION RESULTS

This section summarizes historical operations and analytical results for soil and groundwater samples collected from the WRC, Plant Area, and Open Space. Figure 2 illustrates the approximate locations where historical operations took place across the Site. Soil and groundwater sample locations are shown in Figure 3 and 4, respectively. Details regarding the historical operations and results of soil and groundwater samples collected at the WRC, Plant Area, and Open Space are discussed in the Phase I ESA (LFR April 2000) and in Sections 4.1, 4.2, and 4.3, respectively, of this report.

In general, the western portion of the Plant Area was used for the manufacturing of inorganic materials such as sulfuric acid. Stauffer began industrial chemical operations at the Site in 1897 when a chamber plant was built for sulfuric acid manufacturing. Stauffer expanded its operations in this area to include the manufacturing of aluminum sulfate, ferric sulfate, carbon disulfide, and titanium trichloride. Superphosphate fertilizer was produced at the Site by Union Superphosphate, then by Stauffer, from 1906 until 1971. The superphosphate production used phosphate rock and the sulfuric acid manufactured at the Site.

The eastern portion of the Plant Area was used for the manufacturing of organic chemicals. The WRC operated as a research and development facility for pesticides and herbicides. In the 1950s, Stauffer began manufacturing and formulating agricultural chemicals at the Site. In 1960, Stauffer moved its agricultural formulating plant to the Site and began manufacturing and formulating agricultural chemicals including Devrinol, Vapam, and Ordram at the Site.

The area currently occupied by the lagoons and surge ponds was formerly used for storm-water management, wastewater treatment, and drying of alum mud. Storm water and wastewater is currently held in four surge ponds. A cinder landfill is located on the southwest portion of the Site (Figure 2).

### 4.1 Western Research Center

The WRC comprises the northernmost portion of the property and is bordered by the Plant Area to the south and Hoffman Boulevard to the north (Figure 2). The WRC also includes the portion of the property occupied by Buildings 80, 81, 162, and 151 and the nearby pilot plant, as shown on Figure 2.

#### 4.1.1 WRC Operational History

Historical information for the WRC was obtained from review of aerial photographs, Sanborn Insurance maps, historical documents, and discussions with Zeneca representatives. In the 1950s, the WRC was built as a pilot plant for agricultural chemical research. The primary focus of the WRC was to research and develop new herbicides, insecticides, and fungicides. Currently, the WRC primarily consists of



research buildings, office buildings, greenhouses, supply storage buildings, and waste storage areas.

A portion of the WRC was formerly occupied by the Lacquer Chemical Company, Griffin Chemical Company, and Michael Pelton Insecticide Company. Details on these companies operations were not readily available at the time of this report. After Stauffer acquired these parcels, this portion of the WRC was used for agricultural chemical manufacturing, receiving, and storage.

Agricultural chemicals were received by rail and stored in aboveground storage tanks (ASTs). As part of the chemical storage activities, 28 ASTs, ranging in size up to 30,000 gallons, were located in this area. These tanks stored toluene, CPAM intermediate, Devrinol, diethyl amine, A-Naphthol (1-hydroxynaphthalene), phosphorus oxychloride, and aqueous waste.

#### **4.1.2 Occurrence and Distribution of Chemicals in the WRC**

During October and November 1999, LFR conducted the following work in the WRC:

- collected 53 soil samples from 24 soil borings and the 3 soil borings drilled to install wells H-66, H-67, and H-69
- installed three Upper Horizon (H-66, H-67, and H-69) and one Lower Horizon (H-77) groundwater monitoring wells
- collected 22 groundwater samples (15 grab groundwater samples and 7 samples from groundwater monitoring wells H-06, H-10, H-14, H-66, H-67, H-69, and H-77)

Soil boring locations are shown in Figure 3. Grab groundwater sample and groundwater monitoring well locations are shown in Figure 4.

##### **4.1.2.1 Soil in the WRC**

Metals, VOCs, SVOCs, organochlorine pesticides, and proprietary pesticides were detected in soil samples collected from the WRC. With the exception of arsenic (in six samples), copper (one sample), 4,4-dichlorodiphenyltrichloroethane (4,4-DDT; one sample), 4,4-dichlorodiphenyldichloroethane (4,4-DDD; in two samples), and toluene (in one sample), concentrations of these chemical groups did not exceed the industrial PRG.

PCBs were not reported above analytical detection limits in the soil samples. Table 2a provides the detection frequency and concentration range of chemicals detected in soil samples and the respective industrial PRGs. Table 3a presents analytical results for all soil samples collected from the WRC. Figures 10 through 14 show the pH values measured in soil samples; concentrations of metals in soil that exceed the industrial

PRGs; and VOCs, SVOCs, and organochlorine pesticides detected in soil samples throughout the Site.

#### 4.1.2.1.1 *pH of Soil in the WRC*

The pH values for the majority of the samples ranged between 6 and 8 SU. Lower pH values (as low as 2.9 SU in sample WRC-21-1.5) were detected in the northwest portion of the WRC at sample locations WRC-20, WRC-21, and WRC-10 and the shallow sample collected from well boring H-66 (Figure 10). A pH value of 10 SU was measured in samples collected from 1.5 feet bgs at boring locations WRC-01 and WRC-07. Cinder material, which can contribute to a lowering of soil pH, was only observed in one soil boring drilled by LFR in the WRC area (WRC-10). A summary of pH results for soil and whether cinder material was observed in the boring from which the soil samples were collected is presented below.

Sample ID	Depth (feet bgs)	pH	Cinder Present in Sample? (yes/no)	Cinder Present in Boring? (yes/no)	Cinder Depth Interval (feet bgs)
WRC-01-1.5	1.5	10	No	No	--
WRC-01-3.5	3.5	7.3	No	No	--
WRC-02-1.5	1.5	6	No	No	--
WRC-02-3.5	3.5	6.8	No	No	--
WRC-03-1.5	1.5	8.5	No	No	--
WRC-03-3.5	3.5	5.2	No	No	--
WRC-04-1.5	1.5	7.1	No	No	--
WRC-04-3.5	3.5	7.4	No	No	--
WRC-05-1.5	1.5	6	No	No	--
WRC-05-3.5	3.5	7.6	No	No	--
WRC-06-1.5	1.5	8.1	No	No	--
WRC-06-3.5	3.5	8.7	No	No	--
WRC-07-1.5	1.5	10	No	No	--
WRC-07-3.5	3.5	8	No	No	--
WRC-08-1.5	1.5	7.3	No	No	--
WRC-08-3.5	3.5	6.3	No	No	--
WRC-10-1.5	1.5	4.2	Yes	Yes	0.5-2.0
WRC-10-3.5	3.5	7.9	No	Yes	0.5-2.0

Sample ID	Depth (feet bgs)	pH	Cinder Present in Sample? (yes/no)	Cinder Present in Boring? (yes/no)	Cinder Depth Interval (feet bgs)
WRC-11-1.5	1.5	7.8	No	No	--
WRC-11-3.5	3.5	7.9	No	No	--
WRC-12-1.5	1.5	6.5	No	No	--
WRC-12-3.5	3.5	5.6	No	No	--
WRC-13-1.5	1.5	7	No	No	--
WRC-13-3.5	3.5	6.8	No	No	--
WRC-14-1.5	1.5	8.6	No	No	--
WRC-14-3.5	3.5	8.5	No	No	--
WRC-15-1.5	1.5	8	No	No	--
WRC-15-3.5	3.5	7.5	No	No	--
WRC-16-1.5	1.5	7.8	No	No	--
WRC-16-3.5	3.5	8.8	No	No	--
WRC-17-1.5	1.5	8.3	No	No	--
WRC-17-3.5	3.5	7.4	No	No	--
WRC-19-3.5	3.5	5.5	No	No	--
WRC-20-1.5	1.5	3.3	No	No	--
WRC-20-3.5	3.5	4.2	No	No	--
WRC-21-1.5	1.5	2.9	No	No	--
WRC-21-3.5	3.5	3.6	No	No	--
H-66-1.5	1.5	3.4	No	No	--
H-66-3.5	3.5	4.7	No	No	--
H-67-1.5	1.5	7	No	No	--
H-67-3.5	3.5	8.5	No	No	--
H-69-1.5	1.5	5.5	No	No	--
H-69-3.5	3.5	6.2	No	No	--
WRC-30-1.5	1.5	8.3	No	No	--
WRC-30-3.5	3.5	5.7	No	No	--
WRC-31-1.5	1.5	7.9	No	No	--

Sample ID	Depth (feet bgs)	pH	Cinder Present in Sample? (yes/no)	Cinder Present in Boring? (yes/no)	Cinder Depth Interval (feet bgs)
WRC-31-4.0	4.0	8.2	No	No	--
WRC-32-1.5	1.5	6.2	No	No	--
WRC-32-3.5	3.5	6.5	No	No	--
WRC-33-1.5	1.5	6.7	No	No	--
WRC-33-3.5	3.5	5	No	No	--
WRC-34-1.5	1.5	8	No	No	--
WRC-34-3.5	3.5	8.7	No	No	--

Note:

Sample labeling convention is the area of concern sample location number top depth of the sample (for example WRC-01-1.5 refers to the sample location 01 collected from the WRC at 1.5 feet bgs).

#### 4.1.2.1.2 Metals in Soil in the WRC

CAM-17 metals were detected in all 53 soil samples collected at the WRC. Each metal, with the exception of arsenic (six samples) and copper (one sample; WRC-03-1.5), was detected at concentrations below the industrial PRGs.

The six samples that contained arsenic above the PRGs were collected from the five borings described below.

- borings WRC-03 (1.5 foot sample) and WRC-06 (3.5 foot sample), located along the southern boundary of the WRC near the Plant Area
- boring H-69 (3.5 foot sample), located near the northeast corner of the intersection of East Montgomery and South 47<sup>th</sup> Streets
- boring WRC-21 (1.5 and 3.5 foot sample), located in the northwest corner of the WRC
- boring H-66 (1.5 foot sample), located in the southern end of the WRC, near Building 215

The sample that contained copper above the PRG (WRC-05-1.5) was located along the southern boundary of the WRC north of the Plant Area. The location of the samples that that exceeded the PRGs for copper and arsenic at the WRC are illustrated in Figure 11. The following table lists the metals detected in soil, the respective PRGs, and the maximum concentration detected.

Metal	Number of Samples Containing Metal	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Antimony	2	820	18	None
<b>Arsenic</b>	<b>53</b>	<b>27</b>	<b>290</b>	<b>H-69-3.5, WRC-03-1.5, WRC-21-1.5, WRC-21-3.5, WRC-06-3.5, H-66-1.5</b>
Barium	53	100,000	360	None
Beryllium	49	22,000	0.81	None
Cadmium	26	810	17	None
Chromium	53	450	160	None
Cobalt	53	100,000	22	None
<b>Copper</b>	<b>53</b>	<b>5,300</b>	<b>7,000</b>	<b>WRC-05-1.5</b>
Lead	53	1,000	390	None
Mercury	45	610	38	None
Molybdenum	8	10,000	5	None
Nickel	53	41,000	160	None
Selenium	3	10,000	20	None
Silver	5	10,000	11	None
Thallium	12	140	2.2	None
Vanadium	53	14,000	58	None
Zinc	52	100,000	3,000	None

Notes:

mg/kg = milligrams per kilogram.

Bold indicates that the maximum concentration detected exceeds the industrial PRG.

#### 4.1.2.1.3 VOCs in Soil in the WRC

VOCs were detected in 16 of 53 soil samples analyzed for VOCs. Only one sample contained a VOC exceeding its industrial PRG. The sample collected at 3.5 feet bgs at location WRC-03 contained toluene at 1,800 mg/kg, which exceeds the PRG. Sample WRC-03 is located along the southern boundary of the WRC near the Plant Area (Figure 12). With the exception of toluene, VOC concentrations in soil samples were generally no more than one order of magnitude above the analytical reporting limit and at least one order of magnitude below the industrial PRGs, as shown in the following table.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
2-Butanone	2	2,800	0.012	None
Acetone	4	6,200	0.075	None
Benzene	2	15	1.7	None
cis-1,2-Dichloroethene	1	150	0.0071	None
Ethylbenzene	1	230	1.1	None
m,p-Xylenes	2	210	6.3	None
o-Xylene	1	210	7	None
Tetrachloroethene	4	190	0.3	None
<b>Toluene</b>	<b>2</b>	<b>520</b>	<b>1,800</b>	<b>WRC-03-3.5</b>
Trichloroethene	5	61	0.012	None

Note:

Bold indicates that the maximum concentration detected exceeds the industrial PRG.

#### 4.1.2.1.4 SVOCs in Soil in the WRC

SVOCs were detected in 11 of 26 soil samples analyzed for VOCs. No samples contained SVOCs exceeding industrial PRGs. Figure 13 shows the concentrations of SVOCs detected in soil samples collected throughout the Site. The following table presents the maximum concentration for each SVOC detected.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
2,4-Dimethylphenol	1	18,000	0.73	None
2-Methylnaphthalene	2	--	81	--
2-Methylphenol	1	44,000	0.53	None
3-,4-Methylphenol	1	4,400	1.7	None
Benzo(g,h,i)perylene	1	--	0.17	--
bis(2-Ethylhexyl)phthalate	1	1,800	0.57	None
Fluoranthene	1	3,000	0.37	None
Indeno(1,2,3-cd)pyrene	1	29	0.18	None

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
Phenanthrene	2	--	2.1	--
Phenol	6	100,000	0.93	None
Pyrene	1	5,400	0.35	None

Note:

-- Denotes no industrial PRG has been established.

#### 4.1.2.1.5 Organochlorine Pesticides in Soil in the WRC

Pesticides were detected in 16 of 28 soil samples analyzed for pesticides. The pesticide 4,4-DDD was detected above screening criteria in 2 soil samples collected at 1.5 feet bgs and 3.5 feet bgs. The pesticide 4,4-DDT was also detected above the screening criteria in the 1.5-foot-depth sample. These samples were collected from boring WRC-05, located near the southern boundary of the WRC near the southern wall of Building 154, as shown in Figure 14. The sample collected at 6.5 feet bgs from the same boring contained 19 mg/kg of 4,4-DDD. Results for 4,4-dichlorodiphenyltrichloroethylene (4,4-DDE) and 4,4-DDT were less than 5 mg/kg. The following table presents the maximum concentration for each compound detected.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
<b>4,4-DDD</b>	<b>12</b>	<b>170</b>	<b>2,800</b>	<b>WRC-05-1.5, WRC-05-3.5</b>
4,4-DDE	6	120	0.14	None
<b>4,4-DDT</b>	<b>10</b>	<b>120</b>	<b>2,100</b>	<b>WRC-05-1.5</b>
Alpha-BHC	1	5.9	0.013	None
Beta-BHC	3	21	0.021	None

Note:

Bold indicates that the maximum concentration detected exceeds the industrial PRG.

#### 4.1.2.1.6 Proprietary Pesticides in Soil

Proprietary pesticides were detected in 38 of 64 soil samples, but at very low concentrations, orders of magnitude below the PRGs. Table 2a provides the detection frequency and concentration range for each chemical detected in WRC soil samples. Table 3a provides analytical results for all soil samples collected in the WRC.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Bensulide	2	--	5.8	--
Butylate	4	44,000	0.61	None
Captan	10	700	42	None
Carbophenothion	20	--	0.89	--
Cycloate	4	--	0.4	--
EPTC	12	22,000	2.11	None
Fluorochloridone	9	--	3.8	--
Fonofos	3	1,800	0.11	None
Metam sodium	7	--	11	--
Molinate	7	1,800	0.76	None
Napropamide	11	88,000	220	None
Pebulate	6	44,000	2.83	None
R25788	5	--	0.08	--
R29148	2	--	0.17	--
Vernolate	3	14,000	0.37	None

Notes:

-- Denotes no industrial PRG has been established.

#### 4.1.2.2 *Groundwater in the WRC*

Fifteen grab groundwater samples and seven monitoring well samples were collected at the WRC. Metals were detected in each of the 22 groundwater samples. VOCs were detected in 15 of the 22 samples. VOCs were detected in two grab groundwater samples (WRC-05 and WRC-06) and pesticides were detected above the screening criteria in three samples (WRC-05, WRC-08, and WRC-20). Table 2b presents the detection frequencies and concentration ranges for chemicals detected in groundwater samples. Table 3b presents analytical results for groundwater samples collected at the WRC. Figure 15 illustrates the pH in groundwater beneath the Site.

##### 4.1.2.2.1 *pH of Groundwater in the WRC*

The pH value measured for the majority of the groundwater samples collected from the WRC ranged between 6 and 8 SU. Lower pH values (down to 2.59 SU in grab groundwater sample WRC-17) were detected in the groundwater samples collected in



the northwest portion of the WRC (grab groundwater sample locations WRC-17, WRC-20, and WRC-21). Low pH soils were also noted in this area. The pH of Upper Horizon groundwater is illustrated in Figure 15.

#### 4.1.2.2.2 CAM-17 Metals in Groundwater in the WRC

Thirteen of the CAM-17 metals were detected in the 22 groundwater samples collected in the WRC. The metals detected, frequency of detection, and maximum concentrations are summarized below. The highest concentrations of metals were detected in grab groundwater sample WRC-20, located in the northwest portion of the WRC, and monitoring well H-66, located in the southern portion of the WRC near Building 215.

Groundwater data collected in the WRC was not compared to the ecological screening criteria discussed in Section 2.3. This exposure pathway was judged to be incomplete for the majority of the WRC because most of the WRC is more than 1000 feet from aquatic habitats. Groundwater data collected in the WRC will be further evaluated in the CRRMP to consider potentially complete pathways for human exposure.

Chemical Compound	Number of Samples Containing Compound	Maximum Concentration ( $\mu\text{g/l}$ )
Arsenic	4	120
Barium	22	610
Beryllium	1	4.4
Cadmium	2	38
Chromium	2	60
Cobalt	4	250
Copper	1	530
Mercury	1	0.6
Molybdenum	4	64
Nickel	9	720
Selenium	12	16
Vanadium	2	190
Zinc	7	3,300

#### 4.1.2.2.3 VOCs in Groundwater in the WRC

Although several VOCs were reported above analytical detection limits in 22 groundwater samples collected from the WRC, the concentrations were typically low with the exception of toluene and trichloroethene (TCE). Toluene was detected at an elevated concentration (300,000  $\mu\text{g/l}$ ) in a grab groundwater sample from WRC-01, which is located in the southeast corner of the WRC north of the Plant Area near South 47<sup>th</sup> Street (Figure 22).

TCE was detected at 4,900 and 4,500  $\mu\text{g/l}$  in the groundwater sample collected from well H-06 and grab groundwater sample location WRC-21, respectively. Well H-06 is located in the southeast portion of the WRC and grab groundwater sample WRC-21 located in the northeastern corner of the WRC.

TCE was detected at a much lower concentration (370  $\mu\text{g/l}$ ) and toluene was not detected above laboratory detection limits in the groundwater samples collected from Lower Horizon well H-70, located in the Plant Area downgradient from locations H-06 and WRC-01 (Figure 4). The following table presents a summary of the VOCs detected in groundwater samples collected from the WRC and the maximum concentration for each compound detected.

Chemical Compound	Number of Samples Containing Compound	Maximum Concentration ( $\mu\text{g/l}$ )
1,1-Dichloroethane	1	0.6
1,1-Dichloroethene	4	7.3
1,2,3-Trichlorobenzene	2	2.9
1,2,4-Trichlorobenzene	1	1.9
1,2,4-Trimethylbenzene	2	1.7
1,2-Dichlorobenzene	7	120
1,2-Dichloroethane	7	200
1,2-Dichloropropane	1	1.8
1,4-Dichlorobenzene	4	6.1
Acetone	1	14
Benzene	4	1,100
Carbon Disulfide	4	5.2
Chlorobenzene	8	900
Chloroform	3	18
cis-1,2-Dichloroethene	8	880

Chemical Compound	Number of Samples Containing Compound	Maximum Concentration ( $\mu\text{g/l}$ )
Ethylbenzene	2	8.8
Freon 113	1	6.7
m,p-Xylenes	2	56
Methyl tertiary-butyl ether	3	8.2
o-Xylene	3	28
Tetrachloroethene	9	170
Toluene	5	300,000
trans-1,2-Dichloroethene	2	2.4
Trichloroethene	15	4,900
Vinyl Chloride	5	25

#### 4.1.2.2.4 SVOCs in Groundwater in the WRC

Four SVOCs (2,4-dimethylphenol, 2-methylphenol, 3,4-methylphenol, and phenol) were detected above analytical reporting limits in two groundwater samples (WRC-05 and WRC-06) collected in the WRC. These samples were located near the southern boundary of the WRC and the Plant Area. The grab groundwater sample collected at WRC-05 contained between 1,300  $\mu\text{g/l}$  and 6,600  $\mu\text{g/l}$  of each of the four SVOCs. The following table presents the maximum concentration for each compound detected.

Chemical Compound	Number of Samples Containing Compound	Maximum Concentration ( $\mu\text{g/l}$ )
2,4-Dimethylphenol	2	1,300
2-Methylphenol	1	1,800
3-,4-Methylphenol	1	6,600
Phenol	1	2,400

#### 4.1.2.2.5 Organochlorine Pesticides in Groundwater in the WRC

Table 2b provides a summary of organochlorine pesticides detected in 13 groundwater samples collected at the WRC and analyzed for pesticides. The organochlorine pesticide 4,4-DDD was detected in 3 groundwater samples at concentrations of 0.2  $\mu\text{g/l}$ , 0.26  $\mu\text{g/l}$ , and 63  $\mu\text{g/l}$ . The highest concentration (63  $\mu\text{g/l}$ ) was detected in the grab groundwater sample WRC-05. All three of the pesticides listed in the table below were detected at low concentrations in grab groundwater sample WRC-08. WRC-05 is

located near the southern boundary of the WRC and the Plant Area. WRC-08 is located in the central portion of the WRC near East Montgomery Street and WRC-20 is located along the northwestern site boundary (Figure 4). Elevated concentration of these compounds were detected in soil samples collected from WRC-05. The following table presents the maximum concentration for each compound detected.

Chemical Compound	Number of Samples Containing Compound	Maximum Concentration ( $\mu\text{g/l}$ )
4,4-DDD	3	63
4,4-DDE	1	0.11
4,4-DDT	1	0.29

#### 4.1.2.2.6 *Proprietary Pesticides in Groundwater in the WRC*

Proprietary pesticides were detected in the groundwater samples collected from Upper Horizon groundwater in the WRC. Proprietary pesticides were not detected in the groundwater sample collected from Lower Horizon groundwater monitoring well H-77, located near the southeastern boundary of the WRC (Figure 4). The following table presents a summary of the proprietary pesticides detected in groundwater samples collected from the WRC.

Chemical Compound	Number of Samples Containing Compound	Maximum Concentration ( $\mu\text{g/l}$ )
Butylate	2	6
Carbophenothion	1	1
Cycloate	2	1
EPTC	5	3,860
Fonofos	1	3
Molinate	4	120
Napropamide	8	640
Pebulate	4	228
R25788	4	207
R29148	1	6
Vernolate	2	15

### 4.1.3 Summary of WRC

Following is a summary of key findings in the WRC.

#### *Soil*

- The pH value of the majority of the soil samples collected at the WRC ranged between 6 and 8 SU. Lower pH values were detected in the northwest portion of the WRC (sample locations WRC-20, WRC-21, and WRC-10) and the southern portion of the WRC (soil boring for well H-66).
- Arsenic was detected in six soil samples collected from various locations throughout the WRC at concentrations above the industrial PRG; copper was detected in one soil sample (WRC-05-1.5) at a concentration above the industrial PRG.
- Toluene was detected in one soil sample (WRC-03-3.5) at concentrations above the industrial PRG.
- The organochlorine pesticides 4,4-DDD and 4,4-DDT were detected in soil samples from one location (WRC-05) at concentrations above the modified industrial PRG.
- Proprietary pesticides were detected at low concentrations in soil and did not exceed available modified industrial PRGs

#### *Groundwater*

- The pH value of the majority of the groundwater samples collected at the WRC ranged between 6 and 8 SU. Lower pH values were detected in the northwest portion of the WRC (sample locations WRC-20 and WRC-21).
- Metals were detected across the WRC in Upper Horizon groundwater samples.
- The VOC toluene was detected at a concentration of 300,000  $\mu\text{g/l}$  in one groundwater sample (WRC-01). TCE was detected at concentrations of 4,900  $\mu\text{g/l}$  and 4,500  $\mu\text{g/l}$  in groundwater samples H-06 and WRC-21, respectively. TCE was detected at a much lower concentration (370  $\mu\text{g/l}$ ) and toluene was not detected above laboratory detection limits in the groundwater samples collected from Lower Horizon well H-70, located in the Plant Area downgradient from locations H-06 and WRC-01 (Figure 4).
- Four SVOCs (2,4-dimethylphenol, 2-methylphenol, 3,4-methylphenol, and phenol) were detected above analytical reporting limits in two groundwater samples (WRC-05 and WRC-06) collected in the WRC.
- The organochlorine pesticides 4,4-DDD, 4,4-DDE and/or 4,4-DDT were detected in three grab groundwater samples collected from the WRC.

## 4.2 Plant Area

The majority of the work conducted in the Plant Area of the Site was performed in accordance with the scope of work described in the Preliminary Site Characterization work plan (LFR 1999a). This work plan identified six areas of potential concern that largely focused on bulk storage areas within the Plant Area. Manufacturing operations were active in the Plant Area until late 1997. Although a significant quantity of data and numerous reports have been produced for the Site via environmental investigations conducted over the last 10 years, the majority of the work focused on the site perimeter.

The following sections present the results of recent investigations conducted in the Plant Area. Historical information for all areas was obtained from review of aerial photographs, Sanborn Insurance maps, historical documents, and discussions with Zeneca representatives.

For the purposes of this report, Phase II investigation data is compared with screening criteria identified as described in Section 2.3. Soil concentration data collected from the Plant Area are compared to the U.S. EPA Region IX PRGs for commercial/industrial exposures. For areas adjacent to surface water, groundwater concentration data are compared to ecological screening criteria (ERMs or PRGs for ecological endpoints). These screening criteria are used for data interpretation and evaluation purposes. Concentration data collected will be further evaluated in the CRRMP to consider all potentially complete exposure pathways and receptors.

### 4.2.1 Area 1: Former Tank Farm and Agricultural Chemical Off-Loading Area

Area 1 is the former tank farm and agricultural chemical off-loading area located in the eastern central area of the Plant Area, along South 48<sup>th</sup> Street (Figure 2).

#### 4.2.1.1 *Area 1 Operational History and Manufacturing Processes*

According to interviews with site personnel, Area 1 is in a portion of the Plant Area occupied by the Lacquer Chemical Company during the 1930s and by the Griffin Chemical Company sometime between 1930 and 1949. The information reviewed for this report did not discuss former manufacturing processes at either the Lacquer Chemical Company or the Griffin Chemical Company. However, these operations ceased approximately 50 years ago.

The Michael Pelton Insecticide Company, formerly located adjacent to Area 1 on the north, manufactured insecticides during the 1940s and 1950s. After 1949, Stauffer used Area 1 as an agricultural chemical receiving and storage area. Agricultural chemicals were received by rail and stored in ASTs.

From 1964 through June 1987, several pesticides were manufactured in the northern portion of Area 1. Pesticides produced included Imidan<sup>®</sup> (phosmet), Betasan<sup>®</sup>

(bensulide), Dyfonate® (fonofos), and Devrinol (napropamide). Imidan was produced from 1964 to 1966; Betasan was produced from 1966 to 1968; and Dyfonate was produced from 1968 to 1971. Benzene and toluene were used in Imidan, Betasan, and Dyfonate production.

Devrinol, the primary compound manufactured in Area 1, was produced from 1975 to 1987. Devrinol was reformulated in Area 2 to form Devrinol 2E® in a process that involved blending Devrinol with chlorobenzene, an emulsifier and surfactant. Devrinol 2E is a selective herbicide used to control grasses and broad-leaved weeds.

The 1916, 1930, 1949, and 1970 Sanborn Insurance maps and former air permits present historical features and chemical storage information. The historical site features include the following:

- approximately 28 ASTs ranging in size up to 30,000 gallons
- two buildings

The chemicals formerly stored included the following:

- toluene
- CPAM intermediate
- Devrinol
- organic recycle storage
- diethyl amine
- A-Naphthol (1-hydroxynaphthalene)
- POC13 (phosphorus oxychloride)
- aqueous waste

#### **4.2.1.2 Occurrence and Distribution of Chemicals in Area 1**

LFR collected and analyzed 20 soil samples and one grab groundwater sample from eight soil borings in and near Area 1. One groundwater sample was collected from well H-70. Soil boring, grab groundwater locations, and monitoring wells are shown in Figures 3 and 4.

##### **4.2.1.2.1 Soil in Area 1**

Concentrations of metals, VOCs, pesticides, and PCBs detected in soil samples did not exceed the industrial PRGs. SVOCs were not detected above analytical reporting limits. Table 2a provides the detection frequency and concentration range of compounds detected in soil samples. Table 3c includes analytical results for all Area 1 soil samples. Figure 10 shows pH values measured in soil samples collected throughout

the Site. Figures 11 through 15 show where metals, VOCs, SVOCs, organochlorine pesticides, and PCBs detected in soil samples exceeded industrial PRGs.

### pH in Soil in Area 1

The pH values in soil samples analyzed for pH generally ranged from 7.3 SU to 8.6 SU (Figure 10). As shown on the following table, lower pH values (approximately 4.0 SU) were measured in the 1.5 and 3.5-foot sample collected from location A01-04.

Field Sample ID	Depth (feet)	Measured pH Value	Cinders Present in Sample? (yes/no)	Cinders Present in Boring? (yes/no)
A01-04-1.5	1.5	4	No	No
A01-04-3.5	3.5	4.1	No	No
A01-04-6.5	6.5	7.5	No	No
A01-05-1.5	1.5	6.8	No	No
A01-05-3.5	3.5	7.1	No	No
A01-05-6.5	6.5	8	No	No
A01-06-1.5	1.5	8	No	No
A01-06-3.5	3.5	7.9	No	No
A01-06-6.5	6.5	7.8	No	No
A01-07-1.5	1.5	8.6	No	No
A01-07-3.5	3.5	7.3	No	No
A01-07-6.5	6.5	8.6	No	No

Note:

Sample labeling convention is the area of concern sample location number top depth of the sample (for example A01-04-1.5 refers to area of concern A01, sample location 04, collected from a depth of 1.5 feet bgs).

### Metals in Soil in Area 1

All metals detected in the 12 soil samples collected from Area 1 and analyzed for metals were below the industrial PRGs. Table 2c provides the detection frequency and concentration range for each metal detected in Area 1.

### VOCs in Soil in Area 1

VOCs were detected in 9 of the 12 soil samples analyzed for VOCs. The following table shows that VOC concentrations in soil samples were generally no more than one order of magnitude above the analytical reporting limit and at least one order of



magnitude below the industrial PRGs. The highest VOC concentrations were detected in the samples A01-05 and A01-06, located near the ASTs (Figure 12).

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
1,2-Dichloroethane	2	7.6	0.032	None
2-Butanone	1	2,800	0.018	None
2-Chlorotoluene	1	560	0.0061	None
Acetone	3	6,200	0.088	None
Chlorobenzene	1	540	0.0042	None
Chloroform	5	5.2	0.0069	None
cis-1,2-Dichloroethene	2	150	0.005	None
Naphthalene	1	190	0.0064	None
Tetrachloroethene	3	190	0.011	None
Toluene	3	520	17	None
Trichloroethene	3	61	0.023	None

### SVOCs in Soil in Area 1

SVOCs were not detected above analytical reporting limits in any of the soil samples collected (Table 2c).

### Organochlorine Pesticides and PCBs in Soil in Area 1

Pesticides and/or PCBs were detected in 14 of 20 soil samples. All 20 samples were analyzed for 4,4-DDD, 4,4-DDE, and 4,4-DDT. Other organochlorine pesticides and PCBs were analyzed for in 4 to 12 samples collected from Area 1. The following table presents the maximum concentration for each compound detected. As shown below, sample results did not exceed the industrial PRGs. The highest concentration of pesticides (120 mg/kg of 4,4-DDD) was detected in the surface sample collected from boring A01-04. This boring is located near the southern wall of Building 72, which reportedly was formerly used as a receiving area for industrial chemicals (Figure 14). The extent of pesticides in soil boring A01-04 is limited, based on results for surrounding soil samples (A01-08 through A1-11; Figure 14).

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
4,4-DDD	8	170	120	None
4,4-DDE	6	120	6.9	None
4,4-DDT	7	120	9.5	None
Aroclor 1221	1	10	0.31	None
Aroclor 1254	1	10	0.98	None
Chlordane	2	110	0.86	None
Delta-BHC	1	21	0.0056	None

### Proprietary Pesticides in Soil in Area 1

Proprietary pesticides were detected in 11 of 24 soil samples analyzed for proprietary pesticides. The following table shows that proprietary pesticide concentrations in soil samples were generally no more than one order of magnitude above the analytical reporting limit and at least three orders of magnitude below the industrial PRGs.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Bensulide	2	--	0.85	--
Butylate	1	44,000	0.06	None
Captan	4	810	2.2	None
Carbophenothion	11	--	0.18	--
Cycloate	5	--	0.19	--
EPTC	7	22,000	0.49	None
Fluorochloridone	3	--	0.16	--
Fonofos	3	1,800	2.52	None
Metam sodium	1	--	0.18	--
Molinate	5	1,800	0.17	None
Napropamide	5	88,000	0.12	None
Pebulate	5	44,000	1.16	None

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
R25788	2	--	0.09	--
R29148	1	--	0.03	--
Vernolate	3	880	0.33	None

Note:

-- Denotes no industrial PRG established.

#### 4.2.1.2.2 Groundwater in Area 1

Metals, VOCs, and proprietary pesticides were detected in both the grab groundwater sample collected at A01-01 and the groundwater sample from Lower Horizon monitoring well H-70. Of these groups, only the proprietary pesticides were detected above the screening criteria. SVOCs, pesticides, and PCBs were not detected above analytical reporting limits in groundwater in Area 1. Table 2d includes the detection frequencies and concentration ranges for chemicals detected in Area 1 groundwater samples and provides the screening criteria. Figures 15 through 26 show the pH in groundwater and the distribution of selected chemical concentrations detected in groundwater samples throughout the Site.

#### pH in Groundwater in Area 1

The pH measured in both the grab groundwater sample and the Lower Horizon monitoring well H-70 was neutral, approximately 7 SU. Groundwater pH values in the Upper Horizon are presented in Figure 15.

#### CAM-17 Metals in Groundwater in Area 1

As shown in the following table, five of the CAM-17 metals were detected in groundwater in Area 1. As shown below, metals detected were below the screening criteria.

Metal	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Barium	2	+	55	+
Cobalt	1	230**	41	None
Molybdenum	1	3,700**	28	None
Selenium	1	710	6	None

Metal	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Zinc	1	580	130	None

## Notes:

Screening criteria are ESPP action levels, unless otherwise noted.

\*\* Denotes screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997).

+ The available screening criteria for barium is likely below ambient groundwater conditions at similar shoreline sites.

### VOCs in Groundwater in Area 1

As shown in the following table, VOCs were detected in groundwater samples collected from Area 1. However, all detected concentrations are below the screening criteria for VOCs. The frequency and concentration range of VOCs detected in groundwater samples within the Plant Area are provided in Table 2d. Table 3d includes analytical results for all groundwater samples collected in Area 1.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,2-Dichlorobenzene	2	1,290*	6.3	None
1,2-Dichloroethane	2	9,100**	47	None
Benzene	1	5,100	9.6	None
Carbon Tetrachloride	2	64,000*	45	None
Chlorobenzene	2	1,290	27	None
Chloroform	2	64,000*	67	None
Cis-1,2-Dichloroethene	2	5,900** +	32	None
Tetrachloroethene	2	4,500*	26	None
Trichloroethene	2	2,000	370	None
Vinyl Chloride	1	7,820**	4.6	None

## Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ Screening value for cis-1,2-dichloroethene (cis-1,2-DCE) is for total 1,2-DCE concentration.

### SVOCs in Groundwater in Area 1

SVOCs were not detected above analytical reporting limits in groundwater samples collected from Area 1 (Table 3d).

### Organochlorine Pesticides and PCBs in Groundwater in Area 1

Organochlorine pesticides and PCBs were not detected above analytical reporting limits in groundwater samples collected from Area 1 (Table 3d).

### Proprietary Pesticides in Groundwater in Area 1

Proprietary pesticides were detected in both samples collected from Area 1 (see Table 3d). As shown below and on Figure 26, proprietary pesticides exceeded screening criteria in the Upper Horizon grab groundwater sample from A01-01. Proprietary pesticides detected in the Lower Horizon groundwater monitoring well did not exceed the screening criteria. The following table includes a summary of proprietary pesticides detected in Area 1.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Butylate	2	550	36	None
<b>Captan</b>	<b>1</b>	<b>10</b>	<b>21</b>	<b>A01-01</b>
<b>Cycloate</b>	<b>2</b>	<b>470</b>	<b>760</b>	<b>A01-01</b>
<b>EPTC</b>	<b>2</b>	<b>430</b>	<b>1,700</b>	<b>A01-01</b>
Fluorochloridone	1	260	2	None
<b>Molinate</b>	<b>1</b>	<b>350</b>	<b>6,300</b>	<b>A01-01</b>
Napropamide	2	470	7	None
<b>Pebulate</b>	<b>2</b>	<b>230</b>	<b>1,000</b>	<b>A01-01</b>
R25788	1	6,580	52	None
R29148	1	1,030	80	None
<b>Vernolate</b>	<b>2</b>	<b>30</b>	<b>210</b>	<b>A01-01</b>

Notes:

Proprietary pesticides were screened against AWQC developed by PER (1999).

Bold indicates a concentration that exceeds screening criteria.

### 4.2.1.3 *Summary of Area 1*

Following is a summary of the key findings in Area 1.

#### *Soil*

- The pH values measured in soil samples collected in the vicinity of Area 1 are generally neutral, except for the soil samples collected from boring A01-04, located west of Area 1.
- No chemicals were detected in the soil samples above the modified industrial PRGs for soil.

#### *Groundwater*

- The pH values measured in groundwater samples collected in Area 1 are neutral; approximately 7 SU.
- Metal concentrations in groundwater were generally below the screening criteria.
- Proprietary pesticides captan, cycloate, EPTC, molinate, pebulate, and vernolate were detected above screening criteria in a grab groundwater sample collected from the Upper Horizon.
- VOCs were not detected above screening criteria in groundwater samples.
- SVOCs, organochlorine pesticides, or PCBs were not detected above analytical reporting limits in groundwater samples.

## 4.2.2 **Area 2: Agricultural Chemical and Formulations Tank Farm**

Area 2 is the formulation tank farm and agricultural chemical formulation area commonly known as the “Ag Yard.” Area 2 is located in the eastern central area of the Site along South 48th Street (Figure 2).

### 4.2.2.1 *Area 2 Operational History and Manufacturing Processes*

Area 2 is in a portion of the Site formerly occupied by Wheeler Reynolds and Stauffer. Wheeler Reynolds and Stauffer began producing carbon disulfide on the Site in 1906. Carbon disulfide manufacturing continued until 1961. Carbon disulfide was used in the manufacturing of Vapam, also known as metam sodium, a proprietary compound used primarily as a soil fumigant. Carbon disulfide was also used as a vineyard fumigant for phylloxera control, and in the rayon manufacturing process. In 1960, Wheeler Reynolds and Stauffer became part of the Stauffer Chemical Company and the area was primarily used for chemical storage. This portion of the Site remained operational until 1997. Historical operations northwest of Area 2 included Ordram formulation (molinate), Devrinol 2E formulation, and sulfur grinding. Ordram was reformulated from a liquid to a solid form. Ordram technical was made elsewhere and shipped to the Site by rail. Ordram technical was dissolved in kerosene and mixed with an emulsifier

and surfactant at the Site. Devrinol technical was dissolved in chlorobenzene and mixed with an emulsifier and surfactant.

The 1916, 1930, 1949, and 1970 Sanborn Insurance maps and former air permits present historical features and chemical storage information.

The historical site features include the following:

- 24 ASTs ranging in size from 7,000 to 14,000 gallons
- two buildings
- one storage shed

The former chemical storage included the following:

- Ordram (Molinate; an herbicide used primarily to control water grass in rice fields)
- Chlorobenzene (used as a diluting agent)
- Eptam (thiocarbamate herbicide)
- carbon disulfide (used as a raw material in Vapam production)
- RoNeet (thiocarbamate herbicide)
- Sutan (thiocarbamate herbicide)
- kerosene (used as a diluting agent)

#### **4.2.2.2 Occurrence and Distribution of Chemicals in Area 2**

During August and September 1999, 12 soil samples and 3 grab groundwater samples were collected from 9 soil borings drilled in and near Area 2. These samples were analyzed for analytes discussed in Section 2.2. In October 1999, twelve soil samples were collected from four locations. Eight of these samples were analyzed for organochlorine pesticides and proprietary pesticides only. Groundwater samples were also collected from existing Upper Horizon groundwater monitoring well H-16 and newly installed Lower Horizon monitoring wells H-73 and H-76. Soil boring locations are shown in Figure 3. Locations of grab groundwater samples and monitoring wells are shown in Figure 4.

##### **4.2.2.2.1 Soil in Area 2**

Metals and VOCs were detected in soil samples collected from Area 2, but did not exceed the industrial PRGs. SVOCs and PCBs were not detected above analytical reporting limits. The pesticide toxaphene exceeded the industrial PRG in only one sample. Table 2c shows the detection frequency and concentration range and for chemicals detected in soil samples relative to the industrial PRGs. Analytical results for all Area 2 soil samples are included in Table 3c. Figures 10 through 14 show pH

values, selected metals, and concentrations of VOCs, SVOCs, organochlorine pesticides, and PCBs detected in soil samples collected from throughout the Site.

## pH in Soil in Area 2

The pH values in Area 2 soil samples ranged from 2.7 SU to 7.7 SU. The lower pH values (less than 4 SU) were measured from the shallow samples (1.5 feet bgs) collected in Area 2. Soil pH is shown on Figure 10 and the following table. Cinders were only observed in boring A02-09, in Area 2.

Field Sample ID	Depth (feet)	Measured pH Value	Cinders Present in Sample?	Cinders Present in Boring?	Cinder Depth Interval (feet bgs)
A02-04-1.5	1.5	5	No	No	--
A02-04-3.5	3.5	4.2	No	No	--
A02-05-1.5	1.5	4.4	No	No	--
A02-05-3.5	3.5	5.7	No	No	--
A02-06-1.5	1.5	2.7	No	No	--
A02-06-3.5	3.5	6.6	No	No	--
A02-07-1.5	1.5	3.6	No	No	--
A02-07-3.5	3.5	7.7	No	No	--
A02-08-1.5	1.5	5	No	No	--
A02-08-3.5	3.5	5.5	No	No	--
A02-09-1.5	1.5	3.7	Yes	Yes	1.0 to 2.5
A02-09-3.5	3.5	4.9	No	Yes	1.0 to 2.5

### Notes:

Sample labeling convention is the area of concern sample location number top depth of the sample (for example A01-04-1.5 refers to area of concern A01, sample location 04, collected from a depth of 1.5 feet bgs).

-- Denotes cinders not encountered.

## Metals in Soil in Area 2

All CAM-17 metals, except antimony, were detected in soil samples collected at Area 2. However, as shown in the following table, only arsenic was detected above the industrial PRG and only in sample A02-09-1.5. The sample collected from 3.5 feet bgs in boring A02-09 contained low concentrations of arsenic (2.7 mg/kg; low arsenic concentrations were reported for soil samples collected northeast to northwest of boring A02-09; Figure 11 and Table 3c).



Metal Exceeding PRG	Number of Samples Containing Metal	Modified Industrial PRG (mg/kg)	Concentration (mg/kg)	Samples Exceeding Industrial PRGs
<b>Arsenic</b>	<b>12</b>	<b>27</b>	<b>58</b>	<b>A02-09-1.5</b>

Notes:

Bold indicates a concentration that is above the industrial PRG.

## VOCs in Soil in Area 2

As shown in the following table, VOCs were detected in 8 of 12 soil samples analyzed for VOCs. VOC concentrations were generally no more than one order of magnitude above the analytical reporting limit and at least three orders of magnitude below the industrial PRGs. The highest VOC concentrations detected in Area 2 soil samples were in samples collected from boring A02-04, located near the former herbicide formulation tanks.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
1,2,4-Trimethylbenzene	1	5.7	0.0058	None
1,2-Dibromo-3-Chloropropane	1	40	0.0074	None
1,2-Dichlorobenzene	2	370	0.038	None
1,4-Dichlorobenzene	1	81	0.0043	None
2-Butanone	3	2,800	0.026	None
Acetone	7	6,200	0.12	None
Carbon Disulfide	4	720	0.092	None
Chlorobenzene	1	540	0.0083	None

## SVOCs in Soil in Area 2

SVOCs were not detected above laboratory reporting limits in soil samples collected from Area 2.

## Organochlorine Pesticides and PCBs in Soil in Area 2

Pesticides were detected in 10 of 20 soil samples analyzed for pesticides. The following table shows that concentrations of pesticides detected in the soil samples were below industrial PRGs, with the exception of toxaphene. Toxaphene was detected above the industrial PRG in the surface soil sample from soil boring A02-06 (230

mg/kg), located west of the former herbicide formulation tanks (Figure 14). However, as shown in Figure 14, toxaphene was detected at a lower concentration (0.13 mg/kg) in the deeper sample (3.5 feet bgs) from the same boring and was not detected above analytical reporting limits in soil samples collected from samples surrounding the boring.

PCBs were not detected above analytical reporting limits in Area 2 soil samples.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
4,4-DDD	6	170	0.11	None
4,4-DDE	2	120	0.013	None
4,4-DDT	8	120	0.5	None
Endosulfan I	1	5,300	0.0017	None
Endosulfan II	2	5,300	0.019	None
Endrin aldehyde	1	--	0.0038	--
gamma-BHC	1	29	0.0015	None
<b>Toxaphene</b>	<b>2</b>	<b>22</b>	<b>230</b>	<b>A02-06-1.5</b>

Notes:

-- Denotes no industrial PRG established.

Bold indicates a concentration that is above the industrial PRG.

### Proprietary Pesticides in Soil in Area 2

Proprietary pesticides were detected in 21 of 28 soil samples. The following table shows that proprietary pesticide concentrations in soil samples were generally no more than one order of magnitude above the analytical reporting limit and at least three orders of magnitude below the industrial PRGs.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Bensulide	1	--	0.06	--
Butylate	3	44,000	0.49	None
Captan	1	700	0.11	None
Carbophenothion	4	--	0.03	--

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Cycloate	12	--	2.36	--
EPTC	14	22,000	3.8	None
Fluorochloridone	5	--	3.9	--
Fonofos	1	1,800	0.01	--
Molinate	12	1,800	15.1	None
Napropamide	5	88,000	0.02	None
Pebulate	6	44,000	1.1	None
R25788	2	--	0.02	--
R29148	1	--	0.14	--
Vernolate	5	880	0.26	None

Note:

-- Denotes no industrial PRG established.

#### 4.2.2.2.2 Groundwater in Area 2

Metals, VOCs, SVOCs, and proprietary pesticides were detected in monitoring well and grab groundwater samples collected in Area 2. Of these chemical groups, metals, VOCs, and proprietary pesticides were detected above the screening criteria. Organochlorine pesticides and PCBs were not detected above analytical reporting limits in these samples. Table 2d presents the detection frequencies and concentration ranges for chemicals detected in groundwater samples throughout the Site and provides the screening criteria. Table 3c includes analytical results for all Area 2 groundwater samples. Figures 15 through 26 present pH and analytical results in groundwater.

#### pH in Groundwater in Area 2

As shown in Figure 15, the pH values in Upper Horizon groundwater in Area 2 ranged from 4.69 SU (well H-16) to 6.75 SU (grab sample A02-02). pH values measured for Lower Horizon groundwater samples collected from wells H-73 and H-76 were 7.17 SU and 7.54 SU, respectively.

#### CAM-17 Metals in Groundwater in Area 2

The following table summarizes metals detected in Area 2 groundwater samples. As shown in Figures 19 through 21, copper, nickel, and zinc exceeded the screening criteria in the grab groundwater sample from A02-01 (pH of 6.37 SU). Nickel and zinc

exceeded the screening criteria in Upper Horizon monitoring well H-16 (pH of 4.69 SU).

Metal	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Barium	6	+	65	+
Beryllium	1	6.6**	5.7	None
Cadmium	2	93	42	None
Cobalt	2	230**	110	None
<b>Copper</b>	<b>2</b>	<b>29</b>	<b>2,100</b>	<b>A02-01, H-16</b>
<b>Nickel</b>	<b>3</b>	<b>71</b>	<b>1,600</b>	<b>A02-01, H-16</b>
Selenium	2	710	8.3	None
<b>Zinc</b>	<b>5</b>	<b>580</b>	<b>12,000</b>	<b>A02-01, H-16</b>

Notes:

Screening criteria are ESPP action levels unless otherwise noted.

Bold indicates a concentration that exceeds screening criteria.

\*\* Denotes screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997).

+ The available screening criteria for barium is likely below ambient groundwater conditions at similar shoreline sites.

## VOCs in Groundwater in Area 2

The following table shows that several VOCs were detected in Area 2 groundwater, but were below the screening criteria. 1,2-Dichlorobenzene (1,2-DCB) was detected above the screening criteria in the grab groundwater sample from A02-03. However, only low concentrations of 1,2-DCB were detected in the nearby samples collected from A02-02 and the downgradient, Lower Horizon well H-73 (1.1  $\mu\text{g/l}$ ; Table 3d). Exceedances of screening criteria in groundwater samples are illustrated in Figures 22 and 23.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,2-Dibromo-3-Chloropropane	1	--	3.4	--
<b>1,2-Dichlorobenzene</b>	<b>4</b>	<b>1,290*</b>	<b>4,800</b>	<b>A02-03</b>
1,2-Dichloroethane	1	9,100**	0.5	None

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,3-Dichlorobenzene	1	1,290*	30	None
1,4-Dichlorobenzene	2	1,290*	370	None
Benzene	1	5,100	18	None
Chlorobenzene	2	1,290	11	None
Chloroform	2	64,000*	3.9	None
cis-1,2-Dichloroethene	1	5,900* +	0.8	None
Tetrachloroethene	1	4,500	62	None
Trichloroethene	1	2,000	3.2	None

## Notes:

Screening criteria are ESPP action levels, except where noted.

Bold indicates a concentration that exceeds screening criteria.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ Screening value for cis-1,2-DCE is for total 1,2-DCE concentration.

-- Denotes no screening value has been established.

## SVOCs in Groundwater in Area 2

Table 2d presents a statistical summary of compounds detected in groundwater samples. Only 4-chloro-3-methylphenol ( $37 \mu\text{g/l}$ ; sample A02-02) was detected in the grab groundwater samples.

## Organochlorine Pesticides and PCBs in Groundwater in Area 2

Organochlorine pesticides and PCBs were not detected above analytical reporting limits in Area 2 groundwater (Table 2d).

## Proprietary Pesticides in Groundwater in Area 2

Proprietary pesticides were detected in samples collected from Area 2 (Tables 2d and 3d). As shown below and in Figure 26, EPTC, molinate, pebulate, and vernolate exceeded screening criteria in the Upper Horizon grab groundwater sample from Area 2. EPTC was detected over the screening criteria in the historical data from downgradient well H-16. The following table includes a summary of proprietary pesticides detected in Area 2.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Butylate	2	550	310	None
Cycloate	3	470	280	None
<b>EPTC</b>	<b>3</b>	<b>430</b>	<b>3,700</b>	<b>A02-02, A02-03</b>
Fluorochloridone	1	260	2	None
<b>Fonofos</b>	<b>1</b>	<b>0.7</b>	<b>1</b>	<b>A02-02</b>
Metam Sodium	1	300	18	None
<b>Molinate</b>	<b>3</b>	<b>350</b>	<b>1,500</b>	<b>A02-01, A02-03</b>
<b>Pebulate</b>	<b>3</b>	<b>230</b>	<b>590</b>	<b>A02-02, A02-03</b>
R25788	3	6,580	1	None
R29148	2	1,030	4	None
<b>Vernolate</b>	<b>2</b>	<b>30</b>	<b>140</b>	<b>A02-03</b>

## Notes:

Proprietary pesticides were screened against AWQC developed by PER (1999).

Bold indicates a concentration that exceeds screening criteria.

#### 4.2.2.3 Summary of Area 2

Following is a summary of the key findings in Area 2.

##### *Soil*

- Soil pH was less than 4 SU at 3 of 12 locations and ranged from 2.7 to 7.7 SU at Area 2
- Arsenic was detected over the industrial PRG in one soil sample (A02-09-1.5) from Area 2.
- The pesticide toxaphene was detected over the industrial PRG in shallow soil (1.5 feet bgs) west of the former formulation tanks (boring A02-06). However, toxaphene was detected at a lower concentration in the deeper sample (3.5 feet bgs) from the same boring and was not detected above analytical reporting limits in soil samples collected from areas surrounding A02-06.

##### *Groundwater*

- Concentrations of copper, nickel, and zinc were detected over the screening criteria in Upper Horizon groundwater.

- 1,2-DCB, detected in sample at A02-03, was the only detected VOC that exceeded the screening criteria in groundwater. Only low concentrations of 1,2-DCB were detected in the nearby and downgradient samples.
- Proprietary pesticides EPTC, molinate, pebulate, and vernolate were detected over screening criteria in the grab groundwater samples collected from Upper Horizon groundwater. EPTC was also detected at over screening criteria in an Upper Horizon downgradient well.

### **4.2.3 Area 3: Former Pilot Plant and Laboratory Area**

Area 3 is the former pilot plant and laboratory area located in the central portion of the Site along South 47th Street (Figure 2). Area 3 is located directly behind former Building 54, which was built in the 1950s as part of the original research center. During the 1950s, Stauffer changed emphasis from industrial chemical production to agricultural chemical production. The primary activity of the research center was to discover and develop new herbicides, insecticides, and fungicides.

#### **4.2.3.1 Area 3 Operational History and Manufacturing Processes**

The facility was designed with a separate chemical sewer system to isolate wastewater from the lab sinks from other waste streams. As reported by Zeneca's Environmental Engineer (Esan Fanjung), waste chemicals that entered the lab sinks had originally flowed to the chemical sewer drain, but a break in the chemical sewer line apparently occurred at some unknown date. The break was identified in 1994 during routine maintenance behind Building B-54. Additionally, blue-green crystals, which were later determined to be a copper-containing compound, were observed by Zeneca personnel in the crawl space under Building B-54.

The 1916, 1930, 1949, and 1970 Sanborn Insurance maps and former air permits present historical features and chemical storage information. No specific features or chemical storage were noted in Area 3.

#### **4.2.3.2 Occurrence and Distribution of Chemicals in Area 3**

During August and September 1999, a total of 14 soil and 2 grab groundwater samples were collected and analyzed from 7 borings drilled in and near Area 3. Two additional soil samples and one additional grab groundwater sample were collected from boring BZ-01 installed in October 1999. Two groundwater samples were collected from Upper Horizon groundwater monitoring wells H-65 and Lower Horizon well H-75, which were installed in October and November 1999, respectively. A temporary piezometer was installed and a groundwater sample was collected and analyzed in November 1999. Soil boring locations are shown in Figure 3; locations of grab groundwater samples and monitoring wells are shown in Figure 4.

#### 4.2.3.2.1 Soil in Area 3

Metals, VOCs, SVOCs, and pesticides were detected in soil samples collected from Area 3. With the exception of arsenic and copper, concentrations of these chemical groups did not exceed the industrial PRGs. PCBs were not detected in Area 3 soil samples. Table 2c shows the detection frequency and concentration range for chemicals detected in soil samples, relative to the PRGs. Table 3c includes analytical results for all Area 3 soil samples. Figure 10 presents pH values for soil samples collected across the Site. Figures 11 through 14 show locations and concentrations of metals exceeding industrial PRGs, and VOCs, SVOCs, and organochlorine pesticides detected in the soil samples.

#### pH in Soil in Area 3

Soil pH in Area 3 is generally low with pH values ranging from 3.4 SU (sample A03-06-2.5 and A03-06-4.5) to 5 SU (A03-03-2.5), with two exceptions. A soil pH value of 7 SU was measured at 1.5 feet bgs in boring BZ-01. A soil pH value of 9.8 SU was measured for the deepest sample collected from boring A03-03 (7 feet bgs). pH values in soil across the Site are shown in Figure 10. The following table describes where cinder fill was encountered in the soil at Area 3.

Field Sample ID	Depth (feet bgs)	Measured pH Value	Cinders Present in Sample?	Cinders Present in Boring?	Cinder Depth Interval (feet bgs)
A03-03-2.5	2.5	5	No	No	--
A03-03-4.5	4.5	4.5	No	No	--
A03-03-7	7	9.8	No	No	--
A03-04-2.5	2.5	3.9	No	Yes	0-2.0
A03-04-4.5	4.5	3.6	No	Yes	0-2.0
A03-04-7	7	4.1	No	Yes	0-2.0
A03-05-2.5	2.5	3.5	No	Trace	0-2.0
A03-05-4.5	4.5	3.6	No	Trace	0-2.0
A03-05-7	7	4	No	Trace	0-2.0
A03-06-2.5	2.5	3.4	No	No	--
A03-06-4.5	4.5	3.4	No	No	--
A03-06-7	7	3.9	No	No	--
BZ-01-1.5	1.5	7	Yes	Trace	0-2.5
BZ-01-3.5	3.5	4.1	No	Trace	0-2.5



Note:

Sample labeling convention is the area of concern sample location number top depth of the sample (for example A01-06-1.5 refers to the sample collected in area of concern 1, location 6, at 1.5 feet bgs).

-- Denotes cinders not encountered.

### Metals in Soil in Area 3

As shown in the following table, all CAM-17 metals were detected in Area 3 soil samples. However, only copper and arsenic were detected above the industrial PRG. Arsenic was detected in 10 of the 16 samples at concentrations exceeding the industrial PRG for arsenic. Figure 11 shows the locations of concentrations of metals that exceed the industrial PRG in soil across the Site.

Metal	Number of Samples Containing Metal	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Arsenic	16	27	300	A03-01-4, A03-03-4.5, A03-03-7, A03-04-2.5, A03-04-4.5, A03-05-2.5, A03-05-4.5, A03-06-2.5, A03-06-4.5, A03-06-7
Copper	16	5,300	36,000	A03-04-7, A03-05-4.5, A03-06-7

Note:

Bold indicates a concentration that exceeds the industrial PRG.

### VOCs in Soil in Area 3

As shown in Figure 12, VOCs were detected in 13 of 14 soil samples collected from Area 3. As shown in the following table, detected VOC concentrations were below the respective industrial PRGs (Tables 2c and 3c).

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
1,2,3-Trichlorobenzene	1	3,000	0.37	None
1,2,4-Trichlorobenzene	2	3,000	2.2	None
1,2-Dichlorobenzene	2	370	0.35	None
1,4-Dichlorobenzene	2	81	2.3	None

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
Benzene	2	15	0.025	None
Carbon Disulfide	1	720	0.0029	None
Chlorobenzene	11	540	210	None
Hexachlorobutadiene	3	320	3.2	None
Tetrachloroethene	7	190	2.6	None
Toluene	1	520	0.0029	None

### SVOCs in Soil in Area 3

SVOCs were detected in 5 of 14 soil samples at concentrations below the industrial PRGs, as shown in Figure 13. The following table summarizes the SVOCs detected, their industrial PRGs, and the maximum detected concentrations. The frequency and concentration range for SVOCs detected in soil samples are presented in Table 2c. Table 3c includes analytical results for all soil samples collected from Area 3.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
2,4-Dichlorophenol	1	2,600	0.45	None
2-Chlorophenol	5	240	1.7	None
Benzo(b,k)fluoranthene	1	29	0.18	None
Chrysene	1	2,900	0.19	None
Fluoranthene	1	3,000	0.17	None
Pyrene	1	5,400	0.23	None

### Pesticides/PCBs in Soil in Area 3

Pesticides were detected in 11 of 14 soil samples at concentrations below the industrial PRGs, as shown in Figure 14 and Table 3c. PCBs were not detected above analytical reporting limits. The following table summarizes the pesticides detected, their industrial PRGs, and the maximum detected concentrations.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
4,4-DDD	3	170	0.064	None
4,4-DDE	3	120	0.031	None
4,4-DDT	6	120	9.2	None
Alpha-BHC	8	5.9	0.11	None
Beta-BHC	3	21	0.025	None
Delta-BHC	3	21	0.036	None
Dieldrin	2	1.5	0.013	None
Endosulfan I	1	5,300	0.006	None
Gamma-BHC	6	29	0.064	None

### Proprietary Pesticides in Soil in Area 3

Proprietary pesticides were not detected in the three soil samples analyzed.

#### 4.2.3.2.2 Groundwater in Area 3

Metals, VOCs, SVOCs, and pesticides were detected in monitoring well and grab groundwater samples collected from Area 3. Of these chemical groups, metals, VOCs, organochlorine pesticides, and proprietary pesticides were detected above screening criteria. PCBs were not detected above analytical reporting limits in Area 3 groundwater. Figure 15 illustrates areas of low pH in groundwater at the Site; Figures 16 through 27 show the distribution of elevated concentrations of metals, VOCs, SVOCs, organochlorine pesticides, and proprietary pesticides in groundwater. Table 2d presents the detection frequencies for chemicals detected in the groundwater samples and compares their analytical results to screening criteria. Table 3d presents analytical results for Area 3 groundwater samples.

### pH in Groundwater in Area 3

As shown in Figure 15, the pH measured for one Upper Horizon monitoring well and three grab groundwater samples in Area 3 range from 4.0 to 4.5 SU. The groundwater sample from Lower Horizon well H-75 had a pH value of 6.09 SU.

### CAM-17 Metals in Groundwater in Area 3

Metals were detected in both monitoring well and grab groundwater samples collected from Area 3. As shown in the following table, cadmium, cobalt, copper, mercury,

nickel, and zinc were detected at concentrations above the screening criteria. In addition, copper, nickel, and zinc were detected at concentrations exceeding their screening criteria in the Lower Horizon well located downgradient from Area 3 (H-75). Figures 16 and 17 show locations where metals exceed their screening criteria. Figures 18 through 21 show concentrations of cadmium, copper, nickel, and zinc in Upper Horizon groundwater across the Site.

Metal Compound	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Arsenic	4	360	120	None
Barium	5	+	29	+
Beryllium	4	6.6**	3.9	None
<b>Cadmium</b>	<b>5</b>	<b>93</b>	<b>490</b>	<b>A03-01, A03-02, BZ-01</b>
Chromium	1	500*	13	None
<b>Cobalt</b>	<b>5</b>	<b>230**</b>	<b>510</b>	<b>A03-01, A03-02, BZ-01, H-65</b>
<b>Copper</b>	<b>5</b>	<b>29</b>	<b>85,000</b>	<b>A03-01, A03-02, BZ-01, H-65, H-75</b>
Lead	4	56	49	None
<b>Mercury</b>	<b>2</b>	<b>0.25*</b>	<b>0.67</b>	<b>H-65</b>
<b>Nickel</b>	<b>5</b>	<b>71</b>	<b>1,100</b>	<b>A03-01, A03-02, BZ-01, H-65, H-75</b>
Thallium	2	2,130*	9.9	None
<b>Zinc</b>	<b>5</b>	<b>580</b>	<b>17,000</b>	<b>A03-01, A03-02, BZ-01, H-65, H-75</b>

Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ The available screening criteria for barium is likely below ambient groundwater conditions at similar shoreline sites.

Bold indicates a concentration that exceeds screening criteria.

### VOCs in Groundwater in Area 3

As shown in the table below, many VOCs were detected in Area 3 groundwater samples. However, only chlorobenzene was detected in groundwater samples at

concentrations exceeding the screening criteria. As shown in Figure 24, chlorobenzene was detected at concentrations up to 75,000  $\mu\text{g/l}$  in the Upper Horizon groundwater samples collected from Area 3. The concentration of chlorobenzene reported for Lower Horizon well H-75 was 720  $\mu\text{g/l}$ . A shallow, temporary well (less than 7 feet deep) was placed in the fill in Area 3 to sample perched water observed in this area. Results for the grab groundwater sample collected from this location in the fill indicated the presence of chlorobenzene above the screening criteria (1,290  $\mu\text{g/l}$ ). Figures 22 and 23 present VOC results that exceed the screening criteria. Figure 24 shows the approximate distribution of chlorobenzene in Upper Horizon groundwater.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,1,2-Trichloroethane	1	12,000**	0.7	None
1,1-Dichloroethene	1	250**	2.2	None
1,2,3-Trichloropropane	1	--	1.9	--
1,2,4-Trimethylbenzene	1	--	8.2	--
1,2-Dichlorobenzene	3	1,290*	110	None
1,2-Dichloroethane	2	9,100*	65	None
1,3,5-Trimethylbenzene	1	--	2	--
1,4-Dichlorobenzene	3	1,290*	78	None
Benzene	4	5,100*	190	None
Carbon Disulfide	1	9.2*	0.7	None
<b>Chlorobenzene</b>	<b>6</b>	<b>1,290*</b>	<b>75,000</b>	<b>A03-01, A03-02, BZ-01, H-65, Temporary Well</b>
Chloroethane	1	--	1.2	--
Chloroform	2	64,000*	5.4	None
cis-1,2-Dichloroethene	3	5,900**+	21	None
Ethylbenzene	1	430*	2.5	None
Isopropylbenzene	1	--	2.4	--
m,p-Xylenes	1	130**+	8.4	None
Methyl tertiary-butyl ether	1	--	6	--
Naphthalene	1	2,350*	34	None

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
n-Butylbenzene	1	--	1.6	--
o-Xylene	1	130**+	10	None
Propylbenzene	1	--	3.1	--
sec-Butylbenzene	1	--	1.6	--
Tetrachloroethene	5	4,500	100	None
Toluene	1	50,000*	2.5	None
trans-1,2-Dichloroethene	1	5,900**+	1.2	None
Trichloroethene	4	2,000	990	None
Vinyl Chloride	2	7,820**	5.3	None

## Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ Screening value is for total 1,2-DCE concentration or total xylenes.

-- Denotes no screening value has been established.

Bold indicates a concentration that exceeds screening criteria.

### SVOCs in Groundwater in Area 3

The following table summarizes the SVOCs detected in Area 3 grab groundwater and monitoring well samples. SVOCs were not detected at concentrations over the screening criteria in groundwater samples collected from Area 3. Samples collected from BZ-01, monitoring well H-65, and the temporary piezometer were not analyzed for SVOCs during the second round of sampling because SVOCs were not detected over screening criteria in the first round of sampling. The frequency and concentration range of SVOCs detected in groundwater samples is presented in Table 2d. Table 3d includes analytical results for all groundwater samples collected from Area 3.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
2,4-Dichlorophenol	1	--	15	--
2-Chlorophenol	2	--	370	--
Phenol	2	1,100**	25	None

## Notes:

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

-- Denotes no screening value has been established.

### Organochlorine Pesticides and PCBs in Groundwater in Area 3

Several pesticides were detected in the groundwater samples collected in Area 3. PCBs were not detected above analytical reporting limits. Samples collected from BZ-01, H-65, and the temporary piezometer were not analyzed for pesticides or PCBs. As shown in the following table, 4 of 5 pesticides were detected at concentrations exceeding screening criteria in the water sample collected at boring A03-02. The pesticides 4,4-DDD, 4,4-DDT, alpha-BHC, and gamma-BHC were also detected in the soil samples collected from Area 3 (Table 2c).

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
<b>4,4-DDD</b>	<b>2</b>	<b>1.3</b>	<b>14<sub>J</sub></b>	<b>A03-01, A03-02</b>
<b>4,4-DDT</b>	<b>1</b>	<b>1.3</b>	<b>19<sub>J</sub></b>	<b>A03-02</b>
Alpha-BHC	1	+	9.4	--
<b>Endosulfan II</b>	<b>1</b>	<b>0.51</b>	<b>12<sub>J</sub></b>	<b>A03-02</b>
<b>Gamma-BHC</b>	<b>1</b>	<b>1.6</b>	<b>6.7<sub>J</sub></b>	<b>A03-02</b>

Notes: (1) Ecological Screening Criteria from RWQCB and California Environmental Protection Agency (Cal-EPA) 1998.

+ Available screening criteria are at or below the detection limit.

J Denotes estimated concentration.

Bold indicates a concentration that exceeds screening criteria.

### Proprietary Pesticides in Groundwater in Area 3

Proprietary pesticides were detected in the groundwater samples collected in Area 3, including the sample from the Lower Horizon well H-75. Samples collected from BZ-01 and the temporary piezometer were not analyzed for proprietary pesticides. As shown in Figure 26, captan and metam sodium exceeded screening criteria in groundwater sample from A03-01. Vernolate exceeded screening criteria in a groundwater sample from A03-02. The following table presents a summary of proprietary chemicals detected in groundwater samples collected from Area 3.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Butylate	1	550	2	None
<b>Captan</b>	<b>1</b>	<b>10</b>	<b>32</b>	<b>A03-01</b>
Carbophenothion	1	6	3	None
Cycloate	1	470	3	None
EPTC	2	430	58	None
Fluorochloridone	2	260	5	None
<b>Metam Sodium</b>	<b>1</b>	<b>300</b>	<b>390</b>	<b>A03-01</b>
Molinate	2	350	43	None
Napropamide	2	470	22	None
Pebulate	1	230	15	None
R25788	1	6,580	2	None
<b>Vernolate</b>	<b>2</b>	<b>30</b>	<b>210</b>	<b>A03-02</b>

Notes:

(1) Proprietary pesticides were screened against the AWQC developed by PER (1999).

Bold indicates a concentration that exceeds screening criteria.

#### 4.2.3.3 Summary of Area 3

Following is a summary of the key findings in Area 3.

##### *Soil*

- Soil pH was less than 4 SU and 5 of 14 locations and ranged from 3.4 to 9.8 SU.
- Arsenic was detected in nine soil samples at concentrations above the industrial PRG, at a maximum concentration of 300 mg/kg. Copper was detected in one sample above the industrial PRG at a concentration of 36,000 mg/kg.
- VOCs, SVOCs, and pesticides were detected in soil, but did not exceed the industrial PRGs.

##### *Groundwater*

- Cadmium, cobalt, copper, mercury, nickel, and zinc were detected were detected at concentrations above their respective screening criteria in Upper Horizon groundwater samples collected from Area 3. Copper, nickel, and zinc were also detected over screening criteria in Lower Horizon well H-75.



- Chlorobenzene was the only VOC detected in groundwater at concentrations that exceeded the screening criteria. Chlorobenzene was detected in monitoring well and grab groundwater samples collected from the Upper Horizon (maximum concentration of 75,000  $\mu\text{g/l}$ ), but was only detected below the screening criteria in Lower Horizon well H-75.
- SVOCs were not detected at concentrations exceeding the screening criteria.
- Pesticides 4,4-DDD, 4,4-DDT, endosulfan II, and gamma-BHC were detected in groundwater samples at concentrations exceeding screening criteria.

Proprietary pesticides captan, metam sodium, and vernolate were detected in groundwater at concentrations exceeding the screening criteria in two grab groundwater samples.

#### **4.2.4 Area 4: Former Vapam Production Area**

Area 4, known as the Vapam production area, is located in the southern central portion of the Site along South 47th Street (Figure 2).

##### **4.2.4.1 Area 4 Operational History and Manufacturing Processes**

Area 4 is located in the former sulfuric acid production area of Stauffer, north of the current surge ponds (Figure 2). Sulfuric acid production began in this area in 1897. The sulfuric acid was produced in a chamber plant from 1897 to 1919, after which the chamber plant was replaced by a contact plant. In a chamber plant, sulfuric acid is produced by burning a mixture of sulfur and saltpeter and condensing the acid formed in large (often lead) vessels. In the contact plant, sulfuric acid was manufactured by roasting pyrite ores. The contact plant operated until 1970. From 1916 to the 1950s, both sulfuric and nitric acids were produced. The acids were stored in several ASTs within the area.

The primary use of Area 4 changed to Vapam production in 1952. Vapam is a soil fumigant used to control soil fungi, nematodes, soil insects, and weeds. Vapam is made in a specialized chamber by reacting monomethylamine, carbon disulfide, and sodium hydroxide. Once made, the product was checked and adjusted into a 33 percent active ingredient aqueous solution. Originally, Stauffer supplied the carbon disulfide; however, after the carbon disulfide production ceased, all raw materials were brought in by rail.

After the area use changed from acid to Vapam manufacturing, the ASTs were used to store a variety of compounds. Records are incomplete regarding the compounds stored in these tanks. Vapam production ceased in 1997. The 1916, 1930, 1949, and 1970 Sanborn Insurance maps and former air permits present historical features and chemical storage information. Site features identified on the Sanborn Insurance maps included the following:

- nitric acid plant
- sulfur acid plant
- ASTs
- Vapam reaction chamber
- lead chamber
- transformer

#### 4.2.4.2 Occurrence and Distribution of Chemicals in Area 4

During August and September 1999, a total of 17 soil and 3 grab groundwater samples were collected from 11 borings installed in and near Area 4. Five soil samples and one grab groundwater sample were collected from three additional soil borings installed in October 1999. Groundwater samples were also collected from existing Upper Horizon groundwater monitoring wells H-53 and H-61. Soil boring locations are shown in Figure 3. Grab groundwater and monitoring well locations are shown in Figure 4.

##### 4.2.4.2.1 Soil in Area 4

Metals, VOCs, SVOCs, and pesticides were detected in soil samples collected at Area 4. With the exception of arsenic, lead, and benzo(a)pyrene, concentrations of these chemicals were not detected above the industrial PRGs. PCBs were not detected. Table 2c shows the detection frequency and compares analytical results for chemicals detected in soil samples to the PRGs. Table 3c includes analytical results of all Area 4 soil samples. Figure 10 presents pH values for soil samples collected across the Site. Figures 11 through 14 show locations and concentrations of metals, VOCs, SVOCs, and organochlorine pesticides in soil.

#### pH in Soil in Area 4

The pH values in soil samples ranged from approximately 3.4 SU to 7.5 SU. A pH value of 12 SU was measured for sample A04-07-1. Figure 10 shows pH values for soil samples collected across the Site. Cinders were encountered in several borings in Area 4, as shown below.

Field Sample ID	Depth (feet bgs)	Measured pH Value	Cinders Present in Sample?	Cinders Present in Boring?	Cinder Depth Interval (feet bgs)
A04-04-1.5	1.5	3.8	Yes	Yes	0-2.0
A04-04-3.5	3.5	3.6	No	Yes	0-2.0
A04-05-1.5	1.5	3.5	Yes	Yes	0-2.0
A04-05-3.5	3.5	4	No	Yes	0-2.0

Field Sample ID	Depth (feet bgs)	Measured pH Value	Cinders Present in Sample?	Cinders Present in Boring?	Cinder Depth Interval (feet bgs)
A04-06-1.5	1.5	7.3	No	No	--
A04-06-6.5	6.5	4.2	No	No	--
A04-07-1.0	1.0	12	No	Yes	1.5-2.5
A04-07-3.0	3.0	4.1	Yes	Yes	1.5-2.5
A04-08-1.5	1.5	3.4	Yes	Yes	0-2.0
A04-08-3.5	3.5	4.6	No	Yes	0-2.0
A04-09-1.5	1.5	6.7	No	Trace	1.5-3.5
A04-09-3.5	3.5	5.3	Yes	Trace	1.5-3.5
A04-10-1.5	1.5	4.3	Yes	Trace	0.5-2.5
A04-10-3.5	3.5	3.8	No	Trace	0.5-2.5
A04-11-1.5	1.5	7.3	Yes	Yes	0.5-3.0
A04-11-3.5	3.5	4.9	No	Yes	0.5-3.0
A04-11-6.5	6.5	5.6	No	Yes	0.5-3.0
A04-12-1.5	1.5	4.5	No	No	--
A04-12-3.5	3.5	4	No	No	--
H-61	1.5	7.5	No	No	5-8
H-61	3.5	6.8	No	No	5-8

## Notes:

Sample labeling convention is the area of concern sample location number top depth of the sample (for example A01-06-1.5 refers to the sample collected in area of concern 1, location 6, at 1.5 feet bgs).

-- Denotes cinders not encountered.

### Metals in Soil in Area 4

All CAM-17 metals were detected in the 21 soil samples collected in Area 4. Arsenic and lead were the only metals detected above the industrial PRGs, as shown in the following table. Locations and concentrations of metals that exceeded the industrial PRG are shown in Figure 11.

Metal	Number of Samples Containing Metal	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
Arsenic	21	27	98	A04-04-1.5, A04-05-3.5, A04-06-1.5, A04-06-6.5, A04-08-1.5, A04-09-3.5, A04-11-3.5
Lead	21	1,000	18,000	A04-05-3.5, A04-09-3.5, A04-11-3.5

Note:

Bold indicates a concentration that exceeds the industrial PRG.

#### VOCs in Soil in Area 4

VOCs were detected in 13 of 21 soil samples analyzed, but all concentrations were below the respective PRGs, as shown in the following table. The highest VOC concentrations were detected in soil samples collected in the southern and central portions of Area 4 (Figure 12).

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
1,4-Dichlorobenzene	1	81	0.1	None
Acetone	3	6,200	0.035	None
Benzene	1	15	0.011	None
Carbon Disulfide	8	720	16	None
Carbon Tetrachloride	2	5.3	1.7	None
Chlorobenzene	5	540	6.9	None
Chloroform	3	5.2	3	None
m,p-Xylenes	1	210	0.0028	None
Naphthalene	2	190	1.5	None
Para-Isopropyl Toluene	1	--	0.86	--
Tetrachloroethene	4	190	0.14	None
Trichloroethene	1	61	0.0041	None

Note:

-- Denotes no PRG has been established.

### SVOCs in Soil in Area 4

SVOCs were detected in 10 of 18 soil samples analyzed. SVOCs were not detected over the PRGs, with the exception of one benzo(a)pyrene detection. As shown in Figure 13, the benzo(a)pyrene was detected in the shallow sample (1.5 feet bgs) from soil boring A04-10, located in the eastern portion of Area 4 near South 47th Street. The following table lists the SVOCs detected, their PRGs and the maximum detected concentrations.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
2-Chlorophenol	1	240	0.26	None
3-,4-Methylphenol	1	4,400	8.3	None
Anthracene	2	100,000	3.8	None
Benzo(a)anthracene	6	29	9	None
<b>Benzo(a)pyrene</b>	<b>6</b>	<b>2.9</b>	<b>6.2</b>	<b>A04-10-1.5</b>
Benzo(b,k)fluoranthene	7	29	21	None
Benzo(g,h,i)perylene	2	--	1.1	--
Chrysene	7	2,900	12	None
Fluoranthene	6	3,000	30	None
Indeno(1,2,3-cd)pyrene	3	29	4	None
Phenanthrene	6	--	4.6	--
Phenol	2	100,000	1.5	None
Pyrene	7	5,400	40	None

Note:

-- Denotes no PRG has been established.

Bold indicates a concentration that exceeds the industrial PRG.

### Organochlorine Pesticides and PCBs in Soil in Area 4

Pesticides were detected in 4 of 18 soil samples analyzed at concentrations below the industrial PRGs. PCBs were not detected in samples collected from Area 4. The following table lists the pesticides detected and the maximum detected concentrations. As shown in Figure 14, the highest concentrations of pesticides in Area 4 were detected in the surface sample from A04-10, located east of Area 4 near South 47th Street.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
4,4-DDD	3	170	1	None
4,4-DDE	1	120	0.0037	None
4,4-DDT	4	120	7.2	None

#### Proprietary Pesticides in Soil in Area 4

Proprietary pesticides were detected in 17 of the 29 soil samples analyzed. As shown in the following table, concentrations detected were below the PRGs for the various proprietary pesticides.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Butylate	2	--	8.4	--
Captan	1	810	0.18	None
Carbophenothion	5	--	1.89	--
Cycloate	1	--	0.13	--
EPTC	3	22,000	0.06	None
Fluorochloridone	10	--	0.41	--
Metam sodium	4	--	130	--
Molinate	6	1,800	0.054	None
Napropamide	4	88,000	0.79	None
Pebulate	1	44,000	0.01	None
R29148	2	--	0.03	--
Vernolate	6	880	0.57	None

Note:

-- Denotes no PRG has been established.

#### 4.2.4.2.2 Groundwater in Area 4

Metals, VOCs, SVOCs, and proprietary pesticides were detected in groundwater samples collected from Area 4. Of these chemical groups, only metals, VOCs, and

proprietary pesticides were detected above the screening criteria. Organochlorine pesticides and PCBs were not detected above analytical reporting limits. Table 2d presents the detection frequencies for chemicals detected in the groundwater samples and compares their analytical results to the screening criteria. Table 3d includes analytical results for all Area 4 groundwater samples. Figures 15 through 26 present pH values and groundwater quality data for the Site.

#### pH in Groundwater in Area 4

As shown in Figure 15, the pH values in Area 4 grab groundwater samples (Upper Horizon) range from 4.0 SU to 6.7 SU. The pH values for groundwater samples collected from wells H-53 and H-61 were lower at 3.42 SU and 3.2 SU, respectively.

#### CAM-17 Metals in Groundwater in Area 4

Analytical results for six groundwater samples showed that concentrations of beryllium, cadmium, cobalt, copper, lead, mercury, nickel, and zinc exceed the screening criteria. The following table lists the metals detected in groundwater, the screening criteria, and the maximum concentrations detected.

Metal	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Arsenic	4	360	21	None
Barium	6	+	52	+
<b>Beryllium</b>	<b>4</b>	<b>6.6**</b>	<b>32</b>	<b>H-53, H-61</b>
<b>Cadmium</b>	<b>5</b>	<b>93</b>	<b>260</b>	<b>A04-02, A04-03, H-53</b>
Chromium	3	500	47	None
<b>Cobalt</b>	<b>5</b>	<b>230**</b>	<b>2,500</b>	<b>A04-01, A04-02, A04-03, H-53</b>
<b>Copper</b>	<b>4</b>	<b>29</b>	<b>41,000</b>	<b>A04-02, A04-03, H-53, H-61</b>
<b>Lead</b>	<b>5</b>	<b>56</b>	<b>840</b>	<b>A04-02, H-61</b>
<b>Mercury</b>	<b>2</b>	<b>0.25*</b>	<b>0.62</b>	<b>A04-02, A04-03</b>
<b>Nickel</b>	<b>6</b>	<b>71</b>	<b>5,400</b>	<b>A04-01, A04-02, A04-03, A04-12, H-53, H-61</b>
Selenium	4	710	49	None

Metal	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Silver	1	23	9.8	None
Thallium	3	2,130	110	None
Vanadium	2	200	120	None
<b>Zinc</b>	<b>6</b>	<b>580</b>	<b>64,000</b>	<b>A04-01,A04-02, A04-03, H-53, H-61</b>

## Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ The available screening criteria for barium is likely below ambient groundwater conditions at similar shoreline sites.

Bold indicates a concentration that exceeds screening criteria.

#### VOCs in Groundwater in Area 4

Many VOCs were detected in groundwater in Area 4. Of those VOCs, carbon disulfide, chlorobenzene, and m,p-xylenes were detected at concentrations exceeding screening criteria (see table below). Figures 22 and 23 present analytical results for VOCs exceeding screening criteria in Upper and Lower Horizon groundwater. Figure 24 shows the approximate distribution of chlorobenzene in Upper Horizon groundwater. Concentrations of VOCs detected in Lower Horizon groundwater samples are generally below the screening criteria.

Seven of the VOCs (1,2-DCB, benzene, carbon disulfide, carbon tetrachloride, chloroform, tetrachloroethene [PCE], and TCE) detected in groundwater samples collected in Area 4 were also detected in soil samples collected in Area 4.

Chemical Compound	Number of Samples Containing Compound	Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,1,2,2-Tetrachloroethane	2	6,100	120	--
1,1,2-Trichloroethane	1	12,000**	4.9	None
1,2,4-Trimethylbenzene	1	--	310	--
1,2-Dichlorobenzene	1	1,290*	2.5	None



Chemical Compound	Number of Samples Containing Compound	Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,2-Dichloroethane	2	9,100**	40	None
1,3,5-Trimethylbenzene	1	--	100	--
1,4-Dichlorobenzene	1	1,290*	3.3	None
Benzene	4	5,100	62	None
<b>Carbon Disulfide</b>	<b>2</b>	<b>9.2*</b>	<b>68,000</b>	<b>A04-01, H-61</b>
Carbon Tetrachloride	2	64,000*	100	None
<b>Chlorobenzene</b>	<b>5</b>	<b>1,290</b>	<b>10,000</b>	<b>A04-03</b>
Chloroform	5	64,000*	3,400	None
cis-1,2-Dichloroethene	2	5,900* +	83	None
Ethylbenzene	1	430*	64	None
Isopropylbenzene	1	--	7.9	--
<b>m,p-Xylenes</b>	<b>1</b>	<b>130**+</b>	<b>280</b>	<b>H-53</b>
Naphthalene	2	2,350*	75	None
n-Butylbenzene	1	--	35	--
o-Xylene	1	130**+	120	None
para-Isopropyl Toluene	1	--	3.9	--
Propylbenzene	1	--	35	--
sec-Butylbenzene	1	--	4.9	--
Tetrachloroethene	4	4,500	500	None
Toluene	1	50,000	100	None
trans-1,2-Dichloroethene	1	5,900* +	3.3	None
Trichloroethene	4	2,000	290	None
Vinyl Chloride	1	7,820**	4.5	None

## Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ Screening value is for total 1,2-DCE concentration or total xylenes.

-- Denotes no screening value has been established.

Bold indicates a concentration that exceeds screening criteria.

### SVOCs in Groundwater in Area 4

SVOC were detected in two groundwater samples collected from Area 4. The following table summarizes the SVOC detected in the groundwater in Area 4.

Chemical Compound	Number of Samples Containing Compound	Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
2-Chlorophenol	1	--	46	--
2-Methylnaphthalene	1	--	50	--

Note:

-- Denotes no screening value has been established.

### Organochlorine Pesticides and PCBs in Groundwater in Area 4

Organochlorine pesticides and PCBs were not detected above analytical reporting limits in groundwater samples collected from Area 4. Samples collected from A04-12 and H-61 were not analyzed for pesticides and PCBs.

### Proprietary Pesticides in Groundwater in Area 4

Proprietary pesticides were detected in four groundwater samples collected from Area 4. Samples collected from A04-12 and H-53 were not analyzed for proprietary pesticides. As shown in Figure 26, only one result for metam sodium in the grab groundwater sample from A04-01 exceeded screening criteria in Area 4. Metam sodium was not detected above the laboratory detection limit at location A04-02, located downgradient from A04-01.

The following table summarizes the SVOC detected in the groundwater in Area 4.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria(1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Butylate	1	550	1	None
Cycloate	1	470	1	None
EPTC	1	430	1	None
Fluorochloridone	1	260	4	None
Molinate	2	350	19	None
<b>Metam Sodium</b>	<b>2</b>	<b>300</b>	<b>480,000</b>	<b>A04-01</b>

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria(1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Napropamide	1	470	3	None
Pebulate	1	230	9	None
R29148	1	1,030	6	None
Vernolate	1	30	5	None

Notes:

(1) Proprietary pesticides were screened against the AWQC developed by PER (1999).

Bold indicates a concentration that exceeds screening criteria.

#### 4.2.4.3 *Summary of Area 4*

Following is a summary of the key findings in Area 4.

##### *Soil*

- Soil pH was less than 4 SU at 5 of 20 sample locations and ranged from 3.5 to 7.5 SU except for one sample at 12.5 SU
- Cinders were encountered in 15 of the 21 samples collected in portions of Area 4.
- Arsenic was detected in six soil samples at concentrations (up to 98 mg/kg) that exceed the industrial PRG. Lead was detected in three samples at concentrations (up to 18,000 mg/kg) that exceed the industrial PRG.
- Benzo(a)pyrene was the only SVOC detected above the industrial PRG in soil samples. Benzo(a)pyrene only exceeded the PRG in one sample at a concentration of 6.2 mg/kg (A04-10-1.5).
- VOCs and pesticides were detected in the soil but did not exceed the industrial PRGs.

##### *Groundwater*

- Low pH was measured in groundwater (as low as 3.2 SU).
- Beryllium, cadmium, cobalt, copper, lead, mercury, nickel, and zinc were detected at concentrations above the screening criteria in Upper Horizon groundwater samples.
- The VOCs carbon disulfide, chlorobenzene, and m,p-xylenes were detected at concentrations above the screening criteria in several Upper Horizon groundwater samples.
- The proprietary pesticide metam sodium was detected at concentrations exceeded the screening criteria for groundwater in an Upper Horizon grab groundwater

sample from A04-01. Metam sodium was not detected above the laboratory detection limit at location A04-02, located downgradient from A04-01.

- SVOCs were not detected at concentrations exceeding the screening criteria.

#### **4.2.5 Area 5: Western Tank Farm Area**

Area 5 is the western tank farm area, located in the western central area of the Site along the western property boundary (Figure 2).

##### **4.2.5.1 Area 5 Operational History**

Former operations in the vicinity of Area 5 consisted primarily of the operation and subsequent dismantling of a sulfuric acid manufacturing plant. Although Stauffer manufactured sulfuric acid at the Site beginning in 1897, Area 5 was used for sulfuric acid production from approximately 1919 to 1963. Pyrite ore was roasted in a contact plant located in Area 5. Cinders were a by-product of the sulfuric acid production.

From sometime in the 1930s to 1970, superphosphate was produced just northeast of Area 5 (upgradient) using the sulfuric acid produced on site and phosphate rock.

According to the records review, several of the ASTs that were originally used in the manufacturing and storage of sulfuric acid were converted to store Vapam, a soil fumigant manufactured in Area 4, and other compounds associated with the production of agricultural products. As of September 1999, three empty ASTs remain in Area 5. These ASTs were subsequently removed from the Site in November 1999. The 1916, 1930, 1949, and 1970 Sanborn maps illustrate historical locations of the following site features associated with the manufacturing of sulfuric acid:

- 26 ASTs
- drum and carbon storage areas
- sumps
- contact plant for production of sulfuric acid
- machine shop and compressor room
- oil house
- cooling tower
- water supply well
- industrial sewer line

##### **4.2.5.2 Occurrence and Distribution of Chemicals in Area 5**

During August and September 1999, a total of 10 soil samples were collected for chemical analyses from 5 soil borings drilled in Area 5. Three grab groundwater

samples were collected from locations A05-01, A05-02, and A05-03. In October 1999, three soil samples and one groundwater sample were collected from newly installed monitoring well H-62. Soil boring locations, grab groundwater locations, and groundwater monitoring wells are shown in Figures 3 and 4.

#### 4.2.5.2.1 Soil in Area 5

Metals, VOCs, SVOCs, pesticides, PCBs, and proprietary pesticides were detected in soil samples collected from Area 5. Table 2c provides the detection frequency and concentration range for each chemical detected in Area 5 soil samples. Table 3c includes analytical results for all Area 5 soil samples. Figure 10 shows pH values measured in soil samples collected throughout the Site, Figure 11 shows concentrations of metals in soil that exceed the industrial PRGs, and Figures 12 through 14 show concentrations of VOCs, SVOCs, pesticides, and PCBs detected in soil samples collected throughout the Site.

#### pH in Soil in Area 5

The pH values in Area 5 soil samples generally ranged from approximately 5 SU to 8 SU. Lower pH values were measured in the samples collected from 3.5 feet bgs in borings A05-05 and A05-08 (Figure 10). A higher pH value (9.3 SU) was measured in the sample collected from 1.5 feet bgs in boring H-62. A summary of pH data and the presence of cinders in soil borings drilled in Area 5 is presented below.

Field Sample ID	Sample Depth (feet bgs)	Measured pH Value	Cinders Present in Sample?	Cinders Present in Boring?	Cinder Depth Interval (feet bgs)
A05-04-1.5	1.5	6.4	No	No	--
A05-04-3.5	3.5	4.9	No	No	--
A05-05-1.5	1.5	8.3	No	No	--
A05-05-3.5	3.5	3.9	No	No	--
A05-06-1.5	1.5	4.9	No	Trace	1.5-6.5
A05-06-3.5	3.5	8.3	Yes	Trace	1.5-6.5
A05-07-1.5	1.5	7.6	Yes	Trace	1.0-6.5
A05-07-3.5	3.5	8.3	Yes	Trace	1.0-6.5
A05-08-1.5	1.5	7.5	No	No	--
A05-08-3.5	3.5	3.9	No	No	--
H-62-1.5	1.5	9.3	No	Yes	1.5-8.0
H-62-3.5	3.5	7.6	Yes	Yes	1.5-8.0

## Note:

Sample labeling convention is the area of concern sample location number top depth of the sample (for example A01-06-1.5 refers to the sample collected in area of concern 1, location 6, at 1.5 feet bgs).

### Metals in Soil in Area 5

All CAM-17 metals were detected in soil samples. However, only two of the metals, arsenic and lead, were detected at concentrations above the PRGs, as shown in the table below. The lateral and vertical extent of elevated metal concentrations appears to be localized to the samples listed below based on the lower concentrations detected in surrounding samples (Table 3c and Figure 11).

Metal	Number of Samples Containing Metal	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Arsenic	12	27	52	A05-08-3.5, H-62-1.5, H-62-3.5
Lead	12	1,000	2,000	A05-04-1.5, A05-07-1.5

## Note:

Bold indicates that the maximum concentration detected exceeds the industrial PRG.

### VOCs in Soil in Area 5

VOCs were detected in 4 of 12 soil samples (Tables 2c and 3c). As shown in the following table, VOC concentrations were generally no more than one order of magnitude above the detection limit and three or more orders of magnitude below the respective PRGs. Four of the six VOCs were detected in the soil samples collected from boring A05-07, which is located in the AST secondary containment area.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
2-Butanone	2	2,800	0.017	None
Acetone	2	6,200	0.076	None
Carbon Disulfide	3	720	0.014	None
Chlorobenzene	2	540	0.016	None
Naphthalene	1	190	0.0096	None

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
para-Isopropyl Toluene	2	--	0.064	--

Note:

-- Denotes no PRG has been established.

### SVOCs in Soil in Area 5

SVOCs were not reported above analytical reporting limits in soil samples collected in Area 5, with the exception of one sample location within the AST secondary containment area. As shown in the following table, only benzo(a)pyrene was detected above the PRG in one sample collected at 1.5 feet bgs (A05-07-1.5). As shown in Table 2c, the laboratory detection limit of 6.7 mg/kg for benzopyrene exceeded the industrial PRG of 2.9 mg/kg in some samples. Benzopyrene was not reported for the sample collected from 3.5 feet bgs at location A05-07-3.5. However, the laboratory detection limit for that sample is 6.7 mg/kg.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Benzo(a)anthracene	1	29	11	None
<b>Benzo(a)pyrene</b>	<b>1</b>	<b>2.9</b>	<b>6</b>	<b>A05-07-1.5</b>
Benzo(b,k)fluoranthene	1	29	22	None
Benzo(g,h,i)perylene	1	--	5	--
Chrysene	1	2,900	20	None
Fluoranthene	1	3,000	23	None
Indeno(1,2,3-cd)pyrene	1	29	5	None
Phenanthrene	1	--	14	--
Pyrene	1	5,400	26	None

Notes:

-- Denotes no PRG has been established.

Bold indicates that the maximum concentration detected exceeds the industrial PRG.

### Organochlorine Pesticides and PCBs in Soil in Area 5

Pesticides and PCBs were detected in 7 of 13 soil samples. As shown in the following table, pesticides and PCBs were detected below the industrial PRGs.

Aroclor 1242 was detected in sample A05-07-1.5 at a concentration slightly above the PRG. However, the extent appears limited, based on the much lower concentration of Aroclor 1242 detected in the deeper sample (0.12 mg/kg at 3.5 feet bgs) collected from that same location (Figure 14).

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
4,4-DDD	2	170	0.057	None
4,4-DDE	2	120	0.49	None
4,4-DDT	2	120	0.62	None
Aroclor 1221	1	10	0.072	None
<b>Aroclor 1242</b>	<b>4</b>	<b>10</b>	<b>13</b>	<b>A05-05-1.5</b>
Aroclor 1254	3	10	1.2	None
Endrin	1	260	0.014	None
Endrin aldehyde	1	--	0.43	--

Notes:

-- Denotes no PRG has been established.

Bold indicates that the maximum concentration detected exceeds the industrial PRG.

### Proprietary Pesticides in Soil in Area 5

Proprietary pesticides were detected in 6 of the 14 soil samples analyzed. As shown in the following table, concentrations detected were several orders of magnitude below the PRGs for the various proprietary pesticides.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Butylate	2	44,000	0.1	None
Captan	1	810	0.06	None
Carbophenothion	2	--	0.1	--
EPTC	1	22,000	0.02	None
Fluorochloridone	4	--	0.29	--
Fonofos	1	1,800	0.02	None
Metam sodium	2	--	0.22	--



Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Molinate	2	1,800	0.02	None
Napropamide	2	88,000	0.26	None
Pebulate	2	44,000	0.03	None
Phosmet	2	18,000	0.37	None
R29148	2	--	0.02	--
Vernolate	1	880	0.03	None

Notes:

-- Denotes no PRG has been established.

#### 4.2.5.2.2 Groundwater in Area 5

Three grab groundwater samples (locations A05-01, A05-02, and A05-03) and one monitoring well sample (H-62) were collected from Area 5. Metals, VOCs, and proprietary pesticides were detected in Area 5 groundwater. Of these groups, only metals and VOCs were detected above the screening criteria. Table 2d presents the detection frequencies and concentration range for chemicals detected in groundwater. Figure 15 presents pH values measured in groundwater samples collected across the Site. Figures 16 to 26 present analytical results for groundwater locations where the concentrations exceeded the screening criteria.

#### pH in Groundwater in Area 5

The pH of the grab groundwater samples collected in Area 5 ranged from 5.78 SU in sample A05-02 to 6.72 SU in sample A05-01 (Figure 15).

#### CAM-17 Metals in Groundwater in Area 5

As shown in the following table, analytical results for the grab groundwater samples collected in Area 5 indicate that with the exception of cobalt, copper, and nickel, the CAM-17 metals are below the screening criteria. Cobalt and copper were detected at concentrations just over the screening criteria. Nickel was detected at concentrations above the screening criteria in three of the four samples. Figure 16 presents metals concentrations for groundwater samples that exceed the screening criteria.

Metal Compound	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Arsenic	2	360	12	None
Barium	4	+	61	+
Cadmium	2	93	11	None
<b>Cobalt</b>	<b>4</b>	<b>230**</b>	<b>310</b>	<b>A05-03</b>
<b>Copper</b>	<b>3</b>	<b>29</b>	<b>63</b>	<b>A05-03</b>
Lead	1	56	3.5	None
Molybdenum	1	3,700**	27	None
<b>Nickel</b>	<b>4</b>	<b>71</b>	<b>200</b>	<b>A05-02, A05-03, H-62</b>
Selenium	3	710	11	None
Vanadium	1	200**	10	None
Zinc	4	580	170	None

## Notes:

Screening criteria are ESPP action levels, except where noted.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ The available screening criteria for barium is likely below ambient groundwater conditions at similar shoreline sites.

Bold indicates that the maximum concentration detected exceeds the screening criteria.

### VOCs in Groundwater in Area 5

The following table presents the maximum concentrations of VOCs detected in both the grab groundwater and monitoring well samples collected from Area 5. As shown below, all concentrations of VOCs in groundwater were below the screening criteria, with the exception of carbon disulfide, which was detected in grab groundwater sample A05-01 at a concentration of 130  $\mu\text{g/l}$  (Figure 16).

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,1,2-Trichloroethane	1	12,000**	1.5	None
1,1-Dichloroethene	3	250**	4.1	None
1,2,4-Trimethylbenzene	1	--	0.6	--

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,2-Dichlorobenzene	1	1,290*	0.8	None
1,2-Dichloroethane	4	9,100**	120	None
Acetone	1	15,000**	16	None
Benzene	3	5,100	1.6	None
<b>Carbon Disulfide</b>	<b>2</b>	<b>9.2*</b>	<b>130</b>	<b>A05-01</b>
Carbon Tetrachloride	1	64,000*	84	None
Chlorobenzene	4	1,290	87	None
Chloroform	1	64,000	140	None
cis-1,2-Dichloroethene +	4	5,900*	5	None
m,p-Xylenes +	1	130**	0.5	None
Methylene Chloride	1	6,400*	22	None
Naphthalene	1	2,350	0.5	None
Tetrachloroethene	3	4,500	4.7	None
Trichloroethene	4	2,000	240	None
Vinyl Chloride	3	7,820**	9.5	None

## Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ Screening value for cis-1,2-DCE is for total 1,2-DCE concentration.

-- Denotes no screening value has been established.

Bold indicates that the maximum concentration detected exceeds the screening criteria.

### SVOCs in Groundwater in Area 5

SVOCs were not detected above laboratory detection limits in groundwater samples collected from Area 5 (Tables 2d and 3d).

### Organochlorine Pesticides and PCBs in Groundwater in Area 5

No organochlorine pesticides or PCBs were detected in the three grab groundwater samples analyzed for these compounds (Tables 2d and 3d).

### Proprietary Pesticides in Groundwater in Area 5

As shown below, proprietary pesticides fluorochloridone, EPTC, and metam sodium were detected at low concentrations in one of the three grab groundwater samples analyzed for these compounds.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
EPTC	2	430	34	None
Fluorochloridone	1	260	10	None
Metam sodium	1	300	18	None

Note:

(1) Proprietary pesticides were screened against the AWQC developed by PER (1999).

#### 4.2.5.3 Summary of Area 5

Following is a summary of the key findings in Area 5.

##### *Soil*

- Soil pH was less than 4 SU at 2 of 12 locations and ranged from 3.9 SU to 9.3 SU
- Concentrations of arsenic and/or lead were detected in soil above the PRGs at four locations.
- Benzo(a)pyrene was detected in one soil sample and Aroclor 1242 was detected in one soil sample (collected from beneath the AST secondary containment) at concentrations over their respective PRGs. Based on results for surrounding and underlying samples, the extent of elevated concentrations of these compounds is likely limited to surface soils.

##### *Groundwater*

- Cobalt, copper, and nickel were detected at concentrations above the screening criteria in Upper Horizon groundwater.
- Carbon disulfide was detected in groundwater above the screening criteria at one location.
- Four VOCs (2-butanone [carbon tetrachloride], acetone, carbon disulfide, and chlorobenzene) detected in shallow groundwater were also detected in soil samples collected in Area 5.

## 4.2.6 Area 6: Generalized Area of Inorganic Concern

Area 6 was identified by Zeneca as a site-wide area of potential concern because of the potential presence of cinders and the potential for inorganic compounds to be present in soil and groundwater at elevated concentrations. Sampling locations were identified where inorganic materials had been stockpiled at the Site. These materials included pyrite ores, phosphate, bauxite, alum, alum mud, cinders, and sulfur. Area 6 generally includes all portions of the Plant Area not identified as Areas 1 through 5 (Figure 2).

### 4.2.6.1 *Area 6 Operational History*

From 1919 to approximately 1970, Stauffer roasted pyrite ores at the southwest portion of the Site for the production of sulfuric acid. These ores primarily contained pyrite ( $\text{FeS}_2$ ), but also contained lesser amounts of chalcopyrite ( $\text{CuFeS}_2$ ), sphalerite ( $\text{ZnS}$ ), magnetite ( $\text{Fe}_3\text{O}_4$ ), quartz ( $\text{SiO}_2$ ), and calcite ( $\text{CaCO}_3$ ; Mark Group 1991a). Nickel and arsenic are also commonly associated with pyrite ore. The roasting operation resulted in the accumulation of cinders. These cinders were gathered and disposed of in the on-site landfill but were also used as a general fill material at the Site. The cinder landfill, located in the southwestern portion of the Site just south of the Plant Area, closed in the early 1970s (The Mark Group 1991a). The landfill was not lined.

Superphosphate fertilizer was produced at the Site from 1906 until 1971. The production unit was located north of Area 5. The production used the sulfuric acid manufactured at the Site and phosphate rock.

Bauxite and sulfur were stored on the ground north and east, respectively, of the superphosphate production area (Figure 2). Bauxite is an aluminum-rich ore used in production of alum (aluminum sulfate). Stockpiles of both materials are visible in aerial photographs dating from 1949 through 1975.

The cinder fill that is encountered frequently at the Site is a potential source of metals and acid. Previous evaluations by Shepherd Miller, Inc., indicate that residual sulfide materials within the cinders can potentially oxidize in the unsaturated zone (Shepherd Miller 1999). These oxidation processes can produce a soluble source of metals and acidity in the cinder fill. Water contacting the cinders, via infiltration or groundwater table fluctuations, can potentially leach the acidity and metals from the cinder fill into shallow groundwater. Cinder fill in the saturated zone likely only produces a limited amount of acidity because only a small amount of oxygen is available in a dissolved state in water (Shepherd Miller 1999).

### 4.2.6.2 *Occurrence and Distribution of Chemicals in Area 6*

During August and September 1999, a total of 21 soil samples were collected from 12 soil borings drilled in Area 6 (Figure 3). Nine grab groundwater samples were collected from nine soil borings (Figure 4). In October 1999, three soil samples were collected from newly installed wells H-63 and H-68 Figure 4. Groundwater samples

were also collected from existing Upper Horizon wells H-34 and H-54, newly installed Upper Horizon well H-64, and newly installed Lower Horizon wells H-72 and H-74.

#### 4.2.6.2.1 Soil in Area 6

Metals, VOCs, SVOCs, and pesticides were detected in soil samples collected from Area 6. With the exception of arsenic, concentrations of these chemicals did not exceed the industrial PRGs. PCBs were not detected in Area 6 soil samples. Table 2c provides the detection frequency and concentration range for chemicals detected in soil samples and the respective industrial PRGs. Table 3c presents analytical results for all Area 6 soil samples. Figure 10 shows pH values measured in soil samples collected throughout the Site. Figures 11 through 14 present analytical results for metals, VOCs, SVOCs, pesticides, and PCBs in soil samples collected throughout the Site.

#### pH in Soil in Area 6

The pH values in Area 6 soil samples generally ranged from approximately 4 SU to 8 SU. However, as shown in the following table, pH values of less than 4 SU were measured in soil samples collected from four locations, and pH values greater than 9 SU were measured in samples collected from two locations (Figure 10).

Field Sample ID	Measured pH Value	Cinders Present in Sample?	Cinders Present in Boring?	Cinder Depth Interval (feet bgs)
A06-07-1.5	3.8	No	No	--
A06-07-3.5	4	No	No	--
A06-08-1.5	2.8	No	No	--
A06-09-1.5	10	No	No	--
A06-10-1.5	4.2	No	Yes	3.0-4.5
A06-10-3.5	5.9	Yes	Yes	3.0-4.5
A06-11-1.5	7.5	Yes	Trace	0-5.0
A06-11-3.5	8.5	Yes	Trace	0-5.0
A06-12-1.5	7.6	No	No	--
A06-12-3.5	9.7	No	No	--
A06-13-1.5	5.2	No	No	--
A06-13-3.5	6.8	No	No	--
A06-14-1.5	4.4	No	No	--
A06-14-3.5	4.3	No	No	--

Field Sample ID	Measured pH Value	Cinders Present in Sample?	Cinders Present in Boring?	Cinder Depth Interval (feet bgs)
A06-15-1.5	3.8	No	Trace	3.0-4.0
A06-15-3.5	4.1	Yes	Trace	3.0-4.0
A06-16-1.5	7.6	Yes	Trace	0-2.5
A06-16-3.5	4.7	No	Trace	0-2.5
A06-17-1.5	3.4	NA	NA	--
A06-17-4.5	4	NA	NA	--
A06-18-3.5	7.9	Yes	Trace	2.0-5.0
H-63-1.5	1.5	No	No	--
H-63-3.5	3.5	No	No	--

Notes:

NA denotes data not available.

-- Denotes cinders not encountered.

### Metals in Soil in Area 6

All CAM-17 metals were detected in soil samples collected at Area 6. However, only arsenic was detected at concentrations above the PRG, as shown in the following table. The highest concentrations of arsenic in soil in Area 6 were detected in surface soil samples (1.5 feet bgs). Table 2c presents the frequency of detection and concentration ranges for metals in soil. Table 3c includes analytical results for all soil samples collected in Area 6. Figure 11 shows concentrations of metals in soil that exceed the industrial PRGs.

Metal	Number of Samples Containing Metal	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
Arsenic	25	27	140	A06-07-1.5, A06-10-1.5, A06-10-3.5, A06-13-1.5, A06-15-1.5, A06-15-3.5, A06-17-1.5, A06-18-3.5

Note:

Bold indicates that the maximum concentration detected exceeds the industrial PRG.

## VOCs in Soil in Area 6

VOCs were detected in 18 of 25 soil samples collected and analyzed for VOCs in Area 6. As shown in the following table, concentrations were well below the respective PRGs. Table 3c includes analytical results for all soil samples collected in Area 6.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
1,2,4-Trimethylbenzene	1	5.7	0.0073	None
1,2-Dichlorobenzene	1	370	0.0025	None
1,3,5-Trimethylbenzene	1	70	0.0025	None
2-Butanone	3	2,800	0.028	None
Acetone	9	6,200	0.086	None
Carbon Disulfide	2	720	0.0076	None
Ethylbenzene	2	230	0.0075	None
m,p-Xylenes	4	210	0.028	None
Methylene Chloride	1	210	0.021	None
Naphthalene	1	190	0.028	None
o-Xylene	2	210	0.0096	None
Tetrachloroethene	4	190	0.071	None
Toluene	2	520	0.018	None

## SVOC in Soil in Area 6

SVOCs were detected in 6 of the 23 soil samples analyzed, primarily in samples collected at 1.5 feet bgs. As shown in the following table, concentrations detected were below the PRGs for the various SVOCs.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding PRGs
Benzo(a)anthracene	1	29	0.84	None
Benzo(a)pyrene	1	2.9	0.91	None
Benzo(b,k)fluoranthene	2	29	1.6	None



Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding PRGs
Chrysene	2	2,900	1.3	None
Fluoranthene	2	3,000	1.8	None
Phenanthrene	2	--	1.8	--
Phenol	2	100,000	0.2	None
Pyrene	4	5400	5.1	None

Note:

-- Denotes no PRG has been established.

### Pesticides/PCBs in Soil in Area 6

Pesticides were detected in 9 of 23 soil samples collected and analyzed in Area 6. PCBs were not detected above analytical reporting limits. The pesticides 4,4-DDD, 4,4-DDE, and 4,4-DDT were the most frequently detected pesticides, but as shown in the following table, concentrations for those compounds were well below the industrial PRGs.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
4,4-DDD	5	170	3.3	None
4,4-DDE	8	120	1.2	None
4,4-DDT	9	120	19	None
Dieldrin	1	1.5	0.058	None
Endosulfan I	1	5,300	0.046	None
Endosulfan II	1	5,300	0.044	None
Endrin	1	260	0.0032	None
Endrin aldehyde	1	--	0.047	--

Note:

-- Denotes no PRG has been established.

### Proprietary Pesticides in Soil in Area 6

Proprietary pesticides were detected in 19 of the 36 soil samples analyzed. As shown in the following table, concentrations detected were below the PRGs for the various proprietary pesticides.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Bensulide	2	--	0.16	--
Butylate	1	44,000	0.01	None
Captan	3	700	0.23	None
Carbophenothion	7	--	0.05	--
Cycloate	1	--	0.02	--
EPTC	1	22,000	0.2	None
Fluorochloridone	6	--	0.135	--
Fonofos	1	1,800	0.02	None
Metam sodium	2	--	8.5	--
Molinate	3	1,800	2.36	None
Napropamide	4	88,000	4.1	None
Pebulate	2	44,000	0.55	None
phosmet	1	18,000	0.07	None
Vernolate	1	880	0.07	None

Note:

-- Denotes no PRG has been established.

#### 4.2.6.2.2 Groundwater in Area 6

Metals, VOCs, SVOCs, pesticides, and proprietary pesticides were detected above the screening criteria in grab groundwater and monitoring well samples collected from Area 6. PCBs were not detected above analytical reporting limits in these samples. Table 2d presents the detection frequencies and concentration range for chemicals detected. Table 3d includes analytical results for all Area 6 groundwater samples. Figures 15 through 26 present pH values and groundwater quality data for the Site.

## pH in Groundwater in Area 6

The pH value of the groundwater samples collected at Area 6 generally ranged from 4.57 SU (sample A06-06) to 7.79 SU (sample A06-03). Lower pH values were measured in grab groundwater sample A06-02 (3.75 SU) and monitoring well sample H-63 (3.4 SU).

## CAM-17 Metals and pH in Groundwater in Area 6

As shown in the following table, groundwater quality results indicate that beryllium, cadmium, cobalt, copper, mercury, nickel, and zinc are present at concentrations above the screening criteria. Figures 16 and 17 show concentrations of metals that exceed the screening criteria. Some of the highest concentrations of metals were detected in samples collected from borings A06-02 and A06-03, located north of (upgradient from) Area 3 in the former bauxite and superphosphate production areas (Figures 3 and 16), and in samples from well H-63, downgradient from Area 3.

Metal Compound	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Arsenic	5	360	60	None
Barium	16	+	120	+
<b>Beryllium</b>	<b>3</b>	<b>6.6**</b>	<b>57</b>	<b>H-63</b>
<b>Cadmium</b>	<b>7</b>	<b>93</b>	<b>470</b>	<b>A06-02, A06-06, H-63</b>
Chromium	3	500	54	None
<b>Cobalt</b>	<b>8</b>	<b>230**</b>	<b>4,200</b>	<b>A06-02, A06-03, A06-06, A06-11, H-63</b>
<b>Copper</b>	<b>6</b>	<b>29</b>	<b>380,000</b>	<b>A06-02, A06-03, A06-06, A06-11, A06-13, H-63</b>
Lead	8	56	35	None
<b>Mercury</b>	<b>1</b>	<b>0.25*</b>	<b>8.7</b>	<b>H-63</b>
<b>Nickel</b>	<b>10</b>	<b>71</b>	<b>5,400</b>	<b>A06-02, A06-03, A06-04, A06-06, A06-11, A06-12, A06-13, H-63, H-64</b>

Metal Compound	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Selenium	10	710	42	None
Silver	1	23	5.6	None
Thallium	2	2,130*	130	None
Vanadium	1	200	180	None
<b>Zinc</b>	<b>13</b>	<b>580</b>	<b>240,000</b>	<b>A06-02, A06-03, A06-06, A06-11, A06-12, A06-13, H-63</b>

## Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ The available screening criteria for barium is likely below ambient groundwater conditions at similar shoreline sites.

Bold indicates that the maximum detected concentration exceeds the screening criteria.

## VOCs in Groundwater in Area 6

VOC were detected in eight of nine grab groundwater samples and three of seven monitoring well samples analyzed for VOCs. VOCs were not detected in samples collected from Lower Horizon wells H-72 and H-74. The following table presents the maximum concentrations of VOCs detected in Area 6 groundwater. As shown below, xylenes, 1,2-DCB, carbon disulfide, and chlorobenzene were detected in Upper Horizon groundwater samples at concentrations above the screening criteria. As shown in Figure 22, the highest concentrations of VOCs were detected at locations downgradient and crossgradient from Building 54 (Area 3) and adjacent to Building 65 (Area 6).

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,1,2,2-Tetrachloroethane	1	6100*	24	None
1,1,2-Trichloroethane	2	12,000**	1.4	None
1,2,4-Trimethylbenzene	2	--	50	--
<b>1,2-Dichlorobenzene</b>	<b>3</b>	<b>1,290*</b>	<b>2,100</b>	<b>H-34</b>

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
1,2-Dichloroethane	8	9,100**	170	None
1,3,5-Trimethylbenzene	1	--	13	--
1,3-Dichlorobenzene	1	1,290*	7	None
1,4-Dichlorobenzene	3	1,290	34	None
Acetone	5	15,000*	170	None
Benzene	7	5,100	310	None
Bromomethane	1	64,000*	1.7	None
<b>Carbon Disulfide</b>	<b>3</b>	<b>9.2**</b>	<b>1,800,000</b>	<b>A06-04, H-64</b>
<b>Chlorobenzene</b>	<b>8</b>	<b>1,290</b>	<b>3,100</b>	<b>A06-11, H-63</b>
Chloroform	4	64,000	32	None
cis-1,2-Dichloroethene	8	5,900	310	None +
Ethylbenzene	2	430	60	None
Isopropylbenzene	1	--	5	--
<b>m,p-Xylenes</b>	<b>4</b>	<b>130**</b>	<b>200</b>	<b>H-63+ +</b>
Naphthalene	3	2,350	57	None
n-Butylbenzene	1	--	3.1	--
o-Xylene	2	130**	91	None+ +
Propylbenzene	2	--	7.2	--
Sec-Butylbenzene	1	--	2.9	--
Tetrachloroethene	8	4,500	69	None
Toluene	2	50,000	410	None
Trichloroethene	10	2,000	240	None
Vinyl Chloride	4	7,820**	54	None

## Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ Screening value for cis-1,2-DCE is for total 1,2-DCE concentration.

+ + Screening value for xylenes are for total xylenes (m-, p- & o-xylenes).

-- Denotes no screening value has been established.

## SVOCs in Groundwater in Area 6

SVOCs were detected in four of nine grab groundwater samples and two of four Upper Horizon monitoring well samples (Table 3c). As shown in the following table, bis(2-ethylhexyl)phthalate, a common laboratory contaminant, was the only compound detected above the screening criteria. However, this result was for grab groundwater sample A06-04, located adjacent to Building 65. A lower concentration of bis(2-ethylhexyl)phthalate, 47  $\mu\text{g/l}$ , was detected in the groundwater sample subsequently collected from newly installed well H-64, located immediately adjacent to sample location A06-04.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
2-Chlorophenol	1	--	39	--
2-Methylnaphthalene	2	--	170	--
3,4-Methylphenol	2	--	6.4	--
Benzoic acid	1	420**	66	None
<b>bis(2-Ethylhexyl)phthalate</b>	<b>3</b>	<b>59</b>	<b>160</b>	<b>A06-04</b>
Fluoranthene	1	160**	7.2	None
Phenanthrene	2	300	15	None
Phenol	1	1,100**	15	None
Pyrene	1	300*	5.3	None

### Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

-- Denotes no screening value has been established.

Bold indicates that the maximum concentration detected exceeds the screening criteria.

## Organochlorine Pesticides and PCBs in Groundwater in Area 6

Pesticides were detected in three of nine grab groundwater samples collected in Area 6. Pesticides were not detected in the groundwater samples collected from monitoring wells H-34 and H-54. PCBs were not detected above analytical reporting limits. The following table presents the maximum concentration for pesticides detected in grab groundwater samples.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
4,4-DDD	1	1.3*	0.2	None
4,4-DDT	1	1.3*	0.1	None
Alpha-BHC	3	***	1.8	--
Beta-BHC	1	***	0.04	--
Delta-BHC	2	***	0.04	--
Endrin	1	0.61**	0.08	None
Gamma-BHC	2	1.6*	0.5	None
Heptachlor	1	0.53*	0.03	None
Heptachlor epoxide A	1	--	0.04	--
Heptachlor epoxide B	1	--	0.06	--

Notes:

\* Screening criteria from RWQCB and Cal-EPA 1998.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

\*\*\* Available screening criteria are at or below the detection limit.

-- Denotes no screening value has been established.

### Proprietary Pesticides in Groundwater in Area 6

As shown in the following table, all concentrations of proprietary pesticides in groundwater are well below the screening criteria.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Butylate	1	550	8	None
Captan	1	10	5	None
Carbophenothion	1	--	3	--
Cycloate	1	470	8	None
EPTC	1	430	43	None
Fluorochloridone	1	260	2	None
Metam Sodium (a)	2	--	18	--

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding the Screening Criteria
Molinate	3	350	5	None
Napropamide	2	470	28	None
Pebulate	1	230	1	None
R29148	1	1030	2	None

Note:

(1) Proprietary pesticides were screened against the AWQC developed by PER (1999).

-- Denotes no screening value has been established.

#### 4.2.6.3 Summary of Area 6

Following is a summary of the key findings in Area 6.

##### *Soil*

- Soil pH was less than 4 SU at 6 of 23 locations and greater than 9 SU at 2 of 23 locations
- Concentrations of arsenic above the PRG were detected in 7 of 25 soil samples.

##### *Groundwater*

- Concentrations of beryllium, cadmium, cobalt, copper, mercury, nickel, and zinc were detected above the screening criteria in Upper Horizon groundwater.
- Concentrations of VOCs (xylenes, 1,2-DCB, carbon disulfide, and chlorobenzene) were detected in groundwater samples. The highest concentration detected was carbon disulfide, which was detected at 1,800,000  $\mu\text{g/l}$  at a location near Building 65.
- Many of the VOCs detected in Area 6 groundwater (1,2-DCB, acetone, carbon disulfide, ethylbenzene, xylenes, naphthalene, PCE, and toluene) were also detected in soil samples collected in Area 6, but at concentrations below the PRGs.

### 4.3 Open Space

The Open Space is the southernmost portion of the property and is bordered by the San Francisco Bay to the south and the Plant Area to the north. The Open Space includes four surge ponds, two freshwater lagoons, the cinder landfill, and Stege Marsh (Figure 2). For purposes of this report, investigation results are presented for the Open Space (Section 4.3.2), the upper and lower freshwater lagoons (Section 4.3.3) and the tidal marsh (Section 4.3.4). Because ecological receptors are most likely present in the



lagoon and marsh, sediment concentrations are compared to ecological criteria (see Section 2.3).

#### 4.3.1 Open Space Operational History

The following provides a brief summary of historical operations in the Open Space. A more detailed discussion of operations is presented the Phase I ESA.

The south central portion of the Open Space contained ponds that were used to store waste materials generated at the Site. Before 1974, wastewater generated by chemical production and laboratory operations was released to the former ponds, which were later lined and converted to surge ponds. Wastewater previously was either channeled directly from the ponds to the adjacent tidal marsh or channeled into the evaporation lagoons before release to the tidal marsh. Between 1906 and 1974, wastewater was not chemically treated but was neutralized to reduce alkaline or acidic conditions before discharge.

Currently, four lined surge ponds are located at this portion of the Site. The four surge ponds are currently used to collect storm water during periods of high rainfall. Two freshwater lagoons, located east of the surge ponds, receive treated storm-water runoff from the surge ponds and direct runoff from parking lots, roofs, and roadways. In 1974, two activated carbon towers were installed next to one of the surge ponds to remove organic compounds before release into the ponds or lagoons.

Aerial photographs from the 1930s to 1960s show that the shoreline of the San Francisco Bay has been altered by the construction of a shoreline railroad that isolated Stege Marsh from San Francisco Bay. The approximate location of the shoreline in 1959 is illustrated in Figure 2. Stege Marsh is located along the southern portion of the Open Space. Stege Marsh has previously been identified as a “tidal dilution basin” and/or “tidal basin” on historical site maps provided by Zeneca. This marsh has been the subject of a recent ERA conducted by PER. Results of PER’s investigation are presented in a report, entitled “Sediment Quality in Stege Marsh, Ecological Risk Assessment,” dated April 30, 1999 (PER 1999). The findings of the PER investigation indicate that the pH condition in the sediment and pore water may be affecting ecological receptors in Stege Marsh. LFR, in conjunction with PER, is further evaluating the quality of the sediment and pore water in Stege Marsh. The analytical results of the sediment samples collected by PER and analyzed for selected metals, organochlorine pesticides, and proprietary pesticides are presented in this report.

The area located in the western portion of the Open Space has been used as the cinder landfill (Figure 2). From about 1919 to 1963, pyrite ores were roasted at the southwestern portion of the Plant Area for the production of sulfuric acid (Area 5, Section 3.2.5). This operation resulted in the accumulation of cinders, which were disposed of on site. Cinders were typically placed directly on native soils. In 1973, the RWQCB issued Order Number 73-12, which included closing the cinder landfill area and lining the on-site ponds. The cinder landfill was closed in 1974 in accordance with

the RWQCB Order. In July 1991, The Mark Group prepared and submitted a SWAT to complete the landfill closure (The Mark Group 1991a). As presented in the SWAT Report, the thickness of the cinder in this area is approximately 20 feet. Soil borings OS-16, OS-17, and OS-18 drilled by LFR in October 1999, in the vicinity of the former Alum Mud Pond and Clarifier Pond Number 1, encountered cinder up to 15 feet in thickness.

### 4.3.2 Occurrence and Distribution of Chemicals in the Open Space

During October and November 1999, a total of 16 soil samples were collected from 15 soil borings drilled in the Open Space from the areas outside of the two freshwater lagoons (Figure 3). Seven grab groundwater samples were collected from seven soil borings (Figure 4). Ground water samples were also collected from existing Upper Horizon groundwater monitoring well H-50 and Lower Horizon wells H-48 and H-60 and newly installed Lower Horizon groundwater monitoring wells H-71 and H-78.

Zeneca has installed ten Upper Horizon groundwater monitoring wells (H-37, H-38, H-40, H-41, H-43, H-44, H-46, H-47, H-49, and H-50), six Lower Horizon groundwater monitoring wells (H-39, H-42, H-45, H-48, H-59, and H-60) in this portion of the Site and has collected groundwater samples from these wells for 15 years (Figure 4). For wells not sampled by LFR in October or November 1999, the most recent analytical results of groundwater samples collected from these wells were used to assess site conditions.

#### 4.3.2.1 *Soil in the Open Space*

Metals, VOCs, SVOCs, and pesticides were detected in soil samples collected from the Open Space. With the exception of arsenic (eight samples), concentrations of these chemical groups did not exceed the industrial PRGs. PCBs were not detected above analytical reporting limits in Open Space soil samples. Table 2e provides the detection frequencies concentration range results and respective industrial PRGs for chemicals detected in soil samples. Table 3e includes analytical results for all soil samples collected from the Open Space. Figures 10 through 14 show pH, metals, VOCs, SVOCs, and pesticides detected in soil samples, respectively.

#### *pH in Soil in the Open Space*

The pH value in soil ranged from approximately 6 SU to 8 SU near the freshwater lagoon and to the east. Lower pH values (as low as 2.6 SU) were measured in samples collected from locations near the surge ponds and cinder landfill in the western portion of the Open Space. The pH of soil across the Site is illustrated in Figure 10. Cinder fill can contribute to lowering the soil pH. A summary of the pH data and whether cinder material was observed in the soil samples collected at the Open Space is presented below.

Sample ID	Depth (feet bgs)	pH in SU	Cinder Present in sample?	Cinder Present in boring (y/n) in feet bgs
OS-08-5.0	5.0	8.1	No	No
OS-09-5.0	5.0	5.9	Yes	4.0-6.0
OS-10-20.0	20.0	4.5	No	5.0-19.0
OS-11-9.0	9.0	3.6	Yes	0-9.0
OS-12-9.5	9.5	3.6	Yes	3.0-11.0
OS-13-11.5	11.5	3.4	No	2.0-5.0; 12.0-15.0
OS-14-5.0	5.0	3.1	Yes	3.5-15.0
OS-14-5.0	5.0	3.1	Yes	3.5-15.0
OS-15-4.0	4.0	6.8	Yes	2.0-10.0
OS-16-11.5	11.5	2.6	Yes	2.0-10.0
OS-17-19.0	19.0	3.8	No	3.0-18.0
OS-18-18.0	18.0	3.8	Yes	3.5-18.0
OS-19-1.5	1.5	7.7	No	No
OS-20-1.5	1.5	8	No	No
OS-21-0.5	0.5	7.4	No	No
OS-22-1.5	1.5	7.6	No	No
OS-23-0.5	0.5	7.1	No	No

Note:

Sample labeling convention is the area of concern sample location number top depth of the sample (for example OS-01-1.5 refers to Open Space, sample location 01, collected from a depth of 1.5 feet bgs).

### *Metals in Soil in the Open Space*

All CAM-17 metals were detected in soil samples collected from the Open Space, but arsenic was the only metal detected at concentrations exceeding the industrial PRGs. The locations where arsenic was detected at concentrations above the industrial PRG are distributed across the Open Space and are shown in Figure 11. The highest concentration of arsenic (440 mg/kg) was detected in the sample collected from 5 feet bgs at location OS-09, located south of the upper freshwater lagoon (Figure 11 and Table 3e). The following table lists the metal detected in soil and the maximum concentration detected.

Metal	Number of Samples Containing Metal	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Antimony	1	820	3	None
<b>Arsenic</b>	<b>16</b>	<b>27</b>	<b>440</b>	<b>OS-09-5, OS-11-9, OS-12-9.5, OS-17-19, OS-18-18, OS-19-1.5, OS-20-1.5, OS-21-1.5</b>
Barium	16	100,000	1,700	None
Beryllium	12	22,000	0.47	None
Cadmium	9	810	5.9	None
Chromium	15	450	70	None
Cobalt	13	100,000	15	None
Copper	16	5,300	1,200	None
Lead	16	1,000	400	None
Mercury	16	610	4.7	None
Molybdenum	8	10,000	4.3	None
Nickel	12	41,000	53	None
Selenium	8	10,000	7.1	None
Silver	7	10,000	24	None
Thallium	10	140	6.3	None
Vanadium	16	14,000	36	None
Zinc	15	100,000	710	None

Note:

Bold indicates a concentration that exceeds the industrial PRG.

### *VOCs in Soil in the Open Space*

VOCs were detected in 5 of the 16 soil samples analyzed for VOCs at concentrations below their industrial PRGs. The following table shows that the maximum VOC concentrations in soil samples were at least two orders of magnitude below the industrial PRGs.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRGs
1,1,2,2-Tetrachloroethane	1	9	0.01	None
1,2-Dichloroethane	1	7.6	0.0027	None
Acetone	1	6,200	0.037	None
Benzene	1	15	0.0046	None
Carbon Disulfide	1	720	0.0032	None
Chlorobenzene	1	540	0.0057	None
Methylene Chloride	1	210	0.028	None
Tetrachloroethene	2	190	0.015	None

### *SVOCs in Soil in the Open Space*

SVOCs were detected in 2 of 16 soil samples. Both samples were collected approximately 1.5 feet bgs from borings OS-19 and OS-22, which are located east of the lower lagoon (Figure 13). However, as shown in the following table, concentrations of SVOCs detected were at least two orders of magnitude below the industrial PRGs.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Benzo(b,k)fluoranthene	1	29	0.18	None
Benzo(g,h,i)perylene	1	--	0.18	--
Bis(2-ethylene)phthalate	1	1,800	1.7	None
Indeno(1,2,3-cd)pyrene	1	29	0.18	None

Notes:

-- Denotes no screening criterion has been established.

### *Organochlorine Pesticides/PCBs in Soil in the Open Space*

Pesticides were detected in 7 of 16 soil samples at concentrations below the PRGs. The borings where pesticides were detected (OS-12, OS-13, OS-15, OS-16, OS-20, OS-21, and OS-22) are located throughout the Open Space (Figure 14). PCBs were not detected above analytical reporting limits in Open Space soil samples. The following

table shows that the maximum organochlorine pesticide concentrations in soil samples are well below the industrial PRGs.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
4,4-DDD	5	170	0.061	None
4,4-DDE	3	120	0.013	None
4,4-DDT	7	120	0.14	None
alpha-BHC	1	5.9	0.0059	None
beta-BHC	1	21	0.012	None

#### *Proprietary Pesticides in Soil in the Open Space*

Proprietary pesticides were detected in 6 of 10 soil samples at concentrations below the screening criteria. The following table shows that the maximum organochlorine pesticide concentrations in soil samples are well below the industrial PRGs.

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Bensulide	4	--	3	--
Butylate	1	44,000	0.02	None
captan	1	700	0.33	None
Carbophenothion	8	--	0.09	--
Cycloate	1	--	0.01	--
EPTC	2	22,000	0.03	None
Fluorochloridone	4	--	0.05	--
Fonofos	2	1,800	0.013	None
Molinate	3	1,800	0.03	None
Napropamide	1	88,000	0.17	None
Pebulate	2	44,000	0.01	None
R25788	2	--	0.01	--
R29148	1	--	0.01	--

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Vernolate	1	880	0.01	None

Notes:

-- Denotes no screening criterion has been established.

#### 4.3.2.2 *Groundwater in the Open Space*

Metals, VOCs, organochlorine pesticides, and proprietary pesticides were detected in each of the 7 grab groundwater samples and 5 groundwater samples collected from groundwater monitoring wells in the Open Space. Arsenic, cadmium, cobalt, copper, nickel, zinc, chlorobenzene, carbon disulfide, and gamma-BHC were detected above the screening criteria in the Open Space groundwater samples. SVOCs and PCBs were not detected above analytical reporting limits. Proprietary pesticides (EPTC and Fonfos) were detected above screening criteria.

Table 2f presents the detection frequencies and concentration ranges for chemicals detected in Open Space groundwater samples and provides screening criteria as described in Section 2.3. Table 3f presents analytical results for the groundwater samples collected in the Open Space. Figures 15 through 27 present the pH values in groundwater and the distribution of chemicals detected in groundwater samples above the screening criteria.

#### *pH in Groundwater in the Open Space*

The pH values measured in groundwater samples collected from Upper Horizon groundwater are shown in Figure 15. The pH of the majority of the samples ranged between 6 SU and 7 SU. As shown in Figure 15, the lowest pH values were detected in the western portion of the Open Space area near the cinder landfill at well locations H-38, H-46, and H-61.

The pH value of groundwater samples collected from Lower Horizon groundwater monitoring wells in the Open Space ranged from 6.8 SU to 7.1 SU. A lower pH value was measured for Lower Horizon well H-60, located adjacent to the surge pond north of the Upper Lagoon (Figure 15).

#### *CAM-17 Metals in Groundwater in the Open Space*

Arsenic, cadmium, cobalt, copper, nickel, and zinc were detected at concentrations exceeding the screening criteria in Upper Horizon groundwater samples collected from the western and central portions of the Open Space (Figure 16).

Groundwater samples collected from Lower Horizon well H-60, located in the central portion of the Open Space, north of the upper lagoon, exceeded screening criteria for cadmium, cobalt, copper, nickel, and zinc. Samples collected from Lower Horizon well H-71, located in the western portion of the Open Space contained nickel above screening criteria. Nickel was the only metal that exceeded screening criteria in Lower Horizon groundwater.

The distribution of cadmium, copper, nickel, and zinc detected in Upper Horizon groundwater samples are illustrated in Figures 18 through 21. The following table presents the maximum concentration for each metal detected and shows which samples exceeded screening levels.

Metal	Number of Samples Containing Metal	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding Screening Criteria ( $\mu\text{g/l}$ )
<b>Arsenic</b>	<b>7</b>	<b>360</b>	<b>960</b>	<b>OS-09, OS-20</b>
Barium	10	+	57	+
Beryllium	1	6.6**	2.9	None
<b>Cadmium</b>	<b>3</b>	<b>93</b>	<b>280</b>	<b>OS-17, H-38, H-60</b>
Chromium	2	500	38	None
<b>Cobalt</b>	<b>4</b>	<b>230**</b>	<b>1,100</b>	<b>H-60</b>
<b>Copper</b>	<b>2</b>	<b>29</b>	<b>4,000</b>	<b>H-60, OS-17</b>
Lead	4	56	17	None
Mercury	1	0.25	0.21	None
Molybdenum	1	3,700**	80	None
<b>Nickel</b>	<b>4</b>	<b>71</b>	<b>2,800</b>	<b>H-60, H-71</b>
Selenium	3	710	58	None
Silver	2	23	7.9	None
Thallium	3	2,130	190	None
Vanadium	3	200**	21	None
<b>Zinc</b>	<b>8</b>	<b>580</b>	<b>23,000</b>	<b>H-60, OS-17</b>

Notes:

Screening criteria are ESPP action levels, except where noted.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints for surface water (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ The available screening criteria for barium is likely below ambient groundwater conditions at similar shoreline sites.

Bold indicates a concentration that exceeds the industrial PRG.



## VOCs in Groundwater in the Open Space

Although several VOCs were reported above analytical detection limits in the groundwater samples collected in the Open Space, only carbon disulfide and chlorobenzene were detected at concentrations exceeding the screening criteria.

As shown in Figure 22, carbon disulfide was detected at a concentration exceeding its screening value in the grab groundwater sample collected from Upper Horizon location OS-22. As shown in Figure 23, chlorobenzene was detected at concentrations exceeding its screening value in samples collected from Lower Horizon wells H-71 and H-78. Chlorobenzene was the only VOC detected above its screening level in Lower Horizon groundwater. Figure 24 illustrates the distribution of chlorobenzene in the Upper Horizon at the Site. The following table presents a summary of VOCs detected in Open Space groundwater samples.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding Screening Criteria ( $\mu\text{g/l}$ )
1,1,2,2-Tetrachloroethane	2	6,100	5.3	None
1,2-Dichlorobenzene	2	1,290*	1.1	None
1,2-Dichloroethane	8	9,100**	85	None
1,2-Dichloropropane	1	30,400*	0.6	None
1,4-Dichlorobenzene	1	1,290	1.7	None
Acetone	2	15,000**	15	None
Benzene	5	5,100	19	None
<b>Carbon Disulfide</b>	<b>7</b>	<b>9.2**</b>	<b>38</b>	<b>OS-22</b>
Carbon Tetrachloride	1	64,000	3.5	None
<b>Chlorobenzene</b>	<b>7</b>	<b>1,290</b>	<b>3,500</b>	<b>H-71 and H-78</b>
Chloroform	5	64,000	77	None
cis-1,2-Dichloroethene	3	5,900**	2.2	None
Naphthalene	1	2,350	1	None
Tetrachloroethene	4	4,500	540	None
Toluene	1	50,000	5.2	None
Trichloroethene	4	2,000	280	None
Vinyl Chloride	1	7,820**	5.5	None

## Notes:

Screening criteria are ESPP action levels, except where noted.

\* Screening criteria are 10 times the NAWQC.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints (U.S. DOE 1997); these criteria were used for compounds where an NAWQC has not been established.

+ Screening value for cis-1,2-DCE is for total 1,2-DCE concentration.

-- Denotes no screening criteria has been established.

Bold indicates a concentration that exceeds the screening criteria.

### *SVOCs in Groundwater in the Open Space*

SVOCs were not detected above analytical reporting limits for groundwater samples collected in the Open Space (Table 3f).

### *Organochlorine Pesticides/PCBs in Groundwater in the Open Space*

Organochlorine pesticides alpha-BHC, beta-BHC, delta-BHC, and gamma-BHC were detected in grab groundwater samples OS-09 and OS-17. The highest concentrations of these compounds were detected in grab groundwater sample OS-09. PCBs were not detected above the analytical reporting limit. The following table presents the maximum concentration for each compound detected.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding Screening Criteria ( $\mu\text{g/l}$ )
Alpha-BHC	2	*	19	*
Beta-BHC	1	*	0.14	*
Delta-BHC	2	*	20	*
<b>Gamma-BHC</b>	<b>1</b>	<b>1.6</b>	<b>12</b>	<b>OS-09</b>

## Notes:

(1) Screening criteria from RWQCB and Cal-EPA 1998.

\* Available screening criteria are well below the laboratory detection limit and are therefore not practical as benchmarks for comparison to groundwater results.

Bold indicates a concentration that exceeds the industrial PRG.

### *Proprietary Pesticides in Groundwater in the Open Space*

Although several proprietary pesticides were reported above analytical detection limits in the Open Space groundwater samples, only EPTC and Fonfos were detected at concentrations above the screening criteria (grab groundwater samples OS-17 and OS-10, respectively). Groundwater samples collected from Lower Horizon well H-60 contained EPTC, Vernolate, and Molinate at concentrations below the screening criteria (Figure 26). The following table presents the maximum concentration for each compound detected.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (1) ( $\mu\text{g/l}$ )	Maximum Concentration ( $\mu\text{g/l}$ )	Samples Exceeding Screening Criteria ( $\mu\text{g/l}$ )
Cycloate	1	470	2	None
<b>EPTC</b>	<b>5</b>	<b>430</b>	<b>3,800</b>	<b>OS-17</b>
<b>Fonofos</b>	<b>1</b>	<b>0.7</b>	<b>3</b>	<b>OS-10</b>
Molinate	4	350	17	None
Napropamide	5	470	3	None
Pebulate	2	230	27	None
Vernolate	2	30	5	None

Notes:

(1) Screening criteria are ambient water quality criteria established by PER (1999).

Bold indicates a concentration that exceeds the screening criteria.

#### 4.3.3 Occurrence and Distribution of Chemicals in the Freshwater Lagoons

In November 1999, LFR collected three sediment samples from three locations in the upper lagoon and four sediment samples from four locations in the lower lagoon.

The locations of these sediment samples are shown in Figure 3. As described in Section 2.3, the screening criteria used to evaluate the analytical results for sediment samples are the ERMs, if available. Other screening criteria are described in Section 2.3. These criteria are considered protective of ecological receptors.

Metals, VOCs, SVOCs, and pesticides were detected in sediment samples collected from the lagoon. Copper, lead, mercury, zinc, carbon disulfide, acetone, DDD, and DDE were detected at concentrations above the screening criteria. PCBs were not reported above analytical detection limits in the lagoon samples.

##### *pH of the Lagoon Sediment*

The pH values in sediment samples ranged from 7 SUs (sample OS-01-0.5) to 8.2 SUs (sample OS-07-0.5). Cinder material was not observed in sediment samples collected in the upper and lower lagoons.

##### *Metals in Lagoon Sediment*

All CAM-17 metals except beryllium were detected in sediment samples collected from the upper and lower lagoon.

Copper, lead, mercury, and zinc were detected above the screening criteria. The location of samples that contained metals above the screening criteria are illustrated in Figure 27. The following table summarizes metals detected above the screening criteria.

Metal	Number of Samples Containing Metal	Ecological Screening Criteria (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Screening Criteria
Antimony	1	--	3.8	--
Arsenic	7	70	17	None
Barium	7	--	60	--
Cadmium	7	9.6	5.2	None
Chromium	7	370	46	None
Cobalt	7	--	9	--
<b>Copper</b>	<b>7</b>	<b>270</b>	<b>1,300</b>	<b>OS-01-0.5, OS-02-0.5, OS-03-0.5</b>
<b>Lead</b>	<b>7</b>	<b>218</b>	<b>310</b>	<b>OS-02-0.5</b>
<b>Mercury</b>	<b>7</b>	<b>0.71**</b>	<b>3.2</b>	<b>OS-02-0.5, OS-03-0.5, OS-04-0.5, OS-05-0.5, OS-06-0.5, OS-07-0.5</b>
Molybdenum	3	--	11	--
Nickel	7	51.6	40	None
Selenium	7	--	4.5	--
Silver	1	3.7	1.9	None
Thallium	2	--	0.27	--
Vanadium	7	--	16	--
<b>Zinc</b>	<b>7</b>	<b>410</b>	<b>1,300</b>	<b>OS-01-0.5, OS-02-0.5, OS-03-0.5, OS-04-0.5, OS-05-0.5, OS-06-0.5, OS-07-0.5</b>

Notes:

Screening criteria are ERMs from Long et al. (1984) or Long and Morgan (1990).

\*\* Screening criteria are 10 times the PRGs for ecological endpoints (U.S. DOE 1997); these criteria were used for compounds where an ERM has not been established.

Bold indicates a concentration that exceeds the screening criteria.

-- Denotes no screening value has been established.

***VOCs in Lagoon Sediment***

VOCs were detected in five of the seven sediment samples. VOC concentrations in sediment samples are shown in the following table.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Screening Criteria
Carbon Disulfide	1	*	0.0029	*
2-Butanone	2	0.27**	0.019	None
Acetone	5	*	0.071	*

Note:

\* Available screening criteria are well below the laboratory detection limit and are therefore not practical as benchmarks for comparison with sediment data.

\*\* Screening criteria are 10 times the PRGs for ecological endpoints (U.S. DOE 1997); these criteria were used for compounds where an ERM has not been established.

***SVOCs in Lagoon Sediment***

SVOCs were detected in two of the seven sediment samples at concentrations below their screening criteria.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Screening Criteria
bis(2-ethylhexyl)phthalate	2	2.7**	0.92	None
Pyrene	1	2.6	0.34	None

Notes:

Screening criteria are ERMs from Long et al. (1984) or Long and Morgan (1990).

\*\* Screening criteria are 10 times the PRGs for ecological endpoints (U.S. DOE 1997); these criteria were used for compounds where an ERM has not been established.

***Organochlorine Pesticides in Lagoon Sediment***

Organochlorine pesticides were detected in the seven sediment samples collected from the freshwater lagoons. The pesticides 4,4-DDD and 4,4-DDE were detected at concentrations above the screening criteria in one sample, OS-2-0.5, located in the Upper Lagoon. The following table presents the maximum concentration for each compound detected.

Chemical Compound	Number of Samples Containing Compound	Ecological Screening Criteria (1) (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Screening Criteria
4,4-DDD	3	<b>0.42</b>	<b>0.87</b>	OS-2-0.5
4,4-DDE	7	<b>0.42</b>	<b>1.1</b>	OS-2-0.5

Note:

(1) Screening criteria from U.S. EPA 1994.

Bold indicates a concentration that exceeds the screening criteria.

### *Proprietary Pesticides in Lagoon Sediment*

Proprietary pesticides were detected at very low concentrations in the seven sediment samples collected from the lagoons. Ecological screening criteria for proprietary pesticides in sediments have not been developed. According to analysis by PER, the chemistry of these chemicals indicates that they are highly volatile and have a very short half-life in sediments (see Section 2.3).

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Bensulide	5	--	17.1	--
Butylate	7	44,000	1.18	None
Captan	1	700	0.42	None
Carbophenothion	6	--	0.1	--
Cycloate	5	--	0.26	--
EPTC	6	22,000	0.31	None
Fluorochloridone	5	--	0.19	--
Fonofos	7	1,800	0.16	None
Molinate	6	1,800	0.14	None
Napropamide	7	88,000	5.41	None
Pebulate	6	44,000	0.29	None
R25788	5	--	0.03	--
Vernolate	6	880	0.24	None

Note:

-- Denotes no PRG has been established.

#### 4.3.4 Occurrence and Distribution of Chemicals in Stege Marsh

In September 1998, PER collected 16 surface sediment samples (SM-1 through SM-10, SX-1 through SX-5, and CC-1) and 25 sediment/soil samples (from 0 to 6 feet bgs) at 10 locations (VC-1 through VC-10) in the Stege Marsh. The results of their investigation were presented in the report, entitled “Sediment Quality in Stege Marsh, Ecological Risk Assessment,” dated April 30, 1999 (PER 1999). Analytical results for sediment and soil samples collected as part of PER’s investigation of Stege Marsh are discussed briefly below.

The locations of the sediment/soil samples are shown in Figure 27. As described in Section 2.3, the primary screening criteria used for the analytical results of sediment samples are the ERMs. These criteria are considered protective of ecological receptors. Other screening criteria are described in Section 2.3

Metals, organochlorine pesticides, PCBs, and proprietary pesticides were detected in sediment samples collected from the Stege Marsh. Samples were not analyzed for VOCs or SVOCs. Arsenic, copper, lead, mercury, nickel, silver, zinc, gamma-BHC, gamma-chlordane, DDD, DDE, DDT, dieldrin, toxaphene, and PCBs were present above the screening criteria.

##### *Distribution of Metals in Stege Marsh*

Arsenic, copper, lead, mercury, nickel, silver, and zinc were detected in sediment samples above the screening criteria. The concentrations of these metals are one to three orders of magnitude greater than the screening criteria.

- Arsenic, cadmium, copper, lead, mercury, nickel and zinc were detected at concentrations above the screening criteria at locations across Stege Marsh. The highest concentrations of these metals were detected in samples collected in the western portion of Stege Marsh.
- Concentrations of arsenic, mercury, selenium, and zinc detected in Stege Marsh are higher than concentrations of these metals detected in soil samples collected at other areas of the Site. Although the ERMs and PRGs for ecological endpoints do not include criteria for selenium, concentrations of selenium throughout the marsh exceed the 1.4 mg/kg ERM criteria for non-cover sediments.

The following table summarizes the maximum concentrations and sample locations where metals were detected above the screening levels.

Metal	Number of Samples Containing Metal	Ecological Screening Criteria (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Screening Criteria (Sample ID and depth in feet bgs)
Antimony	35	--	41.4	--

Metal	Number of Samples Containing Metal	Ecological Screening Criteria (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Screening Criteria (Sample ID and depth in feet bgs)
Arsenic	41	70	771	27 samples; maximum at VC-1 (0-2)
Cadmium	41	9.6	29	VC-4 (0-2), VC-4 (2-4), VC-5 (1.5-3.5), maximum at VC-10 (0-2)
Chromium	41	370	138	None
Copper	41	270	5,390	23 samples; maximum at VC-10 (0-2)
Lead	40	218	818	11 samples; maximum at VC-4 (2-4)
Mercury	37	0.71**	72.9	34 samples; maximum at VC-10 (0-2)
Nickel	41	51.6	115	22 samples; maximum at CC-1
Selenium	34	--	352	--
Silver	36	3.7	26.5	VC-4 (2-4), VC-5 (0-1.5), VC-5 (1.5-3.5), VC-10 (0-2), VC-10 (2-4)
Thallium	35	--	1.74	--
Zinc	41	410	6210	35 samples; maximum at VC-4 (2-4)

## Notes:

Screening criteria are ERMs from Long et al. (1984) or Long and Morgan (1990).

\*\* Screening criteria are 10 times the PRGs for ecological endpoints (U.S. DOE 1997); these criteria were used for compounds where an ERM has not been established.

-- Denotes no screening criteria established (ERM or PRG).

Bold indicates that the maximum concentration detected exceeds the screening criteria.

### *Organochlorine Pesticides and PCBs in Stege Marsh*

Organochlorine pesticides were detected in the 41 sediment samples from 21 locations. The pesticides, alpha- and gamma-chlordane, 4,4-DDD, 4,4-DDT, dieldrin, and endosulfan I and II were detected at concentrations exceeded the screening criteria (ERMs) from locations across Stege Marsh. PCBs were detected at concentrations exceeding the screening criteria. The following table presents the maximum concentration for each compound detected.



Chemical Compound	Number of Samples Containing Compound	Screening Criteria (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Screening Criteria
Aldrin	6	0.08**	0.0024	None
Alpha-BHC	25	120**	0.140	None
Beta-BHC	14	120**	0.037	None
Delta-BHC	19	120**	0.018	None
Gamma-BHC	11	+	0.029	+
<b>Alpha-chlordane</b>	<b>36</b>	<b>0.0048</b>	<b>0.061</b>	<b>18 samples; maximum at SM-3</b>
<b>Gamma-chlordane</b>	<b>33</b>	<b>0.0048</b>	<b>0.74</b>	<b>21 samples; maximum at SM-6</b>
<b>4,4-DDD</b>	<b>34</b>	<b>0.42***</b>	<b>1.8</b>	<b>VC-10 (2-4), SM-3, VC-4 (0-2), VC-5 (1.5 3.5) VC-4 (2-4)</b>
4,4-DDE	36	0.42***	0.225	None
<b>4,4-DDT</b>	<b>34</b>	<b>0.42***</b>	<b>0.450</b>	<b>VC-4 (0-2)</b>
<b>Dieldrin</b>	<b>32</b>	<b>0.008</b>	<b>0.028</b>	<b>15 samples; maximum at CC-1</b>
<b>Endosulfan I</b>	<b>12</b>	<b>0.0055</b>	<b>0.0097</b>	<b>SM-9</b>
<b>Endosulfan II</b>	<b>18</b>	<b>0.0055</b>	<b>0.0072</b>	<b>SM-9</b>
Endosulfan sulfate	13	--	0.0072	--
Endrin	9	0.045	0.00418	None
Endrin Aldehyde	2	--	0.00047	--
Endrin/Ketone	11	--	0.0011	--
Heptachlor Epoxide	11	--	0.0014	--
Mirex	7	1.3	0.0026	None
<b>Total PCBs</b>	<b>36</b>	<b>0.18</b>	<b>0.818</b>	<b>17 samples; maximum at CC-1</b>
Toxaphene	19	--	68	--

## Notes:

Screening criteria are ERMs from Long et al. (1984) or Long and Morgan (1990).

\*\* Screening criteria are 10 times the PRGs for ecological endpoints (U.S. DOE 1997); these criteria were used for compounds where an ERM has not been established.

\*\*\* Screening criteria from U.S. EPA 1994.

+ Available screening criteria is well below the laboratory detection limit and therefore not practical as a benchmark for comparison with sediment data.

-- Denotes no screening value has been established.

### *Proprietary Pesticides in Stege Marsh*

Proprietary pesticides were present in 27 sediment samples collected from Stege Marsh at concentrations close to analytical detection limits. Ecological screening criteria have not been developed for proprietary pesticides (see Section 2.3).

Chemical Compound	Number of Samples Containing Compound	Modified Industrial PRG (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding Industrial PRG
Bensulide	24	--	4.485	--
Butylate	3	44,000	0.427	None
Captan	2	700	0.887	None
Carbophenothion	12	--	0.493	--
Cycloate	4	--	0.332	--
EPTC	27	22,000	1.287	None
Fluorochloridone	9	--	0.122	--
Fonofos	8	1,800	0.733	None
Metam Sodium	1	--	0.525	--
Molinate	21	1,800	2.327	None
Napropamide	18	88,000	0.455	None
Pebulate	22	44,000	6.831	None
R-25788	9	--	0.674	--
Vernolate	6	880	0.248	None

Note:

For compounds that do not have an established ERM, results were screened using the Industrial PRGs.

-- Denotes no screening value has been established.

### 4.3.5 Summary of Open Space, Freshwater Lagoons, and Stege Marsh

#### *Open Space*

##### *Soil*

- Soil pH was less than 4 SU at 8 of 17 samples and ranged from 3.6 to 8.1 SU
- Arsenic was detected in soil at concentrations above the industrial PRG. Four of these samples were collected from the central and western portion of the Open Space. The other three samples were collected from the easternmost portion of the Site (Figure 11).

##### *Groundwater*

- pH ranged between 6 and 7 SU in Upper Horizon groundwater.
- Low pH values were measured in Upper Horizon groundwater beneath the western portion of the Open Space, west of the upper lagoon (Figure 15). The lowest pH values were measured in groundwater samples collected downgradient from Area 4 in the Plant Area (Figure 15). A pH value of 5.04 SU was measured in Lower Horizon well H-60.
- Arsenic, cadmium, cobalt, nickel, copper, and zinc were detected at concentrations exceeding the screening criteria in the Upper Horizon groundwater in the western and central portions of the Open Space.
- Cadmium, cobalt, nickel, copper, and zinc were detected at concentrations exceeding the screening criteria in Lower Horizon groundwater samples collected from well H-60.
- Carbon disulfide was detected above the screening level of 9.2  $\mu\text{g}/\text{l}$  in grab groundwater sample OS-22, located east of the lower lagoon.
- Chlorobenzene was detected at concentrations exceeding the screening criteria in samples from Lower Horizon wells located in the western and southwestern portions of the Open Space (see Figure 23).
- EPTC and Fonfos were detected in one grab groundwater sample collected from the Upper Horizon at concentrations exceeding the screening criteria.

#### *Freshwater Lagoons*

- Copper, lead, mercury, and zinc were detected above the screening criteria in the sediment samples collected from the freshwater lagoons (Figure 27).
- Carbon disulfide (one sample) and acetone were detected above the screening criteria in the sediment samples collected from the freshwater lagoons (Section 4.3.3).

- The pesticides 4,4-DDD and 4,4-DDE were detected at concentrations above the screening criteria in one sample, OS-2-0.5, located in the Upper Lagoon.

### ***Stege Marsh***

Sediment/soil samples were collected from Stege Marsh by PER in 1998. The following summarizes results for those samples relative to the ecological screening criteria for the marsh. Results indicate that proprietary pesticides are present in marsh sediment, but are at concentrations below the industrial PRG. As discussed in Section 2.3, ecological screening criteria have not been developed for proprietary pesticides.

- Arsenic, copper, lead, mercury, nickel, silver, and zinc are present in marsh sediment at concentrations that exceed the screening criteria (Section 4.3.4). Results for selected metals above the screening criteria are shown on Figure 27.
- Alpha- and gamma-chlordane, 4,4-DDD, 4,4-DDT, dieldrin, and endosulfan were detected at concentrations that exceed the screening criteria for sediment/soil.
- Concentrations of total PCBs exceeded the screening criteria.

## **5.0 OVERALL ENVIRONMENTAL CONDITIONS**

### **5.1 Soil**

Areas of the Site that have low pH in soil are depicted on Figure 15. In the southwest portion of the Site, areas of low pH soil generally coincide with areas where cinders have been encountered.

Metals concentrations in soil in the WRC and Plant Area are generally below the industrial PRGs. As shown on Figure 11, arsenic was detected above the industrial PRG at several locations scattered throughout the WRC, Plant Area, and Open Space. Copper was detected above the PRG in Area 3 of the Plant Area. Lead was detected above the industrial PRG in Areas 4 and 5.

VOCs, SVOCs, organochlorine pesticides, PCBs, and proprietary pesticides were generally not detected in soil samples collected from the Site. Toluene was detected in one sample, benzo(a)pyrene was detected in two samples, organochlorine pesticides were detected in three samples, and Aroclor 1242 was detected in one sample at concentrations above the industrial PRGs for soil.

Sediment in the freshwater lagoons and in Stege Marsh contain concentrations of metals and pesticides that exceed the screening criteria. Concentrations of total PCBs in Stege Marsh sediment/soil samples were also above the screening criteria.

## 5.2 Groundwater

Groundwater pH values in the Upper Horizon are low beneath the central portion of the Plant Area and extending south toward Stege Marsh (Figure 15).

Several metals are present in the Upper Horizon groundwater at concentrations that exceed the screening criteria. The area where concentrations of copper and zinc in groundwater exceed the screening criteria extends beneath the Plant Area south toward just north of the Upper Lagoon. Copper, nickel, zinc, and/or cadmium have also been detected in Lower Horizon groundwater samples collected from the same area.

Chlorobenzene, 1,2-DCB, and carbon disulfide are present in Upper Horizon groundwater at concentrations above the ecological screening criteria. These concentrations were generally detected in groundwater beneath the Plant Area and do not appear to pose a threat to Stege Marsh. However, VOCs in groundwater beneath the WRC, Plant Area, and portions of the Open Space will be further evaluated in the CRRMP to assess the potential for these compounds to pose a potential human health risk.

Proprietary pesticides are present in Upper Horizon groundwater beneath the WRC, Plant Area, and Open Space (Figure 26). No proprietary pesticides were detected in the Lower Horizon groundwater samples.

## REFERENCES

- ERM and Erler & Kalinowski. 1998. Remediation and Risk Management Plan, East Shore Park Properties, Berkeley/Albany/Richmond, California. May 18.
- LFR. 1999a. Amended Proposal for Preliminary Site Characterization and Conceptual Remediation and Risk Management Plan. August 16.
- . 1999b. Work Order to Conduct Phase I and Phase II Investigations of the 86-Acre Zeneca Ag Products Facility in Richmond, California. October 18.
- . 2000. Phase I Environmental Site Assessment, Zeneca Ag Products Facility, Richmond California. April 7.
- Long et al. 1984.
- . 1995. Incidence of Adverse Biological Effects Within Ranges of Chemical Concentrations in Marine and Estuarine Sediments.
- Long and Morgan. 1990. The Potential for Biological Effects of Sediment-Sorbed Contaminants in the National Status and Trends Program, National Oceanic and Atmospheric Administration Technical Memorandum NOS OMA 52.
- The Mark Group. 1991a. Solid Waste Assessment Test (SWAT) for the Cinder Fill Area.
- . 1991b. Revised Hydrogeologic Assessment Report.
- . 1991c. Closure Plan for the Agricultural Yard Pond.
- . 1991d. Report of Removal of Underground Storage Tanks.
- Montgomery Watson. 1994. Plan for Waste Containment for the Zeneca Agriculture Products Facility. December 1.
- PER. 1999. Sediment Quality in Stege Marsh, Ecological Risk Assessment. April 30.
- RWQCB and Cal-EPA. 1992. John D. Wolfenden and Michael P. Carlin. Interim Sediment Screening Criteria and Testing Requirements for Wetland Creation and Upland Beneficial Reuse. John D. Wolfenden and Michael P. Carlin. December.
- . 1998. A Compilation of Water Quality Goals. March.

- Shephard Miller. 1999. Evaluation of Sources of Metals and Acidity, Stege Marsh, Richmond, California. February.
- State Water Quality Control Board. 1988. State Water Quality Control Board Resolution 88-63. Adoption of policy entitled, "Sources of Drinking Water."
- URS Consultants. 1994. CERCLA Site Inspection, Stauffer Chemical Company, also known as ICI Americas, 1415 47<sup>th</sup> Street, Richmond, California. July 14. Prepared under contract with the EPA.
- U.S. DOE. 1997. Preliminary Remediation Goals for Ecological Endpoints. R.A. Lifroymsar et al. Oak Ridge National Laboratory. August.
- U.S. Environmental Protection Agency (U.S. EPA). 1991. Role of Baseline Risk Assessment in Superfund Remedy Selection Process, OSWER Directive 9355.0-30, Office of Emergency and Remedial Response, Washington, D.C. April.
- . 1994. Ecological Risk Assessment of Marine Sediments at the United Heckathorn Superfund Site. May 20.
- . 1998. Quality Criteria for Water 1998, U.S. EPA, 440/5-86-00; update #2 to Quality Criteria for Water 1998, May 1, 1997.
- . 1999. Region IX Preliminary Remedial Goals. Stanford Smucker, Ph.D. May 1.
- Woodward-Clyde Consultants (WCC). 1993. Supplemental Site Investigation at Zeneca's Agricultural Chemical Facility, Richmond, California. June 23.

Table 1  
Groundwater Elevation Data  
Zeneca/Stauffer Richmond Facility, Richmond, California

Well Name	Sample Date	Top of Casing Elevation (ft msl)	Depth to Water (feet below top of casing)	Groundwater Elevation (ft msl)
<b>Upper Horizon</b>				
H-02	11/8/99	15.68	9.73	5.95
H-06	11/8/99	17.58	10.64	6.94
H-09	11/8/99	14.45	9.51	4.94
H-15	11/8/99	12.79	10.21	2.58
H-16	11/8/99	15.15	12.12	3.03
H-24	11/8/99	17.50	11.89	5.61
H-28	11/8/99	13.28	7.90	5.38
H-29	11/8/99	12.59	10.09	2.50
H-30	11/8/99	10.87	6.37	4.50
H-31	11/8/99	11.54	9.28	2.26
H-32	11/8/99	12.90	9.32	3.58
H-34	11/8/99	18.29	11.24	7.05
H-35	11/8/99	16.13	11.48	4.65
H-36	11/8/99	13.87	9.79	4.08
H-37	11/8/99	13.37	10.90	2.47
H-38	11/8/99	20.48	15.99	4.49
H-40	11/8/99	14.14	11.73	2.41
H-41	11/8/99	14.27	11.51	2.76
H-43	11/8/99	16.32	10.76	5.56
H-44	11/8/99	16.65	12.82	3.83
H-46	11/8/99	18.11	13.11	5.00
H-47	11/8/99	18.13	14.87	3.26
H-60	11/8/99	17.56	14.15	3.41
H-61	11/8/99	17.10	18.11	-1.01
H-62	11/8/99	18.06	13.70	4.36
H-63	11/8/99	17.01	7.45	9.56
H-64	11/8/99	15.39	10.52	4.87
H-65	11/8/99	18.71	13.72	4.99
H-66	11/8/99	12.05	9.87	2.18
H-67	11/8/99	15.69	7.10	8.59
H-68	11/8/99	23.23	15.98	7.25
<b>Lower Horizon</b>				
H-39	11/8/99	20.30	16.67	3.63
H-39	11/16/99	20.30	16.69	3.61
H-42	11/8/99	15.03	12.08	2.95
H-42	11/16/99	15.03	11.99	3.04
H-45	11/8/99	16.55	13.37	3.18
H-45	11/16/99	16.55	13.30	3.25
H-48	11/8/99	18.23	15.04	3.19
H-48	11/16/99	18.23	14.98	3.25
H-59	11/8/99	20.36	16.94	3.42
H-59	11/16/99	20.36	16.94	3.42
H-70	11/16/99	12.115	7.70	4.42
H-71	11/8/99	19.835	13.45	6.39
H-71	11/16/99	19.835	16.91	2.93



Table 1  
Groundwater Elevation Data  
Zeneca/Stauffer Richmond Facility, Richmond, California

Well Name	Sample Date	Top of Casing Elevation (ft msl)	Depth to Water (feet below top of casing)	Groundwater Elevation (ft msl)
H-72	11/8/99	15.889	12.51	3.38
H-72	11/16/99	15.889	11.45	4.44
H-73	11/16/99	12.274	9.47	2.80
H-74	11/8/99	13.307	8.92	4.39
H-74	11/16/99	13.307	8.28	5.03
H-75	11/16/99	14.287	9.47	4.82
H-76	11/8/99	11.51	7.41	4.10
H-76	11/16/99	11.51	7.10	4.41
H-77	11/16/99	10.25	7.20	3.05
H-78	11/8/99	12.96	10.32	2.64
H-78	11/16/99	12.96	10.30	2.66

Notes:

ft msl = feet above mean sea level

**Table 2a**  
**Frequency and Concentration Ranges for WRC Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b>Western Research Center</b>										
<b><u>Metals</u></b>										
Antimony	Surface	2	26	8%	5.2	18	820	2.1	3	mg/kg
Arsenic	Surface	26	26	100%	1.1	290	27	0.18	0.25	mg/kg
	Subsurface	27	27	100%	1.5	48	27	0.24	0.25	mg/kg
Barium	Surface	26	26	100%	20	360	100000	0.36	9.7	mg/kg
	Subsurface	27	27	100%	38	360	100000	0.47	10	mg/kg
Beryllium	Surface	24	26	92%	0.13	0.81	22000	0.071	0.1	mg/kg
	Subsurface	25	27	93%	0.12	0.63	22000	0.095	0.1	mg/kg
Cadmium	Surface	13	26	50%	0.25	17	810	0.18	0.25	mg/kg
	Subsurface	13	27	48%	0.24	2.6	810	0.24	0.25	mg/kg
Chromium	Surface	26	26	100%	0.53	160	450	0.36	0.5	mg/kg
	Subsurface	27	27	100%	10	54	450	0.47	0.5	mg/kg
Cobalt	Surface	26	26	100%	0.99	22	100000	0.71	1	mg/kg
	Subsurface	27	27	100%	1.2	21	100000	0.95	1	mg/kg
Copper	Surface	26	26	100%	6.7	7000	5300	0.36	4.7	mg/kg
	Subsurface	27	27	100%	8.6	340	5300	0.47	0.5	mg/kg
Lead	Surface	26	26	100%	5	390	1000	0.11	0.15	mg/kg
	Subsurface	27	27	100%	3.2	140	1000	0.14	0.15	mg/kg
Mercury	Surface	26	26	100%	0.047	38	610	0.037	1.1	mg/kg
	Subsurface	19	27	70%	0.041	2.9	610	0.037	0.08	mg/kg
Molybdenum	Surface	7	26	27%	1	5	10000	0.71	1	mg/kg
	Subsurface	1	27	4%	1	1	10000	0.95	1	mg/kg

**Table 2a**  
**Frequency and Concentration Ranges for WRC Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Nickel	Surface	26	26	100%	2.2	160	41000	0.71	1	mg/kg
	Subsurface	27	27	100%	5.9	130	41000	0.95	1	mg/kg
Selenium	Surface	3	26	12%	0.37	20	10000	0.18	0.25	mg/kg
Silver	Surface	4	26	15%	0.38	11	10000	0.36	0.5	mg/kg
	Subsurface	1	27	4%	2.7	2.7	10000	0.47	0.5	mg/kg
Thallium	Surface	8	26	31%	0.32	2.2	140	0.18	0.25	mg/kg
	Subsurface	4	27	15%	0.31	0.44	140	0.24	0.25	mg/kg
Vanadium	Surface	26	26	100%	4.7	58	14000	0.36	0.5	mg/kg
	Subsurface	27	27	100%	15	44	14000	0.47	0.5	mg/kg
Zinc	Surface	26	26	100%	21	3000	100000	0.71	20	mg/kg
	Subsurface	26	26	100%	14	350	100000	0.95	20	mg/kg
<b>pH</b>										
pH	Surface	26	26	100%	2.9	10	NA	1	1	SU
	Subsurface	27	27	100%	3.6	8.8	NA	1	1	SU
<b>VOCs</b>										
2-Butanone	Surface	2	13	15%	0.011	0.012	2800	0.0094	0.05	mg/kg
Acetone	Surface	2	13	15%	0.028	0.048	NA	0.019	0.05	mg/kg
	Subsurface	2	13	15%	0.025	0.075	NA	0.019	0.05	mg/kg
Benzene	Surface	1	26	4%	0.06	0.06	15	0.0046	0.5	mg/kg
	Subsurface	1	27	4%	1.7	1.7	15	0.0046	83	mg/kg
cis-1,2-Dichloroethene	Subsurface	1	22	5%	0.0071	0.0071	150	0.0046	83	mg/kg
Ethylbenzene	Surface	1	26	4%	1.1	1.1	230	0.0046	0.5	mg/kg
m,p-Xylenes	Surface	2	21	10%	0.18	6.3	210	0.0046	0.5	mg/kg

**Table 2a**  
**Frequency and Concentration Ranges for WRC Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
o-Xylene	Surface	1	26	4%	7	7	210	0.0046	0.5	mg/kg
Tetrachloroethene	Surface	2	26	8%	0.0074	0.3	190	0.0046	0.5	mg/kg
	Subsurface	2	27	7%	0.003	0.014	190	0.0046	83	mg/kg
Toluene	Surface	1	26	4%	270	270	520	0.0046	20	mg/kg
	Subsurface	1	27	4%	1800	1800	520	0.0046	83	mg/kg
Trichloroethene	Surface	2	26	8%	0.008	0.012	61	0.0046	0.5	mg/kg
	Subsurface	3	27	11%	0.0051	0.011	61	0.0046	83	mg/kg
<b><u>Semivolatiles</u></b>										
2,4-Dimethylphenol	Surface	1	25	4%	0.73	0.73	18000	0.33	27	mg/kg
2-Methylnaphthalene	Surface	2	25	8%	1.9	81	NA	0.33	27	mg/kg
2-Methylphenol	Surface	1	25	4%	0.53	0.53	44000	0.33	27	mg/kg
3-,4-Methylphenol	Surface	1	25	4%	1.7	1.7	4400	0.33	27	mg/kg
Benzo(g,h,i)perylene	Surface	1	25	4%	0.17	0.17	NA	0.33	27	mg/kg
bis(2-Ethylhexyl)phthalate	Surface	1	25	4%	0.57	0.57	1800	0.33	27	mg/kg
Diesel C10-C24	Subsurface	1	1	100%	360	360	NA	1	1	mg/kg
Fluoranthene	Surface	1	25	4%	0.37	0.37	3000	0.33	27	mg/kg
Indeno(1,2,3-cd)pyrene	Surface	1	25	4%	0.18	0.18	29	0.33	27	mg/kg
Phenanthrene	Surface	2	25	8%	0.39	2.1	NA	0.33	27	mg/kg
Phenol	Surface	6	25	24%	0.22	0.93	100000	0.33	27	mg/kg
Pyrene	Surface	1	25	4%	0.35	0.35	5400	0.33	27	mg/kg
<b><u>Pesticides/PCBs</u></b>										
4,4'-DDD	Surface	11	25	44%	0.0071	2800	170	0.005	500	mg/kg

**Table 2a**  
**Frequency and Concentration Ranges for WRC Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
4,4'-DDD	Subsurface	2	3	67%	19	1600	170	0.005	500	mg/kg
4,4'-DDE	Surface	7	25	28%	0.006	0.19	120	0.005	500	mg/kg
4,4'-DDT	Surface	10	25	40%	0.014	2100	120	0.005	500	mg/kg
Alpha-BHC	Surface	1	25	4%	0.013	0.013	5.9	0.005	500	mg/kg
Beta-BHC	Surface	3	25	12%	0.0094	0.021	21	0.005	500	mg/kg
Dieldrin	Surface	1	25	4%	0.12	0.12	1.5	0.005	500	mg/kg
Heptachlor Epoxide	Surface	1	25	4%	0.028	0.028	5.5	0.005	500	mg/kg
<b><u>Proprietary Pesticides</u></b>										
bensulide	Surface	1	26	4%	5.8	5.8	NA	0.01	1	mg/kg
	Subsurface	1	37	3%	0.11	0.11	NA	0.01	1	mg/kg
Butylate	Surface	1	26	4%	0.35	0.35	44000	0.01	0.1	mg/kg
	Subsurface	3	37	8%	0.02	0.61	44000	0.01	0.1	mg/kg
captan	Surface	5	26	19%	0.055	5.3	700	0.05	2.5	mg/kg
	Subsurface	5	38	13%	0.05	42	700	0.05	1	mg/kg
Carbophenothion	Surface	9	26	35%	0.01	0.89	NA	0.01	0.1	mg/kg
	Subsurface	11	37	30%	0.01	0.02	NA	0.01	0.1	mg/kg
Cycloate	Surface	2	26	8%	0.03	0.4	NA	0.01	0.1	mg/kg
	Subsurface	2	37	5%	0.06	0.15	NA	0.01	0.1	mg/kg
EPTC	Surface	4	26	15%	0.13	2	22000	0.01	0.1	mg/kg
	Subsurface	8	37	22%	0.01	2.11	22000	0.01	0.1	mg/kg
Flurochloridone	Surface	5	26	19%	0.02	3.8	NA	0.01	0.1	mg/kg
	Subsurface	4	37	11%	0.02	2	NA	0.01	0.1	mg/kg
Fonofos	Surface	3	26	12%	0.01	0.11	1800	0.01	0.1	mg/kg

**Table 2a**  
**Frequency and Concentration Ranges for WRC Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Metam sodium	Surface	4	24	17%	0.17	11	NA	0.09	0.09	mg/kg
	Subsurface	3	28	11%	0.07	0.63	NA	0.09	0.13	mg/kg
Molinate	Surface	3	26	12%	0.02	0.33	1800	0.01	0.1	mg/kg
	Subsurface	4	37	11%	0.06	0.76	1800	0.01	0.1	mg/kg
Napropamide	Surface	6	26	23%	0.01	1.37	88000	0.01	0.1	mg/kg
	Subsurface	5	37	14%	0.01	220	88000	0.01	0.1	mg/kg
Pebulate	Surface	2	26	8%	0.28	2.83	44000	0.01	0.1	mg/kg
	Subsurface	4	37	11%	0.01	1.1	44000	0.01	0.1	mg/kg
R25788	Surface	2	26	8%	0.01	0.04	NA	0.01	0.1	mg/kg
	Subsurface	3	37	8%	0.01	0.08	NA	0.01	0.1	mg/kg
R29148	Surface	1	26	4%	0.09	0.09	NA	0.01	0.1	mg/kg
	Subsurface	1	37	3%	0.17	0.17	NA	0.01	0.1	mg/kg
Vernolate	Surface	1	26	4%	0.37	0.37	880	0.01	0.1	mg/kg
	Subsurface	2	37	5%	0.06	0.14	880	0.01	0.1	mg/kg
<b><u>Field Measurements and Physical Properties</u></b>										
Total Organic Carbon	Surface	1	1	100%	0.05	0.05	NA	0.01	0.01	%
	Subsurface	5	5	100%	0.04	0.52	NA	0.01	0.05	%

**Table 2a**  
**Frequency and Concentration Ranges for WRC Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	

**Notes**

NA = Not available.

Surface = 0 to 2 feet bgs; subsurface - below 2 feet bgs. Only detected analytes shown.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 2b**  
**Frequency and Concentration Ranges for WRC Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b><u>Western Research Center</u></b>									
<b><u>Metals</u></b>									
Arsenic	4	22	18%	5.3	120	360	5	5	ug/l
Barium	22	22	100%	16	610	40	10	10	ug/l
Beryllium	1	22	5%	4.4	4.4	6.6	2	2	ug/l
Cadmium	2	22	9%	11	38	93	5	5	ug/l
Chromium	2	22	9%	24	60	500	10	10	ug/l
Cobalt	4	22	18%	28	250	230	20	20	ug/l
Copper	1	22	5%	530	530	29	10	10	ug/l
Mercury	1	22	5%	0.6	0.6	0.25	0.2	0.2	ug/l
Molybdenum	4	22	18%	21	64	3700	20	20	ug/l
Nickel	9	22	41%	23	720	71	20	20	ug/l
Selenium	12	22	55%	5	16	710	5	5	ug/l
Vanadium	2	22	9%	70	190	200	10	10	ug/l
Zinc	7	22	32%	21	3300	580	20	20	ug/l
<b><u>pH</u></b>									
pH	24	24	100%	2.59	7.81	NA	1	1	SU
<b><u>VOCs</u></b>									
1,1-Dichloroethane	1	22	5%	0.6	0.6	470	0.5	1300	ug/l
1,1-Dichloroethene	4	22	18%	1.7	7.3	250	0.5	1300	ug/l
1,2,3-Trichlorobenzene	2	9	22%	1	2.9	NA	0.5	3.6	ug/l



**Table 2b**  
**Frequency and Concentration Ranges for WRC Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
1,2,4-Trichlorobenzene	1	9	11%	1.9	1.9	1290	0.5	3.6	ug/l
1,2,4-Trimethylbenzene	2	9	22%	1.4	1.7	NA	0.5	3.6	ug/l
1,2-Dichlorobenzene	7	22	32%	0.5	120	1290	0.5	1300	ug/l
1,2-Dichloroethane	7	22	32%	0.8	200	9100	0.5	1300	ug/l
1,2-Dichloropropane	1	22	5%	1.8	1.8	30400	0.5	1300	ug/l
1,4-Dichlorobenzene	4	22	18%	0.6	6.1	1290	0.5	1300	ug/l
Acetone	1	9	11%	14	14	15000	10	71	ug/l
Benzene	4	22	18%	0.6	1100	5100	0.5	1300	ug/l
c-1,2-Dichloroethene	1	3	33%	5	5	5900	1	1	ug/l
Carbon Disulfide	4	22	18%	0.7	5.2	9.2	0.5	1300	ug/l
Chlorobenzene	8	22	36%	1.1	900	1290	0.5	1300	ug/l
Chloroform	3	22	14%	0.5	18	64000	0.5	1300	ug/l
cis-1,2-Dichloroethene	8	19	42%	0.7	880	5900	0.5	1300	ug/l
Ethylbenzene	2	22	9%	5.6	8.8	430	0.5	1300	ug/l
Freon 113	1	19	5%	6.7	6.7	NA	5	13000	ug/l
m,p-Xylenes	2	19	11%	21	56	130	0.5	1300	ug/l
MTBE	3	22	14%	1	8.2	NA	0.5	1300	ug/l
o-Xylene	3	22	14%	1.1	28	130	0.5	1300	ug/l
Tetrachloroethene	9	22	41%	0.7	170	4500	0.5	1300	ug/l
Toluene	5	22	23%	1.7	300000	50000	0.5	1300	ug/l
trans-1,2-Dichloroethene	2	19	11%	1.8	2.4	5900	0.5	1300	ug/l

**Table 2b**  
**Frequency and Concentration Ranges for WRC Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Trichloroethene	15	22	68%	2.2	4900	2000	0.5	20	ug/l
Vinyl Chloride	5	22	23%	1.7	25	7820	0.5	1300	ug/l
<b><u>Semivolatiles</u></b>									
2,4-Dimethylphenol	2	20	10%	710	1300	NA	9.4	1000	ug/l
2-Methylphenol	1	20	5%	1800	1800	NA	9.4	1000	ug/l
3-,4-Methylphenol	1	20	5%	6600	6600	NA	9.4	1000	ug/l
p/m-Xylene	1	3	33%	2.8	2.8	130	1	1	ug/l
Phenol	1	20	5%	2400	2400	1100	9.4	1000	ug/l
<b><u>Pesticides/PCBs</u></b>									
4,4'-DDD	3	13	23%	0.2	63	1.3	0.1	10	ug/l
4,4'-DDE	1	13	8%	0.11	0.11	1.3	0.1	10	ug/l
4,4'-DDT	1	13	8%	0.29	0.29	1.3	0.1	10	ug/l
<b><u>Proprietary Pesticides</u></b>									
Butylate	2	14	14%	2	6	550	1	1	ug/l
carbophenothion	1	1	100%	1	1	6	1	1	ug/l
Cycloate	2	14	14%	1	1	470	1	1	ug/l
EPTC	1	1	100%	2	2	430	1	1	ug/l
EPTC	4	14	29%	2	3860	430	1	1	ug/l
Fonofos	1	14	7%	3	3	0.7	1	1	ug/l
Molinate	4	14	29%	10	120	350	1	1	ug/l
Napropamide	1	1	100%	1	1	470	1	1	ug/l
Napropamide	8	14	57%	1	640	470	1	1	ug/l

**Table 2b**  
**Frequency and Concentration Ranges for WRC Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Pebulate	4	14	29%	1	228	230	1	1	ug/l
R25788	4	14	29%	2	207	6580	1	1	ug/l
R29148	1	14	7%	6	6	1030	1	1	ug/l
Vernolate	2	14	14%	5	15	30	1	1	ug/l
<b><u>Field Measurements and Physical Properties</u></b>									
Total Dissolved Solids	2	2	100%	500000	3910000	NA	10000	20000	ug/l

**Notes**

NA = Not available.

Only detected analytes shown.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b>A01</b>										
<b><u>Metals</u></b>										
Arsenic	Surface	4	4	100%	2.8	9.1	27	0.24	0.25	mg/kg
	Subsurface	8	8	100%	2.1	3.8	27	0.24	0.25	mg/kg
Barium	Surface	4	4	100%	84	150	100000	0.48	0.5	mg/kg
	Subsurface	8	8	100%	59	130	100000	0.47	0.5	mg/kg
Beryllium	Surface	4	4	100%	0.12	0.47	22000	0.095	0.1	mg/kg
	Subsurface	8	8	100%	0.31	0.43	22000	0.095	0.1	mg/kg
Cadmium	Surface	4	4	100%	0.29	1.7	810	0.24	0.25	mg/kg
	Subsurface	8	8	100%	0.26	1.3	810	0.24	0.25	mg/kg
Chromium	Surface	4	4	100%	17	34	450	0.48	0.5	mg/kg
	Subsurface	8	8	100%	25	37	450	0.47	0.5	mg/kg
Cobalt	Surface	4	4	100%	2.8	9.3	100000	0.95	1	mg/kg
	Subsurface	8	8	100%	5.2	12	100000	0.95	1	mg/kg
Copper	Surface	4	4	100%	14	270	5300	0.48	0.5	mg/kg
	Subsurface	8	8	100%	12	1000	5300	0.47	9.7	mg/kg
Lead	Surface	4	4	100%	4.7	81	1000	0.14	0.15	mg/kg
	Subsurface	8	8	100%	3.7	5.4	1000	0.14	0.15	mg/kg
Mercury	Surface	4	4	100%	0.046	19	610	0.038	0.5	mg/kg
	Subsurface	8	8	100%	0.051	0.12	610	0.037	0.04	mg/kg
Nickel	Surface	4	4	100%	27	82	41000	0.95	1	mg/kg
	Subsurface	8	8	100%	34	70	41000	0.95	1	mg/kg
Silver	Surface	1	4	25%	1.7	1.7	10000	0.48	0.5	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Thallium	Surface	1	4	25%	0.32	0.32	140	0.24	0.25	mg/kg
Vanadium	Surface	4	4	100%	17	29	14000	0.48	0.5	mg/kg
	Subsurface	8	8	100%	18	24	14000	0.47	0.5	mg/kg
Zinc	Surface	4	4	100%	27	150	100000	0.95	1	mg/kg
	Subsurface	8	8	100%	19	550	100000	0.95	19	mg/kg
<b>pH</b>										
pH	Surface	4	4	100%	4	8.6	NA	1	1	SU
	Subsurface	8	8	100%	4.1	8.6	NA	1	1	SU
<b>VOCs</b>										
1,2-Dichloroethane	Subsurface	2	8	25%	0.0031	0.032	7.6	0.0046	0.0052	mg/kg
2-Butanone	Subsurface	1	8	13%	0.018	0.018	2800	0.0093	0.01	mg/kg
2-Chlorotoluene	Subsurface	1	8	13%	0.0061	0.0061	560	0.0046	0.0052	mg/kg
Acetone	Surface	1	4	25%	0.042	0.042	NA	0.02	2	mg/kg
	Subsurface	2	8	25%	0.033	0.088	NA	0.019	0.021	mg/kg
Chlorobenzene	Subsurface	1	8	13%	0.0042	0.0042	540	0.0046	0.0052	mg/kg
Chloroform	Surface	1	4	25%	0.0048	0.0048	5.2	0.005	0.5	mg/kg
	Subsurface	4	8	50%	0.0036	0.0069	5.2	0.0046	0.0052	mg/kg
cis-1,2-Dichloroethene	Subsurface	2	8	25%	0.0039	0.005	150	0.0046	0.0052	mg/kg
Naphthalene	Subsurface	1	8	13%	0.0064	0.0064	190	0.0046	0.0052	mg/kg
Tetrachloroethene	Surface	1	4	25%	0.011	0.011	190	0.005	0.5	mg/kg
	Subsurface	2	8	25%	0.0047	0.011	190	0.0046	0.0052	mg/kg
Toluene	Surface	1	4	25%	17	17	520	0.005	0.5	mg/kg
	Subsurface	2	8	25%	0.0054	0.022	520	0.0046	0.0052	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Trichloroethene	Surface	1	4	25%	0.023	0.023	61	0.005	0.5	mg/kg
	Subsurface	2	8	25%	0.0068	0.0089	61	0.0046	0.0052	mg/kg
<b><u>Pesticides/PCBs</u></b>										
4,4'-DDD	Surface	4	8	50%	0.0065	120	170	0.005	12	mg/kg
	Subsurface	4	12	33%	0.04	0.28	170	0.005	0.06	mg/kg
4,4'-DDE	Surface	3	8	38%	0.021	6.9	120	0.005	12	mg/kg
	Subsurface	3	12	25%	0.011	0.027	120	0.005	0.06	mg/kg
4,4'-DDT	Surface	4	8	50%	0.0086	9.5	120	0.005	12	mg/kg
	Subsurface	3	12	25%	0.024	0.042	120	0.005	0.06	mg/kg
Aroclor-1221	Surface	1	4	25%	0.31	0.31	10	0.024	48	mg/kg
	Surface	1	4	25%	0.31	0.31	10	0.024	48	mg/kg
Aroclor-1254	Surface	1	4	25%	0.98	0.98	10	0.012	24	mg/kg
Chlordane	Subsurface	2	12	17%	0.083	0.86	110	0.03	0.3	mg/kg
	Subsurface	2	12	17%	0.083	0.86	110	0.03	0.3	mg/kg
delta-BHC	Surface	1	8	13%	0.0056	0.0056	21	0.003	6	mg/kg
<b><u>Proprietary Pesticides</u></b>										
bensulide	Surface	2	8	25%	0.4	0.85	NA	0.064	1	mg/kg
Butylate	Subsurface	1	16	6%	0.06	0.06	44000	0.01	0.1	mg/kg
captan	Surface	2	8	25%	0.55	2.2	700	0.1	2.5	mg/kg
	Subsurface	2	15	13%	0.31	0.37	700	0.05	0.34	mg/kg
Carbophenothion	Surface	4	8	50%	0.01	0.18	NA	0.01	0.01	mg/kg
	Subsurface	7	16	44%	0.01	0.01	NA	0.01	0.1	mg/kg
Cycloate	Surface	2	8	25%	0.02	0.19	NA	0.01	0.1	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Cycloate	Subsurface	3	16	19%	0.01	0.04	NA	0.01	0.1	mg/kg
EPTC	Surface	2	8	25%	0.03	0.49	22000	0.01	0.1	mg/kg
	Subsurface	5	16	31%	0.01	0.27	22000	0.01	0.1	mg/kg
Flurochloridone	Surface	2	8	25%	0.1	0.16	NA	0.01	0.1	mg/kg
	Subsurface	1	16	6%	0.02	0.02	NA	0.01	0.1	mg/kg
Fonofos	Surface	1	8	13%	2.52	2.52	1800	0.01	0.1	mg/kg
	Subsurface	2	16	13%	0.6	0.73	1800	0.01	0.1	mg/kg
Metam sodium	Surface	1	8	13%	0.18	0.18	NA	0.09	0.09	mg/kg
Molinate	Surface	2	8	25%	0.09	0.17	1800	0.01	0.1	mg/kg
	Subsurface	3	16	19%	0.04	0.15	1800	0.01	0.1	mg/kg
Napropamide	Surface	2	7	29%	0.11	0.12	88000	0.01	0.1	mg/kg
	Subsurface	3	13	23%	0.01	0.05	88000	0.01	0.1	mg/kg
Pebulate	Surface	2	8	25%	0.02	1.16	44000	0.01	0.1	mg/kg
	Subsurface	3	16	19%	0.02	0.25	44000	0.01	0.1	mg/kg
R25788	Surface	2	8	25%	0.02	0.09	NA	0.01	0.1	mg/kg
R29148	Subsurface	1	16	6%	0.03	0.03	NA	0.01	0.1	mg/kg
Vernolate	Surface	1	8	13%	0.33	0.33	880	0.01	0.1	mg/kg
	Subsurface	2	16	13%	0.04	0.08	880	0.01	0.1	mg/kg

**A02**

**Metals**

Arsenic	Surface	6	6	100%	2.5	58	27	0.24	0.25	mg/kg
	Subsurface	6	6	100%	2.2	5.1	27	0.24	0.25	mg/kg
Barium	Surface	6	6	100%	94	230	100000	0.47	0.5	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Barium	Subsurface	6	6	100%	46	140	100000	0.48	0.5	mg/kg
Beryllium	Surface	5	6	83%	0.1	0.39	22000	0.095	0.1	mg/kg
	Subsurface	6	6	100%	0.28	0.48	22000	0.097	0.1	mg/kg
Cadmium	Surface	6	6	100%	0.47	1.7	810	0.24	0.25	mg/kg
	Subsurface	6	6	100%	0.27	1.1	810	0.24	0.25	mg/kg
Chromium	Surface	6	6	100%	1.4	34	450	0.47	0.5	mg/kg
	Subsurface	6	6	100%	24	41	450	0.48	0.5	mg/kg
Cobalt	Surface	5	6	83%	4.2	25	100000	0.95	1	mg/kg
	Subsurface	6	6	100%	5.3	17	100000	0.97	1	mg/kg
Copper	Surface	6	6	100%	120	530	5300	0.47	0.5	mg/kg
	Subsurface	6	6	100%	10	250	5300	0.48	0.5	mg/kg
Lead	Surface	6	6	100%	4	85	1000	0.14	0.15	mg/kg
	Subsurface	6	6	100%	3.5	5.2	1000	0.14	0.15	mg/kg
Mercury	Surface	5	6	83%	0.041	0.81	610	0.037	0.04	mg/kg
	Subsurface	3	6	50%	0.049	0.1	610	0.037	0.039	mg/kg
Molybdenum	Surface	1	6	17%	3.5	3.5	10000	0.95	1	mg/kg
Nickel	Surface	6	6	100%	18	47	41000	0.95	1	mg/kg
	Subsurface	6	6	100%	26	43	41000	0.97	1	mg/kg
Selenium	Surface	1	6	17%	0.54	0.54	10000	0.24	0.25	mg/kg
Silver	Surface	1	6	17%	2.9	2.9	10000	0.47	0.5	mg/kg
Thallium	Surface	1	6	17%	2	2	140	0.24	0.25	mg/kg
	Subsurface	1	6	17%	0.27	0.27	140	0.24	0.25	mg/kg
Vanadium	Surface	6	6	100%	5.3	29	14000	0.47	0.5	mg/kg



**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Vanadium	Subsurface	6	6	100%	22	35	14000	0.48	0.5	mg/kg
Zinc	Surface	6	6	100%	41	620	100000	0.95	19	mg/kg
	Subsurface	6	6	100%	27	330	100000	0.97	20	mg/kg
<b>pH</b>										
pH	Surface	6	6	100%	2.7	5	NA	1	1	SU
	Subsurface	6	6	100%	4.2	7.7	NA	1	1	SU
<b>VOCs</b>										
1,2,4-Trimethylbenzene	Surface	1	6	17%	0.0058	0.0058	5.7	0.0047	0.0051	mg/kg
1,2-Dibromo-3-Chloropropane	Surface	1	6	17%	0.0074	0.0074	40	0.0047	0.0051	mg/kg
1,2-Dichlorobenzene	Surface	1	6	17%	0.0027	0.0027	370	0.0047	0.0051	mg/kg
	Subsurface	1	6	17%	0.038	0.038	370	0.0047	0.0052	mg/kg
1,4-Dichlorobenzene	Subsurface	1	6	17%	0.0043	0.0043	81	0.0047	0.0052	mg/kg
2-Butanone	Surface	2	6	33%	0.01	0.024	2800	0.0094	0.01	mg/kg
	Subsurface	1	6	17%	0.026	0.026	2800	0.0094	0.01	mg/kg
Acetone	Surface	5	6	83%	0.019	0.1	NA	0.019	0.02	mg/kg
	Subsurface	2	6	33%	0.055	0.12	NA	0.019	0.021	mg/kg
Carbon Disulfide	Surface	2	6	33%	0.012	0.064	NA	0.0047	0.0051	mg/kg
	Subsurface	2	6	33%	0.047	0.092	NA	0.0047	0.0052	mg/kg
Chlorobenzene	Surface	1	6	17%	0.0083	0.0083	540	0.0047	0.0051	mg/kg
<b>Pesticides/PCBs</b>										
4,4'-DDD	Surface	4	10	40%	0.014	0.049	170	0.005	3	mg/kg
	Subsurface	2	10	20%	0.005	0.11	170	0.005	0.012	mg/kg
4,4'-DDE	Surface	1	10	10%	0.013	0.013	120	0.005	3	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
4,4'-DDE	Subsurface	1	10	10%	0.0038	0.0038	120	0.005	0.012	mg/kg
4,4'-DDT	Surface	5	10	50%	0.0058	0.5	120	0.005	3	mg/kg
	Subsurface	3	10	30%	0.0075	0.043	120	0.005	0.012	mg/kg
Endosulfan I	Surface	1	10	10%	0.0017	0.0017	5300	0.003	1.5	mg/kg
	Surface	1	10	10%	0.0017	0.0017	5300	0.003	1.5	mg/kg
Endosulfan II	Surface	2	10	20%	0.0032	0.019	5300	0.005	3	mg/kg
	Surface	2	10	20%	0.0032	0.019	5300	0.005	3	mg/kg
Endrin aldehyde	Surface	1	10	10%	0.0038	0.0038	NA	0.005	3	mg/kg
gamma-BHC	Surface	1	10	10%	0.0015	0.0015	29	0.003	1.5	mg/kg
Toxaphene	Surface	1	10	10%	230	230	22	0.05	30	mg/kg
	Subsurface	1	10	10%	0.13	0.13	22	0.05	0.12	mg/kg
<b><u>Proprietary Pesticides</u></b>										
bensulide	Surface	1	10	10%	0.06	0.06	NA	0.01	0.064	mg/kg
Butylate	Surface	2	10	20%	0.02	0.49	44000	0.01	0.01	mg/kg
	Subsurface	1	18	6%	0.01	0.01	44000	0.01	0.01	mg/kg
captan	Surface	1	10	10%	0.11	0.11	700	0.1	0.25	mg/kg
Carbophenothion	Surface	1	10	10%	0.03	0.03	NA	0.01	1	mg/kg
	Subsurface	3	16	19%	0.01	0.02	NA	0.01	0.01	mg/kg
Cycloate	Surface	5	10	50%	0.01	2.36	NA	0.01	0.01	mg/kg
	Subsurface	7	18	39%	0.01	1.87	NA	0.01	0.01	mg/kg
EPTC	Surface	5	10	50%	0.01	3.8	22000	0.01	0.01	mg/kg
	Subsurface	9	18	50%	0.01	0.7	22000	0.01	0.01	mg/kg
Flurochloridone	Surface	3	10	30%	0.01	3.9	NA	0.01	0.03	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Flurochloridone	Subsurface	2	18	11%	0.02	0.05	NA	0.01	0.03	mg/kg
Fonofos	Subsurface	1	18	6%	0.01	0.01	1800	0.01	0.01	mg/kg
Metam sodium	Subsurface	1	17	6%	0.6	0.6	NA	0.09	0.09	mg/kg
Molinate	Surface	5	9	56%	0.02	5.13	1800	0.01	0.01	mg/kg
	Subsurface	7	18	39%	0.02	15.1	1800	0.01	0.01	mg/kg
Napropamide	Surface	2	8	25%	0.02	0.02	88000	0.01	1	mg/kg
	Subsurface	3	14	21%	0.01	0.01	88000	0.01	0.1	mg/kg
Pebulate	Surface	3	10	30%	0.01	0.49	44000	0.01	0.01	mg/kg
	Subsurface	3	18	17%	0.02	1.1	44000	0.01	0.01	mg/kg
R25788	Subsurface	2	18	11%	0.02	0.02	NA	0.01	0.01	mg/kg
R29148	Subsurface	1	18	6%	0.14	0.14	NA	0.01	0.01	mg/kg
Vernolate	Surface	4	10	40%	0.01	0.26	880	0.01	0.01	mg/kg
	Subsurface	1	18	6%	0.01	0.01	880	0.01	0.01	mg/kg
<b>A03</b>										
<b>Metals</b>										
Antimony	Subsurface	4	15	27%	3.2	4.4	820	2.8	3	mg/kg
Arsenic	Surface	1	1	100%	1.7	1.7	27	0.25	0.25	mg/kg
	Subsurface	15	15	100%	3.1	300	27	0.24	0.25	mg/kg
Barium	Surface	1	1	100%	93	93	100000	0.49	0.49	mg/kg
	Subsurface	15	15	100%	70	320	100000	0.47	10	mg/kg
Beryllium	Surface	1	1	100%	0.54	0.54	22000	0.098	0.098	mg/kg
	Subsurface	5	15	33%	0.1	0.21	22000	0.095	0.1	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Cadmium	Surface	1	1	100%	0.41	0.41	810	0.25	0.25	mg/kg
	Subsurface	14	15	93%	0.28	10	810	0.24	0.25	mg/kg
Chromium	Surface	1	1	100%	25	25	450	0.49	0.49	mg/kg
	Subsurface	12	15	80%	0.61	60	450	0.47	0.5	mg/kg
Cobalt	Surface	1	1	100%	8.4	8.4	100000	0.98	0.98	mg/kg
	Subsurface	11	15	73%	1.2	8.3	100000	0.95	1	mg/kg
Copper	Surface	1	1	100%	17	17	5300	0.49	0.49	mg/kg
	Subsurface	15	15	100%	120	36000	5300	0.47	24	mg/kg
Lead	Surface	1	1	100%	7.3	7.3	1000	0.15	0.15	mg/kg
	Subsurface	15	15	100%	2.8	79	1000	0.14	0.15	mg/kg
Mercury	Surface	1	1	100%	0.071	0.071	610	0.04	0.04	mg/kg
	Subsurface	14	15	93%	0.039	1.2	610	0.037	0.04	mg/kg
Molybdenum	Subsurface	13	15	87%	1.1	11	10000	0.95	1	mg/kg
Nickel	Surface	1	1	100%	30	30	41000	0.98	0.98	mg/kg
	Subsurface	15	15	100%	10	72	41000	0.95	1	mg/kg
Selenium	Subsurface	6	15	40%	0.3	3.4	10000	0.24	0.25	mg/kg
Silver	Subsurface	12	15	80%	1.1	6.2	10000	0.47	0.5	mg/kg
Thallium	Subsurface	13	15	87%	0.32	5.7	140	0.24	0.25	mg/kg
Vanadium	Surface	1	1	100%	20	20	14000	0.49	0.49	mg/kg
	Subsurface	15	15	100%	1.7	32	14000	0.47	0.5	mg/kg
Zinc	Surface	1	1	100%	190	190	100000	0.98	0.98	mg/kg
	Subsurface	15	15	100%	38	1500	100000	0.95	48	mg/kg
<b>pH</b>										

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
pH	Surface	1	1	100%	7	7	NA	1	1	SU
	Subsurface	13	13	100%	3.4	9.8	NA	1	1	SU
<b><u>VOCs</u></b>										
1,2,3-Trichlorobenzene	Subsurface	1	14	7%	0.37	0.37	3000	0.0047	6.3	mg/kg
1,2,4-Trichlorobenzene	Subsurface	2	14	14%	0.01	2.2	3000	0.0047	6.3	mg/kg
1,2-Dichlorobenzene	Subsurface	2	15	13%	0.0034	0.35	370	0.0047	6.3	mg/kg
1,4-Dichlorobenzene	Subsurface	2	15	13%	0.99	2.3	81	0.0047	6.3	mg/kg
Benzene	Subsurface	2	15	13%	0.004	0.025	15	0.0047	6.3	mg/kg
Carbon Disulfide	Subsurface	1	15	7%	0.0029	0.0029	NA	0.0047	6.3	mg/kg
Chlorobenzene	Subsurface	11	15	73%	0.0032	210	540	0.0047	6.3	mg/kg
Hexachlorobutadiene	Subsurface	3	14	21%	0.0048	3.2	320	0.0047	6.3	mg/kg
Tetrachloroethene	Subsurface	7	15	47%	0.0027	2.6	190	0.0047	6.3	mg/kg
Toluene	Subsurface	1	15	7%	0.0029	0.0029	520	0.0047	6.3	mg/kg
<b><u>Semivolatiles</u></b>										
2,4-Dichlorophenol	Subsurface	1	14	7%	0.45	0.45	2600	0.33	0.67	mg/kg
2-Chlorophenol	Subsurface	5	14	36%	0.22	1.7	240	0.33	0.67	mg/kg
Benzo(b,k)fluoranthene	Subsurface	1	14	7%	0.18	0.18	29	0.33	0.67	mg/kg
Chrysene	Subsurface	1	14	7%	0.19	0.19	2900	0.33	0.67	mg/kg
Fluoranthene	Subsurface	1	14	7%	0.17	0.17	3000	0.33	0.67	mg/kg
Pyrene	Subsurface	1	14	7%	0.23	0.23	5400	0.33	0.67	mg/kg
<b><u>Pesticides/PCBs</u></b>										

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
4,4'-DDD	Subsurface	3	14	21%	0.019	0.064	170	0.006	12	mg/kg
4,4'-DDE	Subsurface	3	14	21%	0.0059	0.031	120	0.006	12	mg/kg
4,4'-DDT	Subsurface	6	14	43%	0.012	9.2	120	0.006	12	mg/kg
alpha-BHC	Subsurface	8	14	57%	0.0025	0.11	5.9	0.003	6	mg/kg
beta-BHC	Subsurface	3	14	21%	0.0031	0.025	21	0.003	6	mg/kg
delta-BHC	Subsurface	3	14	21%	0.0033	0.036	21	0.003	6	mg/kg
Dieldrin	Subsurface	2	14	14%	0.005	0.013	1.5	0.006	12	mg/kg
Endosulfan I	Subsurface	1	14	7%	0.006	0.006	5300	0.003	6	mg/kg
	Subsurface	1	14	7%	0.006	0.006	5300	0.003	6	mg/kg
gamma-BHC	Subsurface	6	14	43%	0.002	0.064	29	0.003	6	mg/kg
<b>A04</b>										
<b><u>Metals</u></b>										
Antimony	Surface	2	10	20%	3	3.7	820	2.9	3	mg/kg
	Subsurface	1	11	9%	6.3	6.3	820	2.8	3	mg/kg
Arsenic	Surface	10	10	100%	3.9	67	27	0.24	0.25	mg/kg
	Subsurface	11	11	100%	4.8	98	27	0.24	0.25	mg/kg
Barium	Surface	10	10	100%	29	180	100000	0.48	0.5	mg/kg
	Subsurface	11	11	100%	62	430	100000	0.47	9.8	mg/kg
Beryllium	Surface	7	10	70%	0.11	0.57	22000	0.095	0.1	mg/kg
	Subsurface	4	11	36%	0.15	0.29	22000	0.095	0.1	mg/kg
Cadmium	Surface	9	10	90%	0.62	6.2	810	0.24	0.25	mg/kg
	Subsurface	10	11	91%	0.26	5.8	810	0.24	0.25	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Chromium	Surface	10	10	100%	5.5	46	450	0.48	0.5	mg/kg
	Subsurface	11	11	100%	0.64	150	450	0.47	0.5	mg/kg
Cobalt	Surface	10	10	100%	1	13	100000	0.95	1	mg/kg
	Subsurface	8	11	73%	1.3	7.6	100000	0.95	1	mg/kg
Copper	Surface	10	10	100%	28	740	5300	0.48	0.5	mg/kg
	Subsurface	11	11	100%	19	1200	5300	0.47	10	mg/kg
Lead	Surface	10	10	100%	7.2	910	1000	0.14	0.15	mg/kg
	Subsurface	11	11	100%	4.3	18000	1000	0.14	3	mg/kg
Mercury	Surface	10	10	100%	0.18	4.7	610	0.038	0.13	mg/kg
	Subsurface	10	11	91%	0.056	82	610	0.036	2.6	mg/kg
Molybdenum	Surface	4	10	40%	1.3	29	10000	0.95	1	mg/kg
	Subsurface	5	11	45%	1	4.2	10000	0.95	1	mg/kg
Nickel	Surface	10	10	100%	14	53	41000	0.95	1	mg/kg
	Subsurface	11	11	100%	9	53	41000	0.95	1	mg/kg
Selenium	Surface	7	10	70%	0.64	5	10000	0.24	0.25	mg/kg
	Subsurface	5	11	45%	1.3	500	10000	0.24	0.25	mg/kg
Silver	Surface	6	10	60%	0.93	4.7	10000	0.48	0.5	mg/kg
	Subsurface	4	11	36%	1.9	8.7	10000	0.47	0.5	mg/kg
Thallium	Surface	5	10	50%	0.3	0.86	140	0.24	0.25	mg/kg
	Subsurface	7	11	64%	0.29	2.2	140	0.24	0.25	mg/kg
Vanadium	Surface	10	10	100%	11	35	14000	0.48	0.5	mg/kg
	Subsurface	11	11	100%	5.1	40	14000	0.47	0.5	mg/kg
Zinc	Surface	10	10	100%	31	1400	100000	0.96	20	mg/kg
	Subsurface	11	11	100%	7.8	1200	100000	0.95	20	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b>pH</b>										
pH	Surface	10	10	100%	3.4	12	NA	1	1	SU
	Subsurface	11	11	100%	3.6	6.8	NA	1	1	SU
<b>VOCs</b>										
1,4-Dichlorobenzene	Subsurface	1	11	9%	0.1	0.1	81	0.0047	0.5	mg/kg
Acetone	Surface	1	9	11%	0.035	0.035	NA	0.019	0.02	mg/kg
	Subsurface	2	10	20%	0.025	0.025	NA	0.019	2	mg/kg
Benzene	Subsurface	1	11	9%	0.011	0.011	15	0.0047	0.5	mg/kg
Carbon Disulfide	Surface	2	10	20%	0.0054	0.011	NA	0.0048	0.0051	mg/kg
	Subsurface	6	11	55%	0.16	16	NA	0.0047	0.5	mg/kg
Carbon Tetrachloride	Surface	1	10	10%	0.0031	0.0031	5.3	0.0048	0.0051	mg/kg
	Subsurface	1	11	9%	1.7	1.7	5.3	0.0047	0.5	mg/kg
Chlorobenzene	Subsurface	5	11	45%	0.053	6.9	540	0.0047	0.5	mg/kg
Chloroform	Surface	1	10	10%	0.012	0.012	5.2	0.0048	0.0051	mg/kg
	Subsurface	2	11	18%	0.0046	3	5.2	0.0047	0.5	mg/kg
m,p-Xylenes	Subsurface	1	11	9%	0.0028	0.0028	210	0.0047	0.5	mg/kg
Naphthalene	Surface	1	9	11%	0.0046	0.0046	190	0.0048	0.0051	mg/kg
	Subsurface	1	10	10%	1.5	1.5	190	0.0047	0.5	mg/kg
para-Isopropyl Toluene	Subsurface	1	10	10%	0.86	0.86	NA	0.0047	0.5	mg/kg
Tetrachloroethene	Surface	2	10	20%	0.0036	0.0065	190	0.0048	0.0051	mg/kg
	Subsurface	2	11	18%	0.065	0.14	190	0.0047	0.5	mg/kg
Trichloroethene	Subsurface	1	11	9%	0.0041	0.0041	61	0.0047	0.5	mg/kg
<b>Semivolatiles</b>										



**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
2-Chlorophenol	Subsurface	1	9	11%	0.26	0.26	240	0.33	3.3	mg/kg
3-,4-Methylphenol	Surface	1	9	11%	8.3	8.3	4400	0.33	3.3	mg/kg
Anthracene	Surface	2	9	22%	0.38	3.8	100000	0.33	3.3	mg/kg
Benzo(a)anthracene	Surface	5	9	56%	0.22	9	29	0.33	3.3	mg/kg
	Subsurface	1	9	11%	1.4	1.4	29	0.33	3.3	mg/kg
Benzo(a)pyrene	Surface	5	9	56%	0.19	6.2	2.9	0.33	3.3	mg/kg
	Subsurface	1	9	11%	1.2	1.2	2.9	0.33	3.3	mg/kg
Benzo(b,k)fluoranthene	Surface	5	9	56%	0.29	21	29	0.33	3.3	mg/kg
	Subsurface	2	9	22%	2.2	2.3	29	0.33	3.3	mg/kg
Benzo(g,h,i)perylene	Surface	2	9	22%	0.31	1.1	NA	0.33	3.3	mg/kg
Chrysene	Surface	5	9	56%	0.28	12	2900	0.33	3.3	mg/kg
	Subsurface	2	9	22%	1.9	2.1	2900	0.33	3.3	mg/kg
Fluoranthene	Surface	5	9	56%	0.35	30	3000	0.33	3.3	mg/kg
	Subsurface	1	9	11%	2.6	2.6	3000	0.33	3.3	mg/kg
Indeno(1,2,3-cd)pyrene	Surface	3	9	33%	0.27	4	29	0.33	3.3	mg/kg
Phenanthrene	Surface	4	9	44%	0.29	3.1	NA	0.33	3.3	mg/kg
	Subsurface	2	9	22%	0.17	4.6	NA	0.33	3.3	mg/kg
Phenol	Surface	2	9	22%	0.54	1.5	100000	0.33	3.3	mg/kg
Pyrene	Surface	5	9	56%	0.39	40	5400	0.33	3.3	mg/kg
	Subsurface	2	9	22%	1.9	2.9	5400	0.33	3.3	mg/kg
<b><u>Pesticides/PCBs</u></b>										
4,4'-DDD	Surface	3	9	33%	0.057	1	170	0.005	0.6	mg/kg
4,4'-DDE	Subsurface	1	9	11%	0.0037	0.0037	120	0.006	0.6	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
4,4'-DDT	Surface	3	9	33%	0.047	7.2	120	0.005	0.6	mg/kg
	Subsurface	1	9	11%	0.0047	0.0047	120	0.006	0.6	mg/kg
<b>Proprietary Pesticides</b>										
Butylate	Surface	1	9	11%	8.4	8.4	44000	0.01	0.01	mg/kg
	Subsurface	1	19	5%	0.01	0.01	44000	0.01	0.01	mg/kg
captan	Subsurface	1	18	6%	0.18	0.18	700	0.05	2.5	mg/kg
Carbophenothion	Surface	3	10	30%	0.01	1.89	NA	0.01	0.01	mg/kg
	Subsurface	2	19	11%	0.01	0.03	NA	0.01	0.01	mg/kg
Cycloate	Subsurface	1	19	5%	0.13	0.13	NA	0.01	0.01	mg/kg
EPTC	Subsurface	3	19	16%	0.02	0.06	22000	0.01	0.01	mg/kg
Flurochloridone	Surface	5	10	50%	0.01	0.18	NA	0.01	0.03	mg/kg
	Subsurface	5	19	26%	0.01	0.41	NA	0.01	0.03	mg/kg
Metam sodium	Subsurface	4	16	25%	1.4	130	NA	0.09	0.09	mg/kg
Molinate	Subsurface	6	19	32%	0.01	0.054	1800	0.01	0.01	mg/kg
Napropamide	Surface	1	10	10%	0.79	0.79	88000	0.01	0.1	mg/kg
	Subsurface	3	17	18%	0.01	0.03	88000	0.01	0.01	mg/kg
Pebulate	Subsurface	1	19	5%	0.01	0.01	44000	0.01	0.01	mg/kg
R29148	Surface	1	10	10%	0.03	0.03	NA	0.01	0.01	mg/kg
	Subsurface	1	19	5%	0.022	0.022	NA	0.01	0.022	mg/kg
Vernolate	Surface	3	10	30%	0.01	0.31	880	0.01	0.01	mg/kg
	Subsurface	3	19	16%	0.04	0.57	880	0.01	0.01	mg/kg

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**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b>Metals</b>										
Antimony	Surface	2	6	33%	7.4	17	820	2.9	3	mg/kg
Arsenic	Surface	6	6	100%	4.1	28	27	0.24	0.25	mg/kg
	Subsurface	6	6	100%	2.9	52	27	0.24	0.25	mg/kg
Barium	Surface	6	6	100%	65	220	100000	0.48	0.5	mg/kg
	Subsurface	6	6	100%	52	110	100000	0.48	0.5	mg/kg
Beryllium	Surface	4	6	67%	0.18	0.25	22000	0.096	0.1	mg/kg
	Subsurface	3	6	50%	0.15	0.44	22000	0.096	0.1	mg/kg
Cadmium	Surface	6	6	100%	0.3	1.3	810	0.24	0.25	mg/kg
	Subsurface	3	6	50%	0.4	0.53	810	0.24	0.25	mg/kg
Chromium	Surface	6	6	100%	2	85	450	0.48	0.5	mg/kg
	Subsurface	6	6	100%	0.99	39	450	0.48	0.5	mg/kg
Cobalt	Surface	5	6	83%	2.2	250	100000	0.96	1	mg/kg
	Subsurface	5	6	83%	1.2	11	100000	0.96	1	mg/kg
Copper	Surface	6	6	100%	13	160	5300	0.48	0.5	mg/kg
	Subsurface	6	6	100%	12	470	5300	0.48	0.5	mg/kg
Lead	Surface	6	6	100%	18	2000	1000	0.14	0.15	mg/kg
	Subsurface	6	6	100%	3.5	140	1000	0.14	0.15	mg/kg
Mercury	Surface	6	6	100%	0.3	8.9	610	0.039	0.27	mg/kg
	Subsurface	6	6	100%	0.051	5.1	610	0.037	0.18	mg/kg
Molybdenum	Surface	6	6	100%	1.1	2.7	10000	0.96	1	mg/kg
	Subsurface	2	6	33%	1.9	3.5	10000	0.96	1	mg/kg
Nickel	Surface	6	6	100%	1.2	62	41000	0.96	1	mg/kg
	Subsurface	6	6	100%	2.8	52	41000	0.96	1	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Selenium	Surface	2	6	33%	0.83	11	10000	0.24	0.25	mg/kg
	Subsurface	3	6	50%	0.33	1.8	10000	0.24	0.25	mg/kg
Silver	Surface	4	6	67%	0.52	22	10000	0.48	0.5	mg/kg
	Subsurface	3	6	50%	0.55	3.8	10000	0.48	0.5	mg/kg
Thallium	Surface	1	6	17%	1.2	1.2	140	0.24	0.25	mg/kg
	Subsurface	3	6	50%	0.56	1.8	140	0.24	0.25	mg/kg
Vanadium	Surface	6	6	100%	1.2	57	14000	0.48	0.5	mg/kg
	Subsurface	6	6	100%	0.94	39	14000	0.48	0.5	mg/kg
Zinc	Surface	6	6	100%	49	250	100000	0.96	19	mg/kg
	Subsurface	6	6	100%	9.5	100	100000	0.96	1	mg/kg
<b>pH</b>										
pH	Surface	6	6	100%	4.9	9.3	NA	1	1	SU
	Subsurface	6	6	100%	3.9	8.3	NA	1	1	SU
<b>VOCs</b>										
2-Butanone	Subsurface	2	6	33%	0.012	0.017	2800	0.0093	0.01	mg/kg
Acetone	Subsurface	2	6	33%	0.06	0.076	NA	0.019	0.021	mg/kg
Carbon Disulfide	Surface	1	6	17%	0.01	0.01	NA	0.0047	0.0052	mg/kg
	Subsurface	2	6	33%	0.0033	0.014	NA	0.0046	0.0052	mg/kg
Chlorobenzene	Surface	1	6	17%	0.016	0.016	540	0.0047	0.0052	mg/kg
	Subsurface	1	6	17%	0.0038	0.0038	540	0.0046	0.0052	mg/kg
Naphthalene	Surface	1	6	17%	0.0096	0.0096	190	0.0047	0.0052	mg/kg
para-Isopropyl Toluene	Surface	1	6	17%	0.057	0.057	NA	0.0047	0.0052	mg/kg
	Subsurface	1	6	17%	0.064	0.064	NA	0.0046	0.0052	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b>Semivolatiles</b>										
Benzo(a)anthracene	Surface	1	6	17%	11	11	29	0.33	13	mg/kg
Benzo(a)pyrene	Surface	1	6	17%	6	6	2.9	0.33	13	mg/kg
Benzo(b,k)fluoranthene	Surface	1	6	17%	22	22	29	0.33	13	mg/kg
Benzo(g,h,i)perylene	Surface	1	6	17%	5	5	NA	0.33	13	mg/kg
Chrysene	Surface	1	6	17%	20	20	2900	0.33	13	mg/kg
Fluoranthene	Surface	1	6	17%	23	23	3000	0.33	13	mg/kg
Indeno(1,2,3-cd)pyrene	Surface	1	6	17%	5	5	29	0.33	13	mg/kg
Phenanthrene	Surface	1	6	17%	14	14	NA	0.33	13	mg/kg
Pyrene	Surface	1	6	17%	26	26	5400	0.33	13	mg/kg
<b>Pesticides/PCBs</b>										
4,4'-DDD	Surface	2	6	33%	0.055	0.057	170	0.006	0.3	mg/kg
4,4'-DDE	Surface	2	6	33%	0.0066	0.49	120	0.006	0.3	mg/kg
4,4'-DDT	Surface	2	6	33%	0.043	0.62	120	0.006	0.3	mg/kg
Aroclor-1221	Subsurface	1	5	20%	0.072	0.072	10	0.024	0.024	mg/kg
	Subsurface	1	5	20%	0.072	0.072	10	0.024	0.024	mg/kg
Aroclor-1242	Surface	3	6	50%	0.17	13	10	0.012	0.6	mg/kg
	Subsurface	1	5	20%	0.12	0.12	10	0.012	0.012	mg/kg
Aroclor-1254	Surface	2	6	33%	0.65	1.2	10	0.012	0.6	mg/kg
	Subsurface	1	5	20%	0.019	0.019	10	0.012	0.012	mg/kg
Endrin	Subsurface	1	5	20%	0.014	0.014	260	0.006	0.006	mg/kg
Endrin aldehyde	Surface	1	6	17%	0.43	0.43	NA	0.006	0.3	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b><u>Proprietary Pesticides</u></b>										
Butylate	Surface	2	6	33%	0.01	0.1	44000	0.01	0.1	mg/kg
captan	Surface	1	6	17%	0.06	0.06	700	0.05	0.5	mg/kg
Carbophenothion	Surface	1	6	17%	0.01	0.01	NA	0.01	0.1	mg/kg
	Subsurface	1	7	14%	0.1	0.1	NA	0.01	0.01	mg/kg
EPTC	Surface	1	6	17%	0.02	0.02	22000	0.01	0.1	mg/kg
Flurochloridone	Surface	1	6	17%	0.03	0.03	NA	0.01	0.1	mg/kg
	Subsurface	3	7	43%	0.06	0.29	NA	0.01	0.05	mg/kg
Fonofos	Surface	1	6	17%	0.02	0.02	1800	0.01	0.1	mg/kg
Metam sodium	Subsurface	2	8	25%	0.1	0.22	NA	0.09	0.09	mg/kg
Molinate	Surface	1	6	17%	0.01	0.01	1800	0.01	0.1	mg/kg
	Subsurface	1	7	14%	0.02	0.02	1800	0.01	0.1	mg/kg
Napropamide	Surface	2	6	33%	0.03	0.26	88000	0.01	0.1	mg/kg
Pebulate	Surface	1	6	17%	0.03	0.03	44000	0.01	0.1	mg/kg
	Subsurface	1	7	14%	0.02	0.02	44000	0.01	0.1	mg/kg
phosmet	Surface	1	6	17%	0.37	0.37	18000	0.05	0.5	mg/kg
	Subsurface	1	8	13%	0.16	0.16	18000	0.05	0.5	mg/kg
R29148	Surface	1	6	17%	0.01	0.01	NA	0.01	0.1	mg/kg
	Subsurface	1	7	14%	0.02	0.02	NA	0.01	0.1	mg/kg
Vernolate	Surface	1	6	17%	0.03	0.03	880	0.01	0.1	mg/kg

**A06**

**Metals**

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Antimony	Surface	2	13	15%	3.4	4.1	820	2.9	3	mg/kg
	Subsurface	2	12	17%	3.8	5.9	820	2.9	3	mg/kg
Arsenic	Surface	13	13	100%	0.62	140	27	0.24	0.25	mg/kg
	Subsurface	12	12	100%	1.9	47	27	0.24	0.25	mg/kg
Barium	Surface	13	13	100%	42	200	100000	0.48	0.5	mg/kg
	Subsurface	12	12	100%	47	170	100000	0.48	0.5	mg/kg
Beryllium	Surface	9	13	69%	0.11	0.61	22000	0.096	0.1	mg/kg
	Subsurface	12	12	100%	0.1	0.54	22000	0.095	0.1	mg/kg
Cadmium	Surface	11	13	85%	0.42	6.7	810	0.24	0.25	mg/kg
	Subsurface	12	12	100%	0.37	2.9	810	0.24	0.25	mg/kg
Chromium	Surface	13	13	100%	0.99	49	450	0.48	0.5	mg/kg
	Subsurface	12	12	100%	19	39	450	0.48	0.5	mg/kg
Cobalt	Surface	11	13	85%	1.6	18	100000	0.96	1	mg/kg
	Subsurface	12	12	100%	1.7	40	100000	0.95	1	mg/kg
Copper	Surface	13	13	100%	10	410	5300	0.48	0.5	mg/kg
	Subsurface	12	12	100%	49	1700	5300	0.48	9.8	mg/kg
Lead	Surface	13	13	100%	4.2	800	1000	0.14	0.15	mg/kg
	Subsurface	12	12	100%	3.8	380	1000	0.14	0.15	mg/kg
Mercury	Surface	12	13	92%	0.038	4.4	610	0.037	0.15	mg/kg
	Subsurface	10	12	83%	0.038	9.8	610	0.037	0.27	mg/kg
Molybdenum	Surface	6	13	46%	1	7.9	10000	0.96	1	mg/kg
	Subsurface	5	12	42%	1.4	5.7	10000	0.95	1	mg/kg
Nickel	Surface	13	13	100%	3	63	41000	0.96	1	mg/kg
	Subsurface	12	12	100%	18	39	41000	0.95	1	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Selenium	Surface	2	13	15%	0.87	4.6	10000	0.24	0.25	mg/kg
	Subsurface	3	12	25%	1.1	8.6	10000	0.24	0.25	mg/kg
Silver	Surface	2	13	15%	2	4.9	10000	0.48	0.5	mg/kg
	Subsurface	4	12	33%	0.69	2.9	10000	0.48	0.5	mg/kg
Thallium	Surface	3	13	23%	0.28	2.9	140	0.24	0.25	mg/kg
	Subsurface	3	12	25%	0.55	1	140	0.24	0.25	mg/kg
Vanadium	Surface	13	13	100%	1.3	33	14000	0.48	0.5	mg/kg
	Subsurface	12	12	100%	17	50	14000	0.48	0.5	mg/kg
Zinc	Surface	13	13	100%	9.6	830	100000	0.96	20	mg/kg
	Subsurface	12	12	100%	30	1200	100000	0.95	20	mg/kg
<b>pH</b>										
pH	Surface	13	13	100%	2.8	10	NA	1	1	SU
	Subsurface	12	12	100%	3.6	9.7	NA	1	1	SU
<b>VOCs</b>										
1,2,4-Trimethylbenzene	Surface	1	13	8%	0.0073	0.0073	5.7	0.0046	0.0052	mg/kg
1,2-Dichlorobenzene	Surface	1	13	8%	0.0025	0.0025	370	0.0046	0.0052	mg/kg
1,3,5-Trimethylbenzene	Surface	1	13	8%	0.0025	0.0025	70	0.0046	0.0052	mg/kg
2-Butanone	Subsurface	3	12	25%	0.012	0.028	2800	0.0093	0.01	mg/kg
Acetone	Surface	2	13	15%	0.032	0.06	NA	0.019	0.021	mg/kg
	Subsurface	7	12	58%	0.021	0.086	NA	0.019	0.021	mg/kg
Carbon Disulfide	Subsurface	2	12	17%	0.003	0.0076	NA	0.0046	0.0052	mg/kg
Ethylbenzene	Surface	1	13	8%	0.0075	0.0075	230	0.0046	0.0052	mg/kg
	Subsurface	1	12	8%	0.0063	0.0063	230	0.0046	0.0052	mg/kg



**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
m,p-Xylenes	Surface	3	13	23%	0.0043	0.028	210	0.0046	0.0052	mg/kg
	Subsurface	1	12	8%	0.024	0.024	210	0.0046	0.0052	mg/kg
Methylene Chloride	Surface	1	13	8%	0.021	0.021	210	0.019	0.021	mg/kg
Naphthalene	Surface	1	13	8%	0.028	0.028	190	0.0046	0.0052	mg/kg
o-Xylene	Surface	1	13	8%	0.0096	0.0096	210	0.0046	0.0052	mg/kg
	Subsurface	1	12	8%	0.0082	0.0082	210	0.0046	0.0052	mg/kg
Tetrachloroethene	Surface	2	13	15%	0.016	0.068	190	0.0046	0.0052	mg/kg
	Subsurface	2	12	17%	0.054	0.071	190	0.0046	0.0052	mg/kg
Toluene	Surface	1	13	8%	0.018	0.018	520	0.0046	0.0052	mg/kg
	Subsurface	1	12	8%	0.016	0.016	520	0.0046	0.0052	mg/kg
<b><u>Semivolatiles</u></b>										
Benzo(a)anthracene	Surface	1	13	8%	0.84	0.84	29	0.33	17	mg/kg
Benzo(a)pyrene	Surface	1	13	8%	0.91	0.91	2.9	0.33	17	mg/kg
Benzo(b,k)fluoranthene	Surface	1	13	8%	1.6	1.6	29	0.33	17	mg/kg
	Subsurface	1	10	10%	0.46	0.46	29	0.33	10	mg/kg
Chrysene	Surface	1	13	8%	1.3	1.3	2900	0.33	17	mg/kg
	Subsurface	1	10	10%	0.39	0.39	2900	0.33	10	mg/kg
Fluoranthene	Surface	1	13	8%	1.8	1.8	3000	0.33	17	mg/kg
	Subsurface	1	10	10%	0.44	0.44	3000	0.33	10	mg/kg
Phenanthrene	Surface	1	13	8%	1.8	1.8	NA	0.33	17	mg/kg
	Subsurface	1	10	10%	0.38	0.38	NA	0.33	10	mg/kg
Phenol	Surface	1	13	8%	0.2	0.2	100000	0.33	17	mg/kg
	Subsurface	1	10	10%	0.18	0.18	100000	0.33	10	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Pyrene	Surface	2	13	15%	0.19	2.8	5400	0.33	17	mg/kg
	Subsurface	2	10	20%	0.39	5.1	5400	0.33	10	mg/kg
<b><u>Pesticides/PCBs</u></b>										
4,4'-DDD	Surface	2	13	15%	0.61	3.3	170	0.006	1.2	mg/kg
	Subsurface	3	10	30%	0.028	2	170	0.006	1.2	mg/kg
4,4'-DDE	Surface	4	13	31%	0.0039	1.2	120	0.006	1.2	mg/kg
	Subsurface	4	10	40%	0.0078	1	120	0.006	1.2	mg/kg
4,4'-DDT	Surface	6	13	46%	0.011	19	120	0.006	1.2	mg/kg
	Subsurface	3	10	30%	0.0079	9.7	120	0.006	1.2	mg/kg
Dieldrin	Surface	1	13	8%	0.058	0.058	1.5	0.006	1.2	mg/kg
Endosulfan I	Surface	1	13	8%	0.046	0.046	5300	0.003	0.6	mg/kg
	Surface	1	13	8%	0.046	0.046	5300	0.003	0.6	mg/kg
Endosulfan II	Surface	1	13	8%	0.044	0.044	5300	0.006	1.2	mg/kg
	Surface	1	13	8%	0.044	0.044	5300	0.006	1.2	mg/kg
Endrin	Surface	1	13	8%	0.0032	0.0032	260	0.006	1.2	mg/kg
Endrin aldehyde	Surface	1	13	8%	0.047	0.047	NA	0.006	1.2	mg/kg
<b><u>Proprietary Pesticides</u></b>										
bensulide	Subsurface	2	21	10%	0.06	0.16	NA	0.06	0.1	mg/kg
Butylate	Subsurface	1	23	4%	0.01	0.01	44000	0.01	0.01	mg/kg
captan	Surface	1	12	8%	0.11	0.11	700	0.05	0.5	mg/kg
	Subsurface	2	21	10%	0.14	0.23	700	0.05	0.25	mg/kg
Carbophenothion	Surface	2	13	15%	0.01	0.05	NA	0.01	0.1	mg/kg
	Subsurface	5	23	22%	0.01	0.02	NA	0.01	0.01	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Cycloate	Surface	1	13	8%	0.02	0.02	NA	0.01	0.01	mg/kg
EPTC	Subsurface	1	23	4%	0.2	0.2	22000	0.01	0.01	mg/kg
Flurochloridone	Surface	4	13	31%	0.02	0.135	NA	0.01	0.1	mg/kg
	Subsurface	2	23	9%	0.04	0.07	NA	0.01	0.05	mg/kg
Fonofos	Surface	1	13	8%	0.02	0.02	1800	0.01	0.01	mg/kg
Metam sodium	Surface	1	11	9%	0.24	0.24	NA	0.09	0.09	mg/kg
	Subsurface	1	20	5%	8.5	8.5	NA	0.09	0.09	mg/kg
Molinate	Surface	1	13	8%	2.36	2.36	1800	0.01	0.01	mg/kg
	Subsurface	2	23	9%	0.02	0.04	1800	0.01	0.01	mg/kg
Napropamide	Surface	1	13	8%	0.02	0.02	88000	0.01	0.01	mg/kg
	Subsurface	3	21	14%	0.01	4.1	88000	0.01	0.1	mg/kg
Pebulate	Surface	1	13	8%	0.03	0.03	44000	0.01	0.01	mg/kg
	Subsurface	1	23	4%	0.55	0.55	44000	0.01	0.01	mg/kg
phosmet	Surface	1	12	8%	0.07	0.07	18000	0.05	0.5	mg/kg
Vernolate	Subsurface	1	23	4%	0.07	0.07	880	0.01	0.01	mg/kg

**Table 2c**  
**Frequency and Concentration Ranges for Plant Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	

**Notes**

NA = Not available.

Surface = 0 to 2 feet bgs; subsurface - below 2 feet bgs. Only detected analytes shown.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b>A01</b>									
<b>Metals</b>									
Barium	2	2	100%	38	55	40	10	10	ug/l
Cobalt	1	2	50%	41	41	230	20	20	ug/l
Molybdenum	1	2	50%	28	28	3700	20	20	ug/l
Selenium	1	2	50%	6	6	710	5	5	ug/l
Zinc	1	2	50%	130	130	580	20	20	ug/l
<b>pH</b>									
pH	3	3	100%	7.09	7.11	NA	1	1	SU
<b>VOCs</b>									
1,2-Dichlorobenzene	2	2	100%	5.6	6.3	1290	0.5	1.7	ug/l
1,2-Dichloroethane	2	2	100%	18	47	9100	0.5	1.7	ug/l
Benzene	1	2	50%	9.6	9.6	5100	0.5	1.7	ug/l
Carbon Tetrachloride	2	2	100%	1.8	45	64000	0.5	1.7	ug/l
Chlorobenzene	2	2	100%	0.6	27	1290	0.5	1.7	ug/l
Chloroform	2	2	100%	2.5	67	64000	0.5	1.7	ug/l
cis-1,2-Dichloroethene	2	2	100%	1.4	32	5900	0.5	1.7	ug/l
Tetrachloroethene	2	2	100%	0.8	26	4500	0.5	1.7	ug/l
Trichloroethene	2	2	100%	18	370	2000	0.5	1.7	ug/l
Vinyl Chloride	1	2	50%	4.6	4.6	7820	0.5	1.7	ug/l
<b>Proprietary Pesticides</b>									

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Butylate	2	2	100%	2	36	550	1	1	ug/l
captan	1	2	50%	21	21	10	5	25	ug/l
Cycloate	2	2	100%	2	760	470	1	1	ug/l
EPTC	2	2	100%	57	1700	430	1	1	ug/l
flurochloridone	1	2	50%	2	2	260	1	5	ug/l
Molinate	1	2	50%	6300	6300	350	1	1	ug/l
Napropamide	2	2	100%	4	7	470	1	1	ug/l
Pebulate	2	2	100%	3	1000	230	1	1	ug/l
R25788	1	2	50%	52	52	6580	1	1	ug/l
R29148	1	2	50%	80	80	1030	1	1	ug/l
Vernolate	2	2	100%	4	210	30	1	1	ug/l
<b><u>Field Measurements and Physical Properties</u></b>									
Total Dissolved Solids	1	1	100%	850000	850000	NA	10000	10000	ug/l
<b><u>A02</u></b>									
<b><u>Metals</u></b>									
Barium	6	6	100%	19	65	40	10	10	ug/l
Beryllium	1	6	17%	5.7	5.7	6.6	2	2	ug/l
Cadmium	2	6	33%	17	42	93	5	5	ug/l
Cobalt	2	6	33%	63	110	230	20	20	ug/l
Copper	2	6	33%	210	2100	29	10	10	ug/l
Nickel	3	6	50%	31	1600	71	20	20	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Selenium	2	6	33%	6.5	8.3	710	5	5	ug/l
Zinc	5	6	83%	30	12000	580	20	200	ug/l
<b>pH</b>									
pH	6	6	100%	4.69	7.54	NA			SU
<b>VOCs</b>									
1,2-Dibromo-3-Chloropropane	1	5	20%	3.4	3.4	NA	0.5	67	ug/l
1,2-Dichlorobenzene	4	5	80%	1.1	4800	1290	0.5	17	ug/l
1,2-Dichloroethane	1	5	20%	0.5	0.5	9100	0.5	17	ug/l
1,3-Dichlorobenzene	1	5	20%	30	30	1290	0.5	17	ug/l
1,4-Dichlorobenzene	2	5	40%	2.6	370	1290	0.5	17	ug/l
Benzene	1	5	20%	18	18	5100	0.5	17	ug/l
Chlorobenzene	2	5	40%	1.1	11	1290	0.5	17	ug/l
Chloroform	2	5	40%	2.2	3.9	64000	0.5	17	ug/l
cis-1,2-Dichloroethene	1	5	20%	0.8	0.8	5900	0.5	17	ug/l
Tetrachloroethene	1	5	20%	62	62	4500	0.5	17	ug/l
Trichloroethene	1	5	20%	3.2	3.2	2000	0.5	17	ug/l
<b>Semivolatiles</b>									
4-Chloro-3-methylphenol	1	4	25%	37	37	NA	9.4	270	ug/l
<b>Proprietary Pesticides</b>									
Butylate	2	5	40%	60	310	550	1	1	ug/l
Cycloate	3	5	60%	5	280	470	1	1	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
EPTC	4	5	80%	35	3700	430	1	1	ug/l
flurochloridone	1	5	20%	2	2	260	1	5	ug/l
Fonofos	1	5	20%	1	1	0.7	1	1	ug/l
Metam sodium	1	3	33%	18	18	300	9	9	ug/l
Molinate	4	5	80%	22	1500	350	1	1	ug/l
Napropamide	1	5	20%	4	4	470	1	1	ug/l
Pebulate	4	5	80%	5	590	230	1	1	ug/l
R25788	3	5	60%	1	1	6580	1	1	ug/l
R29148	2	5	40%	2	4	1030	1	1	ug/l
Vernolate	2	5	40%	3	140	30	1	1	ug/l
<b><u>A03</u></b>									
<b><u>Metals</u></b>									
Arsenic	4	5	80%	5	120	360	5	5	ug/l
Barium	5	5	100%	18	29	40	10	10	ug/l
Beryllium	4	5	80%	3	3.9	6.6	2	2	ug/l
Cadmium	5	5	100%	18	490	93	5	5	ug/l
Chromium	1	5	20%	13	13	500	10	10	ug/l
Cobalt	5	5	100%	81	510	230	20	20	ug/l
Copper	5	5	100%	450	85000	29	10	2000	ug/l
Lead	4	5	80%	4.6	49	56	3	3	ug/l
Mercury	2	5	40%	0.58	0.67	0.25	0.2	0.2	ug/l



**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Nickel	5	5	100%	160	1100	71	20	20	ug/l
Thallium	2	5	40%	5.7	9.9	2130	5	5	ug/l
Zinc	5	5	100%	3900	170000	580	20	4000	ug/l
<b>pH</b>									
pH	5	5	100%	4.06	6.09	NA			SU
<b>VOCs</b>									
1,1,2-Trichloroethane	1	6	17%	0.7	0.7	12000	0.5	200	ug/l
1,1-Dichloroethene	1	6	17%	2.2	2.2	250	0.5	200	ug/l
1,2,3-Trichloropropane	1	5	20%	1.9	1.9	NA	0.5	200	ug/l
1,2,4-Trimethylbenzene	1	5	20%	8.2	8.2	NA	0.5	200	ug/l
1,2-Dichlorobenzene	3	6	50%	6.6	110	1290	0.5	200	ug/l
1,2-Dichloroethane	2	6	33%	44	65	9100	0.5	200	ug/l
1,3,5-Trimethylbenzene	1	5	20%	2	2	NA	0.5	200	ug/l
1,4-Dichlorobenzene	3	6	50%	8.9	78	1290	0.5	200	ug/l
Benzene	4	6	67%	46	190	5100	0.5	200	ug/l
Carbon Disulfide	1	6	17%	0.7	0.7	9.2	0.5	800	ug/l
Chlorobenzene	6	6	100%	720	75000	1290	5	200	ug/l
Chloroethane	1	6	17%	1.2	1.2	NA	1	400	ug/l
Chloroform	2	6	33%	2.4	5.4	64000	0.5	200	ug/l
cis-1,2-Dichloroethene	3	6	50%	6.3	21	5900	0.5	200	ug/l
Ethylbenzene	1	6	17%	2.5	2.5	430	0.5	200	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Isopropylbenzene	1	5	20%	2.4	2.4	NA	0.5	200	ug/l
m,p-Xylenes	1	6	17%	8.4	8.4	130	0.5	200	ug/l
MTBE	1	6	17%	6	6	NA	0.5	200	ug/l
n-Butylbenzene	1	5	20%	1.6	1.6	NA	0.5	200	ug/l
Naphthalene	1	5	20%	34	34	2350	0.5	200	ug/l
o-Xylene	1	6	17%	10	10	130	0.5	200	ug/l
Propylbenzene	1	5	20%	3.1	3.1	NA	0.5	200	ug/l
sec-Butylbenzene	1	5	20%	1.6	1.6	NA	0.5	200	ug/l
Tetrachloroethene	5	6	83%	20	100	4500	0.5	200	ug/l
Toluene	1	6	17%	2.5	2.5	50000	0.5	200	ug/l
trans-1,2-Dichloroethene	1	6	17%	1.2	1.2	5900	0.5	200	ug/l
Trichloroethene	4	6	67%	26	990	2000	0.5	200	ug/l
Vinyl Chloride	2	6	33%	3.3	5.3	7820	0.5	200	ug/l
<b><u>Semivolatiles</u></b>									
2,4-Dichlorophenol	1	3	33%	15	15	NA	10	21	ug/l
2-Chlorophenol	2	3	67%	300	370	NA	10	21	ug/l
Phenol	2	3	67%	11	25	1100	10	21	ug/l
<b><u>Pesticides/PCBs</u></b>									
4,4'-DDD	2	3	67%	13	14	1.3	0.1	20	ug/l
4,4'-DDT	1	3	33%	19	19	1.3	0.1	20	ug/l
Alpha-BHC	1	3	33%	9.4	9.4	NA	0.1	10	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Endosulfan II	1	2	50%	12	12	NA	19	20	ug/l
Gamma-BHC	1	3	33%	6.7	6.7	1.6	0.1	10	ug/l
<b><u>Proprietary Pesticides</u></b>									
Butylate	1	4	25%	2	2	550	1	1	ug/l
captan	1	4	25%	32	32	10	5	25	ug/l
carbophenothion	1	4	25%	3	3	6	1	1	ug/l
Cycloate	1	4	25%	3	3	470	1	1	ug/l
EPTC	3	4	75%	31	58	430	1	1	ug/l
flurochloridone	2	4	50%	5	5	260	1	5	ug/l
Metam sodium	2	3	67%	190	390	300	9	44	ug/l
Molinate	4	4	100%	1	43	350	1	1	ug/l
Napropamide	3	4	75%	5	22	470	1	1	ug/l
Pebulate	1	4	25%	15	15	230	1	1	ug/l
R25788	1	4	25%	2	2	6580	1	1	ug/l
Vernolate	3	4	75%	2	210	30	1	1	ug/l
<b><u>A04</u></b>									
<b><u>Metals</u></b>									
Arsenic	4	6	67%	5.1	21	360	5	5	ug/l
Barium	6	6	100%	10	52	40	10	10	ug/l
Beryllium	4	6	67%	3.6	32	6.6	2	2	ug/l
Cadmium	5	6	83%	13	260	93	5	5	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Chromium	3	6	50%	15	47	500	10	10	ug/l
Cobalt	5	6	83%	210	2500	230	20	20	ug/l
Copper	4	6	67%	1900	41000	29	10	200	ug/l
Lead	5	6	83%	6.8	840	56	3	3	ug/l
Mercury	2	6	33%	0.25	0.62	0.25	0.2	0.2	ug/l
Nickel	6	6	100%	110	5400	71	20	20	ug/l
Selenium	4	6	67%	32	49	710	5	5	ug/l
Silver	1	6	17%	9.8	9.8	23	5	5	ug/l
Thallium	3	6	50%	21	110	2130	5	5	ug/l
Vanadium	2	6	33%	13	120	200	10	10	ug/l
Zinc	6	6	100%	60	64000	580	20	2000	ug/l
<b>pH</b>									
pH	7	7	100%	3.2	6.71	NA	1	1	SU
<b>VOCs</b>									
1,1,2,2-Tetrachloroethane	2	6	33%	17	120	6100	1	250	ug/l
1,1,2-Trichloroethane	1	6	17%	4.9	4.9	12000	1	250	ug/l
1,2,4-Trimethylbenzene	1	5	20%	310	310	NA	1	250	ug/l
1,2-Dichlorobenzene	1	6	17%	2.5	2.5	1290	1	250	ug/l
1,2-Dichloroethane	2	6	33%	2.8	40	9100	1	250	ug/l
1,3,5-Trimethylbenzene	1	5	20%	100	100	NA	1	250	ug/l
1,4-Dichlorobenzene	1	6	17%	3.3	3.3	1290	1	250	ug/l

**Table 2d**  
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**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Benzene	4	6	67%	14	62	5100	1	250	ug/l
Carbon Disulfide	2	6	33%	9.8	68000	9.2	1.7	1000	ug/l
Carbon Tetrachloride	2	6	33%	13	100	64000	1	250	ug/l
Chlorobenzene	5	6	83%	6	10000	1290	1	250	ug/l
Chloroform	5	6	83%	3.4	3400	64000	1	250	ug/l
cis-1,2-Dichloroethene	2	6	33%	3.9	83	5900	1	250	ug/l
Ethylbenzene	1	6	17%	64	64	430	1	250	ug/l
Isopropylbenzene	1	5	20%	7.9	7.9	NA	1	250	ug/l
m,p-Xylenes	1	6	17%	280	280	130	1	250	ug/l
n-Butylbenzene	1	5	20%	35	35	NA	1	250	ug/l
Naphthalene	2	5	40%	1.9	75	2350	1	250	ug/l
o-Xylene	1	6	17%	120	120	130	1	250	ug/l
para-Isopropyl Toluene	1	5	20%	3.9	3.9	NA	1	250	ug/l
Propylbenzene	1	5	20%	35	35	NA	1	250	ug/l
sec-Butylbenzene	1	5	20%	4.9	4.9	NA	1	250	ug/l
Tetrachloroethene	4	6	67%	1.4	500	4500	1	250	ug/l
Toluene	1	6	17%	100	100	50000	1	250	ug/l
trans-1,2-Dichloroethene	1	6	17%	3.3	3.3	5900	1	250	ug/l
Trichloroethene	4	6	67%	12	290	2000	1	250	ug/l
Vinyl Chloride	1	6	17%	4.5	4.5	7820	1	250	ug/l

**Semivolatiles**

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
2-Chlorophenol	1	4	25%	46	46	NA	9.5	48	ug/l
2-Methylnaphthalene	1	4	25%	50	50	NA	9.5	48	ug/l
<b><u>Proprietary Pesticides</u></b>									
Butylate	1	4	25%	1	1	550	1	1	ug/l
Cycloate	1	4	25%	1	1	470	1	1	ug/l
EPTC	1	4	25%	1	1	430	1	1	ug/l
flurochloridone	1	4	25%	4	4	260	1	5	ug/l
Metam sodium	3	4	75%	10	480000	300	9	9	ug/l
Molinate	1	4	25%	19	19	350	1	1	ug/l
Napropamide	2	4	50%	2	3	470	1	1	ug/l
Pebulate	1	4	25%	9	9	230	1	1	ug/l
R29148	1	4	25%	6	6	1030	1	1	ug/l
Vernolate	1	4	25%	5	5	30	1	1	ug/l
<b><u>Field Measurements and Physical Properties</u></b>									
Total Dissolved Solids	1	1	100%	2910000	2910000	NA	10000	10000	ug/l
<b><u>A05</u></b>									
<b><u>Metals</u></b>									
Arsenic	2	4	50%	5	12	360	5	5	ug/l
Barium	4	4	100%	28	61	40	10	10	ug/l
Cadmium	2	4	50%	6	11	93	5	5	ug/l
Cobalt	4	4	100%	37	310	230	20	20	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Copper	3	4	75%	12	63	29	10	10	ug/l
Lead	1	4	25%	3.5	3.5	56	3	3	ug/l
Molybdenum	1	4	25%	27	27	3700	20	20	ug/l
Nickel	4	4	100%	68	200	71	20	20	ug/l
Selenium	3	4	75%	8.2	11	710	5	5	ug/l
Vanadium	1	4	25%	10	10	200	10	10	ug/l
Zinc	4	4	100%	43	170	580	20	20	ug/l
<b>pH</b>									
pH	5	5	100%	5.78	6.72	NA	1	1	SU
<b>VOCs</b>									
1,1,2-Trichloroethane	1	4	25%	1.5	1.5	12000	0.5	1	ug/l
1,1-Dichloroethene	3	4	75%	0.9	4.1	250	0.5	1	ug/l
1,2,4-Trimethylbenzene	1	4	25%	0.6	0.6	NA	0.5	1	ug/l
1,2-Dichlorobenzene	1	4	25%	0.8	0.8	1290	0.5	1	ug/l
1,2-Dichloroethane	4	4	100%	1.2	120	9100	0.5	1	ug/l
Acetone	1	4	25%	16	16	15000	10	20	ug/l
Benzene	3	4	75%	0.7	1.6	5100	0.5	1	ug/l
Carbon Disulfide	2	4	50%	1.4	130	9.2	1	2.9	ug/l
Carbon Tetrachloride	1	4	25%	84	84	64000	0.5	1	ug/l
Chlorobenzene	4	4	100%	1.6	87	1290	0.5	1	ug/l
Chloroform	1	4	25%	140	140	64000	0.5	1	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
cis-1,2-Dichloroethene	4	4	100%	1.8	5	5900	0.5	1	ug/l
m,p-Xylenes	1	4	25%	0.5	0.5	130	0.5	1	ug/l
Methylene Chloride	1	4	25%	22	22	6400	10	14	ug/l
Naphthalene	1	4	25%	0.5	0.5	2350	0.5	1	ug/l
Tetrachloroethene	3	4	75%	2.2	4.7	4500	0.5	1	ug/l
Trichloroethene	4	4	100%	31	240	2000	0.5	1	ug/l
Vinyl Chloride	3	4	75%	4.8	9.5	7820	0.5	1	ug/l
<b><u>Proprietary Pesticides</u></b>									
EPTC	2	4	50%	1	34	430	1	1	ug/l
flurochloridone	1	4	25%	10	10	260	1	5	ug/l
Metam sodium	1	4	25%	18	18	300	9	9	ug/l
<b><u>Field Measurements and Physical Properties</u></b>									
Total Dissolved Solids	1	1	100%	5880000	5880000	NA	12000	12000	ug/l
<b><u>A06</u></b>									
<b><u>Metals</u></b>									
Arsenic	5	16	31%	18	60	360	5	5	ug/l
Barium	16	16	100%	15	120	40	10	10	ug/l
Beryllium	3	16	19%	2.2	57	6.6	2	2	ug/l
Cadmium	7	16	44%	9	470	93	5	5	ug/l
Chromium	3	16	19%	11	54	500	10	10	ug/l
Cobalt	8	16	50%	43	4200	230	20	20	ug/l



**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Copper	6	16	38%	190	380000	29	10	200	ug/l
Lead	8	16	50%	3.2	35	56	3	3	ug/l
Mercury	1	16	6%	8.7	8.7	0.25	0.2	0.2	ug/l
Nickel	10	16	63%	21	5400	71	20	20	ug/l
Selenium	10	16	63%	5.2	42	710	5	5	ug/l
Silver	1	16	6%	5.6	5.6	23	5	5	ug/l
Thallium	2	16	13%	91	130	2130	5	5	ug/l
Vanadium	1	16	6%	180	180	200	10	10	ug/l
Zinc	13	16	81%	29	240000	580	20	4000	ug/l
<b>pH</b>									
pH	21	21	100%	2.86	7.79	NA	1	1	SU
<b>VOCs</b>									
1,1,2,2-Tetrachloroethane	1	16	6%	24	24	6100	0.5	5000	ug/l
1,1,2-Trichloroethane	2	16	13%	0.7	1.4	12000	0.5	5000	ug/l
1,2,4-Trimethylbenzene	2	15	13%	1.4	50	NA	0.5	5000	ug/l
1,2-Dichlorobenzene	3	16	19%	1.5	2100	1290	0.5	5000	ug/l
1,2-Dichloroethane	8	16	50%	1.7	170	9100	0.5	5000	ug/l
1,3,5-Trimethylbenzene	1	15	7%	13	13	NA	0.5	5000	ug/l
1,3-Dichlorobenzene	1	16	6%	7	7	1290	0.5	5000	ug/l
1,4-Dichlorobenzene	3	16	19%	0.9	34	1290	0.5	5000	ug/l
Acetone	5	15	33%	11	170	15000	10	100000	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Benzene	7	16	44%	0.8	310	5100	0.5	5000	ug/l
Bromomethane	1	16	6%	1.7	1.7	64000	1	10000	ug/l
Carbon Disulfide	3	16	19%	5.6	1800000	9.2	0.5	20000	ug/l
Chlorobenzene	8	16	50%	15	3100	1290	0.5	5000	ug/l
Chloroform	4	16	25%	1.1	32	64000	0.5	5000	ug/l
cis-1,2-Dichloroethene	8	16	50%	0.6	310	5900	0.5	5000	ug/l
Ethylbenzene	2	16	13%	1.5	60	430	0.5	5000	ug/l
Isopropylbenzene	1	15	7%	5	5	NA	0.5	5000	ug/l
m,p-Xylenes	4	16	25%	0.5	200	130	0.5	5000	ug/l
n-Butylbenzene	1	15	7%	3.1	3.1	NA	0.5	5000	ug/l
Naphthalene	3	15	20%	0.8	57	2350	0.5	5000	ug/l
o-Xylene	2	16	13%	14	91	130	0.5	5000	ug/l
Propylbenzene	2	15	13%	6.5	7.2	NA	0.5	5000	ug/l
sec-Butylbenzene	1	15	7%	2.9	2.9	NA	0.5	5000	ug/l
Tetrachloroethene	8	16	50%	5	69	4500	0.5	5000	ug/l
Toluene	2	16	13%	1.1	410	50000	0.5	5000	ug/l
Trichloroethene	10	16	63%	2.1	240	2000	0.5	5000	ug/l
Vinyl Chloride	4	16	25%	2.3	54	7820	0.5	5000	ug/l
<b><u>Semivolatiles</u></b>									
2-Chlorophenol	1	15	7%	39	39	NA	9.4	110	ug/l
2-Methylnaphthalene	2	15	13%	6.2	170	NA	9.4	110	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
3-,4-Methylphenol	2	15	13%	5.4	6.4	NA	9.4	110	ug/l
Benzoic acid	1	15	7%	66	66	420	47	530	ug/l
bis(2-Ethylhexyl)phthalate	3	15	20%	15	160	59	9.4	110	ug/l
Fluoranthene	1	15	7%	7.2	7.2	160	9.4	110	ug/l
Phenanthrene	2	15	13%	14	15	300	9.4	110	ug/l
Phenol	1	15	7%	15	15	1100	9.4	110	ug/l
Pyrene	1	15	7%	5.3	5.3	300	9.4	110	ug/l
<b><u>Pesticides/PCBs</u></b>									
4,4'-DDD	1	13	8%	0.2	0.2	1.3	0.09	1	ug/l
4,4'-DDT	1	13	8%	0.1	0.1	1.3	0.09	1	ug/l
alpha-BHC	3	13	23%	0.08	1.8	NA	0.05	0.5	ug/l
beta-BHC	1	13	8%	0.04	0.04	NA	0.05	0.5	ug/l
delta-BHC	2	13	15%	0.04	0.04	NA	0.05	0.5	ug/l
Endrin	1	13	8%	0.08	0.08	0.61	0.09	1	ug/l
gamma-BHC	2	13	15%	0.04	0.5	1.6	0.05	0.5	ug/l
Heptachlor	1	13	8%	0.03	0.03	0.53	0.05	0.5	ug/l
Heptachlor epoxide A	1	10	10%	0.04	0.04	NA	0.05	0.5	ug/l
Heptachlor epoxide B	1	10	10%	0.06	0.06	NA	0.05	0.5	ug/l
<b><u>Proprietary Pesticides</u></b>									
Butylate	1	14	7%	8	8	550	1	1	ug/l
captan	1	14	7%	5	5	10	5	25	ug/l

**Table 2d**  
**Frequency and Concentration Ranges for Plant Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
carbophenothion	1	14	7%	3	3	6	1	1	ug/l
Cycloate	1	14	7%	8	8	470	1	1	ug/l
EPTC	4	14	29%	8	43	430	1	1	ug/l
flurochloridone	1	14	7%	2	2	260	1	5	ug/l
Metam sodium	4	9	44%	15	5400	300	9	44	ug/l
Molinate	7	14	50%	1	39	350	1	1	ug/l
Napropamide	3	14	21%	2	600	470	1	1	ug/l
Pebulate	1	14	7%	1	1	230	1	1	ug/l
R29148	1	14	7%	2	2	1030	1	1	ug/l
<b><u>Field Measurements and Physical Properties</u></b>									
Total Dissolved Solids	4	4	100%	1640000	13500000	NA	10000	50000	ug/l

**Notes**

NA = Not available.

Only detected analytes shown.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 2e**  
**Frequency and Concentration Ranges for Open Space Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b>OS: lagoon</b>										
<b><u>Metals</u></b>										
Antimony	Surface	1	7	14%	3.8	3.8	NA	2.9	3	mg/kg
Arsenic	Surface	7	7	100%	6.3	17	70	0.24	0.25	mg/kg
Barium	Surface	7	7	100%	11	60	NA	0.48	0.5	mg/kg
Cadmium	Surface	7	7	100%	2	5.2	9.6	0.24	0.25	mg/kg
Chromium	Surface	7	7	100%	12	46	370	0.48	0.5	mg/kg
Cobalt	Surface	7	7	100%	4.3	9	NA	0.97	1	mg/kg
Copper	Surface	7	7	100%	170	1300	270	0.48	9.8	mg/kg
Lead	Surface	7	7	100%	27	310	218	0.14	0.15	mg/kg
Mercury	Surface	7	7	100%	0.69	3.2	0.71	0.039	0.077	mg/kg
Molybdenum	Surface	3	7	43%	1.1	11	NA	0.97	1	mg/kg
Nickel	Surface	7	7	100%	13	40	51.6	0.97	1	mg/kg
Selenium	Surface	7	7	100%	1.2	4.5	NA	0.24	0.25	mg/kg
Silver	Surface	1	7	14%	1.9	1.9	3.7	0.48	0.5	mg/kg
Thallium	Surface	2	7	29%	0.27	0.27	NA	0.24	0.25	mg/kg
Vanadium	Surface	7	7	100%	6.6	16	NA	0.48	0.5	mg/kg
Zinc	Surface	7	7	100%	480	1300	410	19	20	mg/kg
<b><u>pH</u></b>										
pH	Surface	7	7	100%	7	8.2	NA	1	1	SU
<b><u>VOCs</u></b>										

**Table 2e**  
**Frequency and Concentration Ranges for Open Space Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
2-Butanone	Surface	2	7	29%	0.012	0.019	0.27	0.0093	0.011	mg/kg
Acetone	Surface	5	7	71%	0.028	0.071	NA	0.019	0.021	mg/kg
Carbon Disulfide	Surface	1	7	14%	0.0029	0.0029	NA	0.0046	0.0053	mg/kg
<b><u>Semivolatiles</u></b>										
bis(2-Ethylhexyl)phthalate	Surface	2	7	29%	0.48	0.92	2.7	0.33	0.67	mg/kg
Pyrene	Surface	1	7	14%	0.34	0.34	2.6	0.33	0.67	mg/kg
<b><u>Pesticides/PCBs</u></b>										
4,4'-DDD	Surface	3	7	43%	0.033	0.87	0.42	0.025	0.5	mg/kg
4,4'-DDE	Surface	7	7	100%	0.047	1.1	0.42	0.025	0.5	mg/kg
<b><u>Proprietary Pesticides</u></b>										
bensulide	Surface	5	7	71%	0.21	17.1	NA	0.1	0.1	mg/kg
Butylate	Surface	7	7	100%	0.02	1.18	NA	0.01	0.01	mg/kg
captan	Surface	1	7	14%	0.42	0.42	NA	0.25	0.25	mg/kg
Carbophenothion	Surface	6	7	86%	0.01	0.1	NA	0.01	0.01	mg/kg
Cycloate	Surface	5	7	71%	0.03	0.26	NA	0.01	0.01	mg/kg
EPTC	Surface	6	7	86%	0.01	0.31	NA	0.01	0.01	mg/kg
Flurochloridone	Surface	5	7	71%	0.02	0.19	NA	0.01	0.01	mg/kg
Fonofos	Surface	7	7	100%	0.01	0.16	NA	0.01	0.01	mg/kg
Molinate	Surface	6	7	86%	0.01	0.14	NA	0.01	0.01	mg/kg
Napropamide	Surface	7	7	100%	0.01	5.41	NA	0.01	0.01	mg/kg
Pebulate	Surface	6	7	86%	0.01	0.29	NA	0.01	0.01	mg/kg

**Table 2e**  
**Frequency and Concentration Ranges for Open Space Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
phosmet	Surface	1	7	14%	0.05	0.05	NA	0.05	0.05	mg/kg
R25788	Surface	5	7	71%	0.01	0.03	NA	0.01	0.01	mg/kg
R29148	Surface	1	7	14%	0.02	0.02	NA	0.01	0.01	mg/kg
Vernolate	Surface	6	7	86%	0.01	0.24	NA	0.01	0.01	mg/kg
<b><u>OS: non-lagoon</u></b>										
<b><u>Metals</u></b>										
Antimony	Subsurface	1	11	9%	3	3	820	2.9	60	mg/kg
Arsenic	Surface	5	5	100%	3.6	160	27	0.25	0.25	mg/kg
	Subsurface	11	11	100%	3.5	440	27	0.24	0.25	mg/kg
Barium	Surface	5	5	100%	27	180	100000	0.49	0.5	mg/kg
	Subsurface	11	11	100%	18	1700	100000	0.48	10	mg/kg
Beryllium	Surface	5	5	100%	0.24	0.4	22000	0.098	0.1	mg/kg
	Subsurface	7	11	64%	0.12	0.47	22000	0.095	2	mg/kg
Cadmium	Surface	5	5	100%	0.33	2.4	810	0.25	0.25	mg/kg
	Subsurface	4	11	36%	0.91	5.9	810	0.24	5	mg/kg
Chromium	Surface	5	5	100%	26	70	450	0.49	0.5	mg/kg
	Subsurface	10	11	91%	0.55	52	450	0.48	0.5	mg/kg
Cobalt	Surface	5	5	100%	5	15	100000	0.98	1	mg/kg
	Subsurface	8	11	73%	1.5	9.5	100000	0.95	20	mg/kg
Copper	Surface	5	5	100%	29	190	5300	0.49	0.5	mg/kg
	Subsurface	11	11	100%	7.6	1200	5300	0.48	9.6	mg/kg
Lead	Surface	5	5	100%	53	110	1000	0.15	0.15	mg/kg
	Subsurface	11	11	100%	5.4	400	1000	0.14	3	mg/kg

**Table 2e**  
**Frequency and Concentration Ranges for Open Space Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Mercury	Surface	5	5	100%	0.071	3.9	610	0.04	0.08	mg/kg
	Subsurface	11	11	100%	0.24	4.7	610	0.038	0.18	mg/kg
Molybdenum	Surface	2	5	40%	1	1.6	10000	0.98	1	mg/kg
	Subsurface	6	11	55%	1.3	4.3	10000	0.95	1	mg/kg
Nickel	Surface	5	5	100%	30	53	41000	0.98	1	mg/kg
	Subsurface	7	11	64%	8	50	41000	0.95	20	mg/kg
Selenium	Surface	3	5	60%	0.28	7.1	10000	0.25	0.25	mg/kg
	Subsurface	5	11	45%	0.53	2.5	10000	0.24	5	mg/kg
Silver	Surface	1	5	20%	0.56	0.56	10000	0.49	0.5	mg/kg
	Subsurface	6	11	55%	1.4	24	10000	0.48	0.5	mg/kg
Thallium	Surface	4	5	80%	0.33	1	140	0.25	0.25	mg/kg
	Subsurface	6	11	55%	0.41	6.3	140	0.24	5	mg/kg
Vanadium	Surface	5	5	100%	22	30	14000	0.49	0.5	mg/kg
	Subsurface	11	11	100%	1.9	36	14000	0.48	10	mg/kg
Zinc	Surface	5	5	100%	56	510	100000	0.98	20	mg/kg
	Subsurface	10	11	91%	52	710	100000	0.96	20	mg/kg
<b>pH</b>										
pH	Surface	5	5	100%	7.1	8	NA	1	1	SU
	Subsurface	11	11	100%	2.6	8.1	NA	1	1	SU
<b>VOCs</b>										
1,1,2,2-Tetrachloroethane	Subsurface	1	11	9%	0.01	0.01	9	0.0047	0.0053	mg/kg
1,2-Dichloroethane	Subsurface	1	11	9%	0.0027	0.0027	7.6	0.0047	0.0053	mg/kg
Acetone	Surface	1	5	20%	0.037	0.037	NA	0.019	0.021	mg/kg



**Table 2e**  
**Frequency and Concentration Ranges for Open Space Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Benzene	Subsurface	1	11	9%	0.0046	0.0046	15	0.0047	0.0053	mg/kg
Carbon Disulfide	Subsurface	1	11	9%	0.0032	0.0032	NA	0.0047	0.0053	mg/kg
Chlorobenzene	Subsurface	1	11	9%	0.0057	0.0057	540	0.0047	0.0053	mg/kg
Methylene Chloride	Surface	1	5	20%	0.028	0.028	210	0.019	0.021	mg/kg
Tetrachloroethene	Subsurface	2	11	18%	0.0056	0.015	190	0.0047	0.0053	mg/kg
<b><u>Semivolatiles</u></b>										
Benzo(b,k)fluoranthene	Surface	1	5	20%	0.18	0.18	29	0.33	3.3	mg/kg
Benzo(g,h,i)perylene	Surface	1	5	20%	0.18	0.18	NA	0.33	3.3	mg/kg
bis(2-Ethylhexyl)phthalate	Surface	1	5	20%	1.7	1.7	1800	0.33	3.3	mg/kg
Indeno(1,2,3-cd)pyrene	Surface	1	5	20%	0.18	0.18	29	0.33	3.3	mg/kg
<b><u>Pesticides/PCBs</u></b>										
4,4'-DDD	Surface	1	5	20%	0.0082	0.0082	170	0.005	0.06	mg/kg
	Subsurface	4	11	36%	0.0093	0.061	170	0.005	0.05	mg/kg
4,4'-DDE	Surface	1	5	20%	0.013	0.013	120	0.005	0.06	mg/kg
	Subsurface	2	11	18%	0.0069	0.0074	120	0.005	0.05	mg/kg
4,4'-DDT	Surface	3	5	60%	0.0083	0.073	120	0.005	0.06	mg/kg
	Subsurface	4	11	36%	0.012	0.14	120	0.005	0.05	mg/kg
Alpha-BHC	Subsurface	1	11	9%	0.0059	0.0059	5.9	0.005	0.05	mg/kg
Beta-BHC	Subsurface	1	11	9%	0.012	0.012	21	0.005	0.05	mg/kg
<b><u>Proprietary Pesticides</u></b>										
bensulide	Subsurface	4	10	40%	0.1	3	NA	0.064	0.1	mg/kg
Butylate	Subsurface	1	11	9%	0.02	0.02	44000	0.01	0.01	mg/kg

**Table 2e**  
**Frequency and Concentration Ranges for Open Space Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
captan	Subsurface	1	10	10%	0.33	0.33	700	0.05	0.25	mg/kg
Carbophenothion	Surface	1	2	50%	0.09	0.09	NA	0.01	0.01	mg/kg
	Subsurface	7	11	64%	0.01	0.02	NA	0.01	0.01	mg/kg
Cycloate	Subsurface	1	11	9%	0.01	0.01	NA	0.01	0.01	mg/kg
EPTC	Subsurface	2	11	18%	0.02	0.03	22000	0.01	0.01	mg/kg
Flurochloridone	Surface	1	2	50%	0.01	0.01	NA	0.01	0.1	mg/kg
	Subsurface	3	11	27%	0.02	0.05	NA	0.01	0.03	mg/kg
Fonofos	Subsurface	2	11	18%	0.01	0.013	1800	0.01	0.01	mg/kg
Molinate	Subsurface	3	11	27%	0.01	0.03	1800	0.01	0.01	mg/kg
Napropamide	Subsurface	1	11	9%	0.17	0.17	88000	0.01	0.01	mg/kg
Pebulate	Subsurface	2	11	18%	0.01	0.01	44000	0.01	0.01	mg/kg
R25788	Subsurface	2	11	18%	0.01	0.01	NA	0.01	0.01	mg/kg
R29148	Subsurface	1	11	9%	0.01	0.01	NA	0.01	0.01	mg/kg
Vernolate	Subsurface	1	11	9%	0.01	0.01	880	0.01	0.01	mg/kg

**Table 2e**  
**Frequency and Concentration Ranges for Open Space Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	

**Notes**

NA = Not available.

Surface = 0 to 2 feet bgs; subsurface - below 2 feet bgs. Only detected analytes shown.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 2f**  
**Frequency and Concentration Ranges for Open Space Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b><u>OS: non-lagoon</u></b>									
<b><u>Metals</u></b>									
Arsenic	7	12	58%	19	960	360	5	5	ug/l
Barium	10	12	83%	13	57	40	10	10	ug/l
Beryllium	1	12	8%	2.9	2.9	6.6	2	2	ug/l
Cadmium	3	12	25%	22	280	93	5	5	ug/l
Chromium	2	12	17%	13	38	500	10	10	ug/l
Cobalt	4	12	33%	25	1100	230	20	20	ug/l
Copper	2	12	17%	46	4000	29	10	10	ug/l
Lead	4	12	33%	4	17	56	3	3	ug/l
Mercury	1	12	8%	0.21	0.21	0.25	0.2	0.2	ug/l
Molybdenum	1	12	8%	80	80	3700	20	20	ug/l
Nickel	4	12	33%	37	2800	71	20	20	ug/l
Selenium	3	12	25%	8.3	58	710	5	5	ug/l
Silver	2	12	17%	6	7.9	23	5	5	ug/l
Thallium	3	12	25%	6.8	190	2130	5	5	ug/l
Vanadium	3	12	25%	14	21	200	10	10	ug/l
Zinc	8	12	67%	32	23000	580	20	400	ug/l
<b><u>pH</u></b>									
pH	10	10	100%	5.04	7.21	NA	1	1	SU
<b><u>VOCs</u></b>									

**Table 2f**  
**Frequency and Concentration Ranges for Open Space Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
1,1,2,2-Tetrachloroethane	2	12	17%	1.8	5.3	6100	0.5	10	ug/l
1,2-Dichlorobenzene	2	12	17%	1	1.1	1290	0.5	10	ug/l
1,2-Dichloroethane	8	12	67%	1.1	85	9100	0.5	10	ug/l
1,2-Dichloropropane	1	12	8%	0.6	0.6	30400	0.5	10	ug/l
1,4-Dichlorobenzene	1	12	8%	1.7	1.7	1290	0.5	10	ug/l
Acetone	2	12	17%	14	15	15000	10	200	ug/l
Benzene	5	12	42%	1.3	19	5100	0.5	10	ug/l
Carbon Disulfide	7	12	58%	1.1	38	9.2	0.5	10	ug/l
Carbon Tetrachloride	1	12	8%	3.5	3.5	64000	0.5	10	ug/l
Chlorobenzene	7	12	58%	0.5	3500	1290	0.5	10	ug/l
Chloroform	5	12	42%	3.8	77	64000	0.5	10	ug/l
cis-1,2-Dichloroethene	3	12	25%	0.8	2.2	5900	0.5	10	ug/l
Naphthalene	1	12	8%	1	1	2350	0.5	10	ug/l
Tetrachloroethene	4	12	33%	1.7	540	4500	0.5	10	ug/l
Toluene	1	12	8%	5.2	5.2	50000	0.5	10	ug/l
Trichloroethene	4	12	33%	0.7	280	2000	0.5	10	ug/l
Vinyl Chloride	1	12	8%	5.5	5.5	7820	0.5	10	ug/l
<b><u>Pesticides/PCBs</u></b>									
Alpha-BHC	2	11	18%	0.27	19	NA	0.1	12	ug/l
Beta-BHC	1	11	9%	0.14	0.14	NA	0.1	12	ug/l
Delta-BHC	2	11	18%	0.27	20	NA	0.1	12	ug/l

**Table 2f**  
**Frequency and Concentration Ranges for Open Space Area Water Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (µg/l)	Range of Analytical Reporting Limits		Units
				Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Gamma-BHC	1	11	9%	12	12	1.6	0.1	12	ug/l
<b><u>Proprietary Pesticides</u></b>									
captan	1	9	11%	25	25	10	5	36	ug/l
Cycloate	1	8	13%	2	2	470	1	1.4	ug/l
EPTC	4	8	50%	2	3800	430	1	1.4	ug/l
Fonofos	1	8	13%	3	3	0.7	1	1.4	ug/l
Molinate	2	8	25%	12	17	350	1	1.4	ug/l
Napropamide	4	8	50%	1	3	470	1	1.4	ug/l
Pebulate	2	8	25%	9	27	230	1	1.4	ug/l
Vernolate	2	8	25%	2	5	30	1	4	ug/l
<b><u>Field Measurements and Physical Properties</u></b>									
Total Dissolved Solids	3	3	100%	5950000	23400000	NA	14000	50000	ug/l

**Notes**

NA = Not available.

Only detected analytes shown.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 2g**  
**Frequency and Concentration Ranges for Marsh Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
<b>Marsh</b>										
<b>Metals</b>										
Aluminum	Surface	36	36	100%	1970	64700	NA	10	20	mg/kg
	Subsurface	5	5	100%	11500	24100	NA	10	10	mg/kg
Antimony	Surface	30	36	83%	0.03	41.4	NA	0.02	0.1	mg/kg
	Subsurface	5	5	100%	0.18	0.92	NA	0.02	0.02	mg/kg
Arsenic	Surface	36	36	100%	11.5	771	70	0.5	2	mg/kg
	Subsurface	5	5	100%	12.9	220	70	0.5	0.5	mg/kg
Cadmium	Surface	36	36	100%	0.2	29	9.6	0.02	0.1	mg/kg
	Subsurface	5	5	100%	0.43	3.35	9.6	0.02	0.02	mg/kg
Chromium	Surface	36	36	100%	10	146	370	0.2	4	mg/kg
	Subsurface	5	5	100%	25.9	92.9	370	0.2	0.2	mg/kg
Copper	Surface	36	36	100%	20	5390	270	0.1	4	mg/kg
	Subsurface	5	5	100%	38	500	270	0.1	0.1	mg/kg
Lead	Surface	36	36	100%	3.4	818	218	0.02	0.1	mg/kg
	Subsurface	4	5	80%	53	182	218	0.02	0.02	mg/kg
Mercury	Surface	32	36	89%	0.3	72.9	0.71	0.1	0.2	mg/kg
	Subsurface	5	5	100%	1.1	11.5	0.71	0.1	0.1	mg/kg
Nickel	Surface	36	36	100%	2	115	51.6	0.2	1	mg/kg
	Subsurface	5	5	100%	33.8	66	51.6	0.2	0.2	mg/kg
Selenium	Surface	30	36	83%	2	352	NA	1	2	mg/kg
	Subsurface	4	5	80%	2	20	NA	1	1	mg/kg
Silver	Surface	31	36	86%	0.09	26.5	3.7	0.02	0.1	mg/kg

**Table 2g**  
**Frequency and Concentration Ranges for Marsh Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Silver	Subsurface	5	5	100%	0.1	1.07	3.7	0.02	0.02	mg/kg
Thallium	Surface	30	36	83%	0.1	1.74	NA	0.02	0.1	mg/kg
	Subsurface	5	5	100%	0.25	0.62	NA	0.02	0.02	mg/kg
Zinc	Surface	36	36	100%	159	6210	410	4	10	mg/kg
	Subsurface	5	5	100%	92	1280	410	10	10	mg/kg
<b><u>Pesticides/PCBs</u></b>										
a-BHC	Surface	21	30	70%	0.00046	0.14	120	0.00011	0.0041	mg/kg
	Subsurface	4	5	80%	0.00039	0.0017	120	0.00026	0.00026	mg/kg
a-chlordane	Surface	29	31	94%	0.00005	0.061	0.0048	0.00019	0.00025	mg/kg
	Subsurface	4	5	80%	0.00008	0.0028	0.0048	0.00009	0.00009	mg/kg
Aldrin	Surface	6	29	21%	0.00036	0.002	0.08	0.00003	0.013	mg/kg
b-BHC	Surface	13	31	42%	0.00054	0.037	120	0.00011	0.0053	mg/kg
	Subsurface	1	5	20%	0.00078	0.00078	120	0.00017	0.0015	mg/kg
d-BHC	Surface	15	28	54%	0.00014	0.018	120	0.00008	0.0034	mg/kg
	Subsurface	4	5	80%	0.00012	0.00045	120	0.0004	0.0004	mg/kg
Dieldrin	Surface	28	31	90%	0.00007	0.028	0.008	0.00003	0.0005	mg/kg
	Subsurface	4	5	80%	0.00014	0.0017	0.008	0.00004	0.00004	mg/kg
Endosulfan I	Surface	6	31	19%	0.00014	0.0097	0.0055	0.00003	0.0012	mg/kg
	Surface	6	31	19%	0.00014	0.0097	0.0055	0.00003	0.0012	mg/kg
Endosulfan II	Surface	9	31	29%	0.00033	0.0072	0.0055	0.00004	0.0014	mg/kg
	Surface	9	31	29%	0.00033	0.0072	0.0055	0.00004	0.0014	mg/kg
Endosulfan Sulfate	Surface	13	31	42%	0.00012	0.0072	NA	0.00005	0.0017	mg/kg
Endrin	Surface	9	31	29%	0.00008	0.00418	0.045	0.00008	0.0012	mg/kg



**Table 2g**  
**Frequency and Concentration Ranges for Marsh Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Endrin Aldehyde	Surface	2	31	6%	0.00025	0.00047	NA	0.00004	0.003	mg/kg
Endrin/ketone	Surface	11	31	35%	0.00005	0.0011	NA	0.00004	0.00254	mg/kg
g-BHC	Surface	11	22	50%	0.002	0.029	NA	0.00059	0.0071	mg/kg
g-chlordane	Surface	29	31	94%	0.00004	0.074	0.0048	0.00017	0.0002	mg/kg
	Subsurface	4	5	80%	0.00011	0.0062	0.0048	0.00009	0.00009	mg/kg
Heptachlor Epoxide	Surface	10	31	32%	0.0001	0.0014	NA	0.00002	0.0032	mg/kg
	Subsurface	1	5	20%	0.00008	0.00008	NA	0.00001	0.00009	mg/kg
Mirex	Surface	7	41	17%	0.00088	0.0026	1.3	0.00015	0.0047	mg/kg
p,p -DDD	Surface	29	30	97%	0.0004	1.8	0.42	0.091	0.091	mg/kg
	Subsurface	5	5	100%	0.00073	0.032	0.42			mg/kg
p,p -DDE	Surface	31	31	100%	0.0004	0.225	0.42			mg/kg
	Subsurface	5	5	100%	0.00017	0.011	0.42			mg/kg
p,p -DDT	Surface	29	31	94%	0.00023	0.45	0.42	0.00066	0.085	mg/kg
	Subsurface	5	5	100%	0.00038	0.015	0.42			mg/kg
PCB Total PCBsA	Surface	31	31	100%	0.00097	0.818	0.18			mg/kg
	Subsurface	5	5	100%	0.0021	0.04734	0.18			mg/kg
Toxaphene	Surface	19	31	61%	0.0011	68	NA	0.00018	0.0012	mg/kg
<b><u>Proprietary Pesticides</u></b>										
Bensulide	Surface	22	36	61%	0.027	4.485	NA	0.013	0.168	mg/kg
	Subsurface	2	5	40%	0.029	0.143	NA	0.014	0.021	mg/kg
Butylate	Surface	3	36	8%	0.016	0.427	NA	0.013	0.336	mg/kg
Captan	Surface	2	36	6%	0.353	0.887	NA	0.026	0.336	mg/kg
Carbophenothion	Surface	12	36	33%	0.022	0.493	NA	0.013	0.267	mg/kg

**Table 2g**  
**Frequency and Concentration Ranges for Marsh Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	
Cycloate	Surface	4	36	11%	0.024	0.332	NA	0.013	0.336	mg/kg
EPTC	Surface	23	36	64%	0.033	1.287	NA	0.013	0.336	mg/kg
	Subsurface	4	5	80%	0.021	0.151	NA	0.014	0.014	mg/kg
Flurochloridone	Surface	9	36	25%	0.02	0.122	NA	0.013	0.336	mg/kg
Fonofos	Surface	7	36	19%	0.018	0.733	NA	0.013	0.168	mg/kg
	Subsurface	1	5	20%	0.02	0.02	NA	0.014	0.022	mg/kg
Metam Sodium	Surface	1	36	3%	0.525	0.525	NA	0.119	1.5	mg/kg
Molinate	Surface	20	36	56%	0.017	2.327	NA	0.013	0.336	mg/kg
	Subsurface	1	5	20%	0.045	0.045	NA	0.014	0.021	mg/kg
Napropamide	Surface	16	36	44%	0.018	0.455	NA	0.013	0.336	mg/kg
	Subsurface	2	5	40%	0.029	0.042	NA	0.014	0.018	mg/kg
Pebulate	Surface	20	36	56%	0.022	6.831	NA	0.013	0.336	mg/kg
	Subsurface	2	5	40%	0.031	0.115	NA	0.015	0.021	mg/kg
R-25788	Surface	8	36	22%	0.018	0.674	NA	0.013	0.336	mg/kg
	Subsurface	1	5	20%	0.017	0.017	NA	0.015	0.022	mg/kg
Vernolate	Surface	6	36	17%	0.017	0.248	NA	0.013	0.336	mg/kg

**Table 2g**  
**Frequency and Concentration Ranges for Marsh Area Soil Samples**  
**Zeneca Richmond Facility, Richmond, California**

Analyte	Surface or Subsurface	Number of Detects	Number of Samples	Detection Frequency	Detects		Screening Criteria (mg/kg)	Range of Analytical Reporting Limits		Units
					Minimum Conc.	Maximum Conc.		Minimum	Maximum	

**Notes**

NA = Not available.

Surface = 0 to 2 feet bgs; subsurface - below 2 feet bgs. Only detected analytes shown.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	2.9 U	3 U		2.9 U	3 U		2.9 U	3 U		2.9 U
Arsenic (mg/kg)	32	2.2		2.9	2.8		3.3	40		1.3
Barium (mg/kg)	360	200		68	310		190	360		100
Beryllium (mg/kg)	0.2	0.56		0.42	0.37		0.33	0.3		0.31
Cadmium (mg/kg)	0.25	0.25 U		0.25 U	0.25 U		0.24 U	0.99		0.28
Chromium (mg/kg)	48	10		29	34		26	54		7.3
Cobalt (mg/kg)	4.6	9.3		10	10		16	9.8		4.9
Copper (mg/kg)	160	24		14	19		61	210		6.7
Lead (mg/kg)	50	9.1		5	5		6.5	140		5.4
Mercury (mg/kg)	0.84	0.64		0.073	0.066		0.11	1.1		0.14
Molybdenum (mg/kg)	2.5	0.99 U		0.98 U	1 U		0.98 U	1		0.95 U
Nickel (mg/kg)	21	18		75	46		19	36		9.8
Selenium (mg/kg)	0.37	0.25 U		0.25 U	0.25 U		0.24 U	0.25 U		0.24 U
Silver (mg/kg)	2.2	0.5 U		0.49 U	0.5 U		0.49 U	0.5 U		0.48 U
Thallium (mg/kg)	1.3	0.42		0.34	0.25 U		0.24 U	0.25 U		0.24 U
Vanadium (mg/kg)	36	15		21	27		25	44		11
Zinc (mg/kg)	170	64		23	38		67	340		22
<b>2. pH</b>										
pH (SU)	3.4	4.7		7	8.5		5.5	6.2		10
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,1,2-Trichloroethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,1-Dichloroethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,1-Dichloroethene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,1-Dichloropropene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,2,3-Trichlorobenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,2,3-Trichloropropane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,2,4-Trichlorobenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,2,4-Trimethylbenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,2-Dibromo-3-Chloropropane (mg/k	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,2-Dibromoethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,2-Dichlorobenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,2-Dichloroethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,2-Dichloropropane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,3,5-Trimethylbenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,3-Dichlorobenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
1,3-Dichloropropane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
1,4-Dichlorobenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
2,2-Dichloropropane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
2-Butanone (mg/kg)	0.01 U	0.01 U		0.0098 U	0.0093 U		0.0096 U	0.0096 U		
2-Chlorotoluene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
2-Hexanone (mg/kg)	0.01 U	0.01 U		0.0098 U	0.0093 U		0.0096 U	0.0096 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
4-Chlorotoluene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
4-Methyl-2-Pentanone (mg/kg)	0.01 U	0.01 U		0.0098 U	0.0093 U		0.0096 U	0.0096 U		
Acetone (mg/kg)	0.02 U	0.02 U		0.02 U	0.019 U		0.019 U	0.019 U		
Benzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Bromobenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
Bromochloromethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
Bromodichloromethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Bromoform (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0096 U
Bromomethane (mg/kg)	0.01 U	0.01 U		0.0098 U	0.0093 U		0.0096 U	0.0096 U		0.0096 U
Carbon Disulfide (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Carbon Tetrachloride (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Chlorobenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Chloroethane (mg/kg)	0.01 U	0.01 U		0.0098 U	0.0093 U		0.0096 U	0.0096 U		0.0096 U
Chloroform (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Chloromethane (mg/kg)	0.01 U	0.01 U		0.0098 U	0.0093 U		0.0096 U	0.0096 U		0.0096 U
cis-1,2-Dichloroethene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
cis-1,3-Dichloropropene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Dibromochloromethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Dibromomethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
Ethylbenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Freon 113 (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Freon 12 (mg/kg)	0.01 U	0.01 U		0.0098 U	0.0093 U		0.0096 U	0.0096 U		
Hexachlorobutadiene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
Isopropylbenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
m,p-Xylenes (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Methylene Chloride (mg/kg)	0.02 U	0.02 U		0.02 U	0.019 U		0.019 U	0.019 U		0.019 U
MTBE (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
n-Butylbenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
Naphthalene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
o-Xylene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
para-Isopropyl Toluene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
Propylbenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
sec-Butylbenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
Styrene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
tert-Butylbenzene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		
Tetrachloroethene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Toluene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
trans-1,2-Dichloroethene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
trans-1,3-Dichloropropene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Trichloroethene (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Trichlorofluoromethane (mg/kg)	0.005 U	0.005 U		0.0049 U	0.0046 U		0.0048 U	0.0048 U		0.0048 U
Vinyl Acetate (mg/kg)	0.05 U	0.05 U		0.049 U	0.046 U		0.048 U	0.048 U		
Vinyl Chloride (mg/kg)	0.01 U	0.01 U		0.0098 U	0.0093 U		0.0096 U	0.0096 U		0.0096 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)				0.33 U			0.33 U			0.33 U
2,4,6-Trichlorophenol (mg/kg)				0.33 U			0.33 U			0.33 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
2,4-Dichlorophenol (mg/kg)				0.33 U			0.33 U			0.33 U
2,4-Dimethylphenol (mg/kg)				0.33 U			0.33 U			0.33 U
2,4-Dinitrophenol (mg/kg)				1.7 U			1.7 U			1.7 U
2,4-Dinitrotoluene (mg/kg)				0.33 U			0.33 U			0.33 U
2,6-Dinitrotoluene (mg/kg)				0.33 U			0.33 U			0.33 U
2-Chloronaphthalene (mg/kg)				0.33 U			0.33 U			0.33 U
2-Chlorophenol (mg/kg)				0.33 U			0.33 U			0.33 U
2-Methylnaphthalene (mg/kg)				0.33 U			0.33 U			0.33 U
2-Methylphenol (mg/kg)				0.33 U			0.33 U			0.33 U
2-Nitroaniline (mg/kg)				1.7 U			1.7 U			1.7 U
2-Nitrophenol (mg/kg)				1.7 U			1.7 U			1.7 U
3,3'-Dichlorobenzidine (mg/kg)				1.7 U			1.7 U			1.7 U
3-,4-Methylphenol (mg/kg)				0.33 U			0.33 U			0.33 U
3-Nitroaniline (mg/kg)				1.7 U			1.7 U			1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)				1.7 U			1.7 U			1.7 U
4-Bromophenyl-phenylether (mg/kg)				0.33 U			0.33 U			0.33 U
4-Chloro-3-methylphenol (mg/kg)				0.33 U			0.33 U			0.33 U
4-Chloroaniline (mg/kg)				0.33 U			0.33 U			0.33 U
4-Chlorophenyl-phenylether (mg/kg)				0.33 U			0.33 U			0.33 U
4-Nitroaniline (mg/kg)				1.7 U			1.7 U			1.7 U
4-Nitrophenol (mg/kg)				1.7 U			1.7 U			1.7 U
Acenaphthene (mg/kg)				0.33 U			0.33 U			0.33 U
Acenaphthylene (mg/kg)				0.33 U			0.33 U			0.33 U



**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
Anthracene (mg/kg)				0.33 U			0.33 U			0.33 U
Azobenzene (mg/kg)				0.33 U			0.33 U			0.33 U
Benzo(a)anthracene (mg/kg)				0.33 U			0.33 U			0.33 U
Benzo(a)pyrene (mg/kg)				0.33 U			0.33 U			0.33 U
Benzo(b,k)fluoranthene (mg/kg)				0.33 U			0.33 U			0.33 U
Benzo(g,h,i)perylene (mg/kg)				0.33 U			0.33 U			0.33 U
Benzoic acid (mg/kg)				1.7 U			1.7 U			1.7 U
Benzyl alcohol (mg/kg)				0.33 U			0.33 U			0.33 U
bis(2-Chloroethoxy)methane (mg/kg)				0.33 U			0.33 U			0.33 U
bis(2-Chloroethyl)ether (mg/kg)				0.33 U			0.33 U			0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)				0.33 U			0.33 U			0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)				0.33 U			0.33 U			0.33 U
Butylbenzylphthalate (mg/kg)				0.33 U			0.33 U			0.33 U
Chrysene (mg/kg)				0.33 U			0.33 U			0.33 U
Di-n-butylphthalate (mg/kg)				0.33 U			0.33 U			0.33 U
Di-n-octylphthalate (mg/kg)				0.33 U			0.33 U			0.33 U
Dibenz(a,h)anthracene (mg/kg)				0.33 U			0.33 U			0.33 U
Dibenzofuran (mg/kg)				0.33 U			0.33 U			0.33 U
Diethylphthalate (mg/kg)				0.33 U			0.33 U			0.33 U
Dimethylphthalate (mg/kg)				0.33 U			0.33 U			0.33 U
Fluoranthene (mg/kg)				0.33 U			0.33 U			0.33 U
Fluorene (mg/kg)				0.33 U			0.33 U			0.33 U
Hexachlorobenzene (mg/kg)				0.33 U			0.33 U			0.33 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)				1.7 U			1.7 U			1.7 U
Hexachloroethane (mg/kg)				0.33 U			0.33 U			0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)				0.33 U			0.33 U			0.33 U
Isophorone (mg/kg)				0.33 U			0.33 U			0.33 U
N-Nitroso-di-n-propylamine (mg/kg)				0.33 U			0.33 U			0.33 U
N-Nitrosodimethylamine (mg/kg)				0.33 U			0.33 U			0.33 U
N-Nitrosodiphenylamine (mg/kg)				0.33 U			0.33 U			0.33 U
Nitrobenzene (mg/kg)				0.33 U			0.33 U			0.33 U
Pentachlorophenol (mg/kg)				1.7 U			1.7 U			1.7 U
Phenanthrene (mg/kg)				0.33 U			0.33 U			0.33 U
Phenol (mg/kg)				0.33 U			0.33 U			0.33 U
Pyrene (mg/kg)				0.33 U			0.33 U			0.33 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)				0.005 U			0.005 U			<b>0.1</b>
4,4'-DDE (mg/kg)				0.005 U			0.005 U			<b>0.14</b>
4,4'-DDT (mg/kg)				0.005 U			0.005 U			<b>0.12</b>
Aldrin (mg/kg)				0.005 U			0.005 U			0.05 U
Alpha-BHC (mg/kg)				0.005 U			0.005 U			0.05 U
Aroclor-1016 (mg/kg)							0.05 U			
Aroclor-1221 (mg/kg)							0.05 U			
Aroclor-1232 (mg/kg)							0.05 U			
Aroclor-1242 (mg/kg)							0.05 U			
Aroclor-1248 (mg/kg)							0.05 U			

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
Aroclor-1254 (mg/kg)							0.05 U			
Aroclor-1260 (mg/kg)							0.05 U			
Aroclor-1262 (mg/kg)							0.05 U			
Beta-BHC (mg/kg)				0.005 U			0.005 U			0.05 U
Chlordane (mg/kg)				0.05 U			0.05 U			0.5 U
Delta-BHC (mg/kg)				0.005 U			0.005 U			0.05 U
Dieldrin (mg/kg)				0.005 U			0.005 U			0.05 U
Endosulfan I (mg/kg)				0.005 U			0.005 U			0.05 U
Endosulfan II (mg/kg)				0.005 U			0.005 U			0.05 U
Endosulfan Sulfate (mg/kg)				0.005 U			0.005 U			0.05 U
Endrin (mg/kg)				0.005 U			0.005 U			0.05 U
Endrin Aldehyde (mg/kg)				0.005 U			0.005 U			0.05 U
Gamma-BHC (mg/kg)				0.005 U			0.005 U			0.05 U
Heptachlor (mg/kg)				0.005 U			0.005 U			0.05 U
Heptachlor Epoxide (mg/kg)				0.005 U			0.005 U			0.05 U
Methoxychlor (mg/kg)				0.005 U			0.005 U			0.05 U
Toxaphene (mg/kg)				0.05 U			0.05 U			0.5 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	<b>0.11</b>	0.064 U	0.064 U	0.064 U	0.064 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	<b>0.07</b>	0.25 U	0.25 U	0.05 U
Carbophenothion (mg/kg)	<b>0.01</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-66-1.5	H-66-3.5	H-66-6.5	H-67-1.5	H-67-3.5	H-67-6.5	H-69-1.5	H-69-3.5	H-69-6.0	WRC-01-1.5
Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/14/99	10/13/99	10/13/99	10/13/99	10/6/99
Horizon										
EPTC (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.03 U	0.03 U	0.01 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U		0.09 U	0.09 U
Molinate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.07</b>
Pebulate (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**7. Field Measurements and Physical Properties**

Total Organic Carbon (%) **0.05**

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01-3.5	WRC-02-1.5	WRC-02-3.5	WRC-03-1.5	WRC-03-3.5	WRC-04-1.5	WRC-04-3.5	WRC-04-6.5	WRC-05-1.5	WRC-05-3.5
Sample Date	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	3 U	3 U	2.8 U	2.9 U	3 U	3 U	3 U		5.2	3 U
Arsenic (mg/kg)	3.7	6.9	3.6	30	10	3.7	2.5		10	3.6
Barium (mg/kg)	110	130	97	160	210	210	150		340	160
Beryllium (mg/kg)	0.33	0.3	0.38	0.098 U	0.1 U	0.81	0.3		0.6	0.12
Cadmium (mg/kg)	0.25 U	0.51	0.6	0.6	0.42	1	0.27		3.9	0.45
Chromium (mg/kg)	34	66	53	8.5	35	34	24		100	36
Cobalt (mg/kg)	10	11	12	0.99	1.5	13	14		22	4.8
Copper (mg/kg)	10	39	27	61	38	18	16		7000	71
Lead (mg/kg)	5.3	22	4.8	13	25	33	5.2		390	7.5
Mercury (mg/kg)	0.04 U	0.22	0.052	0.67	0.037 U	0.46	0.044		38	2.9
Molybdenum (mg/kg)	0.99 U	2.3	0.95 U	1	1 U	0.99 U	0.99 U		5	1 U
Nickel (mg/kg)	24	130	55	17	9.2	41	18		130	19
Selenium (mg/kg)	0.25 U	0.25 U	0.24 U	3.8	0.25 U	0.25 U	0.25 U		0.24 U	0.25 U
Silver (mg/kg)	0.5 U	0.5 U	0.47 U	0.49 U	0.5 U	0.49 U	0.5 U		0.47 U	0.5 U
Thallium (mg/kg)	0.25 U	0.25 U	0.24 U	0.25 U	0.25 U	0.25 U	0.25 U		0.24 U	0.25 U
Vanadium (mg/kg)	30	30	36	4.7	36	33	21		58	38
Zinc (mg/kg)	14	78	100	47	20	68	36		300	40
<b>2. pH</b>										
pH (SU)	7.3	6	6.8	8.5	5.2	7.1	7.4		6	7.6
<b>3. VOCs</b>										
1,1,1-Trichloroethane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01-3.5	WRC-02-1.5	WRC-02-3.5	WRC-03-1.5	WRC-03-3.5	WRC-04-1.5	WRC-04-3.5	WRC-04-6.5	WRC-05-1.5	WRC-05-3.5
Sample Date	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99
Horizon										
1,1,2,2-Tetrachloroethane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
1,1,2-Trichloroethane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
1,1-Dichloroethane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
1,1-Dichloroethene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
1,2-Dichlorobenzene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
1,2-Dichloroethane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
1,2-Dichloropropane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
1,3-Dichlorobenzene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
1,4-Dichlorobenzene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Benzene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Bromodichloromethane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Bromoform (mg/kg)	0.0098 U	0.25 U	0.0094 U	1 U	170 U	0.0093 U	0.0098 U		1 U	10 U
Bromomethane (mg/kg)	0.0098 U	0.25 U	0.0094 U	1 U	170 U	0.0093 U	0.0098 U		1 U	10 U
Carbon Disulfide (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Carbon Tetrachloride (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Chlorobenzene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Chloroethane (mg/kg)	0.0098 U	0.25 U	0.0094 U	1 U	170 U	0.0093 U	0.0098 U		1 U	10 U
Chloroform (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Chloromethane (mg/kg)	0.0098 U	0.25 U	0.0094 U	1 U	170 U	0.0093 U	0.0098 U		1 U	10 U
cis-1,2-Dichloroethene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
cis-1,3-Dichloropropene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Dibromochloromethane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Ethylbenzene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		<b>1.1</b>	5 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01-3.5	WRC-02-1.5	WRC-02-3.5	WRC-03-1.5	WRC-03-3.5	WRC-04-1.5	WRC-04-3.5	WRC-04-6.5	WRC-05-1.5	WRC-05-3.5
Sample Date	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99
Horizon										
Freon 113 (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
m,p-Xylenes (mg/kg)	0.0049 U	<b>0.18</b>	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		<b>6.3</b>	5 U
Methylene Chloride (mg/kg)	0.02 U	0.5 U	0.019 U	2 U	330 U	0.019 U	0.02 U		2 U	20 U
MTBE (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
o-Xylene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		<b>7</b>	5 U
Tetrachloroethene (mg/kg)	0.0049 U	<b>0.3</b>	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Toluene (mg/kg)	0.0049 U	0.13 U	0.0047 U	<b>270</b>	<b>1800</b>	0.0046 U	0.0049 U		0.5 U	5 U
trans-1,2-Dichloroethene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
trans-1,3-Dichloropropene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Trichloroethene (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	<b>0.008</b>	<b>0.011</b>		0.5 U	5 U
Trichlorofluoromethane (mg/kg)	0.0049 U	0.13 U	0.0047 U	0.5 U	83 U	0.0046 U	0.0049 U		0.5 U	5 U
Vinyl Chloride (mg/kg)	0.0098 U	0.25 U	0.0094 U	1 U	170 U	0.0093 U	0.0098 U		1 U	10 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
2,4,6-Trichlorophenol (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
2,4-Dichlorophenol (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
2,4-Dimethylphenol (mg/kg)		<b>0.73</b>		3.3 U		0.33 U			27 U	
2,4-Dinitrophenol (mg/kg)		3.3 U		17 U		1.7 U			130 U	
2,4-Dinitrotoluene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
2,6-Dinitrotoluene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
2-Chloronaphthalene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
2-Chlorophenol (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
2-Methylnaphthalene (mg/kg)		0.67 U		<b>1.9 J</b>		0.33 U			<b>81</b>	

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01-3.5	WRC-02-1.5	WRC-02-3.5	WRC-03-1.5	WRC-03-3.5	WRC-04-1.5	WRC-04-3.5	WRC-04-6.5	WRC-05-1.5	WRC-05-3.5
Sample Date	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99
Horizon										
2-Methylphenol (mg/kg)		<b>0.53 J</b>		3.3 U		0.33 U			27 U	
2-Nitroaniline (mg/kg)		3.3 U		17 U		1.7 U			130 U	
2-Nitrophenol (mg/kg)		3.3 U		17 U		1.7 U			130 U	
3,3'-Dichlorobenzidine (mg/kg)		3.3 U		17 U		1.7 U			130 U	
3-,4-Methylphenol (mg/kg)		<b>1.7</b>		3.3 U		0.33 U			27 U	
3-Nitroaniline (mg/kg)		3.3 U		17 U		1.7 U			130 U	
4,6-Dinitro-2-methylphenol (mg/kg)		3.3 U		17 U		1.7 U			130 U	
4-Bromophenyl-phenylether (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
4-Chloro-3-methylphenol (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
4-Chloroaniline (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
4-Chlorophenyl-phenylether (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
4-Nitroaniline (mg/kg)		3.3 U		17 U		1.7 U			130 U	
4-Nitrophenol (mg/kg)		3.3 U		17 U		1.7 U			130 U	
Acenaphthene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Acenaphthylene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Anthracene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Azobenzene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Benzo(a)anthracene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Benzo(a)pyrene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Benzo(b,k)fluoranthene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Benzo(g,h,i)perylene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Benzoic acid (mg/kg)		3.3 U		17 U		1.7 U			130 U	
Benzyl alcohol (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	



**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01-3.5	WRC-02-1.5	WRC-02-3.5	WRC-03-1.5	WRC-03-3.5	WRC-04-1.5	WRC-04-3.5	WRC-04-6.5	WRC-05-1.5	WRC-05-3.5
Sample Date	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99
Horizon										
bis(2-Chloroethoxy)methane (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
bis(2-Chloroethyl)ether (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
bis(2-Chloroisopropyl) ether (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
bis(2-Ethylhexyl)phthalate (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Butylbenzylphthalate (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Chrysene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Di-n-butylphthalate (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Di-n-octylphthalate (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Dibenz(a,h)anthracene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Dibenzofuran (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Diethylphthalate (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Dimethylphthalate (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Fluoranthene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Fluorene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Hexachlorobenzene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Hexachlorocyclopentadiene (mg/kg)		3.3 U		17 U		1.7 U			130 U	
Hexachloroethane (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Indeno(1,2,3-cd)pyrene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Isophorone (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
N-Nitroso-di-n-propylamine (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
N-Nitrosodimethylamine (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
N-Nitrosodiphenylamine (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Nitrobenzene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01-3.5	WRC-02-1.5	WRC-02-3.5	WRC-03-1.5	WRC-03-3.5	WRC-04-1.5	WRC-04-3.5	WRC-04-6.5	WRC-05-1.5	WRC-05-3.5
Sample Date	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99
Horizon										
Pentachlorophenol (mg/kg)		3.3 U		17 U		1.7 U			130 U	
Phenanthrene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
Phenol (mg/kg)		<b>0.93</b>		3.3 U		<b>0.32 J</b>			27 U	
Pyrene (mg/kg)		0.67 U		3.3 U		0.33 U			27 U	
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)		<b>0.53</b>		<b>0.029</b>		<b>0.029</b>			<b>2800</b>	<b>1600</b>
4,4'-DDE (mg/kg)		0.5 U		<b>0.006</b>		0.005 U			500 U	500 U
4,4'-DDT (mg/kg)		<b>0.66</b>		<b>0.027</b>		0.005 U			<b>2100</b>	500 U
Aldrin (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Alpha-BHC (mg/kg)		0.5 U		<b>0.013</b>		0.005 U			500 U	500 U
Aroclor-1016 (mg/kg)										5000 U
Aroclor-1221 (mg/kg)										5000 U
Aroclor-1232 (mg/kg)										5000 U
Aroclor-1242 (mg/kg)										5000 U
Aroclor-1248 (mg/kg)										5000 U
Aroclor-1254 (mg/kg)										5000 U
Aroclor-1260 (mg/kg)										5000 U
Aroclor-1262 (mg/kg)										5000 U
Beta-BHC (mg/kg)		0.5 U		<b>0.021</b>		0.005 U			500 U	500 U
Chlordane (mg/kg)		5 U		0.05 U		0.05 U			5000 U	5000 U
Delta-BHC (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Dieldrin (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Endosulfan I (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01-3.5	WRC-02-1.5	WRC-02-3.5	WRC-03-1.5	WRC-03-3.5	WRC-04-1.5	WRC-04-3.5	WRC-04-6.5	WRC-05-1.5	WRC-05-3.5
Sample Date	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99
Horizon										
Endosulfan II (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Endosulfan Sulfate (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Endrin (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Endrin Aldehyde (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Gamma-BHC (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Heptachlor (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Heptachlor Epoxide (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Methoxychlor (mg/kg)		0.5 U		0.005 U		0.005 U			500 U	500 U
Toxaphene (mg/kg)		5 U		0.05 U		0.05 U			5000 U	5000 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.064 U	0.1 U	0.06 U	<b>5.8</b>	0.064 U	0.06 U	0.06 U	0.1 U	0.06 U	0.6 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.61</b>	0.01 U	0.01 U	0.01 U	<b>0.35</b>	0.01 U
captan (mg/kg)	0.25 U	0.25 U	0.05 U	0.05 U	0.05 U	<b>0.055</b>	0.05 U	0.1 U	<b>2</b>	<b>42</b>
Carbophenothion (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	<b>0.01</b>	<b>0.89</b>	0.01 U
Cycloate (mg/kg)	0.01 U	<b>0.03</b>	0.01 U	0.01 U	<b>0.15</b>	0.1 U	0.01 U	0.01 U	<b>0.4</b>	0.01 U
EPTC (mg/kg)	<b>0.02</b>	<b>1.21</b>	<b>0.44</b>	0.01 U	<b>2.11</b>	0.1 U	<b>0.05</b>	0.01 U	<b>0.13</b>	<b>0.01</b>
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>1.36</b>	0.1 U	0.01 U	0.01 U	<b>1.5</b>	0.01 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.1 U	0.01 U
Metam sodium (mg/kg)	<b>0.63</b>	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	<b>0.44</b>		<b>11</b>	0.09 U
Molinate (mg/kg)	0.01 U	<b>0.33</b>	<b>0.09</b>	0.01 U	<b>0.06</b>	<b>0.02</b>	0.01 U	0.01 U	0.1 U	0.01 U
Napropamide (mg/kg)	0.01 U	<b>0.04</b>	0.01 U	0.01 U	<b>220</b>	0.1 U	0.01 U	0.01 U	<b>1.37</b>	0.01 U
Pebulate (mg/kg)	0.01 U	<b>2.83</b>	<b>1.1</b>	0.01 U	<b>0.43</b>	0.1 U	0.01 U	0.01 U	<b>0.28</b>	0.01 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	0.5 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01-3.5	WRC-02-1.5	WRC-02-3.5	WRC-03-1.5	WRC-03-3.5	WRC-04-1.5	WRC-04-3.5	WRC-04-6.5	WRC-05-1.5	WRC-05-3.5
Sample Date	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99
Horizon										
R25788 (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
Vernolate (mg/kg)	0.01 U	<b>0.37</b>	<b>0.14</b>	0.01 U	<b>0.06</b>	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U
<b>7. Field Measurements and Physical Properties</b>										
Total Organic Carbon (%)	<b>0.52</b>						<b>0.41</b>	<b>0.04</b>		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)		2.9 U	2.9 U		3 U	3 U	2.1 U	2.9 U		3 U
Arsenic (mg/kg)		<b>20</b>	<b>48</b>		<b>4.6</b>	<b>2.1</b>	<b>18</b>	<b>11</b>		<b>9.2</b>
Barium (mg/kg)		<b>190</b>	<b>240</b>		<b>110</b>	<b>170</b>	<b>100</b>	<b>350</b>		<b>130</b>
Beryllium (mg/kg)		<b>0.34</b>	<b>0.38</b>		<b>0.53</b>	<b>0.39</b>	<b>0.13</b>	<b>0.39</b>		<b>0.52</b>
Cadmium (mg/kg)		<b>3.3</b>	<b>1.9</b>		<b>0.52</b>	0.25 U	<b>1.1</b>	<b>0.77</b>		0.25 U
Chromium (mg/kg)		<b>26</b>	<b>26</b>		<b>14</b>	<b>29</b>	<b>160</b>	<b>51</b>		<b>29</b>
Cobalt (mg/kg)		<b>11</b>	<b>9.5</b>		<b>11</b>	<b>8.6</b>	<b>17</b>	<b>8.3</b>		<b>9.8</b>
Copper (mg/kg)		<b>190</b>	<b>290</b>		<b>26</b>	<b>13</b>	<b>120</b>	<b>340</b>		<b>38</b>
Lead (mg/kg)		<b>23</b>	<b>37</b>		<b>12</b>	<b>4.8</b>	<b>44</b>	<b>42</b>		<b>14</b>
Mercury (mg/kg)		<b>0.48</b>	<b>0.2</b>		<b>0.22</b>	<b>0.047</b>	<b>7.3</b>	<b>0.16</b>		<b>0.15</b>
Molybdenum (mg/kg)		<b>1.2</b>	0.98 U		1 U	1 U	<b>2.1</b>	0.98 U		1 U
Nickel (mg/kg)		<b>32</b>	<b>31</b>		<b>23</b>	<b>19</b>	<b>160</b>	<b>41</b>		<b>34</b>
Selenium (mg/kg)		0.25 U	0.24 U		0.25 U	0.25 U	0.18 U	0.25 U		0.25 U
Silver (mg/kg)		<b>0.97</b>	<b>2.7</b>		0.5 U	0.5 U	<b>0.38</b>	0.49 U		0.5 U
Thallium (mg/kg)		<b>0.54</b>	0.24 U		0.25 U	0.25 U	0.18 U	0.25 U		<b>0.62</b>
Vanadium (mg/kg)		<b>23</b>	<b>26</b>		<b>19</b>	<b>23</b>	<b>21</b>	<b>34</b>		<b>24</b>
Zinc (mg/kg)		<b>540</b>	<b>350</b>		<b>47</b>	<b>16</b>	<b>110</b>	<b>110</b>		<b>53</b>
<b>2. pH</b>										
pH (SU)		<b>8.1</b>	<b>8.7</b>		<b>10</b>	<b>8</b>	<b>7.3</b>	<b>6.3</b>		<b>4.2</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)										0.0047 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
1,1,1-Trichloroethane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,1,2,2-Tetrachloroethane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,1,2-Trichloroethane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,1-Dichloroethane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,1-Dichloroethene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,1-Dichloropropene (mg/kg)										0.0047 U
1,2,3-Trichlorobenzene (mg/kg)										0.0047 U
1,2,3-Trichloropropane (mg/kg)										0.0047 U
1,2,4-Trichlorobenzene (mg/kg)										0.0047 U
1,2,4-Trimethylbenzene (mg/kg)										0.0047 U
1,2-Dibromo-3-Chloropropane (mg/k										0.0047 U
1,2-Dibromoethane (mg/kg)										0.0047 U
1,2-Dichlorobenzene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,2-Dichloroethane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,2-Dichloropropane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,3,5-Trimethylbenzene (mg/kg)										0.0047 U
1,3-Dichlorobenzene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
1,3-Dichloropropane (mg/kg)										0.0047 U
1,4-Dichlorobenzene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
2,2-Dichloropropane (mg/kg)										0.0047 U
2-Butanone (mg/kg)										0.0094 U
2-Chlorotoluene (mg/kg)										0.0047 U
2-Hexanone (mg/kg)										0.0094 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
4-Chlorotoluene (mg/kg)										0.0047 U
4-Methyl-2-Pentanone (mg/kg)										0.0094 U
Acetone (mg/kg)										0.019 U
Benzene (mg/kg)		<b>0.06</b>	<b>1.7</b>		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Bromobenzene (mg/kg)										0.0047 U
Bromochloromethane (mg/kg)										0.0047 U
Bromodichloromethane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Bromoform (mg/kg)		0.012 U	0.25 U		0.01 U	0.0094 U	0.01 U	0.01 U		0.0047 U
Bromomethane (mg/kg)		0.012 U	0.25 U		0.01 U	0.0094 U	0.01 U	0.01 U		0.0094 U
Carbon Disulfide (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Carbon Tetrachloride (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Chlorobenzene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Chloroethane (mg/kg)		0.012 U	0.25 U		0.01 U	0.0094 U	0.01 U	0.01 U		0.0094 U
Chloroform (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Chloromethane (mg/kg)		0.012 U	0.25 U		0.01 U	0.0094 U	0.01 U	0.01 U		0.0094 U
cis-1,2-Dichloroethene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
cis-1,3-Dichloropropene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Dibromochloromethane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Dibromomethane (mg/kg)										0.0047 U
Ethylbenzene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Freon 113 (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Freon 12 (mg/kg)										0.0094 U
Hexachlorobutadiene (mg/kg)										0.0047 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
Isopropylbenzene (mg/kg)										0.0047 U
m,p-Xylenes (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Methylene Chloride (mg/kg)		0.024 U	0.5 U		0.02 U	0.019 U	0.02 U	0.02 U		0.019 U
MTBE (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
n-Butylbenzene (mg/kg)										0.0047 U
Naphthalene (mg/kg)										0.0047 U
o-Xylene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
para-Isopropyl Toluene (mg/kg)										0.0047 U
Propylbenzene (mg/kg)										0.0047 U
sec-Butylbenzene (mg/kg)										0.0047 U
Styrene (mg/kg)										0.0047 U
tert-Butylbenzene (mg/kg)										0.0047 U
Tetrachloroethene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Toluene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
trans-1,2-Dichloroethene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
trans-1,3-Dichloropropene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Trichloroethene (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Trichlorofluoromethane (mg/kg)		0.0061 U	0.13 U		0.005 U	0.0047 U	0.005 U	0.005 U		0.0047 U
Vinyl Acetate (mg/kg)										0.047 U
Vinyl Chloride (mg/kg)		0.012 U	0.25 U		0.01 U	0.0094 U	0.01 U	0.01 U		0.0094 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2,4,6-Trichlorophenol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U



**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
2,4-Dichlorophenol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2,4-Dimethylphenol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2,4-Dinitrophenol (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
2,4-Dinitrotoluene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2,6-Dinitrotoluene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2-Chloronaphthalene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2-Chlorophenol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2-Methylnaphthalene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2-Methylphenol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
2-Nitroaniline (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
2-Nitrophenol (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
3,3'-Dichlorobenzidine (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
3-,4-Methylphenol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
3-Nitroaniline (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
4-Bromophenyl-phenylether (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
4-Chloro-3-methylphenol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
4-Chloroaniline (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
4-Chlorophenyl-phenylether (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
4-Nitroaniline (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
4-Nitrophenol (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
Acenaphthene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Acenaphthylene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
Anthracene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Azobenzene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Benzo(a)anthracene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Benzo(a)pyrene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Benzo(b,k)fluoranthene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Benzo(g,h,i)perylene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Benzoic acid (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
Benzyl alcohol (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
bis(2-Chloroethoxy)methane (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
bis(2-Chloroethyl)ether (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Butylbenzylphthalate (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Chrysene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Di-n-butylphthalate (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Di-n-octylphthalate (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Dibenz(a,h)anthracene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Dibenzofuran (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Diethylphthalate (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Dimethylphthalate (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Fluoranthene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Fluorene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Hexachlorobenzene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
Hexachloroethane (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Isophorone (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
N-Nitroso-di-n-propylamine (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
N-Nitrosodimethylamine (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
N-Nitrosodiphenylamine (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Nitrobenzene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Pentachlorophenol (mg/kg)		8.3 U			1.7 U		17 U			1.7 U
Phenanthrene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
Phenol (mg/kg)		1.7 U			<b>0.47</b>		3.3 U			<b>0.22 J</b>
Pyrene (mg/kg)		1.7 U			0.33 U		3.3 U			0.33 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	<b>19</b>	<b>0.98</b>			<b>0.0087</b>		<b>0.11</b>			0.005 U
4,4'-DDE (mg/kg)	5 U	0.5 U			<b>0.006</b>		<b>0.089</b>			0.005 U
4,4'-DDT (mg/kg)	5 U	0.5 U			<b>0.014</b>		<b>0.28</b>			0.005 U
Aldrin (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Alpha-BHC (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Aroclor-1016 (mg/kg)	50 U									0.05 U
Aroclor-1221 (mg/kg)	50 U									0.05 U
Aroclor-1232 (mg/kg)	50 U									0.05 U
Aroclor-1242 (mg/kg)	50 U									0.05 U
Aroclor-1248 (mg/kg)	50 U									0.05 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
Aroclor-1254 (mg/kg)	50 U									0.05 U
Aroclor-1260 (mg/kg)	50 U									0.05 U
Aroclor-1262 (mg/kg)	50 U									0.05 U
Beta-BHC (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Chlordane (mg/kg)	50 U	5 U			0.05 U		0.5 U			0.05 U
Delta-BHC (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Dieldrin (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Endosulfan I (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Endosulfan II (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Endosulfan Sulfate (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Endrin (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Endrin Aldehyde (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Gamma-BHC (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Heptachlor (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Heptachlor Epoxide (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Methoxychlor (mg/kg)	5 U	0.5 U			0.005 U		0.05 U			0.005 U
Toxaphene (mg/kg)	50 U	5 U			0.05 U		0.5 U			0.05 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.3 U	0.06 U	0.1 U	0.06 U	0.064 U	0.064 U	0.064 U	0.064 U		1 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.01 U		0.1 U
captan (mg/kg)	<b>1.4</b>	<b>1</b>	0.25 U	<b>0.17</b>	0.25 U	0.25 U	0.25 U	0.25 U		1 U
Carbophenothion (mg/kg)	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U		<b>0.09</b>
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.06</b>	0.01 U	0.01 U	0.01 U	0.01 U		0.1 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-05-6.5	WRC-06-1.5	WRC-06-3.5	WRC-06-6.5	WRC-07-1.5	WRC-07-3.5	WRC-08-1.5	WRC-08-3.5	WRC-08-6.5	WRC-10-1.5
Sample Date	12/6/99	10/7/99	10/7/99	10/7/99	10/6/99	10/6/99	10/6/99	10/6/99	10/6/99	10/11/99
Horizon										
EPTC (mg/kg)	<b>0.08</b>	<b>2</b>	0.01 U	<b>0.08</b>	0.01 U	0.01 U	<b>0.32</b>	0.01 U		0.1 U
Flurochloridone (mg/kg)	0.01 U	<b>3.8</b>	<b>0.04</b>	<b>2</b>	0.01 U	0.01 U	<b>0.02</b>	0.01 U		<b>0.1</b>
Fonofos (mg/kg)	0.01 U	<b>0.11</b>	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U		0.1 U
Metam sodium (mg/kg)		0.09 U	<b>0.07</b>		0.09 U	0.09 U	0.09 U	0.09 U		0.09 U
Molinate (mg/kg)	0.01 U	<b>0.2</b>	<b>0.13</b>	<b>0.76</b>	0.01 U	0.01 U	0.01 U	0.01 U		0.1 U
Napropamide (mg/kg)	0.01 U	<b>0.26</b>	0.01 U	<b>0.28</b>	0.01 U	0.01 U	<b>0.01</b>	0.01 U		0.1 U
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.04</b>	0.01 U	0.01 U	0.01 U	0.01 U		0.1 U
phosmet (mg/kg)	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		0.5 U
R25788 (mg/kg)	0.01 U	<b>0.04</b>	<b>0.01</b>	<b>0.08</b>	0.01 U	0.01 U	0.01 U	0.01 U		0.1 U
R29148 (mg/kg)	0.01 U	<b>0.09</b>	0.01 U	<b>0.17</b>	0.01 U	0.01 U	0.01 U	0.01 U		0.1 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.1 U

**7. Field Measurements and Physical Properties**

Total Organic Carbon (%)	<b>0.06</b>	<b>0.07</b>
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**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	2.9 U		3 U	2.9 U		3 U	2.9 U		2.9 U	3 U
Arsenic (mg/kg)	<b>4.9</b>		<b>11</b>	<b>3</b>		<b>3.5</b>	<b>4</b>		<b>1.5</b>	<b>1.9</b>
Barium (mg/kg)	<b>140</b>		<b>130</b>	<b>140</b>		<b>170</b>	<b>200</b>		<b>74</b>	<b>110</b>
Beryllium (mg/kg)	<b>0.52</b>		<b>0.42</b>	<b>0.52</b>		<b>0.42</b>	<b>0.38</b>		<b>0.32</b>	<b>0.27</b>
Cadmium (mg/kg)	0.24 U		<b>0.85</b>	0.24 U		0.25 U	0.24 U		0.24 U	<b>2.6</b>
Chromium (mg/kg)	<b>28</b>		<b>52</b>	<b>48</b>		<b>46</b>	<b>29</b>		<b>11</b>	<b>23</b>
Cobalt (mg/kg)	<b>6.9</b>		<b>12</b>	<b>11</b>		<b>9.5</b>	<b>21</b>		<b>7.5</b>	<b>8.5</b>
Copper (mg/kg)	<b>32</b>		<b>37</b>	<b>14</b>		<b>22</b>	<b>16</b>		<b>20</b>	<b>300</b>
Lead (mg/kg)	<b>8.6</b>		<b>170</b>	<b>5.3</b>		<b>17</b>	<b>6.3</b>		<b>8.6</b>	<b>4.2</b>
Mercury (mg/kg)	0.04 U		<b>0.19</b>	<b>0.059</b>		<b>0.11</b>	<b>0.048</b>		<b>0.39</b>	0.039 U
Molybdenum (mg/kg)	0.96 U		1 U	0.98 U		1 U	0.97 U		0.96 U	1 U
Nickel (mg/kg)	<b>25</b>		<b>70</b>	<b>120</b>		<b>50</b>	<b>30</b>		<b>17</b>	<b>18</b>
Selenium (mg/kg)	0.24 U		0.25 U	0.24 U		0.25 U	0.24 U		0.24 U	0.25 U
Silver (mg/kg)	0.48 U		0.5 U	0.49 U		0.5 U	0.49 U		0.48 U	0.5 U
Thallium (mg/kg)	<b>0.44</b>		0.25 U	0.24 U		0.25 U	0.24 U		0.24 U	0.25 U
Vanadium (mg/kg)	<b>22</b>		<b>30</b>	<b>26</b>		<b>28</b>	<b>29</b>		<b>14</b>	<b>23</b>
Zinc (mg/kg)	<b>19</b>		<b>140</b>	<b>24</b>		<b>35</b>	<b>34</b>		<b>63</b>	<b>160</b>
<b>2. pH</b>										
pH (SU)	<b>7.9</b>		<b>7.8</b>	<b>7.9</b>		<b>6.5</b>	<b>5.6</b>		<b>7</b>	<b>6.8</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.0049 U								0.0051 U	0.0049 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,1,2-Trichloroethane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,1-Dichloroethane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,1-Dichloroethene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,1-Dichloropropene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
1,2,3-Trichlorobenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
1,2,3-Trichloropropane (mg/kg)	0.0049 U								0.0051 U	0.0049 U
1,2,4-Trichlorobenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
1,2,4-Trimethylbenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
1,2-Dibromo-3-Chloropropane (mg/k	0.0049 U								0.0051 U	0.0049 U
1,2-Dibromoethane (mg/kg)	0.0049 U								0.0051 U	0.0049 U
1,2-Dichlorobenzene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,2-Dichloroethane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,2-Dichloropropane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,3,5-Trimethylbenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
1,3-Dichlorobenzene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
1,3-Dichloropropane (mg/kg)	0.0049 U								0.0051 U	0.0049 U
1,4-Dichlorobenzene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
2,2-Dichloropropane (mg/kg)	0.0049 U								0.0051 U	0.0049 U
2-Butanone (mg/kg)	0.0098 U								<b>0.012</b>	0.0098 U
2-Chlorotoluene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
2-Hexanone (mg/kg)	0.0098 U								0.01 U	0.0098 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
4-Chlorotoluene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
4-Methyl-2-Pentanone (mg/kg)	0.0098 U								0.01 U	0.0098 U
Acetone (mg/kg)	0.02 U								<b>0.048</b>	0.02 U
Benzene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Bromobenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
Bromochloromethane (mg/kg)	0.0049 U								0.0051 U	0.0049 U
Bromodichloromethane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Bromoform (mg/kg)	0.0049 U		0.0096 U	0.0096 U		0.0094 U	0.0093 U		0.0051 U	0.0049 U
Bromomethane (mg/kg)	0.0098 U		0.0096 U	0.0096 U		0.0094 U	0.0093 U		0.01 U	0.0098 U
Carbon Disulfide (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Carbon Tetrachloride (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Chlorobenzene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Chloroethane (mg/kg)	0.0098 U		0.0096 U	0.0096 U		0.0094 U	0.0093 U		0.01 U	0.0098 U
Chloroform (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Chloromethane (mg/kg)	0.0098 U		0.0096 U	0.0096 U		0.0094 U	0.0093 U		0.01 U	0.0098 U
cis-1,2-Dichloroethene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
cis-1,3-Dichloropropene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Dibromochloromethane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Dibromomethane (mg/kg)	0.0049 U								0.0051 U	0.0049 U
Ethylbenzene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Freon 113 (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Freon 12 (mg/kg)	0.0098 U								0.01 U	0.0098 U
Hexachlorobutadiene (mg/kg)	0.0049 U								0.0051 U	0.0049 U



**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
Isopropylbenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
m,p-Xylenes (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Methylene Chloride (mg/kg)	0.02 U		0.019 U	0.019 U		0.019 U	0.019 U		0.02 U	0.02 U
MTBE (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
n-Butylbenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
Naphthalene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
o-Xylene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
para-Isopropyl Toluene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
Propylbenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
sec-Butylbenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
Styrene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
tert-Butylbenzene (mg/kg)	0.0049 U								0.0051 U	0.0049 U
Tetrachloroethene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Toluene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
trans-1,2-Dichloroethene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
trans-1,3-Dichloropropene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Trichloroethene (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Trichlorofluoromethane (mg/kg)	0.0049 U		0.0048 U	0.0048 U		0.0047 U	0.0046 U		0.0051 U	0.0049 U
Vinyl Acetate (mg/kg)	0.049 U								0.051 U	0.049 U
Vinyl Chloride (mg/kg)	0.0098 U		0.0096 U	0.0096 U		0.0094 U	0.0093 U		0.01 U	0.0098 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)			0.33 U			0.33 U			0.33 U	
2,4,6-Trichlorophenol (mg/kg)			0.33 U			0.33 U			0.33 U	

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
2,4-Dichlorophenol (mg/kg)			0.33 U			0.33 U			0.33 U	
2,4-Dimethylphenol (mg/kg)			0.33 U			0.33 U			0.33 U	
2,4-Dinitrophenol (mg/kg)			1.7 U			1.7 U			1.7 U	
2,4-Dinitrotoluene (mg/kg)			0.33 U			0.33 U			0.33 U	
2,6-Dinitrotoluene (mg/kg)			0.33 U			0.33 U			0.33 U	
2-Chloronaphthalene (mg/kg)			0.33 U			0.33 U			0.33 U	
2-Chlorophenol (mg/kg)			0.33 U			0.33 U			0.33 U	
2-Methylnaphthalene (mg/kg)			0.33 U			0.33 U			0.33 U	
2-Methylphenol (mg/kg)			0.33 U			0.33 U			0.33 U	
2-Nitroaniline (mg/kg)			1.7 U			1.7 U			1.7 U	
2-Nitrophenol (mg/kg)			1.7 U			1.7 U			1.7 U	
3,3'-Dichlorobenzidine (mg/kg)			1.7 U			1.7 U			1.7 U	
3-,4-Methylphenol (mg/kg)			0.33 U			0.33 U			0.33 U	
3-Nitroaniline (mg/kg)			1.7 U			1.7 U			1.7 U	
4,6-Dinitro-2-methylphenol (mg/kg)			1.7 U			1.7 U			1.7 U	
4-Bromophenyl-phenylether (mg/kg)			0.33 U			0.33 U			0.33 U	
4-Chloro-3-methylphenol (mg/kg)			0.33 U			0.33 U			0.33 U	
4-Chloroaniline (mg/kg)			0.33 U			0.33 U			0.33 U	
4-Chlorophenyl-phenylether (mg/kg)			0.33 U			0.33 U			0.33 U	
4-Nitroaniline (mg/kg)			1.7 U			1.7 U			1.7 U	
4-Nitrophenol (mg/kg)			1.7 U			1.7 U			1.7 U	
Acenaphthene (mg/kg)			0.33 U			0.33 U			0.33 U	
Acenaphthylene (mg/kg)			0.33 U			0.33 U			0.33 U	

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
Anthracene (mg/kg)			0.33 U			0.33 U			0.33 U	
Azobenzene (mg/kg)			0.33 U			0.33 U			0.33 U	
Benzo(a)anthracene (mg/kg)			0.33 U			0.33 U			0.33 U	
Benzo(a)pyrene (mg/kg)			0.33 U			0.33 U			0.33 U	
Benzo(b,k)fluoranthene (mg/kg)			0.33 U			0.33 U			0.33 U	
Benzo(g,h,i)perylene (mg/kg)			0.33 U			0.33 U			0.33 U	
Benzoic acid (mg/kg)			1.7 U			1.7 U			1.7 U	
Benzyl alcohol (mg/kg)			0.33 U			0.33 U			0.33 U	
bis(2-Chloroethoxy)methane (mg/kg)			0.33 U			0.33 U			0.33 U	
bis(2-Chloroethyl)ether (mg/kg)			0.33 U			0.33 U			0.33 U	
bis(2-Chloroisopropyl) ether (mg/kg)			0.33 U			0.33 U			0.33 U	
bis(2-Ethylhexyl)phthalate (mg/kg)			<b>0.57</b>			0.33 U			0.33 U	
Butylbenzylphthalate (mg/kg)			0.33 U			0.33 U			0.33 U	
Chrysene (mg/kg)			0.33 U			0.33 U			0.33 U	
Di-n-butylphthalate (mg/kg)			0.33 U			0.33 U			0.33 U	
Di-n-octylphthalate (mg/kg)			0.33 U			0.33 U			0.33 U	
Dibenz(a,h)anthracene (mg/kg)			0.33 U			0.33 U			0.33 U	
Dibenzofuran (mg/kg)			0.33 U			0.33 U			0.33 U	
Diethylphthalate (mg/kg)			0.33 U			0.33 U			0.33 U	
Dimethylphthalate (mg/kg)			0.33 U			0.33 U			0.33 U	
Fluoranthene (mg/kg)			0.33 U			0.33 U			0.33 U	
Fluorene (mg/kg)			0.33 U			0.33 U			0.33 U	
Hexachlorobenzene (mg/kg)			0.33 U			0.33 U			0.33 U	

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)			1.7 U			1.7 U			1.7 U	
Hexachloroethane (mg/kg)			0.33 U			0.33 U			0.33 U	
Indeno(1,2,3-cd)pyrene (mg/kg)			0.33 U			0.33 U			0.33 U	
Isophorone (mg/kg)			0.33 U			0.33 U			0.33 U	
N-Nitroso-di-n-propylamine (mg/kg)			0.33 U			0.33 U			0.33 U	
N-Nitrosodimethylamine (mg/kg)			0.33 U			0.33 U			0.33 U	
N-Nitrosodiphenylamine (mg/kg)			0.33 U			0.33 U			0.33 U	
Nitrobenzene (mg/kg)			0.33 U			0.33 U			0.33 U	
Pentachlorophenol (mg/kg)			1.7 U			1.7 U			1.7 U	
Phenanthrene (mg/kg)			0.33 U			0.33 U			0.33 U	
Phenol (mg/kg)			0.33 U			0.33 U			0.33 U	
Pyrene (mg/kg)			0.33 U			0.33 U			0.33 U	
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)			0.005 U			0.005 U			0.005 U	
4,4'-DDE (mg/kg)			<b>0.19 D</b>			0.005 U			0.005 U	
4,4'-DDT (mg/kg)			<b>0.24 D</b>			0.005 U			0.005 U	
Aldrin (mg/kg)			0.005 U			0.005 U			0.005 U	
Alpha-BHC (mg/kg)			0.005 U			0.005 U			0.005 U	
Beta-BHC (mg/kg)			0.005 U			0.005 U			0.005 U	
Chlordane (mg/kg)			0.05 U			0.05 U			0.05 U	
Delta-BHC (mg/kg)			0.005 U			0.005 U			0.005 U	
Dieldrin (mg/kg)			<b>0.12 D</b>			0.005 U			0.005 U	
Endosulfan I (mg/kg)			0.005 U			0.005 U			0.005 U	

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
Endosulfan II (mg/kg)			0.005 U			0.005 U			0.005 U	
Endosulfan Sulfate (mg/kg)			0.005 U			0.005 U			0.005 U	
Endrin (mg/kg)			0.005 U			0.005 U			0.005 U	
Endrin Aldehyde (mg/kg)			0.005 U			0.005 U			0.005 U	
Gamma-BHC (mg/kg)			0.005 U			0.005 U			0.005 U	
Heptachlor (mg/kg)			0.005 U			0.005 U			0.005 U	
Heptachlor Epoxide (mg/kg)			<b>0.028</b>			0.005 U			0.005 U	
Methoxychlor (mg/kg)			0.005 U			0.005 U			0.005 U	
Toxaphene (mg/kg)			0.05 U			0.05 U			0.05 U	
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	1 U	1 U	0.06 U	0.06 U	0.1 U	0.06 U	0.06 U	0.13 U	1 U	0.1 U
Butylate (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
captan (mg/kg)	0.25 U	0.25 U	0.05 U	0.05 U	0.1 U	0.05 U	0.05 U	0.1 U	2.5 U	0.25 U
Carbophenothion (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	<b>0.09</b>	<b>0.01</b>
Cycloate (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
EPTC (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U	0.1 U	0.01 U
Fonofos (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U		0.09 U		0.09 U	0.09 U		0.09 U	0.09 U
Molinate (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
Napropamide (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.1 U	<b>0.01</b>
Pebulate (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
phosmet (mg/kg)	0.5 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.5 U	0.05 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-10-3.5	WRC-10-6.5	WRC-11-1.5	WRC-11-3.5	WRC-11-6.5	WRC-12-1.5	WRC-12-3.5	WRC-12-6.5	WRC-13-1.5	WRC-13-3.5
Sample Date	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/8/99	10/14/99	10/14/99
Horizon										
R25788 (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
R29148 (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U
Vernolate (mg/kg)	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)		3 U	3 U		2.9 U	2.9 U		2.9 U	3 U	
Arsenic (mg/kg)		<b>4.8</b>	<b>3.1</b>		<b>2.2</b>	<b>2.1</b>		<b>3.5</b>	<b>1.9</b>	
Barium (mg/kg)		<b>150</b>	<b>120</b>		<b>120</b>	<b>42</b>		<b>120</b>	<b>130</b>	
Beryllium (mg/kg)		<b>0.65</b>	<b>0.45</b>		<b>0.47</b>	<b>0.63</b>		<b>0.39</b>	<b>0.43</b>	
Cadmium (mg/kg)		0.25 U	0.25 U		0.24 U	0.24 U		0.24 U	0.25 U	
Chromium (mg/kg)		<b>33</b>	<b>35</b>		<b>37</b>	<b>35</b>		<b>35</b>	<b>32</b>	
Cobalt (mg/kg)		<b>12</b>	<b>7.2</b>		<b>12</b>	<b>8.8</b>		<b>13</b>	<b>8.7</b>	
Copper (mg/kg)		<b>23</b>	<b>17</b>		<b>14</b>	<b>13</b>		<b>17</b>	<b>17</b>	
Lead (mg/kg)		<b>20</b>	<b>5.3</b>		<b>8.1</b>	<b>4.7</b>		<b>6.6</b>	<b>4.5</b>	
Mercury (mg/kg)		<b>0.52</b>	<b>0.062</b>		<b>0.057</b>	<b>0.048</b>		<b>0.049</b>	<b>0.046</b>	
Molybdenum (mg/kg)		1 U	1 U		0.96 U	0.96 U		0.95 U	1 U	
Nickel (mg/kg)		<b>43</b>	<b>55</b>		<b>30</b>	<b>41</b>		<b>71</b>	<b>48</b>	
Selenium (mg/kg)		0.25 U	0.25 U		0.24 U	0.24 U		0.24 U	0.25 U	
Silver (mg/kg)		0.5 U	0.5 U		0.48 U	0.48 U		0.48 U	0.5 U	
Thallium (mg/kg)		<b>0.55</b>	<b>0.43</b>		<b>0.5</b>	0.24 U		0.24 U	0.25 U	
Vanadium (mg/kg)		<b>32</b>	<b>28</b>		<b>31</b>	<b>28</b>		<b>26</b>	<b>20</b>	
Zinc (mg/kg)		<b>56</b>	<b>32</b>		<b>28</b>	<b>16</b>		<b>32</b>	<b>38</b>	
<b>2. pH</b>										
pH (SU)		<b>8.6</b>	<b>8.5</b>		<b>8</b>	<b>7.5</b>		<b>7.8</b>	<b>8.8</b>	
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
1,1,1-Trichloroethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,1,2,2-Tetrachloroethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,1,2-Trichloroethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,1-Dichloroethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,1-Dichloroethene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,1-Dichloropropene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,2,3-Trichlorobenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,2,3-Trichloropropane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,2,4-Trichlorobenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,2,4-Trimethylbenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,2-Dibromo-3-Chloropropane (mg/k		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,2-Dibromoethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,2-Dichlorobenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,2-Dichloroethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,2-Dichloropropane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,3,5-Trimethylbenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,3-Dichlorobenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
1,3-Dichloropropane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
1,4-Dichlorobenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
2,2-Dichloropropane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
2-Butanone (mg/kg)		0.0096 U	0.0094 U		<b>0.011</b>	0.01 U				
2-Chlorotoluene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
2-Hexanone (mg/kg)		0.0096 U	0.0094 U		0.0096 U	0.01 U				



**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
4-Chlorotoluene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
4-Methyl-2-Pentanone (mg/kg)		0.0096 U	0.0094 U		0.0096 U	0.01 U				
Acetone (mg/kg)		0.019 U	0.019 U		<b>0.028</b>	<b>0.025</b>				
Benzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Bromobenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
Bromochloromethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
Bromodichloromethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Bromoform (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0094 U	0.0094 U	
Bromomethane (mg/kg)		0.0096 U	0.0094 U		0.0096 U	0.01 U		0.0094 U	0.0094 U	
Carbon Disulfide (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Carbon Tetrachloride (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Chlorobenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Chloroethane (mg/kg)		0.0096 U	0.0094 U		0.0096 U	0.01 U		0.0094 U	0.0094 U	
Chloroform (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Chloromethane (mg/kg)		0.0096 U	0.0094 U		0.0096 U	0.01 U		0.0094 U	0.0094 U	
cis-1,2-Dichloroethene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
cis-1,3-Dichloropropene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Dibromochloromethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Dibromomethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
Ethylbenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Freon 113 (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Freon 12 (mg/kg)		0.0096 U	0.0094 U		0.0096 U	0.01 U				
Hexachlorobutadiene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
Isopropylbenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
m,p-Xylenes (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Methylene Chloride (mg/kg)		0.019 U	0.019 U		0.019 U	0.02 U		0.019 U	0.019 U	
MTBE (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
n-Butylbenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
Naphthalene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
o-Xylene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
para-Isopropyl Toluene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
Propylbenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
sec-Butylbenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
Styrene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
tert-Butylbenzene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U				
Tetrachloroethene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Toluene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
trans-1,2-Dichloroethene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
trans-1,3-Dichloropropene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Trichloroethene (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Trichlorofluoromethane (mg/kg)		0.0048 U	0.0047 U		0.0048 U	0.0051 U		0.0047 U	0.0047 U	
Vinyl Acetate (mg/kg)		0.048 U	0.047 U		0.048 U	0.051 U				
Vinyl Chloride (mg/kg)		0.0096 U	0.0094 U		0.0096 U	0.01 U		0.0094 U	0.0094 U	
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)		3.3 U			0.33 U			0.33 U		
2,4,6-Trichlorophenol (mg/kg)		3.3 U			0.33 U			0.33 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
2,4-Dichlorophenol (mg/kg)		3.3 U			0.33 U			0.33 U		
2,4-Dimethylphenol (mg/kg)		3.3 U			0.33 U			0.33 U		
2,4-Dinitrophenol (mg/kg)		17 U			1.7 U			1.7 U		
2,4-Dinitrotoluene (mg/kg)		3.3 U			0.33 U			0.33 U		
2,6-Dinitrotoluene (mg/kg)		3.3 U			0.33 U			0.33 U		
2-Chloronaphthalene (mg/kg)		3.3 U			0.33 U			0.33 U		
2-Chlorophenol (mg/kg)		3.3 U			0.33 U			0.33 U		
2-Methylnaphthalene (mg/kg)		3.3 U			0.33 U			0.33 U		
2-Methylphenol (mg/kg)		3.3 U			0.33 U			0.33 U		
2-Nitroaniline (mg/kg)		17 U			1.7 U			1.7 U		
2-Nitrophenol (mg/kg)		17 U			1.7 U			1.7 U		
3,3'-Dichlorobenzidine (mg/kg)		17 U			1.7 U			1.7 U		
3-,4-Methylphenol (mg/kg)		3.3 U			0.33 U			0.33 U		
3-Nitroaniline (mg/kg)		17 U			1.7 U			1.7 U		
4,6-Dinitro-2-methylphenol (mg/kg)		17 U			1.7 U			1.7 U		
4-Bromophenyl-phenylether (mg/kg)		3.3 U			0.33 U			0.33 U		
4-Chloro-3-methylphenol (mg/kg)		3.3 U			0.33 U			0.33 U		
4-Chloroaniline (mg/kg)		3.3 U			0.33 U			0.33 U		
4-Chlorophenyl-phenylether (mg/kg)		3.3 U			0.33 U			0.33 U		
4-Nitroaniline (mg/kg)		17 U			1.7 U			1.7 U		
4-Nitrophenol (mg/kg)		17 U			1.7 U			1.7 U		
Acenaphthene (mg/kg)		3.3 U			0.33 U			0.33 U		
Acenaphthylene (mg/kg)		3.3 U			0.33 U			0.33 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
Anthracene (mg/kg)		3.3 U			0.33 U			0.33 U		
Azobenzene (mg/kg)		3.3 U			0.33 U			0.33 U		
Benzo(a)anthracene (mg/kg)		3.3 U			0.33 U			0.33 U		
Benzo(a)pyrene (mg/kg)		3.3 U			0.33 U			0.33 U		
Benzo(b,k)fluoranthene (mg/kg)		3.3 U			0.33 U			0.33 U		
Benzo(g,h,i)perylene (mg/kg)		3.3 U			0.33 U			0.33 U		
Benzoic acid (mg/kg)		17 U			1.7 U			1.7 U		
Benzyl alcohol (mg/kg)		3.3 U			0.33 U			0.33 U		
bis(2-Chloroethoxy)methane (mg/kg)		3.3 U			0.33 U			0.33 U		
bis(2-Chloroethyl)ether (mg/kg)		3.3 U			0.33 U			0.33 U		
bis(2-Chloroisopropyl) ether (mg/kg)		3.3 U			0.33 U			0.33 U		
bis(2-Ethylhexyl)phthalate (mg/kg)		3.3 U			0.33 U			0.33 U		
Butylbenzylphthalate (mg/kg)		3.3 U			0.33 U			0.33 U		
Chrysene (mg/kg)		3.3 U			0.33 U			0.33 U		
Di-n-butylphthalate (mg/kg)		3.3 U			0.33 U			0.33 U		
Di-n-octylphthalate (mg/kg)		3.3 U			0.33 U			0.33 U		
Dibenz(a,h)anthracene (mg/kg)		3.3 U			0.33 U			0.33 U		
Dibenzofuran (mg/kg)		3.3 U			0.33 U			0.33 U		
Diethylphthalate (mg/kg)		3.3 U			0.33 U			0.33 U		
Dimethylphthalate (mg/kg)		3.3 U			0.33 U			0.33 U		
Fluoranthene (mg/kg)		3.3 U			0.33 U			0.33 U		
Fluorene (mg/kg)		3.3 U			0.33 U			0.33 U		
Hexachlorobenzene (mg/kg)		3.3 U			0.33 U			0.33 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)		17 U			1.7 U			1.7 U		
Hexachloroethane (mg/kg)		3.3 U			0.33 U			0.33 U		
Indeno(1,2,3-cd)pyrene (mg/kg)		3.3 U			0.33 U			0.33 U		
Isophorone (mg/kg)		3.3 U			0.33 U			0.33 U		
N-Nitroso-di-n-propylamine (mg/kg)		3.3 U			0.33 U			0.33 U		
N-Nitrosodimethylamine (mg/kg)		3.3 U			0.33 U			0.33 U		
N-Nitrosodiphenylamine (mg/kg)		3.3 U			0.33 U			0.33 U		
Nitrobenzene (mg/kg)		3.3 U			0.33 U			0.33 U		
Pentachlorophenol (mg/kg)		17 U			1.7 U			1.7 U		
Phenanthrene (mg/kg)		3.3 U			0.33 U			0.33 U		
Phenol (mg/kg)		3.3 U			<b>0.44</b>			<b>0.42</b>		
Pyrene (mg/kg)		3.3 U			0.33 U			0.33 U		
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)		<b>0.15</b>			0.005 U			0.005 U		
4,4'-DDE (mg/kg)		<b>0.077</b>			0.005 U			0.005 U		
4,4'-DDT (mg/kg)		<b>0.19</b>			0.005 U			0.005 U		
Aldrin (mg/kg)		0.05 U			0.005 U			0.005 U		
Alpha-BHC (mg/kg)		0.05 U			0.005 U			0.005 U		
Aroclor-1016 (mg/kg)		0.5 U								
Aroclor-1221 (mg/kg)		0.5 U								
Aroclor-1232 (mg/kg)		0.5 U								
Aroclor-1242 (mg/kg)		0.5 U								
Aroclor-1248 (mg/kg)		0.5 U								

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
Aroclor-1254 (mg/kg)		0.5 U								
Aroclor-1260 (mg/kg)		0.5 U								
Aroclor-1262 (mg/kg)		0.5 U								
Beta-BHC (mg/kg)		0.05 U			0.005 U			0.005 U		
Chlordane (mg/kg)		0.5 U			0.05 U			0.05 U		
Delta-BHC (mg/kg)		0.05 U			0.005 U			0.005 U		
Dieldrin (mg/kg)		0.05 U			0.005 U			0.005 U		
Endosulfan I (mg/kg)		0.05 U			0.005 U			0.005 U		
Endosulfan II (mg/kg)		0.05 U			0.005 U			0.005 U		
Endosulfan Sulfate (mg/kg)		0.05 U			0.005 U			0.005 U		
Endrin (mg/kg)		0.05 U			0.005 U			0.005 U		
Endrin Aldehyde (mg/kg)		0.05 U			0.005 U			0.005 U		
Gamma-BHC (mg/kg)		0.05 U			0.005 U			0.005 U		
Heptachlor (mg/kg)		0.05 U			0.005 U			0.005 U		
Heptachlor Epoxide (mg/kg)		0.05 U			0.005 U			0.005 U		
Methoxychlor (mg/kg)		0.05 U			0.005 U			0.005 U		
Toxaphene (mg/kg)		0.5 U			0.05 U			0.05 U		
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)		1 U	0.1 U	0.1 U	0.06 U	0.06 U	0.1 U	0.06 U	0.06 U	0.06 U
Butylate (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.25 U	<b>5.3</b>	<b>0.34</b>	0.1 U	0.25 U	0.25 U	0.1 U	0.05 U	0.05 U	0.05 U
Carbophenothion (mg/kg)		<b>0.49</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	0.1 U	0.01 U	0.01 U	0.01 U
Cycloate (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-13-6.5	WRC-14-1.5	WRC-14-3.5	WRC-14-6.5	WRC-15-1.5	WRC-15-3.5	WRC-15-6.5	WRC-16-1.5	WRC-16-3.5	WRC-16-6.5
Sample Date	10/14/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/8/99	10/8/99	10/8/99
Horizon										
EPTC (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
Fonofos (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.13 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U		0.09 U
Molinate (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
Pebulate (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.06 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)		0.1 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)		0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	3 U	3 U		2.9 U	3 U	3 U		18		2.9 U
Arsenic (mg/kg)	1.3	2.3		2.6	22	2.8		290		46
Barium (mg/kg)	100	90		44	130	38		20		110
Beryllium (mg/kg)	0.35	0.37		0.29	0.23	0.45		0.1 U		0.098 U
Cadmium (mg/kg)	0.25 U	0.25 U		0.24	0.25 U	0.25 U		17		0.37
Chromium (mg/kg)	7	30		27	28	38		0.53		21
Cobalt (mg/kg)	3.4	13		11	2.4	5.6		9.8		1.2
Copper (mg/kg)	8.4	8.6		12	58	27		490		49
Lead (mg/kg)	5	5.3		4.2	12	4.7		83		4.3
Mercury (mg/kg)	0.63	0.041		0.099	0.5	0.055		0.17		0.039 U
Molybdenum (mg/kg)	0.99 U	1 U		0.96 U	1 U	1 U		3.9		0.98 U
Nickel (mg/kg)	11	25		31	9.7	23		2.2		5.9
Selenium (mg/kg)	0.25 U	0.25 U		0.24 U	0.25 U	0.25 U		20		0.24 U
Silver (mg/kg)	0.49 U	0.5 U		0.48 U	0.5 U	0.5 U		11		0.49 U
Thallium (mg/kg)	0.25 U	0.25 U		0.24 U	0.32	0.31		2.2		0.24 U
Vanadium (mg/kg)	9.2	26		16	32	29		9.7		22
Zinc (mg/kg)	21	15		25	27	74		3000		41
<b>2. pH</b>										
pH (SU)	8.3	7.4		5.5	3.3	4.2		2.9		3.6
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)					0.005 U	0.0047 U				



**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,1,2,2-Tetrachloroethane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,1,2-Trichloroethane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,1-Dichloroethane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,1-Dichloroethene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,1-Dichloropropene (mg/kg)					0.005 U	0.0047 U				
1,2,3-Trichlorobenzene (mg/kg)					0.005 U	0.0047 U				
1,2,3-Trichloropropane (mg/kg)					0.005 U	0.0047 U				
1,2,4-Trichlorobenzene (mg/kg)					0.005 U	0.0047 U				
1,2,4-Trimethylbenzene (mg/kg)					0.005 U	0.0047 U				
1,2-Dibromo-3-Chloropropane (mg/k					0.005 U	0.0047 U				
1,2-Dibromoethane (mg/kg)					0.005 U	0.0047 U				
1,2-Dichlorobenzene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,2-Dichloroethane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,2-Dichloropropane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,3,5-Trimethylbenzene (mg/kg)					0.005 U	0.0047 U				
1,3-Dichlorobenzene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
1,3-Dichloropropane (mg/kg)					0.005 U	0.0047 U				
1,4-Dichlorobenzene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
2,2-Dichloropropane (mg/kg)					0.005 U	0.0047 U				
2-Butanone (mg/kg)					0.01 U	0.0094 U				
2-Chlorotoluene (mg/kg)					0.005 U	0.0047 U				
2-Hexanone (mg/kg)					0.01 U	0.0094 U				

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
4-Chlorotoluene (mg/kg)					0.005 U	0.0047 U				
4-Methyl-2-Pentanone (mg/kg)					0.01 U	0.0094 U				
Acetone (mg/kg)					0.02 U	0.019 U				
Benzene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Bromobenzene (mg/kg)					0.005 U	0.0047 U				
Bromochloromethane (mg/kg)					0.005 U	0.0047 U				
Bromodichloromethane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Bromoform (mg/kg)	0.0093 U	0.01 U		0.0098 U	0.005 U	0.0047 U		0.0094 U	0.01 U	
Bromomethane (mg/kg)	0.0093 U	0.01 U		0.0098 U	0.01 U	0.0094 U		0.0094 U	0.01 U	
Carbon Disulfide (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Carbon Tetrachloride (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Chlorobenzene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Chloroethane (mg/kg)	0.0093 U	0.01 U		0.0098 U	0.01 U	0.0094 U		0.0094 U	0.01 U	
Chloroform (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Chloromethane (mg/kg)	0.0093 U	0.01 U		0.0098 U	0.01 U	0.0094 U		0.0094 U	0.01 U	
cis-1,2-Dichloroethene (mg/kg)	0.0046 U	0.0051 U		<b>0.0071</b>	0.005 U	0.0047 U		0.0047 U	0.005 U	
cis-1,3-Dichloropropene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Dibromochloromethane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Dibromomethane (mg/kg)					0.005 U	0.0047 U				
Ethylbenzene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Freon 113 (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Freon 12 (mg/kg)					0.01 U	0.0094 U				
Hexachlorobutadiene (mg/kg)					0.005 U	0.0047 U				

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
Isopropylbenzene (mg/kg)					0.005 U	0.0047 U				
m,p-Xylenes (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Methylene Chloride (mg/kg)	0.019 U	0.02 U		0.02 U	0.02 U	0.019 U		0.019 U	0.02 U	
MTBE (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
n-Butylbenzene (mg/kg)					0.005 U	0.0047 U				
Naphthalene (mg/kg)					0.005 U	0.0047 U				
o-Xylene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
para-Isopropyl Toluene (mg/kg)					0.005 U	0.0047 U				
Propylbenzene (mg/kg)					0.005 U	0.0047 U				
sec-Butylbenzene (mg/kg)					0.005 U	0.0047 U				
Styrene (mg/kg)					0.005 U	0.0047 U				
tert-Butylbenzene (mg/kg)					0.005 U	0.0047 U				
Tetrachloroethene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	<b>0.0074</b>	<b>0.003 J</b>		0.0047 U	<b>0.014</b>	
Toluene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
trans-1,2-Dichloroethene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
trans-1,3-Dichloropropene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Trichloroethene (mg/kg)	0.0046 U	0.0051 U		0.0049 U	<b>0.012</b>	<b>0.0051</b>		0.0047 U	<b>0.0093</b>	
Trichlorofluoromethane (mg/kg)	0.0046 U	0.0051 U		0.0049 U	0.005 U	0.0047 U		0.0047 U	0.005 U	
Vinyl Acetate (mg/kg)					0.05 U	0.047 U				
Vinyl Chloride (mg/kg)	0.0093 U	0.01 U		0.0098 U	0.01 U	0.0094 U		0.0094 U	0.01 U	
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2,4,6-Trichlorophenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
2,4-Dichlorophenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2,4-Dimethylphenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2,4-Dinitrophenol (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
2,4-Dinitrotoluene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2,6-Dinitrotoluene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2-Chloronaphthalene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2-Chlorophenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2-Methylnaphthalene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2-Methylphenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
2-Nitroaniline (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
2-Nitrophenol (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
3,3'-Dichlorobenzidine (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
3-,4-Methylphenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
3-Nitroaniline (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
4-Bromophenyl-phenylether (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
4-Chloro-3-methylphenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
4-Chloroaniline (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
4-Chlorophenyl-phenylether (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
4-Nitroaniline (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
4-Nitrophenol (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
Acenaphthene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Acenaphthylene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
Anthracene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Azobenzene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Benzo(a)anthracene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Benzo(a)pyrene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Benzo(b,k)fluoranthene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Benzo(g,h,i)perylene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Benzoic acid (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
Benzyl alcohol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
bis(2-Chloroethyl)ether (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Butylbenzylphthalate (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Chrysene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Di-n-butylphthalate (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Di-n-octylphthalate (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Dibenz(a,h)anthracene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Dibenzofuran (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Diethylphthalate (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Dimethylphthalate (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Fluoranthene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Fluorene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Hexachlorobenzene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
Hexachloroethane (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Isophorone (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
N-Nitrosodimethylamine (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
N-Nitrosodiphenylamine (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Nitrobenzene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Pentachlorophenol (mg/kg)	1.7 U			1.7 U	1.7 U			17 U		
Phenanthrene (mg/kg)	0.33 U			0.33 U	0.33 U			<b>2.1 J</b>		
Phenol (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
Pyrene (mg/kg)	0.33 U			0.33 U	0.33 U			3.3 U		
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
4,4'-DDE (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
4,4'-DDT (mg/kg)	0.005 U			0.005 U	<b>0.014</b>			0.005 U		
Aldrin (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Alpha-BHC (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Aroclor-1016 (mg/kg)					0.05 U					
Aroclor-1221 (mg/kg)					0.05 U					
Aroclor-1232 (mg/kg)					0.05 U					
Aroclor-1242 (mg/kg)					0.05 U					
Aroclor-1248 (mg/kg)					0.05 U					

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
Aroclor-1254 (mg/kg)					0.05 U					
Aroclor-1260 (mg/kg)					0.05 U					
Aroclor-1262 (mg/kg)					0.05 U					
Beta-BHC (mg/kg)	0.005 U			0.005 U	<b>0.013</b>			0.005 U		
Chlordane (mg/kg)	0.05 U			0.05 U	0.05 U			0.05 U		
Delta-BHC (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Dieldrin (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Endosulfan I (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Endosulfan II (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Endosulfan Sulfate (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Endrin (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Endrin Aldehyde (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Gamma-BHC (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Heptachlor (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Heptachlor Epoxide (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Methoxychlor (mg/kg)	0.005 U			0.005 U	0.005 U			0.005 U		
Toxaphene (mg/kg)	0.05 U			0.05 U	0.05 U			0.05 U		
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.6 U	0.06 U	0.064 U	0.064 U	1 U	1 U	0.1 U	0.06 U	0.06 U	0.06 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.05</b>	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.5 U	0.13 U	0.13 U	<b>0.05</b>	1 U	1 U	0.1 U	0.05 U	0.13 U	0.13 U
Carbophenothion (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-17-1.5	WRC-17-3.5	WRC-17-6.5	WRC-19-3.5	WRC-20-1.5	WRC-20-3.5	WRC-20-6.5	WRC-21-1.5	WRC-21-3.5	WRC-21-6.5
Sample Date	10/7/99	10/7/99	10/7/99	10/7/99	10/11/99	10/11/99	10/11/99	10/7/99	10/7/99	10/11/99
Horizon										
EPTC (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	<b>0.08</b>	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)		0.09 U		0.09 U	0.09 U		0.09 U	<b>0.35</b>	0.09 U	
Molinate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.5 U	0.05 U	0.05 U	0.05 U	0.5 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U



**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	3 U	2.9 U	3 U	3 U		3 U	3 U	3 U	3 U	2.9 U
Arsenic (mg/kg)	<b>1.1</b>	<b>1.7</b>	<b>2.3</b>	<b>4.8</b>		<b>5.1</b>	<b>2.3</b>	<b>2.6</b>	<b>1.5</b>	<b>1.5</b>
Barium (mg/kg)	<b>97</b>	<b>81</b>	<b>79</b>	<b>110</b>		<b>220</b>	<b>120</b>	<b>95</b>	<b>80</b>	<b>52</b>
Beryllium (mg/kg)	<b>0.47</b>	<b>0.22</b>	<b>0.15</b>	<b>0.56</b>		<b>0.26</b>	<b>0.51</b>	<b>0.31</b>	<b>0.47</b>	<b>0.16</b>
Cadmium (mg/kg)	0.25 U	0.24 U	<b>0.54</b>	<b>0.28</b>		0.25 U	0.25 U	<b>0.29</b>	<b>0.97</b>	0.24 U
Chromium (mg/kg)	<b>9.5</b>	<b>30</b>	<b>25</b>	<b>53</b>		<b>30</b>	<b>42</b>	<b>32</b>	<b>23</b>	<b>33</b>
Cobalt (mg/kg)	<b>5</b>	<b>3.9</b>	<b>8.7</b>	<b>9.8</b>		<b>15</b>	<b>11</b>	<b>9.5</b>	<b>5.6</b>	<b>5</b>
Copper (mg/kg)	<b>6.8</b>	<b>11</b>	<b>30</b>	<b>19</b>		<b>23</b>	<b>15</b>	<b>18</b>	<b>47</b>	<b>9</b>
Lead (mg/kg)	<b>8.6</b>	<b>4.2</b>	<b>12</b>	<b>40</b>		<b>23</b>	<b>4</b>	<b>5.4</b>	<b>3.2</b>	<b>19</b>
Mercury (mg/kg)	<b>0.11</b>	<b>0.061</b>	<b>0.16</b>	0.04 U		<b>0.077</b>	0.04 U	<b>0.081</b>	0.039 U	<b>0.047</b>
Molybdenum (mg/kg)	1 U	0.96 U	0.99 U	0.99 U		1 U	0.99 U	1 U	0.99 U	0.97 U
Nickel (mg/kg)	<b>12</b>	<b>20</b>	<b>21</b>	<b>71</b>		<b>25</b>	<b>130</b>	<b>32</b>	<b>15</b>	<b>24</b>
Selenium (mg/kg)	0.25 U	0.24 U	0.25 U	0.25 U		0.25 U	0.25 U	0.25 U	0.25 U	0.24 U
Silver (mg/kg)	0.5 U	0.48 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.48 U
Thallium (mg/kg)	0.25 U	0.24 U	0.25 U	0.25 U		0.25 U	0.25 U	0.25 U	0.25 U	0.24 U
Vanadium (mg/kg)	<b>17</b>	<b>21</b>	<b>19</b>	<b>24</b>		<b>27</b>	<b>23</b>	<b>29</b>	<b>16</b>	<b>21</b>
Zinc (mg/kg)	<b>24</b>	<b>17</b>	<b>87</b>	<b>32</b>		<b>36</b>	<b>25</b>	<b>39</b>		<b>29</b>
<b>2. pH</b>										
pH (SU)	<b>8.3</b>	<b>5.7</b>	<b>7.9</b>	<b>8.2</b>		<b>6.2</b>	<b>6.5</b>	<b>6.7</b>	<b>5</b>	<b>8</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloropropene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,3-Trichlorobenzene (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2,3-Trichloropropane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trichlorobenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromo-3-Chloropropane (mg/k)	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dibromoethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichlorobenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3,5-Trimethylbenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3-Dichlorobenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,3-Dichloropropane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,4-Dichlorobenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2,2-Dichloropropane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Butanone (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-Chlorotoluene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Hexanone (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
4-Chlorotoluene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
4-Methyl-2-Pentanone (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone (mg/kg)	0.05 U	<b>0.075</b>	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromobenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromochloromethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromodichloromethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromoform (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Bromomethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
c-1,2-Dichloroethene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
c-1,3-Dichloropropene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Disulfide (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Carbon Tetrachloride (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorobenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloromethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibromochloromethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dibromomethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Dichlorodifluoromethane (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Freon 113 (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Isopropylbenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
Methylene Chloride (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
MTBE (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
n-Butylbenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
o-Xylene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
sec-Butylbenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
tert-Butylbenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichlorofluoromethane (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Vinyl Acetate (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Vinyl Chloride (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2,4,6-Trichlorophenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2,4-Dichlorophenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2,4-Dimethylphenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2,4-Dinitrophenol (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
2,4-Dinitrotoluene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2,6-Dinitrotoluene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2-Chloronaphthalene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
2-Chlorophenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2-Methylnaphthalene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2-Methylphenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
2-Nitroaniline (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
2-Nitrophenol (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
3,3'-Dichlorobenzidine (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
3-,4-Methylphenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
3-Nitroaniline (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
4-Bromophenyl-phenylether (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
4-Chloro-3-methylphenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
4-Chloroaniline (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
4-Chlorophenyl-phenylether (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
4-Nitroaniline (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
4-Nitrophenol (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
Acenaphthene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Acenaphthylene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Anthracene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Azobenzene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Benzo(a)anthracene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Benzo(a)pyrene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Benzo(b,k)fluoranthene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Benzo(g,h,i)perylene (mg/kg)	0.33 U		0.33 U			<b>0.17 J</b>		0.33 U		0.33 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
Benzoic acid (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
Benzyl alcohol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
bis(2-Chloroethyl)ether (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Butylbenzylphthalate (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Chrysene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Di-n-butylphthalate (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Di-n-octylphthalate (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Dibenz(a,h)anthracene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Dibenzofuran (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Diesel C10-C24 (mg/kg)					<b>360 H</b>					
Diethylphthalate (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Dimethylphthalate (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Fluoranthene (mg/kg)	0.33 U		0.33 U			<b>0.37</b>		0.33 U		0.33 U
Fluorene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Gasoline C7-C12 (mg/kg)					1 U					
Hexachloro-1,3-butadiene (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Hexachlorobenzene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Hexachlorocyclopentadiene (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
Hexachloroethane (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U		0.33 U			<b>0.18 J</b>		0.33 U		0.33 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
Isophorone (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
N-Nitrosodimethylamine (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
N-Nitrosodiphenylamine (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
n-Propylbenzene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Nitrobenzene (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
p-Isopropyltoluene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
p/m-Xylene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Pentachlorophenol (mg/kg)	1.7 U		1.7 U			1.7 U		1.7 U		1.7 U
Phenanthrene (mg/kg)	0.33 U		0.33 U			<b>0.39</b>		0.33 U		0.33 U
Phenol (mg/kg)	0.33 U		0.33 U			0.33 U		0.33 U		0.33 U
Pyrene (mg/kg)	0.33 U		0.33 U			<b>0.35</b>		0.33 U		0.33 U
t-1,2-Dichloroethene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
t-1,3-Dichloropropene (mg/kg)	0.005 U	0.005 U	0.005 U	0.005 U		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.005 U		<b>0.0071</b>			<b>0.0072</b>		0.005 U		0.005 U
4,4'-DDE (mg/kg)	0.005 U		0.005 U			<b>0.0068</b>		0.005 U		0.005 U
4,4'-DDT (mg/kg)	0.005 U		<b>0.014</b>			0.005 U		0.005 U		0.005 U
Aldrin (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Alpha-BHC (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Aroclor-1016 (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Aroclor-1221 (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Aroclor-1232 (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
Aroclor-1242 (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Aroclor-1248 (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Aroclor-1254 (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Aroclor-1260 (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Aroclor-1262 (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Beta-BHC (mg/kg)	0.005 U		0.005 U			<b>0.0094</b>		0.005 U		0.005 U
Chlordane (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Delta-BHC (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Dieldrin (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Endosulfan I (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Endosulfan II (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Endosulfan Sulfate (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Endrin (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Endrin Aldehyde (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Gamma-BHC (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Heptachlor (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Heptachlor Epoxide (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Methoxychlor (mg/kg)	0.005 U		0.005 U			0.005 U		0.005 U		0.005 U
Toxaphene (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
Butylate (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
captan (mg/kg)	0.1 U		0.1 U			0.1 U		0.1 U		0.1 U



**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-30-1.5	WRC-30-3.5	WRC-31-1.5	WRC-31-4.0	WRC-31-8.0	WRC-32-1.5	WRC-32-3.5	WRC-33-1.5	WRC-33-3.5	WRC-34-1.5
Sample Date	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99	11/24/99
Horizon										
Carbophenothion (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
Cycloate (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
EPTC (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
Flurochloridone (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
Fonofos (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
Metam sodium (mg/kg)	0.09 U		<b>0.17</b>			0.09 U		0.09 U		<b>0.18</b>
Molinate (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
Napropamide (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
Pebulate (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
phosmet (mg/kg)	0.05 U		0.05 U			0.05 U		0.05 U		0.05 U
R25788 (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
R29148 (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U
Vernolate (mg/kg)	0.01 U		0.01 U			0.01 U		0.01 U		0.01 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC
Sample ID	WRC-34-3.5
Sample Date	11/24/99
Horizon	

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**1. Metals**

Antimony (mg/kg)	3 U
Arsenic (mg/kg)	<b>4.7</b>
Barium (mg/kg)	<b>92</b>
Beryllium (mg/kg)	<b>0.33</b>
Cadmium (mg/kg)	<b>0.28</b>
Chromium (mg/kg)	<b>38</b>
Cobalt (mg/kg)	<b>14</b>
Copper (mg/kg)	<b>27</b>
Lead (mg/kg)	<b>18</b>
Mercury (mg/kg)	<b>0.14</b>
Molybdenum (mg/kg)	0.99 U
Nickel (mg/kg)	<b>50</b>
Selenium (mg/kg)	0.25 U
Silver (mg/kg)	0.5 U
Thallium (mg/kg)	0.25 U
Vanadium (mg/kg)	<b>28</b>
Zinc (mg/kg)	<b>54</b>

**2. pH**

pH (SU)	<b>8.7</b>
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**3. VOCs**

1,1,1,2-Tetrachloroethane (mg/kg)	0.005 U
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**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC
Sample ID	WRC-34-3.5
Sample Date	11/24/99
Horizon	
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1,1,1-Trichloroethane (mg/kg)	0.005 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.005 U
1,1,2-Trichloroethane (mg/kg)	0.005 U
1,1-Dichloroethane (mg/kg)	0.005 U
1,1-Dichloroethene (mg/kg)	0.005 U
1,1-Dichloropropene (mg/kg)	0.005 U
1,2,3-Trichlorobenzene (mg/kg)	0.01 U
1,2,3-Trichloropropane (mg/kg)	0.005 U
1,2,4-Trichlorobenzene (mg/kg)	0.005 U
1,2,4-Trimethylbenzene (mg/kg)	0.005 U
1,2-Dibromo-3-Chloropropane (mg/k	0.01 U
1,2-Dibromoethane (mg/kg)	0.005 U
1,2-Dichlorobenzene (mg/kg)	0.005 U
1,2-Dichloroethane (mg/kg)	0.005 U
1,2-Dichloropropane (mg/kg)	0.005 U
1,3,5-Trimethylbenzene (mg/kg)	0.005 U
1,3-Dichlorobenzene (mg/kg)	0.005 U
1,3-Dichloropropane (mg/kg)	0.005 U
1,4-Dichlorobenzene (mg/kg)	0.005 U
2,2-Dichloropropane (mg/kg)	0.005 U
2-Butanone (mg/kg)	0.05 U
2-Chlorotoluene (mg/kg)	0.005 U
2-Hexanone (mg/kg)	0.05 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC
Sample ID	WRC-34-3.5
Sample Date	11/24/99
Horizon	
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4-Chlorotoluene (mg/kg)	0.005 U
4-Methyl-2-Pentanone (mg/kg)	0.05 U
Acetone (mg/kg)	0.05 U
Benzene (mg/kg)	0.005 U
Bromobenzene (mg/kg)	0.005 U
Bromochloromethane (mg/kg)	0.005 U
Bromodichloromethane (mg/kg)	0.005 U
Bromoform (mg/kg)	0.005 U
Bromomethane (mg/kg)	0.005 U
c-1,2-Dichloroethene (mg/kg)	0.005 U
c-1,3-Dichloropropene (mg/kg)	0.005 U
Carbon Disulfide (mg/kg)	0.05 U
Carbon Tetrachloride (mg/kg)	0.005 U
Chlorobenzene (mg/kg)	0.005 U
Chloroethane (mg/kg)	0.005 U
Chloroform (mg/kg)	0.005 U
Chloromethane (mg/kg)	0.005 U
Dibromochloromethane (mg/kg)	0.005 U
Dibromomethane (mg/kg)	0.005 U
Dichlorodifluoromethane (mg/kg)	0.005 U
Ethylbenzene (mg/kg)	0.005 U
Freon 113 (mg/kg)	0.05 U
Isopropylbenzene (mg/kg)	0.005 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC
Sample ID	WRC-34-3.5
Sample Date	11/24/99
Horizon	

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Methylene Chloride (mg/kg)	0.05 U
MTBE (mg/kg)	0.005 U
n-Butylbenzene (mg/kg)	0.005 U
Naphthalene (mg/kg)	0.05 U
o-Xylene (mg/kg)	0.005 U
sec-Butylbenzene (mg/kg)	0.005 U
Styrene (mg/kg)	0.005 U
tert-Butylbenzene (mg/kg)	0.005 U
Tetrachloroethene (mg/kg)	0.005 U
Toluene (mg/kg)	0.005 U
Trichloroethene (mg/kg)	0.005 U
Trichlorofluoromethane (mg/kg)	0.05 U
Vinyl Acetate (mg/kg)	0.05 U
Vinyl Chloride (mg/kg)	0.005 U

**4. Semivolatiles**

Hexachloro-1,3-butadiene (mg/kg)	0.01 U
n-Propylbenzene (mg/kg)	0.005 U
p-Isopropyltoluene (mg/kg)	0.005 U
p/m-Xylene (mg/kg)	0.005 U
t-1,2-Dichloroethene (mg/kg)	0.005 U
t-1,3-Dichloropropene (mg/kg)	0.005 U

**Table 3a WRC Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC
Sample ID	WRC-34-3.5
Sample Date	11/24/99
Horizon	

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**Notes**

Bolded values indicate detected compounds.

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

U = Not detected. Result shown is the detection limit.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper	Upper	Upper	Upper	Lower
<b>1. Metals</b>										
Antimony (ug/l)	60 U		60 U		60 U	60 U	60 U		60 U	60 U
Arsenic (ug/l)	5 U		5 U		5 U	5 U	5 U		5 U	5 U
Barium (ug/l)	<b>27</b>		<b>120</b>		<b>16</b>	<b>25</b>	<b>63</b>		<b>24</b>	<b>69</b>
Beryllium (ug/l)	2 U		2 U		2 U	2 U	2 U		2 U	2 U
Cadmium (ug/l)	5 U		5 U		5 U	<b>11</b>	5 U		5 U	5 U
Chromium (ug/l)	10 U		10 U		10 U	10 U	10 U		10 U	10 U
Cobalt (ug/l)	20 U		20 U		20 U	20 U	20 U		20 U	20 U
Copper (ug/l)	10 U		10 U		10 U	10 U	10 U		10 U	10 U
Lead (ug/l)	3 U		3 U		3 U	3 U	3 U		3 U	3 U
Mercury (ug/l)	0.2 U		0.2 U		0.2 U	0.2 U	0.2 U		0.2 U	0.2 U
Molybdenum (ug/l)	20 U		20 U		20 U	20 U	20 U		20 U	20 U
Nickel (ug/l)	20 U		20 U		<b>33</b>	<b>44</b>	20 U		20 U	20 U
Selenium (ug/l)	<b>7.2</b>		5 U		5 U	<b>5.1</b>	5 U		<b>5.9</b>	5 U
Silver (ug/l)	5 U		5 U		5 U	5 U	5 U		5 U	5 U
Thallium (ug/l)	5 U		5 U		5 U	5 U	5 U		5 U	5 U
Vanadium (ug/l)	10 U		10 U		10 U	10 U	10 U		10 U	10 U
Zinc (ug/l)	20 U		20 U		<b>200</b>	<b>1400</b>	<b>24</b>		<b>26</b>	<b>27</b>
<b>2. pH</b>										
pH (SU)	<b>7.02</b>	<b>6.68</b>				<b>6.15</b>		<b>7.17</b>	<b>6.72</b>	<b>7.19</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper	Upper	Upper	Upper	Lower
1,1,1-Trichloroethane (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,1,2,2-Tetrachloroethane (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,1,2-Trichloroethane (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,1-Dichloroethane (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,1-Dichloroethene (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,1-Dichloropropene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,2,3-Trichlorobenzene (ug/l)				1 U	<b>2.9</b>	3.6 U	0.5 U		0.5 U	0.5 U
1,2,3-Trichloropropane (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,2,4-Trichlorobenzene (ug/l)				1 U	<b>1.9</b>	3.6 U	0.5 U		0.5 U	0.5 U
1,2,4-Trimethylbenzene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane (ug/l)				5 U	5 U	3.6 U	0.5 U		0.5 U	0.5 U
1,2-Dibromoethane (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,2-Dichlorobenzene (ug/l)	20 U			1 U	<b>25</b>	<b>10</b>	0.5 U		<b>0.5</b>	0.5 U
1,2-Dichloroethane (ug/l)	20 U			0.5 U	<b>13</b>	<b>35</b>	0.5 U		0.5 U	0.5 U
1,2-Dichloropropane (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,3,5-Trimethylbenzene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,3-Dichlorobenzene (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,3-Dichloropropane (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
1,4-Dichlorobenzene (ug/l)	20 U			1 U	<b>4.8</b>	3.6 U	0.5 U		0.5 U	0.5 U
2,2-Dichloropropane (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
2-Butanone (ug/l)				10 U	10 U	71 U	10 U		10 U	10 U
2-Chloroethyl Vinyl Ether (ug/l)				2 U	2 U					
2-Chloroethylvinylether (ug/l)						71 U	10 U		10 U	10 U



**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper	Upper	Upper	Upper	Lower
2-Chlorotoluene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
2-Hexanone (ug/l)				10 U	10 U	71 U	10 U		10 U	10 U
4-Chlorotoluene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
4-Methyl-2-Pentanone (ug/l)				10 U	10 U	71 U	10 U		10 U	10 U
Acetone (ug/l)				10 U	10 U	71 U	10 U		10 U	10 U
Benzene (ug/l)	20 U			0.5 U	0.5 U	3.6 U	0.5 U		0.5 U	0.5 U
Bromobenzene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Bromochloromethane (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Bromodichloromethane (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Bromoform (ug/l)	20 U			1 U	1 U	7.1 U	1 U		1 U	1 U
Bromomethane (ug/l)	40 U			1 U	1 U	7.1 U	1 U		1 U	1 U
c-1,2-Dichloroethene (ug/l)				1 U	<b>5</b>					
c-1,3-Dichloropropene (ug/l)				0.5 U	0.5 U					
Carbon Disulfide (ug/l)	20 U			10 U	10 U	3.6 U	0.5 U		0.5 U	0.5 U
Carbon Tetrachloride (ug/l)	20 U			0.5 U	0.5 U	3.6 U	0.5 U		0.5 U	0.5 U
Chlorobenzene (ug/l)	20 U			<b>2.3</b>	<b>410 D</b>	<b>900</b>	0.5 U		0.5 U	0.5 U
Chloroethane (ug/l)	40 U			1 U	1 U	7.1 U	1 U		1 U	1 U
Chloroform (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Chloromethane (ug/l)	40 U			1 U	1 U	7.1 U	1 U		1 U	1 U
cis-1,2-Dichloroethene (ug/l)	<b>880</b>					3.6 U	0.5 U		<b>0.7</b>	0.5 U
cis-1,3-Dichloropropene (ug/l)	20 U					3.6 U	0.5 U		0.5 U	0.5 U
Dibromochloromethane (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Dibromomethane (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper	Upper	Upper	Upper	Lower
Dichlorodifluoromethane (ug/l)				1 U	1 U					
Ethylbenzene (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Freon 113 (ug/l)	200 U			10 U	10 U	36 U	5 U		5 U	5 U
Freon 12 (ug/l)	80 U					7.1 U	1 U		1 U	1 U
Hexachlorobutadiene (ug/l)						3.6 U	0.5 U		0.5 U	0.5 U
Isopropylbenzene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
m,p-Xylenes (ug/l)	20 U					3.6 U	0.5 U		0.5 U	0.5 U
Methylene Chloride (ug/l)	200 U			10 U	10 U	36 U	5 U		5 U	5 U
MTBE (ug/l)	20 U			1 U	1 U	3.6 U	<b>8.2</b>		0.5 U	0.5 U
n-Butylbenzene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Naphthalene (ug/l)				10 U	10 U	3.6 U	0.5 U		0.5 U	0.5 U
o-Xylene (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
para-Isopropyl Toluene (ug/l)						3.6 U	0.5 U		0.5 U	0.5 U
Propylbenzene (ug/l)						3.6 U	0.5 U		0.5 U	0.5 U
sec-Butylbenzene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Styrene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
tert-Butylbenzene (ug/l)				1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
Tetrachloroethene (ug/l)	20 U			1 U	<b>53</b>	<b>170</b>	0.5 U		0.5 U	0.5 U
Toluene (ug/l)	20 U			1 U	1 U	3.6 U	0.5 U		0.5 U	0.5 U
trans-1,2-Dichloroethene (ug/l)	20 U					3.6 U	0.5 U		0.5 U	0.5 U
trans-1,3-Dichloropropene (ug/l)	20 U					3.6 U	0.5 U		0.5 U	0.5 U
Trichloroethene (ug/l)	<b>4900</b>			1 U	<b>61</b>	<b>100</b>	0.5 U		<b>2.2</b>	0.5 U
Trichlorofluoromethane (ug/l)	20 U			10 U	10 U	3.6 U	0.5 U		0.5 U	0.5 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper		Upper	Upper	Lower
Vinyl Acetate (ug/l)				10 U	10 U	71 U	10 U		10 U	10 U
Vinyl Chloride (ug/l)	20 U			0.5 U	1.7	3.6 U	0.5 U		0.5 U	0.5 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2,4,6-Trichlorophenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2,4-Dichlorophenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2,4-Dimethylphenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2,4-Dinitrophenol (ug/l)	56 U				49 U		51 U		52 U	47 U
2,4-Dinitrotoluene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2,6-Dinitrotoluene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2-Chloronaphthalene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2-Chlorophenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2-Methylnaphthalene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2-Methylphenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
2-Nitroaniline (ug/l)	56 U				49 U		51 U		52 U	47 U
2-Nitrophenol (ug/l)	56 U				49 U		51 U		52 U	47 U
3,3'-Dichlorobenzidine (ug/l)	56 U				49 U		51 U		52 U	47 U
3-,4-Methylphenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
3-Nitroaniline (ug/l)	56 U				49 U		51 U		52 U	47 U
4,6-Dinitro-2-methylphenol (ug/l)	56 U				49 U		51 U		52 U	47 U
4-Bromophenyl-phenylether (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
4-Chloro-3-methylphenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
4-Chloroaniline (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper	Upper	Upper	Upper	Lower
4-Chlorophenyl-phenylether (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
4-Nitroaniline (ug/l)	56 U				49 U		51 U		52 U	47 U
4-Nitrophenol (ug/l)	56 U				49 U		51 U		52 U	47 U
Acenaphthene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Acenaphthylene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Anthracene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Azobenzene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Benzo(a)anthracene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Benzo(a)pyrene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Benzo(b,k)fluoranthene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Benzo(g,h,i)perylene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Benzoic acid (ug/l)	56 U				49 U		51 U		52 U	47 U
Benzyl alcohol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
bis(2-Chloroethoxy)methane (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
bis(2-Chloroethyl)ether (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
bis(2-Chloroisopropyl) ether (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
bis(2-Ethylhexyl)phthalate (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Butylbenzylphthalate (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Chrysene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Di-n-butylphthalate (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Di-n-octylphthalate (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Dibenz(a,h)anthracene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Dibenzofuran (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper	Upper	Upper	Upper	Lower
Diethylphthalate (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Dimethylphthalate (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Fluoranthene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Fluorene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Hexachloro-1,3-butadiene (ug/l)				2 U	2 U					
Hexachlorobenzene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Hexachlorocyclopentadiene (ug/l)	56 U				49 U		51 U		52 U	47 U
Hexachloroethane (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Indeno(1,2,3-cd)pyrene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Isophorone (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
N-Nitroso-di-n-propylamine (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
N-Nitrosodimethylamine (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
N-Nitrosodiphenylamine (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
n-Propylbenzene (ug/l)				1 U	1 U					
Nitrobenzene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
p-Isopropyltoluene (ug/l)				1 U	1 U					
p/m-Xylene (ug/l)				1 U	1 U					
Pentachlorophenol (ug/l)	56 U				49 U		51 U		52 U	47 U
Phenanthrene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Phenol (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
Pyrene (ug/l)	11 U				9.7 U		10 U		10 U	9.4 U
t-1,2-Dichloroethene (ug/l)				1 U	1 U					
t-1,3-Dichloropropene (ug/l)				0.5 U	0.5 U					

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper		Upper	Upper	Lower

**5. Pesticides/PCBs**

4,4'-DDD (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
4,4'-DDE (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
4,4'-DDT (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Aldrin (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Alpha-BHC (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Aroclor-1016 (ug/l)	1 U				1 U		1 U		1 U	1 U
Aroclor-1221 (ug/l)	1 U				1 U		1 U		1 U	1 U
Aroclor-1232 (ug/l)	1 U				1 U		1 U		1 U	1 U
Aroclor-1242 (ug/l)	1 U				1 U		1 U		1 U	1 U
Aroclor-1248 (ug/l)	1 U				1 U		1 U		1 U	1 U
Aroclor-1254 (ug/l)	1 U				1 U		1 U		1 U	1 U
Aroclor-1260 (ug/l)	1 U				1 U		1 U		1 U	1 U
Aroclor-1262 (ug/l)	1 U				1 U		1 U		1 U	1 U
Beta-BHC (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Chlordane (ug/l)	1 U				1 U		1 U		1 U	1 U
Delta-BHC (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Dieldrin (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Endosulfan I (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Endosulfan II (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Endosulfan Sulfate (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Endrin (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Endrin Aldehyde (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper		Upper	Upper	Lower
Gamma-BHC (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Heptachlor (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Heptachlor Epoxide (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Methoxychlor (ug/l)	0.1 U				0.1 U		0.1 U		0.1 U	0.1 U
Toxaphene (ug/l)	1 U				1 U		1 U		1 U	1 U
<b>6. Proprietary Pesticides</b>										
bensulide (ug/l)							32 U		32 U	6 U
Butylate (ug/l)							1 U		1 U	1 U
captan (ug/l)							5 U		5 U	5 U
carbophenothion (ug/l)							1 U		1 U	1 U
Cycloate (ug/l)							1 U		1 U	1 U
EPTC (ug/l)							1 U		1 U	1 U
flurochloridone (ug/l)							5 U		5 U	5 U
Fonofos (ug/l)							1 U		1 U	1 U
Metam sodium (ug/l)							9 U		9 U	
Molinate (ug/l)							1 U		1 U	1 U
Napropamide (ug/l)							<b>1</b>		1 U	1 U
Pebulate (ug/l)							1 U		1 U	1 U
phosmet (ug/l)							5 U		5 U	5 U
R25788 (ug/l)							1 U		1 U	1 U
R29148 (ug/l)							1 U		1 U	1 U
Vernolate (ug/l)							1 U		1 U	1 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	H-06	H-10	H-10	H-10	H-14	H-66	H-67	H-67	H-69	H-77
Sample Date	10/6/99	10/7/99	10/8/99	11/24/99	11/24/99	10/19/99	10/20/99	10/22/99	10/22/99	11/5/99
Horizon	Upper					Upper	Upper	Upper	Upper	Lower

**7. Field Measurements and Physical Properties**

Total Dissolved Solids (ug/l)	<b>3910000</b>	<b>500000</b>
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**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01	WRC-01	WRC-04	WRC-05	WRC-06	WRC-06	WRC-07	WRC-08	WRC-11	WRC-12
Sample Date	10/6/99	10/8/99	10/7/99	10/6/99	10/7/99	10/11/99	10/6/99	10/6/99	10/8/99	10/8/99
Horizon										
<b>1. Metals</b>										
Antimony (ug/l)	60 U		60 U	60 U	60 U		60 U	60 U	60 U	60 U
Arsenic (ug/l)	<b>70</b>		5 U	<b>66</b>	<b>120</b>		5 U	<b>5.3</b>	5 U	5 U
Barium (ug/l)	<b>610</b>		<b>38</b>	<b>87</b>	<b>270</b>		<b>40</b>	<b>40</b>	<b>140</b>	<b>130</b>
Beryllium (ug/l)	2 U		2 U	2 U	2 U		2 U	2 U	2 U	2 U
Cadmium (ug/l)	5 U		5 U	5 U	5 U		5 U	5 U	5 U	5 U
Chromium (ug/l)	10 U		10 U	<b>24</b>	<b>60</b>		10 U	10 U	10 U	10 U
Cobalt (ug/l)	<b>34</b>		<b>42</b>	20 U	20 U		20 U	<b>28</b>	20 U	20 U
Copper (ug/l)	10 U		10 U	10 U	10 U		10 U	10 U	10 U	10 U
Lead (ug/l)	3 U		3 U	3 U	3 U		3 U	3 U	3 U	3 U
Mercury (ug/l)	<b>0.6</b>		0.2 U	0.2 U	0.2 U		0.2 U	0.2 U	0.2 U	0.2 U
Molybdenum (ug/l)	20 U		20 U	20 U	<b>64</b>		20 U	<b>21</b>	20 U	20 U
Nickel (ug/l)	20 U		<b>52</b>	20 U	20 U		<b>23</b>	<b>25</b>	20 U	20 U
Selenium (ug/l)	<b>13</b>		<b>8.2</b>	<b>8.2</b>	<b>16</b>		<b>6.7</b>	<b>5</b>	5 U	5 U
Silver (ug/l)	5 U		5 U	5 U	5 U		5 U	5 U	5 U	5 U
Thallium (ug/l)	5 U		5 U	5 U	5 U		5 U	5 U	5 U	5 U
Vanadium (ug/l)	10 U		10 U	<b>70</b>	<b>190</b>		10 U	10 U	10 U	10 U
Zinc (ug/l)	20 U		20 U	20 U	20 U		20 U	20 U	20 U	20 U
<b>2. pH</b>										
pH (SU)	<b>6.63</b>	<b>6.21</b>	<b>6.54</b>	<b>6.75</b>	<b>6.96</b>		<b>7.81</b>	<b>7.52</b>	<b>6.76</b>	<b>6.04</b>
<b>3. VOCs</b>										
1,1,1-Trichloroethane (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01	WRC-01	WRC-04	WRC-05	WRC-06	WRC-06	WRC-07	WRC-08	WRC-11	WRC-12
Sample Date	10/6/99	10/8/99	10/7/99	10/6/99	10/7/99	10/11/99	10/6/99	10/6/99	10/8/99	10/8/99
Horizon										
1,1,2,2-Tetrachloroethane (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	<b>0.6</b>	0.5 U
1,1-Dichloroethene (ug/l)	1300 U		<b>2.4</b>	3.1 U	5 U		0.5 U	0.5 U	<b>1.7</b>	0.5 U
1,2-Dichlorobenzene (ug/l)	1300 U		<b>29</b>	<b>6.1</b>	<b>120</b>		<b>18</b>	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane (ug/l)	1300 U		<b>75</b>	<b>29</b>	<b>200</b>		<b>12</b>	<b>0.8</b>	0.5 U	0.5 U
1,2-Dichloropropane (ug/l)	1300 U		<b>1.8</b>	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene (ug/l)	1300 U		<b>0.6</b>	<b>6.1</b>	5 U		<b>4.6</b>	0.5 U	0.5 U	0.5 U
Benzene (ug/l)	1300 U		<b>4.9</b>	<b>700</b>	<b>1100</b>		0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Bromoform (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane (ug/l)	2500 U		1 U	6.3 U	10 U		1 U	1 U	1 U	1 U
Carbon Disulfide (ug/l)	1300 U		<b>1.7</b>	3.1 U	<b>5.2</b>		0.5 U	<b>0.7</b>	0.5 U	0.5 U
Carbon Tetrachloride (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene (ug/l)	1300 U		<b>96</b>	<b>52</b>	<b>140</b>		<b>160</b>	<b>1.1</b>	0.5 U	0.5 U
Chloroethane (ug/l)	2500 U		1 U	6.3 U	10 U		1 U	1 U	1 U	1 U
Chloroform (ug/l)	1300 U		<b>0.6</b>	3.1 U	5 U		<b>0.5</b>	0.5 U	0.5 U	0.5 U
Chloromethane (ug/l)	2500 U		1 U	6.3 U	10 U		1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene (ug/l)	1300 U		<b>89</b>	3.1 U	<b>40</b>		<b>6.4</b>	<b>2.2</b>	0.5 U	0.5 U
cis-1,3-Dichloropropene (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene (ug/l)	1300 U		0.5 U	<b>8.8</b>	5 U		0.5 U	0.5 U	0.5 U	0.5 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01	WRC-01	WRC-04	WRC-05	WRC-06	WRC-06	WRC-07	WRC-08	WRC-11	WRC-12
Sample Date	10/6/99	10/8/99	10/7/99	10/6/99	10/7/99	10/11/99	10/6/99	10/6/99	10/8/99	10/8/99
Horizon										
Freon 113 (ug/l)	13000 U		5 U	31 U	50 U		5 U	5 U	<b>6.7</b>	5 U
Freon 12 (ug/l)	5000 U		2 U	13 U	20 U		2 U	2 U	2 U	2 U
m,p-Xylenes (ug/l)	1300 U		0.5 U	<b>56</b>	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride (ug/l)	13000 U		5 U	31 U	50 U		5 U	5 U	5 U	5 U
MTBE (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	<b>1.6</b>
o-Xylene (ug/l)	1300 U		0.5 U	<b>28</b>	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene (ug/l)	1300 U		<b>9.2</b>	3.1 U	5 U		<b>25</b>	<b>2.1</b>	<b>0.7</b>	0.5 U
Toluene (ug/l)	<b>300000</b>		0.5 U	<b>73</b>	<b>12</b>		0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene (ug/l)	1300 U		<b>1.8</b>	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene (ug/l)	<b>16</b>		<b>96</b>	3.1 U	<b>13</b>		<b>36</b>	<b>9.8</b>	0.5 U	0.5 U
Trichlorofluoromethane (ug/l)	1300 U		0.5 U	3.1 U	5 U		0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride (ug/l)	1300 U		<b>7.6</b>	<b>4.4</b>	<b>25</b>		0.5 U	0.5 U	0.5 U	0.5 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
2,4,6-Trichlorophenol (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
2,4-Dichlorophenol (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
2,4-Dimethylphenol (ug/l)	1000 U		11 U	<b>1300</b>	<b>710</b>		10 U	11 U	9.5 U	10 U
2,4-Dinitrophenol (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
2,4-Dinitrotoluene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
2,6-Dinitrotoluene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
2-Chloronaphthalene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
2-Chlorophenol (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01	WRC-01	WRC-04	WRC-05	WRC-06	WRC-06	WRC-07	WRC-08	WRC-11	WRC-12
Sample Date	10/6/99	10/8/99	10/7/99	10/6/99	10/7/99	10/11/99	10/6/99	10/6/99	10/8/99	10/8/99
Horizon										
2-Methylnaphthalene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
2-Methylphenol (ug/l)	1000 U		11 U	<b>1800</b>	110 U		10 U	11 U	9.5 U	10 U
2-Nitroaniline (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
2-Nitrophenol (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
3,3'-Dichlorobenzidine (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
3-,4-Methylphenol (ug/l)	1000 U		11 U	<b>6600</b>	110 U		10 U	11 U	9.5 U	10 U
3-Nitroaniline (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
4,6-Dinitro-2-methylphenol (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
4-Bromophenyl-phenylether (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
4-Chloro-3-methylphenol (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
4-Chloroaniline (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
4-Chlorophenyl-phenylether (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
4-Nitroaniline (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
4-Nitrophenol (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
Acenaphthene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Acenaphthylene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Anthracene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Azobenzene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Benzo(a)anthracene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Benzo(a)pyrene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Benzo(b,k)fluoranthene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Benzo(g,h,i)perylene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Benzoic acid (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01	WRC-01	WRC-04	WRC-05	WRC-06	WRC-06	WRC-07	WRC-08	WRC-11	WRC-12
Sample Date	10/6/99	10/8/99	10/7/99	10/6/99	10/7/99	10/11/99	10/6/99	10/6/99	10/8/99	10/8/99
Horizon										
Benzyl alcohol (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
bis(2-Chloroethoxy)methane (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
bis(2-Chloroethyl)ether (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
bis(2-Chloroisopropyl) ether (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
bis(2-Ethylhexyl)phthalate (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Butylbenzylphthalate (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Chrysene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Di-n-butylphthalate (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Di-n-octylphthalate (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Dibenz(a,h)anthracene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Dibenzofuran (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Diethylphthalate (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Dimethylphthalate (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Fluoranthene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Fluorene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Hexachlorobenzene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Hexachlorocyclopentadiene (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
Hexachloroethane (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Indeno(1,2,3-cd)pyrene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Isophorone (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
N-Nitroso-di-n-propylamine (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
N-Nitrosodimethylamine (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
N-Nitrosodiphenylamine (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01	WRC-01	WRC-04	WRC-05	WRC-06	WRC-06	WRC-07	WRC-08	WRC-11	WRC-12
Sample Date	10/6/99	10/8/99	10/7/99	10/6/99	10/7/99	10/11/99	10/6/99	10/6/99	10/8/99	10/8/99
Horizon										
Nitrobenzene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Pentachlorophenol (ug/l)	5200 U		54 U	2100 U	540 U		52 U	53 U	48 U	52 U
Phenanthrene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
Phenol (ug/l)	1000 U		11 U	<b>2400</b>	110 U		10 U	11 U	9.5 U	10 U
Pyrene (ug/l)	1000 U		11 U	430 U	110 U		10 U	11 U	9.5 U	10 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (ug/l)		0.1 U		<b>63</b>		0.1 U	0.1 U	<b>0.2</b>		
4,4'-DDE (ug/l)		0.1 U		10 U		0.1 U	0.1 U	<b>0.11</b>		
4,4'-DDT (ug/l)		0.1 U		10 U		0.1 U	0.1 U	<b>0.29</b>		
Aldrin (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Alpha-BHC (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Aroclor-1016 (ug/l)		1 U	1 U	100 U		1 U	1 U	1 U	1 U	1 U
Aroclor-1221 (ug/l)		1 U	1 U	100 U		1 U	1 U	1 U	1 U	1 U
Aroclor-1232 (ug/l)		1 U	1 U	100 U		1 U	1 U	1 U	1 U	1 U
Aroclor-1242 (ug/l)		1 U	1 U	100 U		1 U	1 U	1 U	1 U	1 U
Aroclor-1248 (ug/l)		1 U	1 U	100 U		1 U	1 U	1 U	1 U	1 U
Aroclor-1254 (ug/l)		1 U	1 U	100 U		1 U	1 U	1 U	1 U	1 U
Aroclor-1260 (ug/l)		1 U	1 U	100 U		1 U	1 U	1 U	1 U	1 U
Aroclor-1262 (ug/l)		1 U	1 U	100 U		1 U	1 U	1 U	1 U	1 U
Beta-BHC (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Chlordane (ug/l)		1 U		100 U		1 U	1 U	1 U		
Delta-BHC (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Dieldrin (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01	WRC-01	WRC-04	WRC-05	WRC-06	WRC-06	WRC-07	WRC-08	WRC-11	WRC-12
Sample Date	10/6/99	10/8/99	10/7/99	10/6/99	10/7/99	10/11/99	10/6/99	10/6/99	10/8/99	10/8/99
Horizon										
Endosulfan I (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Endosulfan II (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Endosulfan Sulfate (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Endrin (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Endrin Aldehyde (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Gamma-BHC (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Heptachlor (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Heptachlor Epoxide (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Methoxychlor (ug/l)		0.1 U		10 U		0.1 U	0.1 U	0.1 U		
Toxaphene (ug/l)		1 U		100 U		1 U	1 U	1 U		
<b>6. Proprietary Pesticides</b>										
bensulide (ug/l)	5 U		5 U	50 U	5 U		5 U	5 U	5 U	5 U
Butylate (ug/l)	1 U		1 U	6	2		1 U	1 U	1 U	1 U
captan (ug/l)	25 U		25 U	50 U	25 U		25 U	25 U	25 U	25 U
carbophenothion (ug/l)	1 U		1 U	1 U	1 U		5 U	1 U	1 U	1 U
Cycloate (ug/l)	1 U		1	1 U	1		1 U	1 U	1 U	1 U
EPTC (ug/l)	1 U		174	3860	2		64	1 U	1 U	1 U
flurochloridone (ug/l)	5 U		5 U	5 U	5 U		1 U	5 U	5 U	5 U
Fonofos (ug/l)	1 U		1 U	1 U	1 U		1 U	1 U	3	1 U
Metam sodium (ug/l)	9 U		9 U	9 U	9 U		9 U	9 U	9 U	9 U
Molinate (ug/l)	10		120	44	25		1 U	1 U	1 U	1 U
Napropamide (ug/l)	640		146	242	22		7	1	1 U	1
Pebulate (ug/l)	220		6	228	1		1 U	1 U	1 U	1 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-01	WRC-01	WRC-04	WRC-05	WRC-06	WRC-06	WRC-07	WRC-08	WRC-11	WRC-12
Sample Date	10/6/99	10/8/99	10/7/99	10/6/99	10/7/99	10/11/99	10/6/99	10/6/99	10/8/99	10/8/99
Horizon										
phosmet (ug/l)	5 U		5 U	50 U	5 U		5 U	5 U	5 U	5 U
R25788 (ug/l)	<b>16</b>		<b>207</b>	1 U	1 U		<b>14</b>	<b>2</b>	1 U	1 U
R29148 (ug/l)	1 U		1 U	1 U	<b>6</b>		1 U	1 U	1 U	1 U
Vernolate (ug/l)	1 U		<b>5</b>	<b>15</b>	1 U		1 U	1 U	1 U	1 U



**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
<b>1. Metals</b>									
Antimony (ug/l)	60 U	60 U	60 U			60 U	60 U	60 U	60 U
Arsenic (ug/l)	5 U	5 U	5 U			5 U	5 U	5 U	5 U
Barium (ug/l)	<b>85</b>	<b>130</b>	<b>99</b>			<b>34</b>	<b>41</b>	<b>52</b>	<b>34</b>
Beryllium (ug/l)	2 U	2 U	2 U			2 U	<b>4.4</b>	2 U	2 U
Cadmium (ug/l)	5 U	5 U	5 U			5 U	<b>38</b>	5 U	5 U
Chromium (ug/l)	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Cobalt (ug/l)	20 U	20 U	20 U			20 U	<b>250</b>	20 U	20 U
Copper (ug/l)	10 U	10 U	10 U			10 U	<b>530</b>	10 U	10 U
Lead (ug/l)	3 U	3 U	3 U			3 U	3 U	3 U	3 U
Mercury (ug/l)	0.2 U	0.2 U	0.2 U			0.2 U	0.2 U	0.2 U	0.2 U
Molybdenum (ug/l)	<b>47</b>	<b>24</b>	20 U			20 U	20 U	20 U	20 U
Nickel (ug/l)	20 U	20 U	<b>39</b>			<b>35</b>	<b>720</b>	<b>34</b>	20 U
Selenium (ug/l)	<b>6.4</b>	5 U	<b>5.1</b>			5 U	<b>6</b>	5 U	5 U
Silver (ug/l)	5 U	5 U	5 U			5 U	5 U	5 U	5 U
Thallium (ug/l)	5 U	5 U	5 U			5 U	5 U	5 U	5 U
Vanadium (ug/l)	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Zinc (ug/l)	20 U	20 U	20 U			20 U	<b>3300</b>	<b>21</b>	20 U
<b>2. pH</b>									
pH (SU)	<b>6.85</b>	<b>7</b>	<b>6.7</b>	<b>2.59</b>	<b>5.96</b>		<b>3.9</b>	<b>5.79</b>	
<b>3. VOCs</b>									
1,1,1,2-Tetrachloroethane (ug/l)	0.5 U						0.5 U		1 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
1,1,1-Trichloroethane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
1,1,2,2-Tetrachloroethane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
1,1,2-Trichloroethane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
1,1-Dichloroethane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
1,1-Dichloroethene (ug/l)	<b>1.7</b>	0.5 U	0.5 U			<b>7.3</b>	0.5 U	13 U	1 U
1,1-Dichloropropene (ug/l)	0.5 U						0.5 U		1 U
1,2,3-Trichlorobenzene (ug/l)	0.5 U						0.5 U		<b>1</b>
1,2,3-Trichloropropane (ug/l)	0.5 U						0.5 U		1 U
1,2,4-Trichlorobenzene (ug/l)	0.5 U						0.5 U		1 U
1,2,4-Trimethylbenzene (ug/l)	0.5 U						<b>1.7</b>		<b>1.4</b>
1,2-Dibromo-3-Chloropropane (ug/l)	0.5 U						0.5 U		5 U
1,2-Dibromoethane (ug/l)	0.5 U						0.5 U		1 U
1,2-Dichlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
1,2-Dichloroethane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	0.5 U
1,2-Dichloropropane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
1,3,5-Trimethylbenzene (ug/l)	0.5 U						0.5 U		1 U
1,3-Dichlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
1,3-Dichloropropane (ug/l)	0.5 U						0.5 U		1 U
1,4-Dichlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
2,2-Dichloropropane (ug/l)	0.5 U						0.5 U		1 U
2-Butanone (ug/l)	10 U						10 U		10 U
2-Chloroethyl Vinyl Ether (ug/l)									2 U
2-Chloroethylvinylether (ug/l)	10 U						10 U		

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
2-Chlorotoluene (ug/l)	0.5 U						0.5 U		1 U
2-Hexanone (ug/l)	10 U						10 U		10 U
4-Chlorotoluene (ug/l)	0.5 U						0.5 U		1 U
4-Methyl-2-Pentanone (ug/l)	10 U						10 U		10 U
Acetone (ug/l)	10 U						<b>14</b>		10 U
Benzene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	<b>0.6</b>	13 U	0.5 U
Bromobenzene (ug/l)	0.5 U						0.5 U		1 U
Bromochloromethane (ug/l)	0.5 U						0.5 U		1 U
Bromodichloromethane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
Bromoform (ug/l)	1 U	0.5 U	0.5 U			1.7 U	1 U	13 U	1 U
Bromomethane (ug/l)	1 U	1 U	1 U			3.3 U	1 U	25 U	1 U
c-1,2-Dichloroethene (ug/l)									1 U
c-1,3-Dichloropropene (ug/l)									0.5 U
Carbon Disulfide (ug/l)	0.5 U	0.5 U	0.5 U			<b>2.6</b>	0.5 U	13 U	10 U
Carbon Tetrachloride (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	0.5 U
Chlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
Chloroethane (ug/l)	1 U	1 U	1 U			3.3 U	1 U	25 U	1 U
Chloroform (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	<b>18</b>	13 U	1 U
Chloromethane (ug/l)	1 U	1 U	1 U			3.3 U	1 U	25 U	1 U
cis-1,2-Dichloroethene (ug/l)	0.5 U	0.5 U	0.5 U			<b>85</b>	0.5 U	<b>14</b>	
cis-1,3-Dichloropropene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	
Dibromochloromethane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	1 U
Dibromomethane (ug/l)	0.5 U						0.5 U		1 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
Dichlorodifluoromethane (ug/l)									1 U
Ethylbenzene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	<b>5.6</b>	13 U	1 U
Freon 113 (ug/l)	5 U	5 U	5 U			17 U	5 U	130 U	10 U
Freon 12 (ug/l)	1 U	2 U	2 U			6.7 U	1 U	50 U	
Hexachlorobutadiene (ug/l)	0.5 U						0.5 U		
Isopropylbenzene (ug/l)	0.5 U						0.5 U		1 U
m,p-Xylenes (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	<b>21</b>	13 U	
Methylene Chloride (ug/l)	5 U	5 U	5 U			17 U	5 U	130 U	10 U
MTBE (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	<b>1</b>	13 U	1 U
n-Butylbenzene (ug/l)	0.5 U						0.5 U		1 U
Naphthalene (ug/l)	0.5 U						0.5 U		10 U
o-Xylene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	<b>7.8</b>	13 U	<b>1.1</b>
para-Isopropyl Toluene (ug/l)	0.5 U						0.5 U		
Propylbenzene (ug/l)	0.5 U						0.5 U		
sec-Butylbenzene (ug/l)	0.5 U						0.5 U		1 U
Styrene (ug/l)	0.5 U						0.5 U		1 U
tert-Butylbenzene (ug/l)	0.5 U						0.5 U		1 U
Tetrachloroethene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	<b>6.5</b>	<b>140</b>	<b>19</b>
Toluene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	<b>5.7</b>	13 U	<b>1.7</b>
trans-1,2-Dichloroethene (ug/l)	0.5 U	0.5 U	0.5 U			<b>2.4</b>	0.5 U	13 U	
trans-1,3-Dichloropropene (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	
Trichloroethene (ug/l)	<b>16</b>	0.5 U	<b>2.9</b>			<b>400</b>	<b>19</b>	<b>4500</b>	<b>25</b>
Trichlorofluoromethane (ug/l)	0.5 U	0.5 U	0.5 U			1.7 U	0.5 U	13 U	10 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
Vinyl Acetate (ug/l)	10 U						10 U		10 U
Vinyl Chloride (ug/l)	0.5 U	0.5 U	0.5 U			12	0.5 U	13 U	0.5 U
<b>4. Semivolatiles</b>									
2,4,5-Trichlorophenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2,4,6-Trichlorophenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2,4-Dichlorophenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2,4-Dimethylphenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2,4-Dinitrophenol (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
2,4-Dinitrotoluene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2,6-Dinitrotoluene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2-Chloronaphthalene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2-Chlorophenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2-Methylnaphthalene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2-Methylphenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
2-Nitroaniline (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
2-Nitrophenol (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
3,3'-Dichlorobenzidine (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
3-,4-Methylphenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
3-Nitroaniline (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
4,6-Dinitro-2-methylphenol (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
4-Bromophenyl-phenylether (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
4-Chloro-3-methylphenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
4-Chloroaniline (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
4-Chlorophenyl-phenylether (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
4-Nitroaniline (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
4-Nitrophenol (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
Acenaphthene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Acenaphthylene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Anthracene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Azobenzene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Benzo(a)anthracene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Benzo(a)pyrene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Benzo(b,k)fluoranthene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Benzo(g,h,i)perylene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Benzoic acid (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
Benzyl alcohol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
bis(2-Chloroethoxy)methane (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
bis(2-Chloroethyl)ether (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
bis(2-Chloroisopropyl) ether (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
bis(2-Ethylhexyl)phthalate (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Butylbenzylphthalate (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Chrysene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Di-n-butylphthalate (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Di-n-octylphthalate (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Dibenz(a,h)anthracene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Dibenzofuran (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
Diethylphthalate (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Dimethylphthalate (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Fluoranthene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Fluorene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Hexachloro-1,3-butadiene (ug/l)									2 U
Hexachlorobenzene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Hexachlorocyclopentadiene (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
Hexachloroethane (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Indeno(1,2,3-cd)pyrene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Isophorone (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
N-Nitroso-di-n-propylamine (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
N-Nitrosodimethylamine (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
N-Nitrosodiphenylamine (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
n-Propylbenzene (ug/l)									1 U
Nitrobenzene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
p-Isopropyltoluene (ug/l)									1 U
p/m-Xylene (ug/l)									<b>2.8</b>
Pentachlorophenol (ug/l)	47 U	53 U	52 U			53 U	48 U	51 U	49 U
Phenanthrene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Phenol (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
Pyrene (ug/l)	9.4 U	11 U	10 U			11 U	9.5 U	10 U	9.7 U
t-1,2-Dichloroethene (ug/l)									1 U
t-1,3-Dichloropropene (ug/l)									0.5 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
<b>5. Pesticides/PCBs</b>									
4,4'-DDD (ug/l)	0.1 U						<b>0.26</b>		0.1 U
4,4'-DDE (ug/l)	0.1 U						0.1 U		0.1 U
4,4'-DDT (ug/l)	0.1 U						0.1 U		0.1 U
Aldrin (ug/l)	0.1 U						0.1 U		0.1 U
Alpha-BHC (ug/l)	0.1 U						0.1 U		0.1 U
Aroclor-1016 (ug/l)	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Aroclor-1221 (ug/l)	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Aroclor-1232 (ug/l)	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Aroclor-1242 (ug/l)	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Aroclor-1248 (ug/l)	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Aroclor-1254 (ug/l)	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Aroclor-1260 (ug/l)	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Aroclor-1262 (ug/l)	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Beta-BHC (ug/l)	0.1 U						0.1 U		0.1 U
Chlordane (ug/l)	1 U						1 U		1 U
Delta-BHC (ug/l)	0.1 U						0.1 U		0.1 U
Dieldrin (ug/l)	0.1 U						0.1 U		0.1 U
Endosulfan I (ug/l)	0.1 U						0.1 U		0.1 U
Endosulfan II (ug/l)	0.1 U						0.1 U		0.1 U
Endosulfan Sulfate (ug/l)	0.1 U						0.1 U		0.1 U
Endrin (ug/l)	0.1 U						0.1 U		0.1 U
Endrin Aldehyde (ug/l)	0.1 U						0.1 U		0.1 U



**Table 3b WRC Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									
Gamma-BHC (ug/l)	0.1 U						0.1 U		0.1 U
Heptachlor (ug/l)	0.1 U						0.1 U		0.1 U
Heptachlor Epoxide (ug/l)	0.1 U						0.1 U		0.1 U
Methoxychlor (ug/l)	0.1 U						0.1 U		0.1 U
Toxaphene (ug/l)	1 U						1 U		1 U
<b>6. Proprietary Pesticides</b>									
bensulide (ug/l)	32 U	5 U	5 U			5 U	6 U	5 U	6 U
Butylate (ug/l)	1 U	1 U					1 U		1 U
captan (ug/l)	25 U	25 U	25 U			25 U	5 U	25 U	5 U
carbophenothion (ug/l)	1 U	1 U					1 U		1
Cycloate (ug/l)	1 U	1 U					1 U		1 U
EPTC (ug/l)	1 U	1 U					1 U		2
flurochloridone (ug/l)	5 U	5 U	5 U			5 U	5 U	5 U	5 U
Fonofos (ug/l)	1 U	1 U					1 U		1 U
Metam sodium (ug/l)		9 U	9 U			9 U		9 U	9 U
Molinate (ug/l)	1 U	1 U					1 U		1 U
Napropamide (ug/l)	1 U	1 U					1 U		1
Pebulate (ug/l)	1 U	1 U					1 U		1 U
phosmet (ug/l)	5 U	5 U	5 U			5 U	5 U	5 U	5 U
R25788 (ug/l)	1 U	1 U					1 U		1 U
R29148 (ug/l)	1 U	1 U					1 U		1 U
Vernolate (ug/l)	1 U	1 U					1 U		1 U

**Table 3b WRC Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC	WRC
Sample ID	WRC-14	WRC-16	WRC-17	WRC-17	WRC-19	WRC-19	WRC-20	WRC-21	WRC-30
Sample Date	10/11/99	10/8/99	10/7/99	10/15/99	10/7/99	10/8/99	10/11/99	10/7/99	11/24/99
Horizon									

**Notes**

Bolded values indicate detected compounds.

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

U = Not detected. Result shown is the detection limit.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	2.9 U	2.9 U	3 U	2.9 U	3 U	3 U	3 U	3 U	3 U	3 U
Arsenic (mg/kg)	<b>9.1</b>	<b>3.3</b>	<b>3.5</b>	<b>2.8</b>	<b>3.3</b>	<b>3.1</b>	<b>3</b>	<b>3.1</b>	<b>3.1</b>	<b>5.3</b>
Barium (mg/kg)	<b>150</b>	<b>75</b>	<b>64</b>	<b>120</b>	<b>130</b>	<b>75</b>	<b>84</b>	<b>59</b>	<b>110</b>	<b>140</b>
Beryllium (mg/kg)	<b>0.12</b>	<b>0.38</b>	<b>0.4</b>	<b>0.36</b>	<b>0.39</b>	<b>0.43</b>	<b>0.47</b>	<b>0.39</b>	<b>0.34</b>	<b>0.32</b>
Cadmium (mg/kg)	<b>1.7</b>	<b>1.3</b>	<b>0.41</b>	<b>0.29</b>	<b>0.35</b>	<b>0.41</b>	<b>0.35</b>	<b>0.43</b>	<b>0.38</b>	<b>0.71</b>
Chromium (mg/kg)	<b>17</b>	<b>30</b>	<b>37</b>	<b>28</b>	<b>28</b>	<b>37</b>	<b>29</b>	<b>30</b>	<b>29</b>	<b>34</b>
Cobalt (mg/kg)	<b>2.8</b>	<b>5.2</b>	<b>9.5</b>	<b>7.6</b>	<b>12</b>	<b>8.1</b>	<b>7.8</b>	<b>9.6</b>	<b>7.8</b>	<b>9.3</b>
Copper (mg/kg)	<b>270</b>	<b>1000</b>	<b>20</b>	<b>16</b>	<b>13</b>	<b>18</b>	<b>14</b>	<b>18</b>	<b>17</b>	<b>42</b>
Lead (mg/kg)	<b>81</b>	<b>4.5</b>	<b>4.8</b>	<b>5.7</b>	<b>3.8</b>	<b>4.4</b>	<b>4.7</b>	<b>4.9</b>	<b>3.7</b>	<b>40</b>
Mercury (mg/kg)	<b>19</b>	<b>0.062</b>	<b>0.055</b>	<b>0.47</b>	<b>0.063</b>	<b>0.12</b>	<b>0.046</b>	<b>0.051</b>	<b>0.062</b>	<b>4.7</b>
Molybdenum (mg/kg)	0.95 U	0.97 U	1 U	0.98 U	1 U	1 U	1 U	0.99 U	1 U	0.99 U
Nickel (mg/kg)	<b>32</b>	<b>34</b>	<b>64</b>	<b>27</b>	<b>60</b>	<b>68</b>	<b>82</b>	<b>70</b>	<b>53</b>	<b>51</b>
Selenium (mg/kg)	0.24 U	0.24 U	0.25 U	0.24 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Silver (mg/kg)	<b>1.7</b>	0.49 U	0.5 U	0.49 U	0.5 U	0.5 U	0.5 U	0.49 U	0.5 U	0.49 U
Thallium (mg/kg)	<b>0.32</b>	0.24 U	0.25 U	0.24 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Vanadium (mg/kg)	<b>17</b>	<b>23</b>	<b>22</b>	<b>29</b>	<b>24</b>	<b>24</b>	<b>22</b>	<b>24</b>	<b>24</b>	<b>24</b>
Zinc (mg/kg)	<b>150</b>	<b>550</b>	<b>41</b>	<b>30</b>	<b>24</b>	<b>37</b>	<b>27</b>	<b>36</b>	<b>35</b>	<b>72</b>
<b>2. pH</b>										
pH (SU)	<b>4</b>	<b>4.1</b>	<b>7.5</b>	<b>6.8</b>	<b>7.1</b>	<b>8</b>	<b>8</b>	<b>7.9</b>	<b>7.8</b>	<b>8.6</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,1,2-Trichloroethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,1-Dichloroethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,1-Dichloroethene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,1-Dichloropropene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2,3-Trichlorobenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2,3-Trichloropropane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2,4-Trichlorobenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2,4-Trimethylbenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2-Dibromo-3-Chloropropane (mg/k	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2-Dibromoethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2-Dichlorobenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2-Dichloroethane (mg/kg)	0.005 U	<b>0.0031 J</b>	<b>0.032</b>	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,2-Dichloropropane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,3,5-Trimethylbenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,3-Dichlorobenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,3-Dichloropropane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
1,4-Dichlorobenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
2,2-Dichloropropane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
2-Butanone (mg/kg)	0.01 U	<b>0.018</b>	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U
2-Chloroethylvinylether (mg/kg)	0.01 U	0.0098 U	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U
2-Chlorotoluene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	<b>0.0061</b>	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
2-Hexanone (mg/kg)	0.01 U	0.0098 U	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U
4-Chlorotoluene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
4-Methyl-2-Pentanone (mg/kg)	0.01 U	0.0098 U	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U
Acetone (mg/kg)	0.02 U	<b>0.088</b>	0.019 U	2 U	<b>0.033</b>	0.019 U	<b>0.042</b>	0.019 U	0.019 U	0.02 U
Benzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Bromobenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Bromochloromethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Bromodichloromethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Bromoform (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Bromomethane (mg/kg)	0.01 U	0.0098 U	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U
Carbon Disulfide (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Carbon Tetrachloride (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Chlorobenzene (mg/kg)	0.005 U	0.0049 U	<b>0.0042 J</b>	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Chloroethane (mg/kg)	0.01 U	0.0098 U	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U
Chloroform (mg/kg)	<b>0.0048 J</b>	<b>0.0069</b>	0.0048 U	0.5 U	<b>0.0042 J</b>	<b>0.0036 J</b>	0.005 U	0.0046 U	<b>0.0041 J</b>	0.005 U
Chloromethane (mg/kg)	0.01 U	0.0098 U	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U
cis-1,2-Dichloroethene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	<b>0.0039 J</b>	<b>0.005</b>	0.005 U
cis-1,3-Dichloropropene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Dibromochloromethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Dibromomethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Ethylbenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Freon 113 (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Freon 12 (mg/kg)	0.01 U	0.0098 U	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Hexachlorobutadiene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Isopropylbenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
m,p-Xylenes (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Methylene Chloride (mg/kg)	0.02 U	0.02 U	0.019 U	2 U	0.021 U	0.019 U	0.02 U	0.019 U	0.019 U	0.02 U
MTBE (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
n-Butylbenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Naphthalene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	<b>0.0064</b>	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
o-Xylene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
para-Isopropyl Toluene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Propylbenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
sec-Butylbenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Styrene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
tert-Butylbenzene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Tetrachloroethene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	<b>0.011</b>	<b>0.0047</b>	<b>0.011</b>	0.005 U
Toluene (mg/kg)	0.005 U	0.0049 U	0.0048 U	<b>17</b>	<b>0.022</b>	<b>0.0054</b>	0.005 U	0.0046 U	0.0046 U	0.005 U
trans-1,2-Dichloroethene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
trans-1,3-Dichloropropene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Trichloroethene (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	<b>0.023</b>	<b>0.0089</b>	<b>0.0068</b>	0.005 U
Trichlorofluoromethane (mg/kg)	0.005 U	0.0049 U	0.0048 U	0.5 U	0.0052 U	0.0048 U	0.005 U	0.0046 U	0.0046 U	0.005 U
Vinyl Acetate (mg/kg)	0.05 U	0.049 U	0.048 U	5 U	0.052 U	0.048 U	0.05 U	0.046 U	0.046 U	0.05 U
Vinyl Chloride (mg/kg)	0.01 U	0.0098 U	0.0096 U	1 U	0.01 U	0.0096 U	0.01 U	0.0093 U	0.0093 U	0.01 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
2,4,6-Trichlorophenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2,4-Dichlorophenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2,4-Dimethylphenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2,4-Dinitrophenol (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
2,4-Dinitrotoluene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2,6-Dinitrotoluene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2-Chloronaphthalene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2-Chlorophenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2-Methylnaphthalene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2-Methylphenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
2-Nitroaniline (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
2-Nitrophenol (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
3,3'-Dichlorobenzidine (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
3-,4-Methylphenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
3-Nitroaniline (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
4,6-Dinitro-2-methylphenol (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
4-Bromophenyl-phenylether (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
4-Chloro-3-methylphenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
4-Chloroaniline (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
4-Chlorophenyl-phenylether (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
4-Nitroaniline (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
4-Nitrophenol (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
Acenaphthene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Acenaphthylene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Anthracene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Azobenzene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Benzo(a)anthracene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Benzo(a)pyrene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Benzo(b,k)fluoranthene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Benzo(g,h,i)perylene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Benzoic acid (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
Benzyl alcohol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
bis(2-Chloroethoxy)methane (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
bis(2-Chloroethyl)ether (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
bis(2-Chloroisopropyl) ether (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
bis(2-Ethylhexyl)phthalate (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Butylbenzylphthalate (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Chrysene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Di-n-butylphthalate (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Di-n-octylphthalate (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Dibenz(a,h)anthracene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Dibenzofuran (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Diethylphthalate (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Dimethylphthalate (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Fluoranthene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Fluorene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Hexachlorobenzene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Hexachlorocyclopentadiene (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
Hexachloroethane (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Indeno(1,2,3-cd)pyrene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Isophorone (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
N-Nitroso-di-n-propylamine (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
N-Nitrosodimethylamine (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
N-Nitrosodiphenylamine (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Nitrobenzene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Pentachlorophenol (mg/kg)	33 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.3 U
Phenanthrene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Phenol (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
Pyrene (mg/kg)	6.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	<b>120</b>	<b>0.28</b>	<b>0.065</b>	<b>0.0065</b>	<b>0.057</b>	0.006 U	0.006 U	0.006 U	0.006 U	0.06 U
4,4'-DDE (mg/kg)	<b>6.9</b>	<b>0.027 J</b>	<b>0.011</b>	0.006 U	0.03 U	0.006 U	0.006 U	0.006 U	0.006 U	<b>0.023 J</b>
4,4'-DDT (mg/kg)	<b>9.5</b>	<b>0.042</b>	<b>0.025</b>	<b>0.0086</b>	0.03 U	0.006 U	0.006 U	0.006 U	0.006 U	<b>0.049 J</b>
Aldrin (mg/kg)	6 U	0.015 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
alpha-BHC (mg/kg)	6 U	0.015 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
Aroclor-1016 (mg/kg)	24 U	0.06 U	0.012 U	0.012 U	0.06 U	0.012 U	0.012 U	0.012 U	0.012 U	0.12 U
Aroclor-1221 (mg/kg)	48 U	0.12 U	0.024 U	0.024 U	0.12 U	0.024 U	0.024 U	0.024 U	0.024 U	<b>0.31</b>
Aroclor-1232 (mg/kg)	24 U	0.06 U	0.012 U	0.012 U	0.06 U	0.012 U	0.012 U	0.012 U	0.012 U	0.12 U
Aroclor-1242 (mg/kg)	24 U	0.06 U	0.012 U	0.012 U	0.06 U	0.012 U	0.012 U	0.012 U	0.012 U	0.12 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Aroclor-1248 (mg/kg)	24 U	0.06 U	0.012 U	0.012 U	0.06 U	0.012 U	0.012 U	0.012 U	0.012 U	0.12 U
Aroclor-1254 (mg/kg)	24 U	0.06 U	0.012 U	0.012 U	0.06 U	0.012 U	0.012 U	0.012 U	0.012 U	<b>0.98</b>
Aroclor-1260 (mg/kg)	24 U	0.06 U	0.012 U	0.012 U	0.06 U	0.012 U	0.012 U	0.012 U	0.012 U	0.12 U
beta-BHC (mg/kg)	6 U	0.015 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
Chlordane (mg/kg)	60 U	0.15 U	0.03 U	0.03 U	<b>0.86</b>	0.03 U	0.03 U	0.03 U	0.03 U	0.3 U
delta-BHC (mg/kg)	6 U	0.015 U	0.003 U	<b>0.0056</b>	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
Dieldrin (mg/kg)	12 U	0.03 U	0.006 U	0.006 U	0.03 U	0.006 U	0.006 U	0.006 U	0.006 U	0.06 U
Endosulfan I (mg/kg)	6 U	0.015 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
Endosulfan II (mg/kg)	12 U	0.03 U	0.006 U	0.006 U	0.03 U	0.006 U	0.006 U	0.006 U	0.006 U	0.06 U
Endosulfan sulfate (mg/kg)	12 U	0.03 U	0.006 U	0.006 U	0.03 U	0.006 U	0.006 U	0.006 U	0.006 U	0.06 U
Endrin (mg/kg)	12 U	0.03 U	0.006 U	0.006 U	0.03 U	0.006 U	0.006 U	0.006 U	0.006 U	0.06 U
Endrin aldehyde (mg/kg)	12 U	0.03 U	0.006 U	0.006 U	0.03 U	0.006 U	0.006 U	0.006 U	0.006 U	0.06 U
gamma-BHC (mg/kg)	6 U	0.015 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
Heptachlor (mg/kg)	6 U	0.015 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
Heptachlor epoxide A (mg/kg)	6 U	0.015 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
Heptachlor epoxide B (mg/kg)	6 U	0.015 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.003 U	0.03 U
Methoxychlor (mg/kg)	60 U	0.15 U	0.03 U	0.03 U	0.15 U	0.03 U	0.03 U	0.03 U	0.03 U	0.3 U
Toxaphene (mg/kg)	120 U	0.3 U	0.06 U	0.06 U	0.3 U	0.06 U	0.06 U	0.06 U	0.06 U	0.6 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.12 U	0.064 U	0.064 U	<b>0.4</b>	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	<b>0.85</b>
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.06</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	2.5 U	0.25 U	0.05 U	0.25 U	<b>0.37</b>	<b>0.31</b>	0.25 U	0.25 U	0.25 U	<b>0.55</b>
Carbophenothion (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-04-1.5	A01-04-3.5	A01-04-6.5	A01-05-1.5	A01-05-3.5	A01-05-6.5	A01-06-1.5	A01-06-3.5	A01-06-6.5	A01-07-1.5
Sample Date	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.19</b>	<b>0.04</b>	<b>0.03</b>	0.01 U	0.01 U	0.01 U	<b>0.02</b>
EPTC (mg/kg)	0.01 U	0.01 U	<b>0.05</b>	<b>0.49</b>	<b>0.12</b>	<b>0.27</b>	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	<b>2.52</b>	<b>0.73</b>	<b>0.6</b>	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	<b>0.18</b>
Molinate (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.17</b>	<b>0.13</b>	<b>0.15</b>	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.01 U	0.01 U	0.1 U				0.01 U	0.01 U		0.1 U
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	<b>1.16</b>	<b>0.25</b>	<b>0.18</b>	0.01 U	0.01 U	0.01 U	<b>0.02</b>
phosmet (mg/kg)	0.1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.03</b>	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.33</b>	<b>0.08</b>	<b>0.04</b>	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	2.9 U	2.8 U								
Arsenic (mg/kg)	<b>3.8</b>	<b>2.1</b>								
Barium (mg/kg)	<b>79</b>	<b>63</b>								
Beryllium (mg/kg)	<b>0.43</b>	<b>0.31</b>								
Cadmium (mg/kg)	<b>0.26</b>	<b>0.37</b>								
Chromium (mg/kg)	<b>25</b>	<b>31</b>								
Cobalt (mg/kg)	<b>11</b>	<b>9.3</b>								
Copper (mg/kg)	<b>12</b>	<b>15</b>								
Lead (mg/kg)	<b>5.4</b>	<b>4.2</b>								
Mercury (mg/kg)	<b>0.071</b>	<b>0.083</b>								
Molybdenum (mg/kg)	0.97 U	0.95 U								
Nickel (mg/kg)	<b>52</b>	<b>46</b>								
Selenium (mg/kg)	0.24 U	0.24 U								
Silver (mg/kg)	0.48 U	0.47 U								
Thallium (mg/kg)	0.24 U	0.24 U								
Vanadium (mg/kg)	<b>22</b>	<b>18</b>								
Zinc (mg/kg)	<b>19</b>	<b>47</b>								
<b>2. pH</b>										
pH (SU)	<b>7.3</b>	<b>8.6</b>								
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.005 U	0.0049 U								

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.005 U	0.0049 U								
1,1,2,2-Tetrachloroethane (mg/kg)	0.005 U	0.0049 U								
1,1,2-Trichloroethane (mg/kg)	0.005 U	0.0049 U								
1,1-Dichloroethane (mg/kg)	0.005 U	0.0049 U								
1,1-Dichloroethene (mg/kg)	0.005 U	0.0049 U								
1,1-Dichloropropene (mg/kg)	0.005 U	0.0049 U								
1,2,3-Trichlorobenzene (mg/kg)	0.005 U	0.0049 U								
1,2,3-Trichloropropane (mg/kg)	0.005 U	0.0049 U								
1,2,4-Trichlorobenzene (mg/kg)	0.005 U	0.0049 U								
1,2,4-Trimethylbenzene (mg/kg)	0.005 U	0.0049 U								
1,2-Dibromo-3-Chloropropane (mg/k	0.005 U	0.0049 U								
1,2-Dibromoethane (mg/kg)	0.005 U	0.0049 U								
1,2-Dichlorobenzene (mg/kg)	0.005 U	0.0049 U								
1,2-Dichloroethane (mg/kg)	0.005 U	0.0049 U								
1,2-Dichloropropane (mg/kg)	0.005 U	0.0049 U								
1,3,5-Trimethylbenzene (mg/kg)	0.005 U	0.0049 U								
1,3-Dichlorobenzene (mg/kg)	0.005 U	0.0049 U								
1,3-Dichloropropane (mg/kg)	0.005 U	0.0049 U								
1,4-Dichlorobenzene (mg/kg)	0.005 U	0.0049 U								
2,2-Dichloropropane (mg/kg)	0.005 U	0.0049 U								
2-Butanone (mg/kg)	0.01 U	0.0098 U								
2-Chloroethylvinylether (mg/kg)	0.01 U	0.0098 U								
2-Chlorotoluene (mg/kg)	0.005 U	0.0049 U								

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
2-Hexanone (mg/kg)	0.01 U	0.0098 U								
4-Chlorotoluene (mg/kg)	0.005 U	0.0049 U								
4-Methyl-2-Pentanone (mg/kg)	0.01 U	0.0098 U								
Acetone (mg/kg)	0.02 U	0.02 U								
Benzene (mg/kg)	0.005 U	0.0049 U								
Bromobenzene (mg/kg)	0.005 U	0.0049 U								
Bromochloromethane (mg/kg)	0.005 U	0.0049 U								
Bromodichloromethane (mg/kg)	0.005 U	0.0049 U								
Bromoform (mg/kg)	0.005 U	0.0049 U								
Bromomethane (mg/kg)	0.01 U	0.0098 U								
Carbon Disulfide (mg/kg)	0.005 U	0.0049 U								
Carbon Tetrachloride (mg/kg)	0.005 U	0.0049 U								
Chlorobenzene (mg/kg)	0.005 U	0.0049 U								
Chloroethane (mg/kg)	0.01 U	0.0098 U								
Chloroform (mg/kg)	0.005 U	0.0049 U								
Chloromethane (mg/kg)	0.01 U	0.0098 U								
cis-1,2-Dichloroethene (mg/kg)	0.005 U	0.0049 U								
cis-1,3-Dichloropropene (mg/kg)	0.005 U	0.0049 U								
Dibromochloromethane (mg/kg)	0.005 U	0.0049 U								
Dibromomethane (mg/kg)	0.005 U	0.0049 U								
Ethylbenzene (mg/kg)	0.005 U	0.0049 U								
Freon 113 (mg/kg)	0.005 U	0.0049 U								
Freon 12 (mg/kg)	0.01 U	0.0098 U								

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
Hexachlorobutadiene (mg/kg)	0.005 U	0.0049 U								
Isopropylbenzene (mg/kg)	0.005 U	0.0049 U								
m,p-Xylenes (mg/kg)	0.005 U	0.0049 U								
Methylene Chloride (mg/kg)	0.02 U	0.02 U								
MTBE (mg/kg)	0.005 U	0.0049 U								
n-Butylbenzene (mg/kg)	0.005 U	0.0049 U								
Naphthalene (mg/kg)	0.005 U	0.0049 U								
o-Xylene (mg/kg)	0.005 U	0.0049 U								
para-Isopropyl Toluene (mg/kg)	0.005 U	0.0049 U								
Propylbenzene (mg/kg)	0.005 U	0.0049 U								
sec-Butylbenzene (mg/kg)	0.005 U	0.0049 U								
Styrene (mg/kg)	0.005 U	0.0049 U								
tert-Butylbenzene (mg/kg)	0.005 U	0.0049 U								
Tetrachloroethene (mg/kg)	0.005 U	0.0049 U								
Toluene (mg/kg)	0.005 U	0.0049 U								
trans-1,2-Dichloroethene (mg/kg)	0.005 U	0.0049 U								
trans-1,3-Dichloropropene (mg/kg)	0.005 U	0.0049 U								
Trichloroethene (mg/kg)	0.005 U	0.0049 U								
Trichlorofluoromethane (mg/kg)	0.005 U	0.0049 U								
Vinyl Acetate (mg/kg)	0.05 U	0.049 U								
Vinyl Chloride (mg/kg)	0.01 U	0.0098 U								
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U	0.33 U								

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
2,4,6-Trichlorophenol (mg/kg)	0.33 U	0.33 U								
2,4-Dichlorophenol (mg/kg)	0.33 U	0.33 U								
2,4-Dimethylphenol (mg/kg)	0.33 U	0.33 U								
2,4-Dinitrophenol (mg/kg)	1.7 U	1.7 U								
2,4-Dinitrotoluene (mg/kg)	0.33 U	0.33 U								
2,6-Dinitrotoluene (mg/kg)	0.33 U	0.33 U								
2-Chloronaphthalene (mg/kg)	0.33 U	0.33 U								
2-Chlorophenol (mg/kg)	0.33 U	0.33 U								
2-Methylnaphthalene (mg/kg)	0.33 U	0.33 U								
2-Methylphenol (mg/kg)	0.33 U	0.33 U								
2-Nitroaniline (mg/kg)	1.7 U	1.7 U								
2-Nitrophenol (mg/kg)	1.7 U	1.7 U								
3,3'-Dichlorobenzidine (mg/kg)	1.7 U	1.7 U								
3-,4-Methylphenol (mg/kg)	0.33 U	0.33 U								
3-Nitroaniline (mg/kg)	1.7 U	1.7 U								
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U	1.7 U								
4-Bromophenyl-phenylether (mg/kg)	0.33 U	0.33 U								
4-Chloro-3-methylphenol (mg/kg)	0.33 U	0.33 U								
4-Chloroaniline (mg/kg)	0.33 U	0.33 U								
4-Chlorophenyl-phenylether (mg/kg)	0.33 U	0.33 U								
4-Nitroaniline (mg/kg)	1.7 U	1.7 U								
4-Nitrophenol (mg/kg)	1.7 U	1.7 U								
Acenaphthene (mg/kg)	0.33 U	0.33 U								



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
Acenaphthylene (mg/kg)	0.33 U	0.33 U								
Anthracene (mg/kg)	0.33 U	0.33 U								
Azobenzene (mg/kg)	0.33 U	0.33 U								
Benzo(a)anthracene (mg/kg)	0.33 U	0.33 U								
Benzo(a)pyrene (mg/kg)	0.33 U	0.33 U								
Benzo(b,k)fluoranthene (mg/kg)	0.33 U	0.33 U								
Benzo(g,h,i)perylene (mg/kg)	0.33 U	0.33 U								
Benzoic acid (mg/kg)	1.7 U	1.7 U								
Benzyl alcohol (mg/kg)	0.33 U	0.33 U								
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U	0.33 U								
bis(2-Chloroethyl)ether (mg/kg)	0.33 U	0.33 U								
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U	0.33 U								
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U	0.33 U								
Butylbenzylphthalate (mg/kg)	0.33 U	0.33 U								
Chrysene (mg/kg)	0.33 U	0.33 U								
Di-n-butylphthalate (mg/kg)	0.33 U	0.33 U								
Di-n-octylphthalate (mg/kg)	0.33 U	0.33 U								
Dibenz(a,h)anthracene (mg/kg)	0.33 U	0.33 U								
Dibenzofuran (mg/kg)	0.33 U	0.33 U								
Diethylphthalate (mg/kg)	0.33 U	0.33 U								
Dimethylphthalate (mg/kg)	0.33 U	0.33 U								
Fluoranthene (mg/kg)	0.33 U	0.33 U								
Fluorene (mg/kg)	0.33 U	0.33 U								

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
Hexachlorobenzene (mg/kg)	0.33 U	0.33 U								
Hexachlorocyclopentadiene (mg/kg)	1.7 U	1.7 U								
Hexachloroethane (mg/kg)	0.33 U	0.33 U								
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U	0.33 U								
Isophorone (mg/kg)	0.33 U	0.33 U								
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U	0.33 U								
N-Nitrosodimethylamine (mg/kg)	0.33 U	0.33 U								
N-Nitrosodiphenylamine (mg/kg)	0.33 U	0.33 U								
Nitrobenzene (mg/kg)	0.33 U	0.33 U								
Pentachlorophenol (mg/kg)	1.7 U	1.7 U								
Phenanthrene (mg/kg)	0.33 U	0.33 U								
Phenol (mg/kg)	0.33 U	0.33 U								
Pyrene (mg/kg)	0.33 U	0.33 U								
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.006 U	0.06 U	0.005 U	0.005 U		<b>0.034</b>	<b>0.04</b>		<b>12</b>	0.005 U
4,4'-DDE (mg/kg)	0.006 U	0.06 U	0.005 U	0.005 U		<b>0.021</b>	<b>0.019</b>		2.5 U	0.005 U
4,4'-DDT (mg/kg)	0.006 U	0.06 U	0.005 U	0.005 U		<b>0.022</b>	<b>0.024</b>		2.5 U	0.005 U
Aldrin (mg/kg)	0.003 U	0.03 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
alpha-BHC (mg/kg)	0.003 U	0.03 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Aroclor-1016 (mg/kg)	0.012 U	0.12 U								
Aroclor-1221 (mg/kg)	0.024 U	0.24 U								
Aroclor-1232 (mg/kg)	0.012 U	0.12 U								
Aroclor-1242 (mg/kg)	0.012 U	0.12 U								

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
Aroclor-1248 (mg/kg)	0.012 U	0.12 U								
Aroclor-1254 (mg/kg)	0.012 U	0.12 U								
Aroclor-1260 (mg/kg)	0.012 U	0.12 U								
beta-BHC (mg/kg)	0.003 U	0.03 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Chlordane (mg/kg)	0.03 U	0.3 U	0.05 U	0.05 U		0.05 U	<b>0.083</b>		25 U	0.05 U
delta-BHC (mg/kg)	0.003 U	0.03 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Dieldrin (mg/kg)	0.006 U	0.06 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Endosulfan I (mg/kg)	0.003 U	0.03 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Endosulfan II (mg/kg)	0.006 U	0.06 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Endosulfan sulfate (mg/kg)	0.006 U	0.06 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Endrin (mg/kg)	0.006 U	0.06 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Endrin aldehyde (mg/kg)	0.006 U	0.06 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
gamma-BHC (mg/kg)	0.003 U	0.03 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Heptachlor (mg/kg)	0.003 U	0.03 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Heptachlor Epoxide (mg/kg)			0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Heptachlor epoxide A (mg/kg)	0.003 U	0.03 U								
Heptachlor epoxide B (mg/kg)	0.003 U	0.03 U								
Methoxychlor (mg/kg)	0.03 U	0.3 U	0.005 U	0.005 U		0.005 U	0.005 U		2.5 U	0.005 U
Toxaphene (mg/kg)	0.06 U	0.6 U	0.05 U	0.05 U		0.05 U	0.05 U		25 U	0.05 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)		0.064 U	1 U	0.34 U	0.1 U	1 U	0.06 U	0.1 U	1 U	0.1 U
Butylate (mg/kg)	0.1 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U
captan (mg/kg)		0.25 U	1 U	0.34 U	0.1 U	1 U	0.05 U	0.1 U	<b>2.2</b>	0.1 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A01	A01	A01	A01	A01	A01
Sample ID	A01-07-3.5	A01-07-6.5	A01-08-1.5	A01-08-3.5	A01-08-6.5	A01-09-1.5	A01-09-3.5	A01-09-6.5	A01-10-1.5	A01-10-3.5
Sample Date	9/3/99	9/3/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99	10/11/99
Horizon										
Carbophenothion (mg/kg)	0.1 U	0.01 U	<b>0.11</b>	<b>0.01</b>	<b>0.01</b>	<b>0.09</b>	0.01 U	<b>0.01</b>	<b>0.18</b>	<b>0.01</b>
Cycloate (mg/kg)	0.1 U	0.01 U	0.1 U	<b>0.01</b>	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U
EPTC (mg/kg)	0.1 U	0.01 U	0.1 U	0.01 U	<b>0.26</b>	0.1 U	0.01 U	0.01 U	<b>0.03</b>	0.01 U
Flurochloridone (mg/kg)	0.1 U	0.01 U	<b>0.1</b>	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	<b>0.16</b>	0.01 U
Fonofos (mg/kg)	0.1 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Molinate (mg/kg)	0.1 U	0.01 U	0.1 U	<b>0.04</b>	0.01 U	0.1 U	0.01 U	0.01 U	<b>0.09</b>	0.01 U
Napropamide (mg/kg)	0.1 U	0.1 U	<b>0.12</b>	<b>0.01</b>	0.01 U	0.1 U	0.01 U	<b>0.05</b>	<b>0.11</b>	0.01 U
Pebulate (mg/kg)	0.1 U	0.01 U	0.1 U	0.01 U	<b>0.02</b>	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U
phosmet (mg/kg)		0.05 U	0.5 U	0.17 U	0.05 U	0.5 U	0.05 U	0.05 U	0.5 U	0.05 U
R25788 (mg/kg)	0.1 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	<b>0.09</b>	0.01 U
R29148 (mg/kg)	0.1 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U
Vernolate (mg/kg)	0.1 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.1 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										

**1. Metals**

Antimony (mg/kg)					2.8 U	2.9 U		3 U	2.9 U	
Arsenic (mg/kg)					21	3.7		5.2	2.2	
Barium (mg/kg)					230	120		180	140	
Beryllium (mg/kg)					0.39	0.48		0.35	0.28	
Cadmium (mg/kg)					0.87	0.75		0.47	0.27	
Chromium (mg/kg)					28	24		27	26	
Cobalt (mg/kg)					25	17		4.2	5.3	
Copper (mg/kg)					120	10		400	14	
Lead (mg/kg)					35	4.3		18	4.1	
Mercury (mg/kg)					0.64	0.037 U		0.04 U	0.037 U	
Molybdenum (mg/kg)					0.95 U	0.98 U		0.99 U	0.98 U	
Nickel (mg/kg)					47	38		22	26	
Selenium (mg/kg)					0.54	0.24 U		0.25 U	0.25 U	
Silver (mg/kg)					0.47 U	0.49 U		0.5 U	0.49 U	
Thallium (mg/kg)					0.24 U	0.24 U		0.25 U	0.27	
Vanadium (mg/kg)					26	23		27	23	
Zinc (mg/kg)					620	300		41	42	

**2. pH**

pH (SU)					5	4.2		4.4	5.7	
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**3. VOCs**

1,1,1,2-Tetrachloroethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
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**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										
1,1,1-Trichloroethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,1,2,2-Tetrachloroethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,1,2-Trichloroethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,1-Dichloroethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,1-Dichloroethene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,1-Dichloropropene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,2,3-Trichlorobenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,2,3-Trichloropropane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,2,4-Trichlorobenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,2,4-Trimethylbenzene (mg/kg)					0.0051 U	0.0051 U		<b>0.0058</b>	0.0047 U	
1,2-Dibromo-3-Chloropropane (mg/k					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,2-Dibromoethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,2-Dichlorobenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,2-Dichloroethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,2-Dichloropropane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,3,5-Trimethylbenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,3-Dichlorobenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,3-Dichloropropane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
1,4-Dichlorobenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
2,2-Dichloropropane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
2-Butanone (mg/kg)					<b>0.024</b>	<b>0.026</b>		0.0096 U	0.0094 U	
2-Chloroethylvinylether (mg/kg)					0.01 U	0.01 U				
2-Chlorotoluene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										
2-Hexanone (mg/kg)					0.01 U	0.01 U		0.0096 U	0.0094 U	
4-Chlorotoluene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
4-Methyl-2-Pentanone (mg/kg)					0.01 U	0.01 U		0.0096 U	0.0094 U	
Acetone (mg/kg)					<b>0.1</b>	<b>0.12</b>		<b>0.043</b>	0.019 U	
Benzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Bromobenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Bromochloromethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Bromodichloromethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Bromoform (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Bromomethane (mg/kg)					0.01 U	0.01 U		0.0096 U	0.0094 U	
Carbon Disulfide (mg/kg)					<b>0.012</b>	<b>0.092</b>		0.0048 U	0.0047 U	
Carbon Tetrachloride (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Chlorobenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Chloroethane (mg/kg)					0.01 U	0.01 U		0.0096 U	0.0094 U	
Chloroform (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Chloromethane (mg/kg)					0.01 U	0.01 U		0.0096 U	0.0094 U	
cis-1,2-Dichloroethene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
cis-1,3-Dichloropropene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Dibromochloromethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Dibromomethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Ethylbenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Freon 113 (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Freon 12 (mg/kg)					0.01 U	0.01 U		0.0096 U	0.0094 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										
Hexachlorobutadiene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Isopropylbenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
m,p-Xylenes (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Methylene Chloride (mg/kg)					0.02 U	0.02 U		0.019 U	0.019 U	
MTBE (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
n-Butylbenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Naphthalene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
o-Xylene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
para-Isopropyl Toluene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Propylbenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
sec-Butylbenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Styrene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
tert-Butylbenzene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Tetrachloroethene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Toluene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
trans-1,2-Dichloroethene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
trans-1,3-Dichloropropene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Trichloroethene (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Trichlorofluoromethane (mg/kg)					0.0051 U	0.0051 U		0.0048 U	0.0047 U	
Vinyl Acetate (mg/kg)					0.051 U	0.051 U		0.048 U	0.047 U	
Vinyl Chloride (mg/kg)					0.01 U	0.01 U		0.0096 U	0.0094 U	
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										
2,4,6-Trichlorophenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2,4-Dichlorophenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2,4-Dimethylphenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2,4-Dinitrophenol (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
2,4-Dinitrotoluene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2,6-Dinitrotoluene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2-Chloronaphthalene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2-Chlorophenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2-Methylnaphthalene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2-Methylphenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
2-Nitroaniline (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
2-Nitrophenol (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
3,3'-Dichlorobenzidine (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
3-,4-Methylphenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
3-Nitroaniline (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
4,6-Dinitro-2-methylphenol (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
4-Bromophenyl-phenylether (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
4-Chloro-3-methylphenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
4-Chloroaniline (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
4-Chlorophenyl-phenylether (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
4-Nitroaniline (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
4-Nitrophenol (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
Acenaphthene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										
Acenaphthylene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Anthracene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Azobenzene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Benzo(a)anthracene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Benzo(a)pyrene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Benzo(b,k)fluoranthene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Benzo(g,h,i)perylene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Benzoic acid (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
Benzyl alcohol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
bis(2-Chloroethoxy)methane (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
bis(2-Chloroethyl)ether (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
bis(2-Chloroisopropyl) ether (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
bis(2-Ethylhexyl)phthalate (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Butylbenzylphthalate (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Chrysene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Di-n-butylphthalate (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Di-n-octylphthalate (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Dibenz(a,h)anthracene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Dibenzofuran (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Diethylphthalate (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Dimethylphthalate (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Fluoranthene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Fluorene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										
Hexachlorobenzene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Hexachlorocyclopentadiene (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
Hexachloroethane (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Indeno(1,2,3-cd)pyrene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Isophorone (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
N-Nitroso-di-n-propylamine (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
N-Nitrosodimethylamine (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
N-Nitrosodiphenylamine (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Nitrobenzene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Pentachlorophenol (mg/kg)					1.7 U	1.7 U		1.7 U	1.7 U	
Phenanthrene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Phenol (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
Pyrene (mg/kg)					0.33 U	0.33 U		0.33 U	0.33 U	
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)		0.005 U	0.005 U		0.006 U	0.006 U		0.006 U	0.006 U	
4,4'-DDE (mg/kg)		0.005 U	0.005 U		0.006 U	0.006 U		0.006 U	0.006 U	
4,4'-DDT (mg/kg)		0.005 U	0.005 U		0.006 U	0.006 U		<b>0.01</b>	<b>0.0075</b>	
Aldrin (mg/kg)		0.005 U	0.005 U		0.003 U	0.003 U		0.003 U	0.003 U	
Alpha-BHC (mg/kg)		0.005 U	0.005 U		0.003 U	0.003 U		0.003 U	0.003 U	
Aroclor-1016 (mg/kg)					0.012 U	0.012 U		0.012 U	0.012 U	
Aroclor-1221 (mg/kg)					0.024 U	0.024 U		0.024 U	0.024 U	
Aroclor-1232 (mg/kg)					0.012 U	0.012 U		0.012 U	0.012 U	
Aroclor-1242 (mg/kg)					0.012 U	0.012 U		0.012 U	0.012 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										
Aroclor-1248 (mg/kg)					0.012 U	0.012 U		0.012 U	0.012 U	
Aroclor-1254 (mg/kg)					0.012 U	0.012 U		0.012 U	0.012 U	
Aroclor-1260 (mg/kg)					0.012 U	0.012 U		0.012 U	0.012 U	
Beta-BHC (mg/kg)		0.005 U	0.005 U		0.003 U	0.003 U		0.003 U	0.003 U	
Chlordane (mg/kg)		0.05 U	0.05 U		0.03 U	0.03 U		0.03 U	0.03 U	
Delta-BHC (mg/kg)		0.005 U	0.005 U		0.003 U	0.003 U		0.003 U	0.003 U	
Dieldrin (mg/kg)		0.005 U	0.005 U		0.006 U	0.006 U		0.006 U	0.006 U	
Endosulfan I (mg/kg)		0.005 U	0.005 U		0.003 U	0.003 U		0.003 U	0.003 U	
Endosulfan II (mg/kg)		0.005 U	0.005 U		0.006 U	0.006 U		0.006 U	0.006 U	
Endosulfan Sulfate (mg/kg)		0.005 U	0.005 U		0.006 U	0.006 U		0.006 U	0.006 U	
Endrin (mg/kg)		0.005 U	0.005 U		0.006 U	0.006 U		0.006 U	0.006 U	
Endrin Aldehyde (mg/kg)		0.005 U	0.005 U		0.006 U	0.006 U		0.006 U	0.006 U	
Gamma-BHC (mg/kg)		0.005 U	0.005 U		0.003 U	0.003 U		0.003 U	0.003 U	
Heptachlor (mg/kg)		0.005 U	0.005 U		0.003 U	0.003 U		0.003 U	0.003 U	
Heptachlor Epoxide (mg/kg)		0.005 U	0.005 U							
Heptachlor epoxide A (mg/kg)					0.003 U	0.003 U		0.003 U	0.003 U	
Heptachlor epoxide B (mg/kg)					0.003 U	0.003 U		0.003 U	0.003 U	
Methoxychlor (mg/kg)		0.005 U	0.005 U		0.03 U	0.03 U		0.03 U	0.03 U	
Toxaphene (mg/kg)		0.05 U	0.05 U		0.06 U	0.06 U		0.06 U	0.06 U	
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.1 U	0.1 U	0.1 U	0.1 U	0.064 U	0.064 U	0.064 U	0.06 U	0.06 U	0.06 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.25 U	0.05 U	0.25 U	0.25 U	0.25 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A01	A01	A02	A02	A02	A02	A02	A02
Sample ID	A01-10-6.5	A01-11-1.5	A01-11-3.5	A01-11-6.5	A02-04-1.5	A02-04-3.5	A02-04-6.5	A02-05-1.5	A02-05-3.5	A02-05-6.5
Sample Date	10/11/99	10/11/99	10/11/99	10/11/99	9/3/99	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99
Horizon										
Carbophenothion (mg/kg)	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.05</b>	0.01 U	0.01 U	0.01 U	0.01 U
EPTC (mg/kg)	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.39</b>	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.03 U	0.03 U	0.03 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Molinate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.92</b>	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.04</b>	0.01 U	<b>0.01</b>	0.1 U	0.01 U		
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>1.1</b>	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	2.8 U	2.9 U	3 U	3 U		2.9 U	3 U		2.9 U	3 U
Arsenic (mg/kg)	<b>6.9</b>	<b>5.1</b>	<b>3.7</b>	<b>2.4</b>		<b>2.5</b>	<b>2.3</b>		<b>58</b>	<b>2.7</b>
Barium (mg/kg)	<b>94</b>	<b>46</b>	<b>140</b>	<b>120</b>		<b>160</b>	<b>110</b>		<b>150</b>	<b>63</b>
Beryllium (mg/kg)	<b>0.1</b>	<b>0.33</b>	<b>0.17</b>	<b>0.36</b>		<b>0.37</b>	<b>0.34</b>		0.098 U	<b>0.31</b>
Cadmium (mg/kg)	<b>1.7</b>	<b>0.43</b>	<b>0.5</b>	<b>0.37</b>		<b>0.63</b>	<b>0.44</b>		<b>0.75</b>	<b>1.1</b>
Chromium (mg/kg)	<b>29</b>	<b>39</b>	<b>34</b>	<b>31</b>		<b>25</b>	<b>36</b>		<b>1.4</b>	<b>41</b>
Cobalt (mg/kg)	<b>9.7</b>	<b>10</b>	<b>5.5</b>	<b>6</b>		<b>8.7</b>	<b>12</b>		0.98 U	<b>7</b>
Copper (mg/kg)	<b>210</b>	<b>17</b>	<b>180</b>	<b>14</b>		<b>530</b>	<b>18</b>		<b>480</b>	<b>250</b>
Lead (mg/kg)	<b>21</b>	<b>5.2</b>	<b>4</b>	<b>4.4</b>		<b>5.7</b>	<b>3.5</b>		<b>85</b>	<b>4.2</b>
Mercury (mg/kg)	<b>0.14</b>	<b>0.1</b>	<b>0.049</b>	<b>0.049</b>		<b>0.041</b>	0.039 U		<b>0.81</b>	<b>0.08</b>
Molybdenum (mg/kg)	0.95 U	0.97 U	1 U	1 U		0.98 U	1 U		<b>3.5</b>	0.99 U
Nickel (mg/kg)	<b>26</b>	<b>39</b>	<b>32</b>	<b>41</b>		<b>25</b>	<b>43</b>		<b>18</b>	<b>34</b>
Selenium (mg/kg)	0.24 U	0.24 U	0.25 U	0.25 U		0.25 U	0.25 U		0.25 U	0.25 U
Silver (mg/kg)	0.47 U	0.48 U	0.5 U	0.5 U		0.49 U	0.5 U		<b>2.9</b>	0.5 U
Thallium (mg/kg)	0.24 U	0.24 U	0.25 U	0.25 U		0.25 U	0.25 U		<b>2</b>	0.25 U
Vanadium (mg/kg)	<b>26</b>	<b>35</b>	<b>29</b>	<b>22</b>		<b>24</b>	<b>26</b>		<b>5.3</b>	<b>30</b>
Zinc (mg/kg)	<b>190</b>	<b>27</b>	<b>91</b>	<b>28</b>		<b>94</b>	<b>90</b>		<b>200</b>	<b>330</b>
<b>2. pH</b>										
pH (SU)	<b>2.7</b>	<b>6.6</b>	<b>3.6</b>	<b>7.7</b>		<b>5</b>	<b>5.5</b>		<b>3.7</b>	<b>4.9</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,1,2-Trichloroethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,1-Dichloroethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,1-Dichloroethene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,1-Dichloropropene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,2,3-Trichlorobenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,2,3-Trichloropropane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,2,4-Trichlorobenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,2,4-Trimethylbenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,2-Dibromo-3-Chloropropane (mg/k)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		<b>0.0074</b>	0.0052 U
1,2-Dibromoethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,2-Dichlorobenzene (mg/kg)	0.0047 U	<b>0.038</b>	0.0051 U	0.0051 U		<b>0.0027 J</b>	0.005 U		0.0048 U	0.0052 U
1,2-Dichloroethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,2-Dichloropropane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,3,5-Trimethylbenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,3-Dichlorobenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,3-Dichloropropane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
1,4-Dichlorobenzene (mg/kg)	0.0047 U	<b>0.0043 J</b>	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
2,2-Dichloropropane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
2-Butanone (mg/kg)	<b>0.01</b>	0.0094 U	0.01 U	0.01 U		0.0094 U	0.01 U		0.0096 U	0.01 U
2-Chloroethylvinylether (mg/kg)	0.0094 U	0.0094 U								
2-Chlorotoluene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
2-Hexanone (mg/kg)	0.0094 U	0.0094 U	0.01 U	0.01 U		0.0094 U	0.01 U		0.0096 U	0.01 U
4-Chlorotoluene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
4-Methyl-2-Pentanone (mg/kg)	0.0094 U	0.0094 U	0.01 U	0.01 U		0.0094 U	0.01 U		0.0096 U	0.01 U
Acetone (mg/kg)	<b>0.056</b>	<b>0.055</b>	<b>0.026</b>	0.02 U		<b>0.019</b>	0.02 U		0.019 U	0.021 U
Benzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Bromobenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Bromochloromethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Bromodichloromethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Bromoform (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Bromomethane (mg/kg)	0.0094 U	0.0094 U	0.01 U	0.01 U		0.0094 U	0.01 U		0.0096 U	0.01 U
Carbon Disulfide (mg/kg)	<b>0.064</b>	<b>0.047</b>	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Carbon Tetrachloride (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Chlorobenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		<b>0.0083</b>	0.005 U		0.0048 U	0.0052 U
Chloroethane (mg/kg)	0.0094 U	0.0094 U	0.01 U	0.01 U		0.0094 U	0.01 U		0.0096 U	0.01 U
Chloroform (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Chloromethane (mg/kg)	0.0094 U	0.0094 U	0.01 U	0.01 U		0.0094 U	0.01 U		0.0096 U	0.01 U
cis-1,2-Dichloroethene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
cis-1,3-Dichloropropene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Dibromochloromethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Dibromomethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Ethylbenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Freon 113 (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Freon 12 (mg/kg)	0.0094 U	0.0094 U	0.01 U	0.01 U		0.0094 U	0.01 U		0.0096 U	0.01 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Hexachlorobutadiene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Isopropylbenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
m,p-Xylenes (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Methylene Chloride (mg/kg)	0.019 U	0.019 U	0.02 U	0.02 U		0.019 U	0.02 U		0.019 U	0.021 U
MTBE (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
n-Butylbenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Naphthalene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
o-Xylene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
para-Isopropyl Toluene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Propylbenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
sec-Butylbenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Styrene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
tert-Butylbenzene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Tetrachloroethene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Toluene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
trans-1,2-Dichloroethene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
trans-1,3-Dichloropropene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Trichloroethene (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Trichlorofluoromethane (mg/kg)	0.0047 U	0.0047 U	0.0051 U	0.0051 U		0.0047 U	0.005 U		0.0048 U	0.0052 U
Vinyl Acetate (mg/kg)	0.047 U	0.047 U	0.051 U	0.051 U		0.047 U	0.05 U		0.048 U	0.052 U
Vinyl Chloride (mg/kg)	0.0094 U	0.0094 U	0.01 U	0.01 U		0.0094 U	0.01 U		0.0096 U	0.01 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
2,4,6-Trichlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2,4-Dichlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2,4-Dimethylphenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2,4-Dinitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
2,4-Dinitrotoluene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2,6-Dinitrotoluene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2-Chloronaphthalene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2-Chlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2-Methylnaphthalene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2-Methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
2-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
2-Nitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
3,3'-Dichlorobenzidine (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
3-,4-Methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
3-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
4-Bromophenyl-phenylether (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
4-Chloro-3-methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
4-Chloroaniline (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
4-Chlorophenyl-phenylether (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
4-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
4-Nitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
Acenaphthene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Acenaphthylene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Anthracene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Azobenzene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Benzo(a)anthracene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Benzo(a)pyrene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Benzo(b,k)fluoranthene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Benzo(g,h,i)perylene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Benzoic acid (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
Benzyl alcohol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
bis(2-Chloroethyl)ether (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Butylbenzylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Chrysene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Di-n-butylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Di-n-octylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Dibenz(a,h)anthracene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Dibenzofuran (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Diethylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Dimethylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Fluoranthene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Fluorene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Hexachlorobenzene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Hexachlorocyclopentadiene (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
Hexachloroethane (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Isophorone (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
N-Nitrosodimethylamine (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
N-Nitrosodiphenylamine (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Nitrobenzene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Pentachlorophenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U
Phenanthrene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Phenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
Pyrene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	3 U	0.006 U	<b>0.02</b>	0.006 U		<b>0.017</b>	<b>0.005 J</b>		<b>0.014</b>	<b>0.11</b>
4,4'-DDE (mg/kg)	3 U	0.006 U	0.006 U	0.006 U		<b>0.013</b>	<b>0.0038 J</b>		0.006 U	0.012 U
4,4'-DDT (mg/kg)	3 U	0.006 U	<b>0.05</b>	0.006 U		<b>0.12</b>	<b>0.022</b>		<b>0.0058 J</b>	<b>0.043</b>
Aldrin (mg/kg)	1.5 U	0.003 U	0.003 U	0.003 U		0.003 U	0.003 U		0.003 U	0.006 U
alpha-BHC (mg/kg)	1.5 U	0.003 U	0.003 U	0.003 U		0.003 U	0.003 U		0.003 U	0.006 U
Aroclor-1016 (mg/kg)	6 U	0.012 U	0.012 U	0.012 U		0.012 U	0.012 U		0.012 U	0.024 U
Aroclor-1221 (mg/kg)	12 U	0.024 U	0.024 U	0.024 U		0.024 U	0.024 U		0.024 U	0.048 U
Aroclor-1232 (mg/kg)	6 U	0.012 U	0.012 U	0.012 U		0.012 U	0.012 U		0.012 U	0.024 U
Aroclor-1242 (mg/kg)	6 U	0.012 U	0.012 U	0.012 U		0.012 U	0.012 U		0.012 U	0.024 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Aroclor-1248 (mg/kg)	6 U	0.012 U	0.012 U	0.012 U		0.012 U	0.012 U		0.012 U	0.024 U
Aroclor-1254 (mg/kg)	6 U	0.012 U	0.012 U	0.012 U		0.012 U	0.012 U		0.012 U	0.024 U
Aroclor-1260 (mg/kg)	6 U	0.012 U	0.012 U	0.012 U		0.012 U	0.012 U		0.012 U	0.024 U
beta-BHC (mg/kg)	1.5 U	0.003 U	0.003 U	0.003 U		0.003 U	0.003 U		0.003 U	0.006 U
Chlordane (mg/kg)	15 U	0.03 U	0.03 U	0.03 U		0.03 U	0.03 U		0.03 U	0.06 U
delta-BHC (mg/kg)	1.5 U	0.003 U	0.003 U	0.003 U		0.003 U	0.003 U		0.003 U	0.006 U
Dieldrin (mg/kg)	3 U	0.006 U	0.006 U	0.006 U		0.006 U	0.006 U		0.006 U	0.012 U
Endosulfan I (mg/kg)	1.5 U	0.003 U	0.003 U	0.003 U		<b>0.0017 J</b>	0.003 U		0.003 U	0.006 U
Endosulfan II (mg/kg)	3 U	0.006 U	0.006 U	0.006 U		<b>0.0032 J</b>	0.006 U		0.006 U	0.012 U
Endosulfan sulfate (mg/kg)	3 U	0.006 U	0.006 U	0.006 U		0.006 U	0.006 U		0.006 U	0.012 U
Endrin (mg/kg)	3 U	0.006 U	0.006 U	0.006 U		0.006 U	0.006 U		0.006 U	0.012 U
Endrin aldehyde (mg/kg)	3 U	0.006 U	0.006 U	0.006 U		<b>0.0038 J</b>	0.006 U		0.006 U	0.012 U
gamma-BHC (mg/kg)	1.5 U	0.003 U	<b>0.0015 J</b>	0.003 U		0.003 U	0.003 U		0.003 U	0.006 U
Heptachlor (mg/kg)	1.5 U	0.003 U	0.003 U	0.003 U		0.003 U	0.003 U		0.003 U	0.006 U
Heptachlor epoxide A (mg/kg)	1.5 U	0.003 U	0.003 U	0.003 U		0.003 U	0.003 U		0.003 U	0.006 U
Heptachlor epoxide B (mg/kg)	1.5 U	0.003 U	0.003 U	0.003 U		0.003 U	0.003 U		0.003 U	0.006 U
Methoxychlor (mg/kg)	15 U	0.03 U	0.03 U	0.03 U		0.03 U	0.03 U		0.03 U	0.06 U
Toxaphene (mg/kg)	<b>230</b>	<b>0.13</b>	0.06 U	0.06 U		0.06 U	0.06 U		0.06 U	0.12 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.064 U	0.064 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Butylate (mg/kg)	0.01 U	0.01 U	<b>0.49</b>	0.01 U	0.01 U	<b>0.02</b>	0.01 U		0.01 U	0.01 U
captan (mg/kg)	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Carbophenothion (mg/kg)	0.01 U	0.01 U	0.01 U		0.01 U	1 U	0.01 U		0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-06-1.5	A02-06-3.5	A02-07-1.5	A02-07-3.5	A02-07-6.5	A02-08-1.5	A02-08-3.5	A02-08-6.5	A02-09-1.5	A02-09-3.5
Sample Date	9/3/99	9/3/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Cycloate (mg/kg)	<b>0.09</b>	<b>0.02</b>	0.01 U	0.01 U	0.01 U	<b>0.84</b>	0.01 U		0.01 U	<b>0.01</b>
EPTC (mg/kg)	<b>0.01</b>	0.01 U	<b>1.95</b>	<b>0.02</b>	<b>0.04</b>	<b>3.8</b>	<b>0.05</b>		0.01 U	<b>0.01</b>
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	0.03 U	0.03 U	<b>3.9</b>	<b>0.02</b>		<b>0.01</b>	0.03 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	<b>0.6</b>	0.09 U	0.09 U		0.09 U	0.09 U
Molinate (mg/kg)	0.01 U	0.01 U	<b>0.75</b>	0.01 U	0.01 U	<b>0.02</b>	0.01 U		0.01 U	0.01 U
Napropamide (mg/kg)		<b>0.01</b>	0.01 U			1 U	0.01 U			0.01 U
Pebulate (mg/kg)	<b>0.01</b>	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.03</b>		0.01 U	0.01 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.01 U		<b>0.03</b>	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-09-6.5	A02-10-1.5	A02-10-3.5	A02-10-6.5	A02-11-1.5	A02-11-3.5	A02-11-6.5	A02-12-1.5	A02-12-3.5	A02-12-6.5
Sample Date	9/7/99	10/13/99	10/13/99	10/11/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)		<b>0.049</b>	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
4,4'-DDE (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
4,4'-DDT (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		<b>0.5</b>	0.005 U	
Aldrin (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Alpha-BHC (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Beta-BHC (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Chlordane (mg/kg)		0.25 U	0.05 U		0.05 U	0.05 U		2.5 U	0.05 U	
Delta-BHC (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Dieldrin (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Endosulfan I (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Endosulfan II (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Endosulfan Sulfate (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Endrin (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Endrin Aldehyde (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Gamma-BHC (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Heptachlor (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Heptachlor Epoxide (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Methoxychlor (mg/kg)		0.025 U	0.005 U		0.005 U	0.005 U		0.25 U	0.005 U	
Toxaphene (mg/kg)		0.25 U	0.05 U		0.05 U	0.05 U		2.5 U	0.05 U	
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.06 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.1 U	<b>0.06</b>	0.064 U	0.064 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A02-09-6.5	A02-10-1.5	A02-10-3.5	A02-10-6.5	A02-11-1.5	A02-11-3.5	A02-11-6.5	A02-12-1.5	A02-12-3.5	A02-12-6.5
Sample Date	9/7/99	10/13/99	10/13/99	10/11/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.1 U	<b>0.11</b>	0.25 U	0.25 U
Carbophenothion (mg/kg)	0.01 U	<b>0.03</b>	<b>0.02</b>	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.03 U	0.01 U	0.01 U
Cycloate (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	<b>0.05</b>	<b>0.01</b>	0.01 U	0.01 U	<b>2.36</b>	<b>0.06</b>	0.01 U
EPTC (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.09</b>	<b>0.34</b>	0.01 U	<b>0.23</b>	<b>0.7</b>	0.01 U
Flurochloridone (mg/kg)	0.03 U	<b>0.05</b>	0.03 U	<b>0.05</b>	0.03 U	0.03 U	0.01 U	0.03 U	0.03 U	0.03 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U		0.09 U	0.09 U	0.09 U
Molinate (mg/kg)	0.01 U	<b>0.04</b>	0.01 U	<b>0.02</b>	<b>0.02</b>	<b>0.48</b>	0.01 U	<b>5.13</b>	<b>15.1</b>	<b>0.05</b>
Napropamide (mg/kg)	<b>0.01</b>	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U	0.01 U
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.49</b>	0.01 U	0.01 U	<b>0.16</b>	0.01 U	0.01 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.26</b>	0.01 U	0.01 U	<b>0.03</b>	0.01 U	0.01 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)				3.7	3 U	2.8 U	3 U	2.9 U	3 U	3.2
Arsenic (mg/kg)				57	7.6	26	32	31	75	67
Barium (mg/kg)				70	210	270	320	120	150	310
Beryllium (mg/kg)				0.096 U	0.2	0.095 U	0.1 U	0.098 U	0.1 U	0.1 U
Cadmium (mg/kg)				0.24 U	0.55	1.1	0.53	0.4	0.36	0.76
Chromium (mg/kg)				0.48 U	31	17	15	4.8	0.5 U	0.5 U
Cobalt (mg/kg)				1.3	4.6	1.7	1.2	0.98 U	1 U	1 U
Copper (mg/kg)				150	2000	310	450	1300	120	250
Lead (mg/kg)				19	4.6	39	30	11	38	79
Mercury (mg/kg)				0.12	0.039	0.56	0.9	0.64	0.096	1.2
Molybdenum (mg/kg)				6.9	1.3	2.5	2.5	3.3	3.6	4.8
Nickel (mg/kg)				71	47	25	23	12	19	10
Selenium (mg/kg)				3.4	0.25 U	0.24 U	0.25 U	0.25 U	0.25 U	0.47
Silver (mg/kg)				1.7	0.49 U	2.9	1.8	1.6	2.2	4.2
Thallium (mg/kg)				2.1	0.25 U	0.96	1.6	1.1	2.1	0.79
Vanadium (mg/kg)				8.3	32	17	19	9	3.6	1.7
Zinc (mg/kg)				65	420	140	95	100	38	300
<b>2. pH</b>										
pH (SU)						5	4.5	9.8	3.9	3.6
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
1,1,1-Trichloroethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,1,2,2-Tetrachloroethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,1,2-Trichloroethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,1-Dichloroethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,1-Dichloroethene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,1-Dichloropropene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,2,3-Trichlorobenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	<b>0.37</b>	0.0047 U
1,2,3-Trichloropropane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,2,4-Trichlorobenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	<b>2.2</b>	<b>0.01</b>
1,2,4-Trimethylbenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,2-Dibromo-3-Chloropropane (mg/k				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,2-Dibromoethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,2-Dichlorobenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,2-Dichloroethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,2-Dichloropropane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,3,5-Trimethylbenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,3-Dichlorobenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,3-Dichloropropane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
1,4-Dichlorobenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
2,2-Dichloropropane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
2-Butanone (mg/kg)				13 U	0.5 U	0.0098 U	0.01 U	0.25 U	0.25 U	0.0094 U
2-Chlorotoluene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
2-Hexanone (mg/kg)				13 U	0.5 U	0.0098 U	0.01 U	0.25 U	0.25 U	0.0094 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
4-Chlorotoluene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
4-Methyl-2-Pentanone (mg/kg)				13 U	0.5 U	0.0098 U	0.01 U	0.25 U	0.25 U	0.0094 U
Acetone (mg/kg)				25 U	1 U	0.02 U	0.021 U	0.5 U	0.5 U	0.019 U
Benzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Bromobenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Bromochloromethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Bromodichloromethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Bromoform (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Bromomethane (mg/kg)				13 U	0.5 U	0.0098 U	0.01 U	0.25 U	0.25 U	0.0094 U
Carbon Disulfide (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Carbon Tetrachloride (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Chlorobenzene (mg/kg)				<b>210</b>	<b>7.8</b>	0.0049 U	<b>0.14</b>	<b>2.7</b>	0.13 U	<b>0.17</b>
Chloroethane (mg/kg)				13 U	0.5 U	0.0098 U	0.01 U	0.25 U	0.25 U	0.0094 U
Chloroform (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Chloromethane (mg/kg)				13 U	0.5 U	0.0098 U	0.01 U	0.25 U	0.25 U	0.0094 U
cis-1,2-Dichloroethene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
cis-1,3-Dichloropropene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Dibromochloromethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Dibromomethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Ethylbenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Freon 113 (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Freon 12 (mg/kg)				13 U	0.5 U	0.0098 U	0.01 U	0.25 U	0.25 U	0.0094 U
Hexachlorobutadiene (mg/kg)				6.3 U	<b>0.21 J</b>	0.0049 U	0.0052 U	0.13 U	<b>3.2</b>	<b>0.0048</b>

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
Isopropylbenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
m,p-Xylenes (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Methylene Chloride (mg/kg)				25 U	1 U	0.02 U	0.021 U	0.5 U	0.5 U	0.019 U
MTBE (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
n-Butylbenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Naphthalene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
o-Xylene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
para-Isopropyl Toluene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Propylbenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
sec-Butylbenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Styrene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
tert-Butylbenzene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Tetrachloroethene (mg/kg)				6.3 U	0.25 U	<b>0.0027 J</b>	<b>0.056</b>	0.13 U	<b>2.6</b>	<b>0.041</b>
Toluene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
trans-1,2-Dichloroethene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
trans-1,3-Dichloropropene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Trichloroethene (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Trichlorofluoromethane (mg/kg)				6.3 U	0.25 U	0.0049 U	0.0052 U	0.13 U	0.13 U	0.0047 U
Vinyl Acetate (mg/kg)				63 U	2.5 U	0.049 U	0.052 U	1.3 U	1.3 U	0.047 U
Vinyl Chloride (mg/kg)				13 U	0.5 U	0.0098 U	0.01 U	0.25 U	0.25 U	0.0094 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4,6-Trichlorophenol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
2,4-Dichlorophenol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4-Dimethylphenol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
2,4-Dinitrophenol (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
2,6-Dinitrotoluene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Chloronaphthalene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Chlorophenol (mg/kg)				<b>0.3 J</b>	<b>0.28 J</b>	0.67 U	0.33 U	<b>0.22 J</b>	0.33 U	<b>0.39</b>
2-Methylnaphthalene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylphenol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Nitroaniline (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
2-Nitrophenol (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
3,3'-Dichlorobenzidine (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
3-,4-Methylphenol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
3-Nitroaniline (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
4-Bromophenyl-phenylether (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloro-3-methylphenol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chloroaniline (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Chlorophenyl-phenylether (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Nitroaniline (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
4-Nitrophenol (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
Acenaphthene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Acenaphthylene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
Anthracene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Azobenzene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(a)anthracene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(a)pyrene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(b,k)fluoranthene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(g,h,i)perylene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzoic acid (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
Benzyl alcohol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
bis(2-Chloroethoxy)methane (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
bis(2-Chloroethyl)ether (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Butylbenzylphthalate (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Chrysene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Di-n-butylphthalate (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Di-n-octylphthalate (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Dibenz(a,h)anthracene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Dibenzofuran (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Diethylphthalate (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Dimethylphthalate (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Fluoranthene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Fluorene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Hexachlorobenzene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
Hexachloroethane (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Isophorone (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
N-Nitroso-di-n-propylamine (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
N-Nitrosodimethylamine (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
N-Nitrosodiphenylamine (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Nitrobenzene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Pentachlorophenol (mg/kg)				1.7 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U
Phenanthrene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Phenol (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
Pyrene (mg/kg)				0.33 U	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.005 U	0.005 U		1.2 U	1.2 U	0.03 U	<b>0.058 J</b>	<b>0.019</b>	0.006 U	0.006 U
4,4'-DDE (mg/kg)	0.005 U	0.005 U		1.2 U	1.2 U	<b>0.018 J</b>	<b>0.031 J</b>	<b>0.0059 J</b>	0.006 U	0.006 U
4,4'-DDT (mg/kg)	0.005 U	0.005 U		1.2 U	1.2 U	<b>0.21</b>	<b>0.43</b>	0.006 U	0.006 U	0.006 U
Aldrin (mg/kg)	0.005 U	0.005 U		0.6 U	0.6 U	0.015 U	0.03 U	0.003 U	0.003 U	0.003 U
Alpha-BHC (mg/kg)	0.005 U	0.005 U		0.6 U	0.6 U	0.015 U	<b>0.054</b>	<b>0.044</b>	<b>0.013</b>	<b>0.017</b>
Aroclor-1016 (mg/kg)				2.4 U	2.4 U	0.06 U	0.12 U	0.012 U	0.012 U	0.012 U
Aroclor-1221 (mg/kg)				4.8 U	4.8 U	0.12 U	0.24 U	0.024 U	0.024 U	0.024 U
Aroclor-1232 (mg/kg)				2.4 U	2.4 U	0.06 U	0.12 U	0.012 U	0.012 U	0.012 U
Aroclor-1242 (mg/kg)				2.4 U	2.4 U	0.06 U	0.12 U	0.012 U	0.012 U	0.012 U
Aroclor-1248 (mg/kg)				2.4 U	2.4 U	0.06 U	0.12 U	0.012 U	0.012 U	0.012 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
Aroclor-1254 (mg/kg)				2.4 U	2.4 U	0.06 U	0.12 U	0.012 U	0.012 U	0.012 U
Aroclor-1260 (mg/kg)				2.4 U	2.4 U	0.06 U	0.12 U	0.012 U	0.012 U	0.012 U
Beta-BHC (mg/kg)	0.005 U	0.005 U		0.6 U	0.6 U	0.015 U	0.03 U	<b>0.0099</b>	0.003 U	0.003 U
Chlordane (mg/kg)	0.05 U	0.05 U		6 U	6 U	0.15 U	0.3 U	0.03 U	0.03 U	0.03 U
Delta-BHC (mg/kg)	0.005 U	0.005 U		0.6 U	0.6 U	0.015 U	0.03 U	<b>0.011</b>	0.003 U	0.003 U
Dieldrin (mg/kg)	0.005 U	0.005 U		1.2 U	1.2 U	0.03 U	0.06 U	<b>0.013</b>	<b>0.005 J</b>	0.006 U
Endosulfan I (mg/kg)	0.005 U	0.005 U		0.6 U	0.6 U	0.015 U	0.03 U	0.003 U	0.003 U	<b>0.006</b>
Endosulfan II (mg/kg)	<b>0.019</b>	0.005 U		1.2 U	1.2 U	0.03 U	0.06 U	0.006 U	0.006 U	0.006 U
Endosulfan Sulfate (mg/kg)	0.005 U	0.005 U		1.2 U	1.2 U	0.03 U	0.06 U	0.006 U	0.006 U	0.006 U
Endrin (mg/kg)	0.005 U	0.005 U		1.2 U	1.2 U	0.03 U	0.06 U	0.006 U	0.006 U	0.006 U
Endrin Aldehyde (mg/kg)	0.005 U	0.005 U		1.2 U	1.2 U	0.03 U	0.06 U	0.006 U	0.006 U	0.006 U
Gamma-BHC (mg/kg)	0.005 U	0.005 U		0.6 U	0.6 U	0.015 U	0.03 U	<b>0.0082</b>	<b>0.002 J</b>	<b>0.002 J</b>
Heptachlor (mg/kg)	0.005 U	0.005 U		0.6 U	0.6 U	0.015 U	0.03 U	0.003 U	0.003 U	0.003 U
Heptachlor Epoxide (mg/kg)	0.005 U	0.005 U								
Heptachlor epoxide A (mg/kg)				0.6 U	0.6 U	0.015 U	0.03 U	0.003 U	0.003 U	0.003 U
Heptachlor epoxide B (mg/kg)				0.6 U	0.6 U	0.015 U	0.03 U	0.003 U	0.003 U	0.003 U
Methoxychlor (mg/kg)	0.005 U	0.005 U		6 U	6 U	0.15 U	0.3 U	0.03 U	0.03 U	0.03 U
Toxaphene (mg/kg)	0.05 U	0.05 U		12 U	12 U	0.3 U	0.6 U	0.06 U	0.06 U	0.06 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.01 U	0.06 U	0.01 U							
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U							
captan (mg/kg)	0.1 U	0.13 U	0.1 U							
Carbophenothion (mg/kg)	0.01 U	0.01 U	<b>0.01</b>							



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A02	A02	A02	A03	A03	A03	A03	A03	A03	A03
Sample ID	A02-13-1.5	A02-13-3.5	A02-13-6.5	A03-01-4	A03-01-7	A03-03-2.5	A03-03-4.5	A03-03-7	A03-04-2.5	A03-04-4.5
Sample Date	10/13/99	10/13/99	10/13/99	8/23/99	8/23/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99
Horizon										
Cycloate (mg/kg)	0.01 U	<b>0.055</b>	<b>1.87</b>							
EPTC (mg/kg)	0.01 U	<b>0.085</b>	<b>0.49</b>							
Flurochloridone (mg/kg)	0.03 U	0.03 U	0.01 U							
Fonofos (mg/kg)	0.01 U	0.01 U	<b>0.01</b>							
Metam sodium (mg/kg)		0.09 U	0.09 U							
Molinate (mg/kg)		<b>5.35</b>	<b>12.59</b>							
Napropamide (mg/kg)	0.01 U	0.01 U	0.01 U							
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U							
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U							
R25788 (mg/kg)		0.01 U	<b>0.02</b>							
R29148 (mg/kg)	0.01 U	0.01 U	<b>0.14</b>							
Vernolate (mg/kg)	0.01 U	0.01 U	<b>0.01</b>							

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	3 U	2.9 U	<b>3.9</b>	3 U	2.9 U	3 U	<b>4.4</b>	2.9 U	2.9 U	
Arsenic (mg/kg)	<b>15</b>	<b>30</b>	<b>71</b>	<b>4.6</b>	<b>99</b>	<b>300</b>	<b>93</b>	<b>1.7</b>	<b>3.1</b>	
Barium (mg/kg)	<b>200</b>	<b>74</b>	<b>150</b>	<b>170</b>	<b>110</b>	<b>100</b>	<b>86</b>	<b>93</b>	<b>110</b>	
Beryllium (mg/kg)	<b>0.1</b>	<b>0.21</b>	0.095 U	0.1 U	0.097 U	<b>0.13</b>	0.095 U	<b>0.54</b>	<b>0.11</b>	
Cadmium (mg/kg)	<b>1.3</b>	<b>2</b>	<b>10</b>	<b>0.69</b>	<b>0.43</b>	<b>2.3</b>	<b>7.3</b>	<b>0.41</b>	<b>0.28</b>	
Chromium (mg/kg)	<b>18</b>	<b>15</b>	<b>1.7</b>	<b>18</b>	<b>0.61</b>	<b>60</b>	<b>1.5</b>	<b>25</b>	<b>26</b>	
Cobalt (mg/kg)	<b>1.4</b>	<b>4.9</b>	<b>5.1</b>	1 U	<b>2.4</b>	<b>8.3</b>	<b>6.8</b>	<b>8.4</b>	<b>1.4</b>	
Copper (mg/kg)	<b>5800</b>	<b>170</b>	<b>36000</b>	<b>1700</b>	<b>260</b>	<b>300</b>	<b>34000</b>	<b>17</b>	<b>430</b>	
Lead (mg/kg)	<b>16</b>	<b>78</b>	<b>58</b>	<b>10</b>	<b>71</b>	<b>16</b>	<b>79</b>	<b>7.3</b>	<b>2.8</b>	
Mercury (mg/kg)	<b>1.2</b>	<b>0.66</b>	<b>0.94</b>	0.04 U	<b>0.13</b>	<b>0.88</b>	<b>0.75</b>	<b>0.071</b>	<b>0.051</b>	
Molybdenum (mg/kg)	<b>1.1</b>	<b>1.4</b>	<b>8.9</b>	1 U	<b>5.1</b>	<b>1.4</b>	<b>11</b>	0.98 U	0.98 U	
Nickel (mg/kg)	<b>18</b>	<b>26</b>	<b>26</b>	<b>11</b>	<b>25</b>	<b>72</b>	<b>36</b>	<b>30</b>	<b>11</b>	
Selenium (mg/kg)	0.25 U	<b>0.3</b>	<b>2.1</b>	0.25 U	<b>2.1</b>	0.25 U	<b>1.8</b>	0.25 U	0.24 U	
Silver (mg/kg)	<b>1.1</b>	<b>1.4</b>	<b>5.5</b>	0.5 U	<b>3.7</b>	<b>1.1</b>	<b>6.2</b>	0.49 U	0.49 U	
Thallium (mg/kg)	<b>0.67</b>	<b>0.49</b>	<b>5</b>	<b>0.32</b>	<b>2.8</b>	<b>1.1</b>	<b>5.7</b>	0.25 U	0.24 U	
Vanadium (mg/kg)	<b>16</b>	<b>19</b>	<b>6.9</b>	<b>16</b>	<b>9.5</b>	<b>32</b>	<b>6</b>	<b>20</b>	<b>28</b>	
Zinc (mg/kg)	<b>440</b>	<b>610</b>	<b>720</b>	<b>110</b>	<b>110</b>	<b>83</b>	<b>1500</b>	<b>190</b>	<b>77</b>	
<b>2. pH</b>										
pH (SU)	<b>4.1</b>	<b>3.5</b>	<b>3.6</b>	<b>4</b>	<b>3.4</b>	<b>3.4</b>	<b>3.9</b>	<b>7</b>	<b>4.1</b>	
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
1,1,2,2-Tetrachloroethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
1,1,2-Trichloroethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
1,1-Dichloroethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
1,1-Dichloroethene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
1,1-Dichloropropene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,2,3-Trichlorobenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,2,3-Trichloropropane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,2,4-Trichlorobenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,2,4-Trimethylbenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,2-Dibromo-3-Chloropropane (mg/k)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,2-Dibromoethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,2-Dichlorobenzene (mg/kg)	3.1 U	0.0049 U	<b>0.35</b>	2.1 U	0.005 U	0.0048 U	<b>0.0034 J</b>	0.0047 U	0.0047 U	
1,2-Dichloroethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
1,2-Dichloropropane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
1,3,5-Trimethylbenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,3-Dichlorobenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
1,3-Dichloropropane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
1,4-Dichlorobenzene (mg/kg)	3.1 U	0.0049 U	<b>0.99</b>	<b>2.3</b>	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
2,2-Dichloropropane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
2-Butanone (mg/kg)	6.3 U	0.0098 U	0.63 U	4.2 U	0.01 U	0.0096 U	0.01 U			
2-Chlorotoluene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
2-Hexanone (mg/kg)	6.3 U	0.0098 U	0.63 U	4.2 U	0.01 U	0.0096 U	0.01 U			

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
4-Chlorotoluene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
4-Methyl-2-Pentanone (mg/kg)	6.3 U	0.0098 U	0.63 U	4.2 U	0.01 U	0.0096 U	0.01 U			
Acetone (mg/kg)	13 U	0.02 U	1.3 U	8.3 U	0.02 U	0.019 U	0.02 U			
Benzene (mg/kg)	3.1 U	<b>0.004 J</b>	0.31 U	2.1 U	0.005 U	0.0048 U	<b>0.025</b>	0.0047 U	0.0047 U	
Bromobenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
Bromochloromethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
Bromodichloromethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Bromoform (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0094 U	0.0094 U	
Bromomethane (mg/kg)	6.3 U	0.0098 U	0.63 U	4.2 U	0.01 U	0.0096 U	0.01 U	0.0094 U	0.0094 U	
Carbon Disulfide (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	<b>0.0029 J</b>	0.0047 U	0.0047 U	
Carbon Tetrachloride (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Chlorobenzene (mg/kg)	<b>100</b>	<b>0.022</b>	<b>9.2</b>	<b>65</b>	0.005 U	<b>0.0032 J</b>	<b>0.059</b>	0.0047 U	0.0047 U	
Chloroethane (mg/kg)	6.3 U	0.0098 U	0.63 U	4.2 U	0.01 U	0.0096 U	0.01 U	0.0094 U	0.0094 U	
Chloroform (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Chloromethane (mg/kg)	6.3 U	0.0098 U	0.63 U	4.2 U	0.01 U	0.0096 U	0.01 U	0.0094 U	0.0094 U	
cis-1,2-Dichloroethene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
cis-1,3-Dichloropropene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Dibromochloromethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Dibromomethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
Ethylbenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Freon 113 (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Freon 12 (mg/kg)	6.3 U	0.0098 U	0.63 U	4.2 U	0.01 U	0.0096 U	0.01 U			
Hexachlorobutadiene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
Isopropylbenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
m,p-Xylenes (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Methylene Chloride (mg/kg)	13 U	0.02 U	1.3 U	8.3 U	0.02 U	0.019 U	0.02 U	0.019 U	0.019 U	
MTBE (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
n-Butylbenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
Naphthalene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
o-Xylene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
para-Isopropyl Toluene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
Propylbenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
sec-Butylbenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
Styrene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
tert-Butylbenzene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U			
Tetrachloroethene (mg/kg)	<b>2.1 J</b>	<b>0.0074</b>	<b>0.22 J</b>	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Toluene (mg/kg)	3.1 U	<b>0.0029 J</b>	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
trans-1,2-Dichloroethene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
trans-1,3-Dichloropropene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Trichloroethene (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Trichlorofluoromethane (mg/kg)	3.1 U	0.0049 U	0.31 U	2.1 U	0.005 U	0.0048 U	0.005 U	0.0047 U	0.0047 U	
Vinyl Acetate (mg/kg)	31 U	0.049 U	3.1 U	21 U	0.05 U	0.048 U	0.05 U			
Vinyl Chloride (mg/kg)	6.3 U	0.0098 U	0.63 U	4.2 U	0.01 U	0.0096 U	0.01 U	0.0094 U	0.0094 U	
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2,4,6-Trichlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
2,4-Dichlorophenol (mg/kg)	<b>0.45</b>	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2,4-Dimethylphenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2,4-Dinitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
2,4-Dinitrotoluene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2,6-Dinitrotoluene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2-Chloronaphthalene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2-Chlorophenol (mg/kg)	<b>1.7</b>	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2-Methylnaphthalene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2-Methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
2-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
2-Nitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
3,3'-Dichlorobenzidine (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
3-,4-Methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
3-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
4-Bromophenyl-phenylether (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
4-Chloro-3-methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
4-Chloroaniline (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
4-Chlorophenyl-phenylether (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
4-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
4-Nitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
Acenaphthene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Acenaphthylene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
Anthracene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Azobenzene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Benzo(a)anthracene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Benzo(a)pyrene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Benzo(b,k)fluoranthene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	<b>0.18 J</b>	0.33 U	0.33 U			
Benzo(g,h,i)perylene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Benzoic acid (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
Benzyl alcohol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
bis(2-Chloroethyl)ether (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Butylbenzylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Chrysene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	<b>0.19 J</b>	0.33 U	0.33 U			
Di-n-butylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Di-n-octylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Dibenz(a,h)anthracene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Dibenzofuran (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Diethylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Dimethylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Fluoranthene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	<b>0.17 J</b>	0.33 U	0.33 U			
Fluorene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Hexachlorobenzene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
Hexachloroethane (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Isophorone (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
N-Nitrosodimethylamine (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
N-Nitrosodiphenylamine (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Nitrobenzene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Pentachlorophenol (mg/kg)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U			
Phenanthrene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Phenol (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U			
Pyrene (mg/kg)	0.33 U	0.33 U	0.33 U	0.33 U	<b>0.23 J</b>	0.33 U	0.33 U			
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	<b>0.064</b>	12 U	0.6 U	0.6 U	0.006 U	0.012 U	0.006 U			
4,4'-DDE (mg/kg)	0.006 U	12 U	0.6 U	0.6 U	0.006 U	0.012 U	0.006 U			
4,4'-DDT (mg/kg)	<b>0.024</b>	<b>9.2 J</b>	0.6 U	<b>1.1</b>	0.006 U	<b>0.012 J</b>	0.006 U			
Aldrin (mg/kg)	0.003 U	6 U	0.3 U	0.3 U	0.003 U	0.006 U	0.003 U			
alpha-BHC (mg/kg)	<b>0.021</b>	6 U	0.3 U	0.3 U	<b>0.015</b>	<b>0.11</b>	<b>0.0025 J</b>			
Aroclor-1016 (mg/kg)	0.012 U	24 U	1.2 U	1.2 U	0.012 U	0.024 U	0.012 U			
Aroclor-1221 (mg/kg)	0.024 U	48 U	2.4 U	2.4 U	0.024 U	0.048 U	0.024 U			
Aroclor-1232 (mg/kg)	0.012 U	24 U	1.2 U	1.2 U	0.012 U	0.024 U	0.012 U			
Aroclor-1242 (mg/kg)	0.012 U	24 U	1.2 U	1.2 U	0.012 U	0.024 U	0.012 U			
Aroclor-1248 (mg/kg)	0.012 U	24 U	1.2 U	1.2 U	0.012 U	0.024 U	0.012 U			



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
Aroclor-1254 (mg/kg)	0.012 U	24 U	1.2 U	1.2 U	0.012 U	0.024 U	0.012 U			
Aroclor-1260 (mg/kg)	0.012 U	24 U	1.2 U	1.2 U	0.012 U	0.024 U	0.012 U			
beta-BHC (mg/kg)	0.003 U	6 U	0.3 U	0.3 U	<b>0.0031</b>	<b>0.025</b>	0.003 U			
Chlordane (mg/kg)	0.03 U	60 U	3 U	3 U	0.03 U	0.06 U	0.03 U			
delta-BHC (mg/kg)	0.003 U	6 U	0.3 U	0.3 U	<b>0.0033</b>	<b>0.036</b>	0.003 U			
Dieldrin (mg/kg)	0.006 U	12 U	0.6 U	0.6 U	0.006 U	0.012 U	0.006 U			
Endosulfan I (mg/kg)	0.003 U	6 U	0.3 U	0.3 U	0.003 U	0.006 U	0.003 U			
Endosulfan II (mg/kg)	0.006 U	12 U	0.6 U	0.6 U	0.006 U	0.012 U	0.006 U			
Endosulfan sulfate (mg/kg)	0.006 U	12 U	0.6 U	0.6 U	0.006 U	0.012 U	0.006 U			
Endrin (mg/kg)	0.006 U	12 U	0.6 U	0.6 U	0.006 U	0.012 U	0.006 U			
Endrin aldehyde (mg/kg)	0.006 U	12 U	0.6 U	0.6 U	0.006 U	0.012 U	0.006 U			
gamma-BHC (mg/kg)	<b>0.0062</b>	6 U	0.3 U	0.3 U	<b>0.016</b>	<b>0.064</b>	0.003 U			
Heptachlor (mg/kg)	0.003 U	6 U	0.3 U	0.3 U	0.003 U	0.006 U	0.003 U			
Heptachlor epoxide A (mg/kg)	0.003 U	6 U	0.3 U	0.3 U	0.003 U	0.006 U	0.003 U			
Heptachlor epoxide B (mg/kg)	0.003 U	6 U	0.3 U	0.3 U	0.003 U	0.006 U	0.003 U			
Methoxychlor (mg/kg)	0.03 U	60 U	3 U	3 U	0.03 U	0.06 U	0.03 U			
Toxaphene (mg/kg)	0.06 U	120 U	6 U	6 U	0.06 U	0.12 U	0.06 U			
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)								0.6 U	0.06 U	0.05 U
Butylate (mg/kg)								0.01 U	0.01 U	0.01 U
captan (mg/kg)								0.5 U	0.13 U	0.05 U
Carbophenothion (mg/kg)								0.01 U	0.01 U	0.01 U
Cycloate (mg/kg)								0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A03	A03	A03
Sample ID	A03-04-7	A03-05-2.5	A03-05-4.5	A03-05-7	A03-06-2.5	A03-06-4.5	A03-06-7	BZ-01-1.5	BZ-01-3.5	BZ-01-6.5
Sample Date	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/8/99
Horizon										
EPTC (mg/kg)								0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)								0.01 U	0.01 U	0.01 U
Fonofos (mg/kg)								0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)								0.09 U	0.09 U	
Molinate (mg/kg)								0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)								0.01 U	0.01 U	0.01 U
Pebulate (mg/kg)								0.01 U	0.01 U	0.01 U
phosmet (mg/kg)								0.5 U	0.05 U	0.05 U
R25788 (mg/kg)								0.01 U	0.01 U	0.01 U
R29148 (mg/kg)								0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)								0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	3.7	2.9 U		2.9 U	3 U		3 U	2.8 U	3 U	2.9 U
Arsenic (mg/kg)	36	7.8		23	98		67	78	12	27
Barium (mg/kg)	110	180		39	90		170	62	100	230
Beryllium (mg/kg)	0.11	0.29		0.095 U	0.1 U		0.35	0.095 U	0.18	0.096 U
Cadmium (mg/kg)	4.4	1.9		2.8	1.8		1.4	0.54	0.62	0.29
Chromium (mg/kg)	6.7	150		5.5	7.2		11	15	14	0.64
Cobalt (mg/kg)	5.4	5.1		3.7	3.6		4.2	1.3	6	1.9
Copper (mg/kg)	640	420		120	1200		280	160	56	79
Lead (mg/kg)	160	8.1		70	4600		16	4.3	320	59
Mercury (mg/kg)	1.2	0.11		2.3	6		1.5	0.48	0.25	0.52
Molybdenum (mg/kg)	3	0.98 U		3.4	2.9		1.3	1	1 U	3.8
Nickel (mg/kg)	34	53		53	31		14	15	21	15
Selenium (mg/kg)	1	0.24 U		2.9	35		4.4	1.3	0.64	1.6
Silver (mg/kg)	4.7	0.49 U		3.6	2.2		0.5 U	0.47 U	0.98	1.9
Thallium (mg/kg)	0.8	0.24 U		0.86	2.2		0.49	1.2	0.25 U	1.2
Vanadium (mg/kg)	13	40		11	9.1		20	9.5	13	5.1
Zinc (mg/kg)	1100	420		840	470		300	8.6	54	14
<b>2. pH</b>										
pH (SU)	3.8	3.6		3.5	4		7.3	4.2	12	4.1
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,1,2-Trichloroethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,1-Dichloroethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,1-Dichloroethene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,1-Dichloropropene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2,3-Trichlorobenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2,3-Trichloropropane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2,4-Trichlorobenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2,4-Trimethylbenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2-Dibromo-3-Chloropropane (mg/k)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2-Dibromoethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2-Dichlorobenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2-Dichloroethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,2-Dichloropropane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,3,5-Trimethylbenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,3-Dichlorobenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,3-Dichloropropane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
1,4-Dichlorobenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	<b>0.1 J</b>	0.0048 U	0.0047 U
2,2-Dichloropropane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
2-Butanone (mg/kg)	0.0098 U	0.0094 U		0.01 U	0.25 U		0.01 U	0.33 U	0.0096 U	0.0094 U
2-Chlorotoluene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
2-Hexanone (mg/kg)	0.0098 U	0.0094 U		0.01 U	0.25 U		0.01 U	0.33 U	0.0096 U	0.0094 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
4-Chlorotoluene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
4-Methyl-2-Pentanone (mg/kg)	0.0098 U	0.0094 U		0.01 U	0.25 U		0.01 U	0.33 U	0.0096 U	0.0094 U
Acetone (mg/kg)	<b>0.035</b>	<b>0.025</b>		0.02 U	0.5 U		0.02 U	0.67 U	0.019 U	0.019 U
Benzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Bromobenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Bromochloromethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Bromodichloromethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Bromoform (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Bromomethane (mg/kg)	0.0098 U	0.0094 U		0.01 U	0.25 U		0.01 U	0.33 U	0.0096 U	0.0094 U
Carbon Disulfide (mg/kg)	<b>0.011</b>	0.0047 U		0.0051 U	<b>1.9</b>		0.0051 U	<b>5.6</b>	0.0048 U	0.0047 U
Carbon Tetrachloride (mg/kg)	0.0049 U	0.0047 U		<b>0.0031 J</b>	<b>1.7</b>		0.0051 U	0.17 U	0.0048 U	0.0047 U
Chlorobenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	<b>0.37</b>		0.0051 U	<b>6.9</b>	0.0048 U	0.0047 U
Chloroethane (mg/kg)	0.0098 U	0.0094 U		0.01 U	0.25 U		0.01 U	0.33 U	0.0096 U	0.0094 U
Chloroform (mg/kg)	0.0049 U	0.0047 U		<b>0.012</b>	<b>3</b>		0.0051 U	0.17 U	0.0048 U	0.0047 U
Chloromethane (mg/kg)	0.0098 U	0.0094 U		0.01 U	0.25 U		0.01 U	0.33 U	0.0096 U	0.0094 U
cis-1,2-Dichloroethene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
cis-1,3-Dichloropropene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Dibromochloromethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Dibromomethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Ethylbenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Freon 113 (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Freon 12 (mg/kg)	0.0098 U	0.0094 U		0.01 U	0.25 U		0.01 U	0.33 U	0.0096 U	0.0094 U
Hexachlorobutadiene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Isopropylbenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
m,p-Xylenes (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Methylene Chloride (mg/kg)	0.02 U	0.019 U		0.02 U	0.5 U		0.02 U	0.67 U	0.019 U	0.019 U
MTBE (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
n-Butylbenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Naphthalene (mg/kg)	0.0049 U	0.0047 U		<b>0.0046 J</b>	<b>1.5</b>		0.0051 U	0.17 U	0.0048 U	0.0047 U
o-Xylene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
para-Isopropyl Toluene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	<b>0.86</b>		0.0051 U	0.17 U	0.0048 U	0.0047 U
Propylbenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
sec-Butylbenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Styrene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
tert-Butylbenzene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Tetrachloroethene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	<b>0.065 J</b>		0.0051 U	0.17 U	0.0048 U	0.0047 U
Toluene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
trans-1,2-Dichloroethene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
trans-1,3-Dichloropropene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Trichloroethene (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Trichlorofluoromethane (mg/kg)	0.0049 U	0.0047 U		0.0051 U	0.13 U		0.0051 U	0.17 U	0.0048 U	0.0047 U
Vinyl Acetate (mg/kg)	0.049 U	0.047 U		0.051 U	1.3 U		0.051 U	1.7 U	0.048 U	0.047 U
Vinyl Chloride (mg/kg)	0.0098 U	0.0094 U		0.01 U	0.25 U		0.01 U	0.33 U	0.0096 U	0.0094 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
2,4,6-Trichlorophenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
2,4-Dichlorophenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
2,4-Dimethylphenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
2,4-Dinitrophenol (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
2,4-Dinitrotoluene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
2,6-Dinitrotoluene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
2-Chloronaphthalene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
2-Chlorophenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	<b>0.26 J</b>	3.3 U	0.33 U
2-Methylnaphthalene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
2-Methylphenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
2-Nitroaniline (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
2-Nitrophenol (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
3,3'-Dichlorobenzidine (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
3-,4-Methylphenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
3-Nitroaniline (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
4-Bromophenyl-phenylether (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
4-Chloro-3-methylphenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
4-Chloroaniline (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
4-Chlorophenyl-phenylether (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
4-Nitroaniline (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
4-Nitrophenol (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
Acenaphthene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Acenaphthylene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Anthracene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Azobenzene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Benzo(a)anthracene (mg/kg)	<b>0.42</b>	0.33 U		3.3 U	<b>1.4 J</b>		0.33 U	0.33 U	3.3 U	0.33 U
Benzo(a)pyrene (mg/kg)	<b>0.38</b>	0.33 U		3.3 U	<b>1.2 J</b>		0.33 U	0.33 U	3.3 U	0.33 U
Benzo(b,k)fluoranthene (mg/kg)	<b>0.81</b>	0.33 U		3.3 U	<b>2.2</b>		0.33 U	0.33 U	3.3 U	0.33 U
Benzo(g,h,i)perylene (mg/kg)	<b>0.31 J</b>	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Benzoic acid (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
Benzyl alcohol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
bis(2-Chloroethyl)ether (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Butylbenzylphthalate (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Chrysene (mg/kg)	<b>0.83</b>	0.33 U		3.3 U	<b>2.1</b>		0.33 U	0.33 U	3.3 U	0.33 U
Di-n-butylphthalate (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Di-n-octylphthalate (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Dibenz(a,h)anthracene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Dibenzofuran (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Diethylphthalate (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Dimethylphthalate (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Fluoranthene (mg/kg)	<b>0.79</b>	0.33 U		3.3 U	<b>2.6</b>		0.33 U	0.33 U	3.3 U	0.33 U
Fluorene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Hexachlorobenzene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
Hexachloroethane (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)	<b>0.27 J</b>	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Isophorone (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
N-Nitrosodimethylamine (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
N-Nitrosodiphenylamine (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Nitrobenzene (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		0.33 U	0.33 U	3.3 U	0.33 U
Pentachlorophenol (mg/kg)	1.7 U	1.7 U		17 U	8.3 U		1.7 U	1.7 U	17 U	1.7 U
Phenanthrene (mg/kg)	<b>1.1</b>	0.33 U		3.3 U	<b>4.6</b>		0.33 U	0.33 U	3.3 U	0.33 U
Phenol (mg/kg)	0.33 U	0.33 U		3.3 U	1.7 U		<b>1.5</b>	0.33 U	3.3 U	0.33 U
Pyrene (mg/kg)	<b>1.7</b>	0.33 U		3.3 U	<b>2.9</b>		0.33 U	0.33 U	3.3 U	0.33 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.06 U	0.006 U		0.06 U	0.12 U		0.006 U	0.6 U	<b>0.057 J</b>	0.006 U
4,4'-DDE (mg/kg)	0.06 U	0.006 U		0.06 U	0.12 U		0.006 U	0.6 U	0.06 U	0.006 U
4,4'-DDT (mg/kg)	0.06 U	0.006 U		0.06 U	0.12 U		0.006 U	0.6 U	<b>0.047 J</b>	0.006 U
Aldrin (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
alpha-BHC (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
Aroclor-1016 (mg/kg)	0.12 U	0.012 U		0.12 U	0.24 U		0.012 U	1.2 U	0.12 U	0.012 U
Aroclor-1221 (mg/kg)	0.24 U	0.024 U		0.24 U	0.48 U		0.024 U	2.4 U	0.24 U	0.024 U
Aroclor-1232 (mg/kg)	0.12 U	0.012 U		0.12 U	0.24 U		0.012 U	1.2 U	0.12 U	0.012 U
Aroclor-1242 (mg/kg)	0.12 U	0.012 U		0.12 U	0.24 U		0.012 U	1.2 U	0.12 U	0.012 U
Aroclor-1248 (mg/kg)	0.12 U	0.012 U		0.12 U	0.24 U		0.012 U	1.2 U	0.12 U	0.012 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Aroclor-1254 (mg/kg)	0.12 U	0.012 U		0.12 U	0.24 U		0.012 U	1.2 U	0.12 U	0.012 U
Aroclor-1260 (mg/kg)	0.12 U	0.012 U		0.12 U	0.24 U		0.012 U	1.2 U	0.12 U	0.012 U
beta-BHC (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
Chlordane (mg/kg)	0.3 U	0.03 U		0.3 U	0.6 U		0.03 U	3 U	0.3 U	0.03 U
delta-BHC (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
Dieldrin (mg/kg)	0.06 U	0.006 U		0.06 U	0.12 U		0.006 U	0.6 U	0.06 U	0.006 U
Endosulfan I (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
Endosulfan II (mg/kg)	0.06 U	0.006 U		0.06 U	0.12 U		0.006 U	0.6 U	0.06 U	0.006 U
Endosulfan sulfate (mg/kg)	0.06 U	0.006 U		0.06 U	0.12 U		0.006 U	0.6 U	0.06 U	0.006 U
Endrin (mg/kg)	0.06 U	0.006 U		0.06 U	0.12 U		0.006 U	0.6 U	0.06 U	0.006 U
Endrin aldehyde (mg/kg)	0.06 U	0.006 U		0.06 U	0.12 U		0.006 U	0.6 U	0.06 U	0.006 U
gamma-BHC (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
Heptachlor (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
Heptachlor epoxide A (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
Heptachlor epoxide B (mg/kg)	0.03 U	0.003 U		0.03 U	0.06 U		0.003 U	0.3 U	0.03 U	0.003 U
Methoxychlor (mg/kg)	0.3 U	0.03 U		0.3 U	0.6 U		0.03 U	3 U	0.3 U	0.03 U
Toxaphene (mg/kg)	0.6 U	0.06 U		0.6 U	1.2 U		0.06 U	6 U	0.6 U	0.06 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.06 U	0.06 U	0.06 U	0.06 U	0.12 U		0.1 U	0.06 U	0.06 U	0.13 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U		0.01 U	0.01 U	<b>8.4</b>	<b>0.01</b>	0.01 U	0.01 U
captan (mg/kg)	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U		0.25 U	0.25 U	0.25 U	0.1 U
Carbophenothion (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-04-1.5	A04-04-3.5	A04-04-6.5	A04-05-1.5	A04-05-3.5	A04-05-6.5	A04-06-1.5	A04-06-6.5	A04-07-1.0	A04-07-3.0
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
EPTC (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	0.03 U	<b>0.04</b>	0.03 U	<b>0.03</b>	0.01 U	0.01 U	<b>0.01</b>	0.03 U	0.01 U	<b>0.01</b>
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)		0.09 U	0.09 U	0.09 U	0.09 U		0.09 U	<b>130</b>	0.09 U	0.09 U
Molinate (mg/kg)	0.01 U	0.01 U	<b>0.01</b>	0.01 U	<b>0.05</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U		0.05 U	0.05 U	0.05 U	0.1 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.03</b>	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.57</b>	0.01 U	0.01 U	<b>0.09</b>	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)			3 U	3 U		2.9 U	<b>6.3</b>		3	3 U
Arsenic (mg/kg)			<b>30</b>	<b>12</b>		<b>4.5</b>	<b>54</b>		<b>10</b>	<b>19</b>
Barium (mg/kg)			<b>180</b>	<b>100</b>		<b>29</b>	<b>430</b>		<b>160</b>	<b>67</b>
Beryllium (mg/kg)			0.099 U	0.1 U		<b>0.22</b>	0.098 U		0.096 U	0.1 U
Cadmium (mg/kg)			<b>0.68</b>	<b>0.26</b>		<b>6.2</b>	<b>2.5</b>		<b>0.68</b>	<b>0.39</b>
Chromium (mg/kg)			<b>20</b>	<b>11</b>		<b>17</b>	<b>2.4</b>		<b>14</b>	<b>35</b>
Cobalt (mg/kg)			<b>1</b>	1 U		<b>6.7</b>	0.98 U		<b>6.2</b>	1 U
Copper (mg/kg)			<b>66</b>	<b>19</b>		<b>280</b>	<b>210</b>		<b>130</b>	<b>49</b>
Lead (mg/kg)			<b>450</b>	<b>13</b>		<b>19</b>	<b>18000</b>		<b>910</b>	<b>4.8</b>
Mercury (mg/kg)			<b>1.5</b>	<b>0.49</b>		<b>0.41</b>	<b>82</b>		<b>2.4</b>	<b>0.14</b>
Molybdenum (mg/kg)			0.99 U	1 U		0.96 U	<b>1.7</b>		<b>29</b>	1 U
Nickel (mg/kg)			<b>17</b>	<b>11</b>		<b>42</b>	<b>9</b>		<b>21</b>	<b>24</b>
Selenium (mg/kg)			<b>1.3</b>	0.25 U		0.24 U	<b>500</b>		<b>0.87</b>	0.25 U
Silver (mg/kg)			<b>1.3</b>	0.5 U		0.48 U	<b>8.7</b>		<b>1.1</b>	0.5 U
Thallium (mg/kg)			<b>0.3</b>	<b>0.3</b>		0.24 U	<b>1.1</b>		0.24 U	0.25 U
Vanadium (mg/kg)			<b>28</b>	<b>7.5</b>		<b>13</b>	<b>9.9</b>		<b>32</b>	<b>22</b>
Zinc (mg/kg)			<b>59</b>	<b>8.3</b>		<b>1400</b>	<b>620</b>		<b>31</b>	<b>7.8</b>
<b>2. pH</b>										
pH (SU)			<b>3.4</b>	<b>4.6</b>		<b>6.7</b>	<b>5.3</b>		<b>4.3</b>	<b>3.8</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
1,1,1-Trichloroethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,1,2,2-Tetrachloroethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,1,2-Trichloroethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,1-Dichloroethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,1-Dichloroethene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,1-Dichloropropene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2,3-Trichlorobenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2,3-Trichloropropane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2,4-Trichlorobenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2,4-Trimethylbenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2-Dibromo-3-Chloropropane (mg/k			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2-Dibromoethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2-Dichlorobenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2-Dichloroethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,2-Dichloropropane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,3,5-Trimethylbenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,3-Dichlorobenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,3-Dichloropropane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
1,4-Dichlorobenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
2,2-Dichloropropane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
2-Butanone (mg/kg)			0.0098 U	0.01 U		0.0098 U	0.0098 U		0.0098 U	1 U
2-Chlorotoluene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
2-Hexanone (mg/kg)			0.0098 U	0.01 U		0.0098 U	0.0098 U		0.0098 U	1 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
4-Chlorotoluene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
4-Methyl-2-Pentanone (mg/kg)			0.0098 U	0.01 U		0.0098 U	0.0098 U		0.0098 U	1 U
Acetone (mg/kg)			0.02 U	0.02 U		0.02 U	<b>0.025</b>		0.02 U	2 U
Benzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	<b>0.011</b>		0.0049 U	0.5 U
Bromobenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Bromochloromethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Bromodichloromethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Bromoform (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Bromomethane (mg/kg)			0.0098 U	0.01 U		0.0098 U	0.0098 U		0.0098 U	1 U
Carbon Disulfide (mg/kg)			<b>0.0054</b>	0.005 U		0.0049 U	<b>0.16</b>		0.0049 U	<b>16</b>
Carbon Tetrachloride (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Chlorobenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	<b>0.053</b>		0.0049 U	<b>0.4 J</b>
Chloroethane (mg/kg)			0.0098 U	0.01 U		0.0098 U	0.0098 U		0.0098 U	1 U
Chloroform (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Chloromethane (mg/kg)			0.0098 U	0.01 U		0.0098 U	0.0098 U		0.0098 U	1 U
cis-1,2-Dichloroethene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
cis-1,3-Dichloropropene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Dibromochloromethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Dibromomethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Ethylbenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Freon 113 (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Freon 12 (mg/kg)			0.0098 U	0.01 U		0.0098 U	0.0098 U		0.0098 U	1 U
Hexachlorobutadiene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Isopropylbenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
m,p-Xylenes (mg/kg)			0.0049 U	0.005 U		0.0049 U	<b>0.0028 J</b>		0.0049 U	0.5 U
Methylene Chloride (mg/kg)			0.02 U	0.02 U		0.02 U	0.02 U		0.02 U	2 U
MTBE (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
n-Butylbenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Naphthalene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
o-Xylene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
para-Isopropyl Toluene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Propylbenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
sec-Butylbenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Styrene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
tert-Butylbenzene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Tetrachloroethene (mg/kg)			0.0049 U	0.005 U		<b>0.0036 J</b>	<b>0.14</b>		<b>0.0065</b>	0.5 U
Toluene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
trans-1,2-Dichloroethene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
trans-1,3-Dichloropropene (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Trichloroethene (mg/kg)			0.0049 U	0.005 U		0.0049 U	<b>0.0041 J</b>		0.0049 U	0.5 U
Trichlorofluoromethane (mg/kg)			0.0049 U	0.005 U		0.0049 U	0.0049 U		0.0049 U	0.5 U
Vinyl Acetate (mg/kg)			0.049 U	0.05 U		0.049 U	0.049 U		0.049 U	5 U
Vinyl Chloride (mg/kg)			0.0098 U	0.01 U		0.0098 U	0.0098 U		0.0098 U	1 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2,4,6-Trichlorophenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
2,4-Dichlorophenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2,4-Dimethylphenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2,4-Dinitrophenol (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
2,4-Dinitrotoluene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2,6-Dinitrotoluene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2-Chloronaphthalene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2-Chlorophenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2-Methylnaphthalene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2-Methylphenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
2-Nitroaniline (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
2-Nitrophenol (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
3,3'-Dichlorobenzidine (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
3-,4-Methylphenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		<b>8.3</b>	0.33 U
3-Nitroaniline (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
4-Bromophenyl-phenylether (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
4-Chloro-3-methylphenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
4-Chloroaniline (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
4-Chlorophenyl-phenylether (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
4-Nitroaniline (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
4-Nitrophenol (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
Acenaphthene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Acenaphthylene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Anthracene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		<b>3.8</b>	0.33 U
Azobenzene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Benzo(a)anthracene (mg/kg)			<b>0.32 J</b>	0.33 U		<b>0.22 J</b>	3.3 U		<b>9</b>	0.33 U
Benzo(a)pyrene (mg/kg)			<b>0.26 J</b>	0.33 U		<b>0.19 J</b>	3.3 U		<b>6.2</b>	0.33 U
Benzo(b,k)fluoranthene (mg/kg)			<b>0.53</b>	0.33 U		<b>0.29 J</b>	<b>2.3 J</b>		<b>21</b>	0.33 U
Benzo(g,h,i)perylene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Benzoic acid (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
Benzyl alcohol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
bis(2-Chloroethoxy)methane (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
bis(2-Chloroethyl)ether (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Butylbenzylphthalate (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Chrysene (mg/kg)			<b>0.44</b>	0.33 U		<b>0.28 J</b>	<b>1.9 J</b>		<b>12</b>	0.33 U
Di-n-butylphthalate (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Di-n-octylphthalate (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Dibenz(a,h)anthracene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Dibenzofuran (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Diethylphthalate (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Dimethylphthalate (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Fluoranthene (mg/kg)			<b>0.6</b>	0.33 U		<b>0.35</b>	3.3 U		<b>30</b>	0.33 U
Fluorene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Hexachlorobenzene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
Hexachloroethane (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		<b>4</b>	0.33 U
Isophorone (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
N-Nitroso-di-n-propylamine (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
N-Nitrosodimethylamine (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
N-Nitrosodiphenylamine (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Nitrobenzene (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Pentachlorophenol (mg/kg)			1.7 U	1.7 U		1.7 U	17 U		17 U	1.7 U
Phenanthrene (mg/kg)			<b>0.47</b>	0.33 U		<b>0.29 J</b>	3.3 U		3.3 U	0.33 U
Phenol (mg/kg)			0.33 U	0.33 U		0.33 U	3.3 U		3.3 U	0.33 U
Pyrene (mg/kg)			<b>0.64</b>	0.33 U		<b>0.39</b>	<b>1.9 J</b>		<b>40</b>	0.33 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)			<b>0.099 J</b>	0.006 U		0.006 U	0.06 U		<b>1</b>	0.006 U
4,4'-DDE (mg/kg)			0.12 U	0.006 U		0.006 U	0.06 U		0.6 U	0.006 U
4,4'-DDT (mg/kg)			<b>0.59</b>	<b>0.0047 J</b>		0.006 U	0.06 U		<b>7.2</b>	0.006 U
Aldrin (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
alpha-BHC (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
Aroclor-1016 (mg/kg)			0.24 U	0.012 U		0.012 U	0.12 U		1.2 U	0.012 U
Aroclor-1221 (mg/kg)			0.48 U	0.024 U		0.024 U	0.24 U		2.4 U	0.024 U
Aroclor-1232 (mg/kg)			0.24 U	0.012 U		0.012 U	0.12 U		1.2 U	0.012 U
Aroclor-1242 (mg/kg)			0.24 U	0.012 U		0.012 U	0.12 U		1.2 U	0.012 U
Aroclor-1248 (mg/kg)			0.24 U	0.012 U		0.012 U	0.12 U		1.2 U	0.012 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
Aroclor-1254 (mg/kg)			0.24 U	0.012 U		0.012 U	0.12 U		1.2 U	0.012 U
Aroclor-1260 (mg/kg)			0.24 U	0.012 U		0.012 U	0.12 U		1.2 U	0.012 U
beta-BHC (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
Chlordane (mg/kg)			0.6 U	0.03 U		0.03 U	0.3 U		3 U	0.03 U
delta-BHC (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
Dieldrin (mg/kg)			0.12 U	0.006 U		0.006 U	0.06 U		0.6 U	0.006 U
Endosulfan I (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
Endosulfan II (mg/kg)			0.12 U	0.006 U		0.006 U	0.06 U		0.6 U	0.006 U
Endosulfan sulfate (mg/kg)			0.12 U	0.006 U		0.006 U	0.06 U		0.6 U	0.006 U
Endrin (mg/kg)			0.12 U	0.006 U		0.006 U	0.06 U		0.6 U	0.006 U
Endrin aldehyde (mg/kg)			0.12 U	0.006 U		0.006 U	0.06 U		0.6 U	0.006 U
gamma-BHC (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
Heptachlor (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
Heptachlor epoxide A (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
Heptachlor epoxide B (mg/kg)			0.06 U	0.003 U		0.003 U	0.03 U		0.3 U	0.003 U
Methoxychlor (mg/kg)			0.6 U	0.03 U		0.03 U	0.3 U		3 U	0.03 U
Toxaphene (mg/kg)			1.2 U	0.06 U		0.06 U	0.6 U		6 U	0.06 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.05 U
Carbophenothion (mg/kg)	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	<b>0.03</b>	0.01 U	<b>1.89</b>	0.01 U
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A04
Sample ID	A04-07-4.0	A04-07-6.5	A04-08-1.5	A04-08-3.5	A04-08-6.5	A04-09-1.5	A04-09-3.5	A04-09-6.5	A04-10-1.5	A04-10-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99	9/7/99
Horizon										
EPTC (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.06</b>	0.01 U	0.01 U	<b>0.06</b>
Flurochloridone (mg/kg)	0.03 U	0.01 U	<b>0.03</b>	0.01 U	0.01 U	<b>0.05</b>	<b>0.07</b>	<b>0.03</b>	<b>0.18</b>	0.01 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U		0.09 U	0.09 U	0.09 U		<b>1.4</b>			<b>5.8</b>
Molinate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	<b>0.02</b>
Napropamide (mg/kg)		0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	<b>0.03</b>	0.01 U	<b>0.79</b>	<b>0.01</b>
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	<b>0.02</b>	0.01 U	0.01 U	0.01 U	<b>0.04</b>	0.01 U	<b>0.31</b>	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)		3 U	2.9 U	3 U	2.9 U	2.9 U	3 U	3 U		2.9 U
Arsenic (mg/kg)		<b>19</b>	<b>52</b>	<b>7.9</b>	<b>3.9</b>	<b>4.8</b>	<b>7.3</b>	<b>14</b>		<b>12</b>
Barium (mg/kg)		<b>120</b>	<b>330</b>	<b>100</b>	<b>160</b>	<b>120</b>	<b>170</b>	<b>75</b>		<b>120</b>
Beryllium (mg/kg)		<b>0.17</b>	0.095 U	<b>0.22</b>	<b>0.44</b>	<b>0.21</b>	<b>0.57</b>	<b>0.15</b>		<b>0.25</b>
Cadmium (mg/kg)		<b>2.1</b>	<b>0.91</b>	<b>0.38</b>	<b>0.66</b>	0.24 U	0.25 U	<b>5.8</b>		<b>1.3</b>
Chromium (mg/kg)		<b>13</b>	<b>5.4</b>	<b>42</b>	<b>46</b>	<b>28</b>	<b>23</b>	<b>22</b>		<b>85</b>
Cobalt (mg/kg)		<b>13</b>	<b>7.6</b>	<b>4.2</b>	<b>7.4</b>	<b>3.2</b>	<b>13</b>	<b>6.1</b>		<b>12</b>
Copper (mg/kg)		<b>240</b>	<b>840</b>	<b>200</b>	<b>740</b>	<b>290</b>	<b>28</b>	<b>170</b>		<b>160</b>
Lead (mg/kg)		<b>330</b>	<b>1400</b>	<b>6.8</b>	<b>7.2</b>	<b>9</b>	<b>38</b>	<b>20</b>		<b>1300</b>
Mercury (mg/kg)		<b>4.7</b>	<b>8.4</b>	0.039 U	<b>0.18</b>	<b>0.056</b>	<b>1.7</b>	<b>1</b>		<b>1.4</b>
Molybdenum (mg/kg)		0.99 U	<b>4.2</b>	0.99 U	0.97 U	0.98 U	1 U	1 U		<b>2.4</b>
Nickel (mg/kg)		<b>22</b>	<b>23</b>	<b>28</b>	<b>35</b>	<b>19</b>	<b>31</b>	<b>27</b>		<b>62</b>
Selenium (mg/kg)		<b>5</b>	<b>77</b>	0.25 U	0.24 U	0.24 U	0.25 U	0.25 U		0.24 U
Silver (mg/kg)		<b>0.93</b>	<b>8.5</b>	0.5 U	0.48 U	0.49 U	0.5 U	0.5 U		0.49 U
Thallium (mg/kg)		<b>0.43</b>	<b>2.2</b>	0.25 U	0.24 U	0.24 U	0.25 U	<b>0.29</b>		0.24 U
Vanadium (mg/kg)		<b>13</b>	<b>6</b>	<b>35</b>	<b>35</b>	<b>26</b>	<b>26</b>	<b>24</b>		<b>57</b>
Zinc (mg/kg)		<b>480</b>	<b>91</b>	<b>75</b>	<b>180</b>	<b>53</b>	<b>70</b>	<b>1200</b>		<b>250</b>
<b>2. pH</b>										
pH (SU)		<b>7.3</b>	<b>4.9</b>	<b>5.6</b>	<b>4.5</b>	<b>4</b>	<b>7.7</b>	<b>6.8</b>		<b>6.4</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
1,1,1-Trichloroethane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,1,2,2-Tetrachloroethane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,1,2-Trichloroethane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,1-Dichloroethane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,1-Dichloroethene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,1-Dichloropropene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,2,3-Trichlorobenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,2,3-Trichloropropane (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,2,4-Trichlorobenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,2,4-Trimethylbenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,2-Dibromo-3-Chloropropane (mg/k		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,2-Dibromoethane (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,2-Dichlorobenzene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,2-Dichloroethane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,2-Dichloropropane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,3,5-Trimethylbenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,3-Dichlorobenzene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
1,3-Dichloropropane (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
1,4-Dichlorobenzene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
2,2-Dichloropropane (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
2-Butanone (mg/kg)		0.0098 U	0.25 U	0.045 U			0.01 U	0.01 U		0.0098 U
2-Chlorotoluene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
2-Hexanone (mg/kg)		0.0098 U	0.25 U	0.045 U			0.01 U	0.01 U		0.0098 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
4-Chlorotoluene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
4-Methyl-2-Pentanone (mg/kg)		0.0098 U	0.25 U	0.045 U			0.01 U	0.01 U		0.0098 U
Acetone (mg/kg)		0.02 U	0.5 U	0.091 U			0.02 U	0.02 U		0.02 U
Benzene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Bromobenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
Bromochloromethane (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
Bromodichloromethane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Bromoform (mg/kg)		0.0049 U	0.13 U	0.023 U	0.01 U	0.0094 U	0.0051 U	0.005 U		0.0049 U
Bromomethane (mg/kg)		0.0098 U	0.25 U	0.045 U	0.01 U	0.0094 U	0.01 U	0.01 U		0.0098 U
Carbon Disulfide (mg/kg)		0.0049 U	<b>2.7</b>	<b>0.57</b>	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Carbon Tetrachloride (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Chlorobenzene (mg/kg)		0.0049 U	0.13 U	<b>0.17</b>	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Chloroethane (mg/kg)		0.0098 U	0.25 U	0.045 U	0.01 U	0.0094 U	0.01 U	0.01 U		0.0098 U
Chloroform (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	<b>0.0046 J</b>		0.0049 U
Chloromethane (mg/kg)		0.0098 U	0.25 U	0.045 U	0.01 U	0.0094 U	0.01 U	0.01 U		0.0098 U
cis-1,2-Dichloroethene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
cis-1,3-Dichloropropene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Dibromochloromethane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Dibromomethane (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
Ethylbenzene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Freon 113 (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Freon 12 (mg/kg)		0.0098 U	0.25 U	0.045 U			0.01 U	0.01 U		0.0098 U
Hexachlorobutadiene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
Isopropylbenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
m,p-Xylenes (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Methylene Chloride (mg/kg)		0.02 U	0.5 U	0.091 U	0.02 U	0.019 U	0.02 U	0.02 U		0.02 U
MTBE (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
n-Butylbenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
Naphthalene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
o-Xylene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
para-Isopropyl Toluene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
Propylbenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
sec-Butylbenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
Styrene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
tert-Butylbenzene (mg/kg)		0.0049 U	0.13 U	0.023 U			0.0051 U	0.005 U		0.0049 U
Tetrachloroethene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Toluene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
trans-1,2-Dichloroethene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
trans-1,3-Dichloropropene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Trichloroethene (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Trichlorofluoromethane (mg/kg)		0.0049 U	0.13 U	0.023 U	0.0051 U	0.0047 U	0.0051 U	0.005 U		0.0049 U
Vinyl Acetate (mg/kg)		0.049 U	1.3 U	0.23 U			0.051 U	0.05 U		0.049 U
Vinyl Chloride (mg/kg)		0.0098 U	0.25 U	0.045 U	0.01 U	0.0094 U	0.01 U	0.01 U		0.0098 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2,4,6-Trichlorophenol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
2,4-Dichlorophenol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2,4-Dimethylphenol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2,4-Dinitrophenol (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
2,4-Dinitrotoluene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2,6-Dinitrotoluene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2-Chloronaphthalene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2-Chlorophenol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2-Methylnaphthalene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2-Methylphenol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
2-Nitroaniline (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
2-Nitrophenol (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
3,3'-Dichlorobenzidine (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
3-,4-Methylphenol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
3-Nitroaniline (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
4,6-Dinitro-2-methylphenol (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
4-Bromophenyl-phenylether (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
4-Chloro-3-methylphenol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
4-Chloroaniline (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
4-Chlorophenyl-phenylether (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
4-Nitroaniline (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
4-Nitrophenol (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
Acenaphthene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Acenaphthylene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
Anthracene (mg/kg)		<b>0.38 J</b>	0.33 U	0.33 U	0.33 U					13 U
Azobenzene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Benzo(a)anthracene (mg/kg)		<b>1.4</b>	0.33 U	0.33 U	0.33 U					13 U
Benzo(a)pyrene (mg/kg)		<b>1.2</b>	0.33 U	0.33 U	0.33 U					13 U
Benzo(b,k)fluoranthene (mg/kg)		<b>2.5</b>	0.33 U	0.33 U	0.33 U					13 U
Benzo(g,h,i)perylene (mg/kg)		<b>1.1</b>	0.33 U	0.33 U	0.33 U					13 U
Benzoic acid (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
Benzyl alcohol (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
bis(2-Chloroethoxy)methane (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
bis(2-Chloroethyl)ether (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
bis(2-Chloroisopropyl) ether (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
bis(2-Ethylhexyl)phthalate (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Butylbenzylphthalate (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Chrysene (mg/kg)		<b>2</b>	0.33 U	0.33 U	0.33 U					13 U
Di-n-butylphthalate (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Di-n-octylphthalate (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Dibenz(a,h)anthracene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Dibenzofuran (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Diethylphthalate (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Dimethylphthalate (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Fluoranthene (mg/kg)		<b>2.5</b>	0.33 U	0.33 U	0.33 U					13 U
Fluorene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Hexachlorobenzene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
Hexachloroethane (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Indeno(1,2,3-cd)pyrene (mg/kg)		<b>0.99</b>	0.33 U	0.33 U	0.33 U					13 U
Isophorone (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
N-Nitroso-di-n-propylamine (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
N-Nitrosodimethylamine (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
N-Nitrosodiphenylamine (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Nitrobenzene (mg/kg)		0.67 U	0.33 U	0.33 U	0.33 U					13 U
Pentachlorophenol (mg/kg)		3.3 U	1.7 U	1.7 U	1.7 U					67 U
Phenanthrene (mg/kg)		<b>3.1</b>	<b>0.17 J</b>	0.33 U	0.33 U					13 U
Phenol (mg/kg)		0.67 U	0.33 U	0.33 U	<b>0.54</b>					13 U
Pyrene (mg/kg)		<b>4.1</b>	0.33 U	0.33 U	0.33 U					13 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)		0.06 U	0.006 U	0.006 U	0.005 U					0.06 U
4,4'-DDE (mg/kg)		0.06 U	<b>0.0037 J</b>	0.006 U	0.005 U					0.06 U
4,4'-DDT (mg/kg)		0.06 U	0.006 U	0.006 U	0.005 U					0.06 U
Aldrin (mg/kg)		0.03 U	0.003 U	0.003 U	0.005 U					0.03 U
alpha-BHC (mg/kg)		0.03 U	0.003 U	0.003 U	0.005 U					0.03 U
Aroclor-1016 (mg/kg)		0.12 U	0.012 U	0.012 U						0.12 U
Aroclor-1221 (mg/kg)		0.24 U	0.024 U	0.024 U						0.24 U
Aroclor-1232 (mg/kg)		0.12 U	0.012 U	0.012 U						0.12 U
Aroclor-1242 (mg/kg)		0.12 U	0.012 U	0.012 U						0.12 U
Aroclor-1248 (mg/kg)		0.12 U	0.012 U	0.012 U						0.12 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
Aroclor-1254 (mg/kg)		0.12 U	0.012 U	0.012 U						<b>0.65</b>
Aroclor-1260 (mg/kg)		0.12 U	0.012 U	0.012 U						0.12 U
beta-BHC (mg/kg)		0.03 U	0.003 U	0.003 U	0.005 U					0.03 U
Chlordane (mg/kg)		0.3 U	0.03 U	0.03 U	0.05 U					0.3 U
delta-BHC (mg/kg)		0.03 U	0.003 U	0.003 U	0.005 U					0.03 U
Dieldrin (mg/kg)		0.06 U	0.006 U	0.006 U	0.005 U					0.06 U
Endosulfan I (mg/kg)		0.03 U	0.003 U	0.003 U	0.005 U					0.03 U
Endosulfan II (mg/kg)		0.06 U	0.006 U	0.006 U	0.005 U					0.06 U
Endosulfan sulfate (mg/kg)		0.06 U	0.006 U	0.006 U	0.005 U					0.06 U
Endrin (mg/kg)		0.06 U	0.006 U	0.006 U	0.005 U					0.06 U
Endrin aldehyde (mg/kg)		0.06 U	0.006 U	0.006 U	0.005 U					0.06 U
gamma-BHC (mg/kg)		0.03 U	0.003 U	0.003 U	0.005 U					0.03 U
Heptachlor (mg/kg)		0.03 U	0.003 U	0.003 U	0.005 U					0.03 U
Heptachlor Epoxide (mg/kg)					0.005 U					
Heptachlor epoxide A (mg/kg)		0.03 U	0.003 U	0.003 U						0.03 U
Heptachlor epoxide B (mg/kg)		0.03 U	0.003 U	0.003 U						0.03 U
Methoxychlor (mg/kg)		0.3 U	0.03 U	0.03 U	0.005 U					0.3 U
Toxaphene (mg/kg)		0.6 U	0.06 U	0.06 U	0.05 U					0.6 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.06 U	0.06 U	0.06 U	0.06 U	0.064 U	0.064 U	0.06 U	0.06 U	0.06 U	0.6 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
captan (mg/kg)	0.25 U	0.25 U	0.25 U	<b>0.18</b>	0.13 U	0.13 U	0.25 U	0.25 U	0.25 U	0.5 U
Carbophenothion (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A04	A04	A04	A04	A05
Sample ID	A04-10-6.5	A04-11-1.5	A04-11-3.5	A04-11-6.5	A04-12-1.5	A04-12-3.5	H-61-1.5	H-61-3.5	H-61-6.5	A05-04-1.5
Sample Date	9/7/99	9/8/99	9/8/99	9/8/99	10/8/99	10/8/99	10/13/99	10/13/99	10/13/99	9/2/99
Horizon										
Cycloate (mg/kg)	0.01 U	0.01 U	<b>0.13</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
EPTC (mg/kg)	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.41</b>	0.01 U	0.01 U	0.03 U	0.03 U	0.03 U	0.1 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
Metam sodium (mg/kg)	0.09 U	0.09 U	<b>22</b>	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Molinate (mg/kg)	0.01 U	0.01 U	<b>0.01</b>	<b>0.054</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
Napropamide (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
R29148 (mg/kg)	0.01 U	0.01 U	<b>0.022</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
Vernolate (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	2.9 U		3 U	2.9 U	2.9 U	3 U		7.4	2.9 U	
Arsenic (mg/kg)	3		4.1	2.9	27	24		17	9	
Barium (mg/kg)	55		140	100	65	52		220	86	
Beryllium (mg/kg)	0.44		0.23	0.17	0.2	0.099 U		0.096 U	0.098 U	
Cadmium (mg/kg)	0.24 U		0.49	0.4	1.2	0.4		0.35	0.24 U	
Chromium (mg/kg)	25		22	39	18	1.9		2	0.99	
Cobalt (mg/kg)	11		9.3	2.7	250	4.9		0.96 U	0.98 U	
Copper (mg/kg)	15		26	470	73	300		13	12	
Lead (mg/kg)	4.5		18	3.5	44	140		2000	35	
Mercury (mg/kg)	0.052		0.3	0.051	0.36	0.32		8.9	5.1	
Molybdenum (mg/kg)	0.96 U		2.7	0.98 U	1.1	3.5		1.3	1.9	
Nickel (mg/kg)	52		38	20	25	17		1.2	2.8	
Selenium (mg/kg)	0.24 U		0.25 U	0.24 U	0.24 U	0.25 U		11	1.8	
Silver (mg/kg)	0.48 U		0.5 U	0.49 U	22	3.8		2.2	0.55	
Thallium (mg/kg)	0.24 U		0.25 U	0.24 U	0.24 U	1.8		0.24 U	0.24 U	
Vanadium (mg/kg)	23		27	31	37	2.7		1.2	0.94	
Zinc (mg/kg)	22		52	56	55	30		49	9.5	
<b>2. pH</b>										
pH (SU)	4.9		8.3	3.9	4.9	8.3		7.6	8.3	
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,1,2,2-Tetrachloroethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,1,2-Trichloroethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,1-Dichloroethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,1-Dichloroethene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,1-Dichloropropene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2,3-Trichlorobenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2,3-Trichloropropane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2,4-Trichlorobenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2,4-Trimethylbenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2-Dibromo-3-Chloropropane (mg/k	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2-Dibromoethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2-Dichlorobenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2-Dichloroethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,2-Dichloropropane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,3,5-Trimethylbenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,3-Dichlorobenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,3-Dichloropropane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
1,4-Dichlorobenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
2,2-Dichloropropane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
2-Butanone (mg/kg)	0.01 U		0.0094 U	<b>0.012</b>	0.01 U	<b>0.017</b>		0.0098 U	0.0098 U	
2-Chlorotoluene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
2-Hexanone (mg/kg)	0.01 U		0.0094 U	0.01 U	0.01 U	0.01 U		0.0098 U	0.0098 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
4-Chlorotoluene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
4-Methyl-2-Pentanone (mg/kg)	0.01 U		0.0094 U	0.01 U	0.01 U	0.01 U		0.0098 U	0.0098 U	
Acetone (mg/kg)	0.02 U		0.019 U	<b>0.06</b>	0.021 U	<b>0.076</b>		0.02 U	0.02 U	
Benzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Bromobenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Bromochloromethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Bromodichloromethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Bromoform (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Bromomethane (mg/kg)	0.01 U		0.0094 U	0.01 U	0.01 U	0.01 U		0.0098 U	0.0098 U	
Carbon Disulfide (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	<b>0.0033 J</b>		<b>0.01</b>	<b>0.014</b>	
Carbon Tetrachloride (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Chlorobenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		<b>0.016</b>	<b>0.0038 J</b>	
Chloroethane (mg/kg)	0.01 U		0.0094 U	0.01 U	0.01 U	0.01 U		0.0098 U	0.0098 U	
Chloroform (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Chloromethane (mg/kg)	0.01 U		0.0094 U	0.01 U	0.01 U	0.01 U		0.0098 U	0.0098 U	
cis-1,2-Dichloroethene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
cis-1,3-Dichloropropene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Dibromochloromethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Dibromomethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Ethylbenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Freon 113 (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Freon 12 (mg/kg)	0.01 U		0.0094 U	0.01 U	0.01 U	0.01 U		0.0098 U	0.0098 U	
Hexachlorobutadiene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Isopropylbenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
m,p-Xylenes (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Methylene Chloride (mg/kg)	0.02 U		0.019 U	0.02 U	0.021 U	0.021 U		0.02 U	0.02 U	
MTBE (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
n-Butylbenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Naphthalene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		<b>0.0096</b>	0.0049 U	
o-Xylene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
para-Isopropyl Toluene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		<b>0.057</b>	<b>0.064</b>	
Propylbenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
sec-Butylbenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Styrene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
tert-Butylbenzene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Tetrachloroethene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Toluene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
trans-1,2-Dichloroethene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
trans-1,3-Dichloropropene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Trichloroethene (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Trichlorofluoromethane (mg/kg)	0.005 U		0.0047 U	0.005 U	0.0052 U	0.0052 U		0.0049 U	0.0049 U	
Vinyl Acetate (mg/kg)	0.05 U		0.047 U	0.05 U	0.052 U	0.052 U		0.049 U	0.049 U	
Vinyl Chloride (mg/kg)	0.01 U		0.0094 U	0.01 U	0.01 U	0.01 U		0.0098 U	0.0098 U	
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2,4,6-Trichlorophenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
2,4-Dichlorophenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2,4-Dimethylphenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2,4-Dinitrophenol (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
2,4-Dinitrotoluene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2,6-Dinitrotoluene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2-Chloronaphthalene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2-Chlorophenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2-Methylnaphthalene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2-Methylphenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
2-Nitroaniline (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
2-Nitrophenol (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
3,3'-Dichlorobenzidine (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
3-,4-Methylphenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
3-Nitroaniline (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
4-Bromophenyl-phenylether (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
4-Chloro-3-methylphenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
4-Chloroaniline (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
4-Chlorophenyl-phenylether (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
4-Nitroaniline (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
4-Nitrophenol (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
Acenaphthene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Acenaphthylene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Anthracene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Azobenzene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Benzo(a)anthracene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>11</b>	6.7 U	
Benzo(a)pyrene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>6 J</b>	6.7 U	
Benzo(b,k)fluoranthene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>22</b>	6.7 U	
Benzo(g,h,i)perylene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>5 J</b>	6.7 U	
Benzoic acid (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
Benzyl alcohol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
bis(2-Chloroethyl)ether (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Butylbenzylphthalate (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Chrysene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>20</b>	6.7 U	
Di-n-butylphthalate (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Di-n-octylphthalate (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Dibenz(a,h)anthracene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Dibenzofuran (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Diethylphthalate (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Dimethylphthalate (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Fluoranthene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>23</b>	6.7 U	
Fluorene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Hexachlorobenzene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
Hexachloroethane (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>5 J</b>	6.7 U	
Isophorone (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
N-Nitrosodimethylamine (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
N-Nitrosodiphenylamine (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Nitrobenzene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Pentachlorophenol (mg/kg)	1.7 U		67 U	1.7 U	1.7 U	1.7 U		33 U	33 U	
Phenanthrene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>14</b>	6.7 U	
Phenol (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		6.7 U	6.7 U	
Pyrene (mg/kg)	0.33 U		13 U	0.33 U	0.33 U	0.33 U		<b>26</b>	6.7 U	
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.006 U		0.06 U	0.006 U	<b>0.057</b>	0.006 U		0.3 U	0.006 U	
4,4'-DDE (mg/kg)	0.006 U		0.06 U	0.006 U	<b>0.0066</b>	0.006 U		<b>0.49</b>	0.006 U	
4,4'-DDT (mg/kg)	0.006 U		0.06 U	0.006 U	0.006 U	0.006 U		<b>0.62</b>	0.006 U	
Aldrin (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
alpha-BHC (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
Aroclor-1016 (mg/kg)	0.012 U		0.12 U	0.012 U	0.012 U	0.012 U		0.6 U	0.012 U	
Aroclor-1221 (mg/kg)	0.024 U		0.24 U	0.024 U	0.024 U	<b>0.072</b>		1.2 U	0.024 U	
Aroclor-1232 (mg/kg)	0.012 U		0.12 U	0.012 U	0.012 U	0.012 U		0.6 U	0.012 U	
Aroclor-1242 (mg/kg)	0.012 U		<b>0.17</b>	0.012 U	0.012 U	0.012 U		<b>13</b>	<b>0.12</b>	
Aroclor-1248 (mg/kg)	0.012 U		0.12 U	0.012 U	0.012 U	0.012 U		0.6 U	0.012 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Aroclor-1254 (mg/kg)	0.012 U		0.12 U	0.012 U	0.012 U	<b>0.019</b>		0.6 U	0.012 U	
Aroclor-1260 (mg/kg)	0.012 U		0.12 U	0.012 U	0.012 U	0.012 U		0.6 U	0.012 U	
beta-BHC (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
Chlordane (mg/kg)	0.03 U		0.3 U	0.03 U	0.03 U	0.03 U		1.5 U	0.03 U	
delta-BHC (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
Dieldrin (mg/kg)	0.006 U		0.06 U	0.006 U	0.006 U	0.006 U		0.3 U	0.006 U	
Endosulfan I (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
Endosulfan II (mg/kg)	0.006 U		0.06 U	0.006 U	0.006 U	0.006 U		0.3 U	0.006 U	
Endosulfan sulfate (mg/kg)	0.006 U		0.06 U	0.006 U	0.006 U	0.006 U		0.3 U	0.006 U	
Endrin (mg/kg)	0.006 U		0.06 U	0.006 U	0.006 U	0.006 U		0.3 U	<b>0.014</b>	
Endrin aldehyde (mg/kg)	0.006 U		0.06 U	0.006 U	0.006 U	0.006 U		<b>0.43</b>	0.006 U	
gamma-BHC (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
Heptachlor (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
Heptachlor epoxide A (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
Heptachlor epoxide B (mg/kg)	0.003 U		0.03 U	0.003 U	0.003 U	0.003 U		0.15 U	0.003 U	
Methoxychlor (mg/kg)	0.03 U		0.3 U	0.03 U	0.03 U	0.03 U		1.5 U	0.03 U	
Toxaphene (mg/kg)	0.06 U		0.6 U	0.06 U	0.06 U	0.06 U		3 U	0.06 U	
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)		0.064 U	0.06 U		0.6 U	0.064 U	0.064 U	0.064 U	0.064 U	0.6 U
Butylate (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.01</b>	0.01 U	0.1 U
captan (mg/kg)		0.05 U	0.05 U		0.5 U	0.05 U	0.05 U	<b>0.06</b>	0.05 U	0.5 U
Carbophenothion (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.01</b>	0.01 U	<b>0.1</b>
Cycloate (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		0.01 U	0.01 U	0.1 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A05	A05	A05	A05	A05
Sample ID	A05-04-3.5	A05-04-6.5	A05-05-1.5	A05-05-3.5	A05-06-1.5	A05-06-3.5	A05-06-6.5	A05-07-1.5	A05-07-3.5	A05-07-6.5
Sample Date	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
EPTC (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.02</b>	0.01 U	0.1 U
Flurochloridone (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.03</b>	<b>0.06</b>	<b>0.1</b>
Fonofos (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.02</b>	0.01 U	0.1 U
Metam sodium (mg/kg)		0.09 U				0.09 U	0.09 U	0.09 U	0.09 U	<b>0.22</b>
Molinate (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.01</b>	<b>0.02</b>	0.1 U
Napropamide (mg/kg)		0.01 U	<b>0.26</b>		0.1 U	0.01 U		<b>0.03</b>	0.01 U	0.1 U
Pebulate (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.03</b>	<b>0.02</b>	0.1 U
phosmet (mg/kg)		0.05 U	0.05 U		0.5 U	0.05 U	0.05 U	<b>0.37</b>	<b>0.16</b>	0.5 U
R25788 (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		0.01 U	0.01 U	0.1 U
R29148 (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.01</b>	<b>0.02</b>	0.1 U
Vernolate (mg/kg)		0.01 U	0.02 U		0.1 U	0.01 U		<b>0.03</b>	0.01 U	0.1 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	17	3 U	3 U	2.9 U		3 U	3 U		2.9 U	2.9 U
Arsenic (mg/kg)	17	52	28	43		140	2.5		0.62	5.5
Barium (mg/kg)	120	71	150	110		100	47		42	74
Beryllium (mg/kg)	0.18	0.1 U	0.1 U	0.15		0.19	0.49		0.097 U	0.11
Cadmium (mg/kg)	0.91	0.53	0.3	0.24 U		0.69	0.5		0.24 U	2.2
Chromium (mg/kg)	24	18	12	37		22	22		2.5	33
Cobalt (mg/kg)	6.2	1.2	2.2	2.2		4.9	8.8		0.97 U	3.4
Copper (mg/kg)	160	420	110	120		380	320		24	120
Lead (mg/kg)	160	140	400	130		4.2	4.3		16	27
Mercury (mg/kg)	7.5	0.12	0.97	0.51		0.038	0.048		0.14	0.18
Molybdenum (mg/kg)	1.3	1 U	1.6	0.96 U		1.1	0.99 U		0.97 U	1.3
Nickel (mg/kg)	37	29	7.8	27		26	27		3	25
Selenium (mg/kg)	0.25 U	0.33	0.83	0.9		0.25 U	0.25 U		0.24 U	0.24 U
Silver (mg/kg)	0.52	0.5 U	1.2	0.73		0.5 U	0.49 U		0.48 U	0.48 U
Thallium (mg/kg)	0.25 U	0.56	1.2	0.68		0.25 U	0.25 U		0.24 U	0.24 U
Vanadium (mg/kg)	25	33	19	39		22	18		1.3	33
Zinc (mg/kg)	110	50	97	100		85	100		9.6	120
<b>2. pH</b>										
pH (SU)	7.5	3.9	9.3	7.6		3.8	4		2.8	10
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,1,2-Trichloroethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,1-Dichloroethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,1-Dichloroethene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,1-Dichloropropene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2,3-Trichlorobenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2,3-Trichloropropane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2,4-Trichlorobenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2,4-Trimethylbenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2-Dibromo-3-Chloropropane (mg/k)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2-Dibromoethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2-Dichlorobenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2-Dichloroethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,2-Dichloropropane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,3,5-Trimethylbenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,3-Dichlorobenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,3-Dichloropropane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
1,4-Dichlorobenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
2,2-Dichloropropane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
2-Butanone (mg/kg)	0.0098 U	0.01 U	0.01 U	0.0093 U		0.01 U	<b>0.028</b>		0.01 U	0.0098 U
2-Chlorotoluene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
2-Hexanone (mg/kg)	0.0098 U	0.01 U	0.01 U	0.0093 U		0.01 U	0.01 U		0.01 U	0.0098 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
4-Chlorotoluene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
4-Methyl-2-Pentanone (mg/kg)	0.0098 U	0.01 U	0.01 U	0.0093 U		0.01 U	0.01 U		0.01 U	0.0098 U
Acetone (mg/kg)	0.02 U	0.02 U	0.02 U	0.019 U		0.021 U	<b>0.086</b>		<b>0.032</b>	<b>0.06</b>
Benzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Bromobenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Bromochloromethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Bromodichloromethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Bromoform (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Bromomethane (mg/kg)	0.0098 U	0.01 U	0.01 U	0.0093 U		0.01 U	0.01 U		0.01 U	0.0098 U
Carbon Disulfide (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Carbon Tetrachloride (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Chlorobenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Chloroethane (mg/kg)	0.0098 U	0.01 U	0.01 U	0.0093 U		0.01 U	0.01 U		0.01 U	0.0098 U
Chloroform (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Chloromethane (mg/kg)	0.0098 U	0.01 U	0.01 U	0.0093 U		0.01 U	0.01 U		0.01 U	0.0098 U
cis-1,2-Dichloroethene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
cis-1,3-Dichloropropene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Dibromochloromethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Dibromomethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Ethylbenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Freon 113 (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Freon 12 (mg/kg)	0.0098 U	0.01 U	0.01 U	0.0093 U		0.01 U	0.01 U		0.01 U	0.0098 U
Hexachlorobutadiene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Isopropylbenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
m,p-Xylenes (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Methylene Chloride (mg/kg)	0.02 U	0.02 U	0.02 U	0.019 U		0.021 U	0.021 U		0.02 U	0.02 U
MTBE (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
n-Butylbenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Naphthalene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
o-Xylene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
para-Isopropyl Toluene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Propylbenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
sec-Butylbenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Styrene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
tert-Butylbenzene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Tetrachloroethene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Toluene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
trans-1,2-Dichloroethene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
trans-1,3-Dichloropropene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Trichloroethene (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Trichlorofluoromethane (mg/kg)	0.0049 U	0.005 U	0.005 U	0.0046 U		0.0052 U	0.0052 U		0.0051 U	0.0049 U
Vinyl Acetate (mg/kg)	0.049 U	0.05 U	0.05 U	0.046 U		0.052 U	0.052 U		0.051 U	0.049 U
Vinyl Chloride (mg/kg)	0.0098 U	0.01 U	0.01 U	0.0093 U		0.01 U	0.01 U		0.01 U	0.0098 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2,4,6-Trichlorophenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
2,4-Dichlorophenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2,4-Dimethylphenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2,4-Dinitrophenol (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
2,4-Dinitrotoluene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2,6-Dinitrotoluene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2-Chloronaphthalene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2-Chlorophenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2-Methylnaphthalene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2-Methylphenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
2-Nitroaniline (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
2-Nitrophenol (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
3,3'-Dichlorobenzidine (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
3-,4-Methylphenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
3-Nitroaniline (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
4,6-Dinitro-2-methylphenol (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
4-Bromophenyl-phenylether (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
4-Chloro-3-methylphenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
4-Chloroaniline (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
4-Chlorophenyl-phenylether (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
4-Nitroaniline (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
4-Nitrophenol (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
Acenaphthene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Acenaphthylene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Anthracene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Azobenzene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Benzo(a)anthracene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Benzo(a)pyrene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Benzo(b,k)fluoranthene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Benzo(g,h,i)perylene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Benzoic acid (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
Benzyl alcohol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
bis(2-Chloroethoxy)methane (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
bis(2-Chloroethyl)ether (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
bis(2-Chloroisopropyl) ether (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
bis(2-Ethylhexyl)phthalate (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Butylbenzylphthalate (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Chrysene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Di-n-butylphthalate (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Di-n-octylphthalate (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Dibenz(a,h)anthracene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Dibenzofuran (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Diethylphthalate (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Dimethylphthalate (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Fluoranthene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Fluorene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Hexachlorobenzene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
Hexachloroethane (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Indeno(1,2,3-cd)pyrene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Isophorone (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
N-Nitroso-di-n-propylamine (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
N-Nitrosodimethylamine (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
N-Nitrosodiphenylamine (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Nitrobenzene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Pentachlorophenol (mg/kg)	33 U	1.7 U	17 U			1.7 U	1.7 U		33 U	33 U
Phenanthrene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Phenol (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
Pyrene (mg/kg)	6.7 U	0.33 U	3.3 U			0.33 U	0.33 U		6.7 U	6.7 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.06 U	0.006 U	<b>0.055</b>			0.006 U	0.006 U		0.06 U	0.06 U
4,4'-DDE (mg/kg)	0.06 U	0.006 U	0.025 U			0.006 U	0.006 U		0.06 U	0.06 U
4,4'-DDT (mg/kg)	0.06 U	0.006 U	<b>0.043</b>			0.006 U	0.006 U		0.06 U	0.06 U
Aldrin (mg/kg)	0.03 U	0.003 U	0.025 U			0.003 U	0.003 U		0.03 U	0.03 U
alpha-BHC (mg/kg)	0.03 U	0.003 U	0.025 U			0.003 U	0.003 U		0.03 U	0.03 U
Aroclor-1016 (mg/kg)	0.12 U	0.012 U	0.25 U			0.012 U	0.012 U		0.12 U	0.12 U
Aroclor-1221 (mg/kg)	0.24 U	0.024 U	0.25 U			0.024 U	0.024 U		0.24 U	0.24 U
Aroclor-1232 (mg/kg)	0.12 U	0.012 U	0.25 U			0.012 U	0.012 U		0.12 U	0.12 U
Aroclor-1242 (mg/kg)	<b>2.1</b>	0.012 U	0.25 U			0.012 U	0.012 U		0.12 U	0.12 U
Aroclor-1248 (mg/kg)	0.12 U	0.012 U	0.25 U			0.012 U	0.012 U		0.12 U	0.12 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Aroclor-1254 (mg/kg)	<b>1.2</b>	0.012 U	0.25 U			0.012 U	0.012 U		0.12 U	0.12 U
Aroclor-1260 (mg/kg)	0.12 U	0.012 U	0.25 U			0.012 U	0.012 U		0.12 U	0.12 U
Aroclor-1262 (mg/kg)			0.25 U							
beta-BHC (mg/kg)	0.03 U	0.003 U	0.025 U			0.003 U	0.003 U		0.03 U	0.03 U
Chlordane (mg/kg)	0.3 U	0.03 U	0.25 U			0.03 U	0.03 U		0.3 U	0.3 U
delta-BHC (mg/kg)	0.03 U	0.003 U	0.025 U			0.003 U	0.003 U		0.03 U	0.03 U
Dieldrin (mg/kg)	0.06 U	0.006 U	0.025 U			0.006 U	0.006 U		0.06 U	0.06 U
Endosulfan I (mg/kg)	0.03 U	0.003 U	0.025 U			0.003 U	0.003 U		0.03 U	0.03 U
Endosulfan II (mg/kg)	0.06 U	0.006 U	0.025 U			0.006 U	0.006 U		0.06 U	0.06 U
Endosulfan sulfate (mg/kg)	0.06 U	0.006 U	0.025 U			0.006 U	0.006 U		0.06 U	0.06 U
Endrin (mg/kg)	0.06 U	0.006 U	0.025 U			0.006 U	0.006 U		0.06 U	0.06 U
Endrin aldehyde (mg/kg)	0.06 U	0.006 U	0.025 U			0.006 U	0.006 U		0.06 U	0.06 U
gamma-BHC (mg/kg)	0.03 U	0.003 U	0.025 U			0.003 U	0.003 U		0.03 U	0.03 U
Heptachlor (mg/kg)	0.03 U	0.003 U	0.025 U			0.003 U	0.003 U		0.03 U	0.03 U
Heptachlor Epoxide (mg/kg)			0.025 U							
Heptachlor epoxide A (mg/kg)	0.03 U	0.003 U				0.003 U	0.003 U		0.03 U	0.03 U
Heptachlor epoxide B (mg/kg)	0.03 U	0.003 U				0.003 U	0.003 U		0.03 U	0.03 U
Methoxychlor (mg/kg)	0.3 U	0.03 U	0.025 U			0.03 U	0.03 U		0.3 U	0.3 U
Toxaphene (mg/kg)	0.6 U	0.06 U	0.25 U			0.06 U	0.06 U		0.6 U	0.6 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.6 U	0.064 U	0.064 U	0.6 U	0.064 U	0.6 U	0.06 U	0.06 U		0.06 U
Butylate (mg/kg)	<b>0.1</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.5 U	0.05 U	0.25 U	0.5 U	0.25 U	0.5 U	0.05 U	0.05 U		0.05 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A05	A05	A05	A05	A06	A06	A06	A06	A06
Sample ID	A05-08-1.5	A05-08-3.5	H-62-1.5	H-62-3.5	H-62-6.5	A06-07-1.5	A06-07-3.5	A06-07-6.5	A06-08-1.5	A06-09-1.5
Sample Date	9/2/99	9/2/99	10/13/99	10/13/99	10/13/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99
Horizon										
Carbophenothion (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cycloate (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
EPTC (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	0.1 U	0.01 U	0.05 U	<b>0.29</b>	0.05 U	<b>0.02</b>	0.01 U	0.01 U	<b>0.02</b>	0.01 U
Fonofos (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	<b>0.1</b>	0.09 U	0.09 U	0.09 U	0.09 U	<b>0.24</b>	
Molinate (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Pebulate (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.5 U	0.05 U	0.05 U	0.5 U	0.05 U	0.5 U	0.05 U	0.05 U		0.05 U
R25788 (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	2.9 U	2.9 U	3 U	2.9 U		2.9 U	3 U		4.1	5.9
Arsenic (mg/kg)	57	35	2	4.6		2.4	12		34	14
Barium (mg/kg)	84	110	150	170		67	130		190	160
Beryllium (mg/kg)	0.098 U	0.11	0.61	0.25		0.14	0.11		0.32	0.2
Cadmium (mg/kg)	0.42	0.94	0.42	0.53		0.5	0.78		3	2.6
Chromium (mg/kg)	1.4	31	11	22		30	19		37	33
Cobalt (mg/kg)	1.6	4.2	7	6.8		5.9	5.2		18	10
Copper (mg/kg)	280	150	10	150		20	49		270	110
Lead (mg/kg)	14	20	17	30		11	20		800	380
Mercury (mg/kg)	0.04 U	0.14	0.12	0.82		0.22	7.5		1.5	3.2
Molybdenum (mg/kg)	7.9	5.7	1 U	0.98 U		0.98 U	1.6		1.7	1.4
Nickel (mg/kg)	23	32	28	21		55	21		63	39
Selenium (mg/kg)	0.87	0.24 U	0.25 U	0.24 U		0.24 U	4.4		0.24 U	0.25 U
Silver (mg/kg)	2	0.69	0.5 U	0.49 U		0.49 U	1.2		0.48 U	0.5 U
Thallium (mg/kg)	1.5	0.55	0.25 U	0.24 U		0.24 U	0.25 U		0.24 U	0.25 U
Vanadium (mg/kg)	6	24	18	22		31	25		33	50
Zinc (mg/kg)	21	70	35	110		34	30		830	350
<b>2. pH</b>										
pH (SU)	4.2	5.9	7.5	8.5		7.6	9.7		5.2	6.8
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,1,2-Trichloroethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,1-Dichloroethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,1-Dichloroethene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,1-Dichloropropene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,2,3-Trichlorobenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,2,3-Trichloropropane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,2,4-Trichlorobenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,2,4-Trimethylbenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,2-Dibromo-3-Chloropropane (mg/k)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,2-Dibromoethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,2-Dichlorobenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		<b>0.0025 J</b>	0.0047 U		0.0051 U	0.0046 U
1,2-Dichloroethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,2-Dichloropropane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,3,5-Trimethylbenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,3-Dichlorobenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,3-Dichloropropane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
1,4-Dichlorobenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
2,2-Dichloropropane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
2-Butanone (mg/kg)	0.0094 U	0.01 U	0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U
2-Chloroethylvinylether (mg/kg)			0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U
2-Chlorotoluene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
2-Hexanone (mg/kg)	0.0094 U	0.01 U	0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U
4-Chlorotoluene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
4-Methyl-2-Pentanone (mg/kg)	0.0094 U	0.01 U	0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U
Acetone (mg/kg)	0.019 U	0.02 U	0.019 U	<b>0.024</b>		0.02 U	<b>0.021</b>		0.02 U	<b>0.027</b>
Benzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Bromobenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Bromochloromethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Bromodichloromethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Bromoform (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Bromomethane (mg/kg)	0.0094 U	0.01 U	0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U
Carbon Disulfide (mg/kg)	0.0047 U	<b>0.003 J</b>	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Carbon Tetrachloride (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Chlorobenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Chloroethane (mg/kg)	0.0094 U	0.01 U	0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U
Chloroform (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Chloromethane (mg/kg)	0.0094 U	0.01 U	0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U
cis-1,2-Dichloroethene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
cis-1,3-Dichloropropene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Dibromochloromethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Dibromomethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Ethylbenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		<b>0.0075</b>	<b>0.0063</b>
Freon 113 (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Freon 12 (mg/kg)	0.0094 U	0.01 U	0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Hexachlorobutadiene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Isopropylbenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
m,p-Xylenes (mg/kg)	<b>0.0043 J</b>	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		<b>0.028</b>	<b>0.024</b>
Methylene Chloride (mg/kg)	0.019 U	0.02 U	0.019 U	0.019 U		0.02 U	0.019 U		0.02 U	0.019 U
MTBE (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
n-Butylbenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Naphthalene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
o-Xylene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		<b>0.0096</b>	<b>0.0082</b>
para-Isopropyl Toluene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Propylbenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
sec-Butylbenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Styrene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
tert-Butylbenzene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Tetrachloroethene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		<b>0.016</b>	<b>0.071</b>
Toluene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		<b>0.018</b>	<b>0.016</b>
trans-1,2-Dichloroethene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
trans-1,3-Dichloropropene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Trichloroethene (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Trichlorofluoromethane (mg/kg)	0.0047 U	0.005 U	0.0047 U	0.0047 U		0.0049 U	0.0047 U		0.0051 U	0.0046 U
Vinyl Acetate (mg/kg)	0.047 U	0.05 U	0.047 U	0.047 U		0.049 U	0.047 U		0.051 U	0.046 U
Vinyl Chloride (mg/kg)	0.0094 U	0.01 U	0.0094 U	0.0094 U		0.0098 U	0.0094 U		0.01 U	0.0093 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
2,4,6-Trichlorophenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2,4-Dichlorophenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2,4-Dimethylphenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2,4-Dinitrophenol (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
2,4-Dinitrotoluene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2,6-Dinitrotoluene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2-Chloronaphthalene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2-Chlorophenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2-Methylnaphthalene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2-Methylphenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
2-Nitroaniline (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
2-Nitrophenol (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
3,3'-Dichlorobenzidine (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
3-,4-Methylphenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
3-Nitroaniline (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
4,6-Dinitro-2-methylphenol (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
4-Bromophenyl-phenylether (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
4-Chloro-3-methylphenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
4-Chloroaniline (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
4-Chlorophenyl-phenylether (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
4-Nitroaniline (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
4-Nitrophenol (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
Acenaphthene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Acenaphthylene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Anthracene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Azobenzene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Benzo(a)anthracene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		<b>0.84 J</b>	10 U
Benzo(a)pyrene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		<b>0.91 J</b>	10 U
Benzo(b,k)fluoranthene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		<b>1.6 J</b>	10 U
Benzo(g,h,i)perylene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Benzoic acid (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
Benzyl alcohol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
bis(2-Chloroethoxy)methane (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
bis(2-Chloroethyl)ether (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
bis(2-Chloroisopropyl) ether (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
bis(2-Ethylhexyl)phthalate (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Butylbenzylphthalate (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Chrysene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		<b>1.3 J</b>	10 U
Di-n-butylphthalate (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Di-n-octylphthalate (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Dibenz(a,h)anthracene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Dibenzofuran (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Diethylphthalate (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Dimethylphthalate (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Fluoranthene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		<b>1.8</b>	10 U
Fluorene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Hexachlorobenzene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Hexachlorocyclopentadiene (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
Hexachloroethane (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Indeno(1,2,3-cd)pyrene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Isophorone (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
N-Nitroso-di-n-propylamine (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
N-Nitrosodimethylamine (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
N-Nitrosodiphenylamine (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Nitrobenzene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Pentachlorophenol (mg/kg)	33 U	33 U	1.7 U	1.7 U		83 U	1.7 U		8.3 U	50 U
Phenanthrene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		<b>1.8</b>	10 U
Phenol (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		1.7 U	10 U
Pyrene (mg/kg)	6.7 U	6.7 U	0.33 U	0.33 U		17 U	0.33 U		<b>2.8</b>	<b>5.1 J</b>
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.006 U	0.006 U	0.006 U	<b>0.028</b>		<b>0.61</b>	0.06 U		<b>3.3</b>	<b>2</b>
4,4'-DDE (mg/kg)	0.006 U	0.006 U	<b>0.0094</b>	<b>0.0078</b>		<b>0.13</b>	<b>0.035 J</b>		<b>1.2</b>	<b>1 J</b>
4,4'-DDT (mg/kg)	0.006 U	0.006 U	<b>0.011</b>	<b>0.0079</b>		<b>0.11</b>	0.06 U		<b>19</b>	<b>9.7</b>
Aldrin (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		0.03 U	0.03 U		0.6 U	0.6 U
alpha-BHC (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		0.03 U	0.03 U		0.6 U	0.6 U
Aroclor-1016 (mg/kg)	0.012 U	0.012 U	0.012 U	0.012 U		0.12 U	0.12 U		2.4 U	2.4 U
Aroclor-1221 (mg/kg)	0.024 U	0.024 U	0.024 U	0.024 U		0.24 U	0.24 U		4.8 U	4.8 U
Aroclor-1232 (mg/kg)	0.012 U	0.012 U	0.012 U	0.012 U		0.12 U	0.12 U		2.4 U	2.4 U
Aroclor-1242 (mg/kg)	0.012 U	0.012 U	0.012 U	0.012 U		0.12 U	0.12 U		2.4 U	2.4 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Aroclor-1248 (mg/kg)	0.012 U	0.012 U	0.012 U	0.012 U		0.12 U	0.12 U		2.4 U	2.4 U
Aroclor-1254 (mg/kg)	0.012 U	0.012 U	0.012 U	0.012 U		0.12 U	0.12 U		2.4 U	2.4 U
Aroclor-1260 (mg/kg)	0.012 U	0.012 U	0.012 U	0.012 U		0.12 U	0.12 U		2.4 U	2.4 U
beta-BHC (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		0.03 U	0.03 U		0.6 U	0.6 U
Chlordane (mg/kg)	0.03 U	0.03 U	0.03 U	0.03 U		0.3 U	0.3 U		6 U	6 U
delta-BHC (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		0.03 U	0.03 U		0.6 U	0.6 U
Dieldrin (mg/kg)	0.006 U	0.006 U	0.006 U	0.006 U		<b>0.058 J</b>	0.06 U		1.2 U	1.2 U
Endosulfan I (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		<b>0.046</b>	0.03 U		0.6 U	0.6 U
Endosulfan II (mg/kg)	0.006 U	0.006 U	0.006 U	0.006 U		<b>0.044 J</b>	0.06 U		1.2 U	1.2 U
Endosulfan sulfate (mg/kg)	0.006 U	0.006 U	0.006 U	0.006 U		0.06 U	0.06 U		1.2 U	1.2 U
Endrin (mg/kg)	0.006 U	0.006 U	0.006 U	0.006 U		0.06 U	0.06 U		1.2 U	1.2 U
Endrin aldehyde (mg/kg)	0.006 U	0.006 U	0.006 U	0.006 U		<b>0.047 J</b>	0.06 U		1.2 U	1.2 U
gamma-BHC (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		0.03 U	0.03 U		0.6 U	0.6 U
Heptachlor (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		0.03 U	0.03 U		0.6 U	0.6 U
Heptachlor epoxide A (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		0.03 U	0.03 U		0.6 U	0.6 U
Heptachlor epoxide B (mg/kg)	0.003 U	0.003 U	0.003 U	0.003 U		0.03 U	0.03 U		0.6 U	0.6 U
Methoxychlor (mg/kg)	0.03 U	0.03 U	0.03 U	0.03 U		0.3 U	0.3 U		6 U	6 U
Toxaphene (mg/kg)	0.06 U	0.06 U	0.06 U	0.06 U		0.6 U	0.6 U		12 U	12 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.6 U	0.1 U	0.064 U	0.064 U	0.064 U	0.064 U	0.1 U	0.064 U	0.12 U	0.064 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>
captan (mg/kg)	0.5 U	0.25 U	0.05 U	0.25 U	0.05 U	0.05 U	0.1 U	0.05 U	0.5 U	<b>0.23</b>
Carbophenothion (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-10-1.5	A06-10-3.5	A06-11-1.5	A06-11-3.5	A06-11-6.5	A06-12-1.5	A06-12-3.5	A06-12-6.5	A06-13-1.5	A06-13-3.5
Sample Date	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99	9/3/99
Horizon										
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.01 U
EPTC (mg/kg)	0.01 U	<b>0.2</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.03</b>	0.01 U	0.01 U	<b>0.135</b>	0.01 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U		0.09 U
Molinate (mg/kg)	0.01 U	<b>0.02</b>	0.01 U	0.01 U	0.01 U	<b>2.36</b>	<b>0.04</b>	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.01 U	<b>0.01</b>	0.01 U	<b>4.1</b>		0.01 U	0.01 U	0.01 U	<b>0.02</b>	0.1 U
Pebulate (mg/kg)	0.01 U	<b>0.55</b>	0.01 U	0.01 U	0.01 U	<b>0.03</b>	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.05 U	0.1 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	<b>0.07</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)		2.9 U	2.9 U		3.4	2.9 U		3 U	2.9 U	
Arsenic (mg/kg)		3.3	2.1		99	31		10	1.9	
Barium (mg/kg)		74	100		200	170		140	150	
Beryllium (mg/kg)		0.097 U	0.27		0.1 U	0.1		0.19	0.54	
Cadmium (mg/kg)		0.46	0.93		0.54	1.1		3	1.4	
Chromium (mg/kg)		11	23		0.99	19		23	22	
Cobalt (mg/kg)		2.7	4		1 U	1.7		6.5	4.8	
Copper (mg/kg)		15	1700		230	580		410	160	
Lead (mg/kg)		17	3.8		96	21		130	5.5	
Mercury (mg/kg)		0.082	0.038		2.4	0.65		4.4	0.04 U	
Molybdenum (mg/kg)		0.97 U	0.98 U		7.3	1.5		1 U	0.97 U	
Nickel (mg/kg)		17	18		27	20		25	19	
Selenium (mg/kg)		0.24 U	0.25 U		4.6	1.1		0.25 U	0.24 U	
Silver (mg/kg)		0.48 U	0.49 U		4.9	0.81		0.5 U	0.48 U	
Thallium (mg/kg)		0.24 U	0.25 U		2.9	0.55		0.25 U	0.24 U	
Vanadium (mg/kg)		21	20		4.6	25		26	17	
Zinc (mg/kg)		14	360		84	160		500	1200	
<b>2. pH</b>										
pH (SU)		4.4	4.3		3.8	4.1		7.6	4.7	
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
1,1,1-Trichloroethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,1,2,2-Tetrachloroethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,1,2-Trichloroethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,1-Dichloroethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,1-Dichloroethene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,1-Dichloropropene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2,3-Trichlorobenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2,3-Trichloropropane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2,4-Trichlorobenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2,4-Trimethylbenzene (mg/kg)		<b>0.0073</b>	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2-Dibromo-3-Chloropropane (mg/k		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2-Dibromoethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2-Dichlorobenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2-Dichloroethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,2-Dichloropropane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,3,5-Trimethylbenzene (mg/kg)		<b>0.0025 J</b>	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,3-Dichlorobenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,3-Dichloropropane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
1,4-Dichlorobenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
2,2-Dichloropropane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
2-Butanone (mg/kg)		0.0098 U	<b>0.015</b>		0.0093 U	0.0096 U		0.0098 U	<b>0.012</b>	
2-Chloroethylvinylether (mg/kg)								0.0098 U	0.0096 U	
2-Chlorotoluene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
2-Hexanone (mg/kg)		0.0098 U	0.0098 U		0.0093 U	0.0096 U		0.0098 U	0.0096 U	
4-Chlorotoluene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
4-Methyl-2-Pentanone (mg/kg)		0.0098 U	0.0098 U		0.0093 U	0.0096 U		0.0098 U	0.0096 U	
Acetone (mg/kg)		0.02 U	<b>0.063</b>		0.019 U	0.019 U		0.02 U	<b>0.061</b>	
Benzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Bromobenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Bromochloromethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Bromodichloromethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Bromoform (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Bromomethane (mg/kg)		0.0098 U	0.0098 U		0.0093 U	0.0096 U		0.0098 U	0.0096 U	
Carbon Disulfide (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Carbon Tetrachloride (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Chlorobenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Chloroethane (mg/kg)		0.0098 U	0.0098 U		0.0093 U	0.0096 U		0.0098 U	0.0096 U	
Chloroform (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Chloromethane (mg/kg)		0.0098 U	0.0098 U		0.0093 U	0.0096 U		0.0098 U	0.0096 U	
cis-1,2-Dichloroethene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
cis-1,3-Dichloropropene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Dibromochloromethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Dibromomethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Ethylbenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Freon 113 (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Freon 12 (mg/kg)		0.0098 U	0.0098 U		0.0093 U	0.0096 U		0.0098 U	0.0096 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
Hexachlorobutadiene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Isopropylbenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
m,p-Xylenes (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		<b>0.0044 J</b>	0.0048 U	
Methylene Chloride (mg/kg)		0.02 U	0.02 U		0.019 U	0.019 U		0.02 U	0.019 U	
MTBE (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
n-Butylbenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Naphthalene (mg/kg)		<b>0.028</b>	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
o-Xylene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
para-Isopropyl Toluene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Propylbenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
sec-Butylbenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Styrene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
tert-Butylbenzene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Tetrachloroethene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Toluene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
trans-1,2-Dichloroethene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
trans-1,3-Dichloropropene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Trichloroethene (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Trichlorofluoromethane (mg/kg)		0.0049 U	0.0049 U		0.0046 U	0.0048 U		0.0049 U	0.0048 U	
Vinyl Acetate (mg/kg)		0.049 U	0.049 U		0.046 U	0.048 U		0.049 U	0.048 U	
Vinyl Chloride (mg/kg)		0.0098 U	0.0098 U		0.0093 U	0.0096 U		0.0098 U	0.0096 U	
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
2,4,6-Trichlorophenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2,4-Dichlorophenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2,4-Dimethylphenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2,4-Dinitrophenol (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
2,4-Dinitrotoluene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2,6-Dinitrotoluene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2-Chloronaphthalene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2-Chlorophenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2-Methylnaphthalene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2-Methylphenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
2-Nitroaniline (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
2-Nitrophenol (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
3,3'-Dichlorobenzidine (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
3-,4-Methylphenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
3-Nitroaniline (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
4,6-Dinitro-2-methylphenol (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
4-Bromophenyl-phenylether (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
4-Chloro-3-methylphenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
4-Chloroaniline (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
4-Chlorophenyl-phenylether (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
4-Nitroaniline (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
4-Nitrophenol (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
Acenaphthene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
Acenaphthylene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Anthracene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Azobenzene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Benzo(a)anthracene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Benzo(a)pyrene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Benzo(b,k)fluoranthene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Benzo(g,h,i)perylene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Benzoic acid (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
Benzyl alcohol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
bis(2-Chloroethoxy)methane (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
bis(2-Chloroethyl)ether (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
bis(2-Chloroisopropyl) ether (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
bis(2-Ethylhexyl)phthalate (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Butylbenzylphthalate (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Chrysene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Di-n-butylphthalate (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Di-n-octylphthalate (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Dibenz(a,h)anthracene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Dibenzofuran (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Diethylphthalate (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Dimethylphthalate (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Fluoranthene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Fluorene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
Hexachlorobenzene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Hexachlorocyclopentadiene (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
Hexachloroethane (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Indeno(1,2,3-cd)pyrene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Isophorone (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
N-Nitroso-di-n-propylamine (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
N-Nitrosodimethylamine (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
N-Nitrosodiphenylamine (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Nitrobenzene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Pentachlorophenol (mg/kg)		33 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	
Phenanthrene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Phenol (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	
Pyrene (mg/kg)		6.7 U	0.33 U		0.33 U	0.33 U		<b>0.19 J</b>	0.33 U	
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)		0.06 U	0.006 U		0.006 U	0.006 U		0.006 U	0.006 U	
4,4'-DDE (mg/kg)		0.06 U	0.006 U		0.006 U	0.006 U		<b>0.0039 J</b>	0.006 U	
4,4'-DDT (mg/kg)		0.06 U	0.006 U		0.006 U	0.006 U		<b>0.023</b>	0.006 U	
Aldrin (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
alpha-BHC (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
Aroclor-1016 (mg/kg)		0.12 U	0.012 U		0.012 U	0.012 U		0.012 U	0.012 U	
Aroclor-1221 (mg/kg)		0.24 U	0.024 U		0.024 U	0.024 U		0.024 U	0.024 U	
Aroclor-1232 (mg/kg)		0.12 U	0.012 U		0.012 U	0.012 U		0.012 U	0.012 U	
Aroclor-1242 (mg/kg)		0.12 U	0.012 U		0.012 U	0.012 U		0.012 U	0.012 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
Aroclor-1248 (mg/kg)		0.12 U	0.012 U		0.012 U	0.012 U		0.012 U	0.012 U	
Aroclor-1254 (mg/kg)		0.12 U	0.012 U		0.012 U	0.012 U		0.012 U	0.012 U	
Aroclor-1260 (mg/kg)		0.12 U	0.012 U		0.012 U	0.012 U		0.012 U	0.012 U	
beta-BHC (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
Chlordane (mg/kg)		0.3 U	0.03 U		0.03 U	0.03 U		0.03 U	0.03 U	
delta-BHC (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
Dieldrin (mg/kg)		0.06 U	0.006 U		0.006 U	0.006 U		0.006 U	0.006 U	
Endosulfan I (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
Endosulfan II (mg/kg)		0.06 U	0.006 U		0.006 U	0.006 U		0.006 U	0.006 U	
Endosulfan sulfate (mg/kg)		0.06 U	0.006 U		0.006 U	0.006 U		0.006 U	0.006 U	
Endrin (mg/kg)		0.06 U	0.006 U		0.006 U	0.006 U		<b>0.0032 J</b>	0.006 U	
Endrin aldehyde (mg/kg)		0.06 U	0.006 U		0.006 U	0.006 U		0.006 U	0.006 U	
gamma-BHC (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
Heptachlor (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
Heptachlor epoxide A (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
Heptachlor epoxide B (mg/kg)		0.03 U	0.003 U		0.003 U	0.003 U		0.003 U	0.003 U	
Methoxychlor (mg/kg)		0.3 U	0.03 U		0.03 U	0.03 U		0.03 U	0.03 U	
Toxaphene (mg/kg)		0.6 U	0.06 U		0.06 U	0.06 U		0.06 U	0.06 U	
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.25 U	0.05 U	0.05 U	0.13 U	0.05 U	0.13 U	<b>0.14</b>	0.25 U	0.25 U	
Carbophenothion (mg/kg)	<b>0.02</b>	0.01 U	0.01 U	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	0.01 U	0.01 U	0.01 U	0.01 U



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-13-6.5	A06-14-1.5	A06-14-3.5	A06-14-6.5	A06-15-1.5	A06-15-3.5	A06-15-6.5	A06-16-1.5	A06-16-3.5	A06-16-6.5
Sample Date	9/3/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/2/99	9/3/99	9/3/99	9/3/99
Horizon										
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
EPTC (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	<b>0.04</b>	0.01 U	0.01 U	<b>0.07</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Molinate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.01 U	0.01 U	0.01 U	<b>0.03</b>	0.01 U	0.01 U	0.01 U	0.01 U		0.01 U
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	2.9 U	3 U		<b>3.8</b>		2.9 U	2.9 U		2.9 U	2.9 U
Arsenic (mg/kg)	<b>100</b>	<b>2.6</b>		<b>47</b>		<b>4.6</b>	<b>7.1</b>		<b>18</b>	<b>3.2</b>
Barium (mg/kg)	<b>79</b>	<b>68</b>		<b>120</b>		<b>140</b>	<b>150</b>		<b>89</b>	<b>150</b>
Beryllium (mg/kg)	<b>0.22</b>	<b>0.19</b>		<b>0.27</b>		<b>0.22</b>	<b>0.3</b>		<b>0.16</b>	<b>0.23</b>
Cadmium (mg/kg)	<b>6.7</b>	<b>1.2</b>		<b>2.9</b>		0.24 U	<b>0.61</b>		<b>0.42</b>	<b>0.37</b>
Chromium (mg/kg)	<b>49</b>	<b>22</b>		<b>23</b>		<b>27</b>	<b>27</b>		<b>26</b>	<b>39</b>
Cobalt (mg/kg)	<b>4.5</b>	<b>7.2</b>		<b>4.4</b>		<b>7.3</b>	<b>40</b>		<b>5.1</b>	<b>5</b>
Copper (mg/kg)	<b>360</b>	<b>88</b>		<b>620</b>		<b>280</b>	<b>380</b>		<b>150</b>	<b>500</b>
Lead (mg/kg)	<b>7.2</b>	<b>3.8</b>		<b>320</b>		<b>23</b>	<b>40</b>		<b>45</b>	<b>5</b>
Mercury (mg/kg)	<b>0.35</b>	<b>0.11</b>		<b>9.8</b>		<b>0.2</b>	<b>0.049</b>		<b>2</b>	0.039 U
Molybdenum (mg/kg)	0.97 U	1 U		<b>3.7</b>		0.96 U	0.98 U		<b>1</b>	0.98 U
Nickel (mg/kg)	<b>57</b>	<b>30</b>		<b>38</b>		<b>29</b>	<b>30</b>		<b>19</b>	<b>18</b>
Selenium (mg/kg)	0.24 U	0.25 U		<b>8.6</b>		0.24 U	0.25 U		0.24 U	0.25 U
Silver (mg/kg)	0.49 U	0.5 U		<b>2.9</b>		0.48 U	0.49 U		0.49 U	0.49 U
Thallium (mg/kg)	0.24 U	0.25 U		<b>1</b>		0.24 U	0.25 U		<b>0.28</b>	0.25 U
Vanadium (mg/kg)	<b>21</b>	<b>23</b>		<b>19</b>		<b>28</b>	<b>30</b>		<b>23</b>	<b>28</b>
Zinc (mg/kg)	<b>340</b>	<b>64</b>		<b>370</b>		<b>120</b>	<b>260</b>		<b>96</b>	<b>85</b>
<b>2. pH</b>										
pH (SU)	<b>3.4</b>	<b>4</b>		<b>7.9</b>		<b>4.3</b>	<b>5</b>		<b>7.2</b>	<b>3.6</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,1,2-Trichloroethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,1-Dichloroethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,1-Dichloroethene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,1-Dichloropropene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2,3-Trichlorobenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2,3-Trichloropropane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2,4-Trichlorobenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2,4-Trimethylbenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2-Dibromo-3-Chloropropane (mg/k)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2-Dibromoethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2-Dichlorobenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2-Dichloroethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,2-Dichloropropane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,3,5-Trimethylbenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,3-Dichlorobenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,3-Dichloropropane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
1,4-Dichlorobenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
2,2-Dichloropropane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
2-Butanone (mg/kg)	0.0094 U	0.01 U		0.0098 U		0.01 U	0.01 U		0.0094 U	0.01 U
2-Chloroethylvinylether (mg/kg)				0.0098 U						
2-Chlorotoluene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
2-Hexanone (mg/kg)	0.0094 U	0.01 U		0.0098 U		0.01 U	0.01 U		0.0094 U	0.01 U
4-Chlorotoluene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
4-Methyl-2-Pentanone (mg/kg)	0.0094 U	0.01 U		0.0098 U		0.01 U	0.01 U		0.0094 U	0.01 U
Acetone (mg/kg)	0.019 U	0.02 U		<b>0.035</b>		0.02 U	0.02 U		0.019 U	0.02 U
Benzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Bromobenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Bromochloromethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Bromodichloromethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Bromoform (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Bromomethane (mg/kg)	0.0094 U	0.01 U		0.0098 U		0.01 U	0.01 U		0.0094 U	0.01 U
Carbon Disulfide (mg/kg)	0.0047 U	0.005 U		<b>0.0076</b>		0.0051 U	0.005 U		0.0047 U	0.005 U
Carbon Tetrachloride (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Chlorobenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Chloroethane (mg/kg)	0.0094 U	0.01 U		0.0098 U		0.01 U	0.01 U		0.0094 U	0.01 U
Chloroform (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Chloromethane (mg/kg)	0.0094 U	0.01 U		0.0098 U		0.01 U	0.01 U		0.0094 U	0.01 U
cis-1,2-Dichloroethene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
cis-1,3-Dichloropropene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Dibromochloromethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Dibromomethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Ethylbenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Freon 113 (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Freon 12 (mg/kg)	0.0094 U	0.01 U		0.0098 U		0.01 U	0.01 U		0.0094 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
Hexachlorobutadiene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Isopropylbenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
m,p-Xylenes (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Methylene Chloride (mg/kg)	0.019 U	0.02 U		0.02 U		0.02 U	0.02 U		<b>0.021</b>	0.02 U
MTBE (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
n-Butylbenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Naphthalene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
o-Xylene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
para-Isopropyl Toluene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Propylbenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
sec-Butylbenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Styrene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
tert-Butylbenzene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Tetrachloroethene (mg/kg)	<b>0.068</b>	<b>0.054</b>		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Toluene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
trans-1,2-Dichloroethene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
trans-1,3-Dichloropropene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Trichloroethene (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Trichlorofluoromethane (mg/kg)	0.0047 U	0.005 U		0.0049 U		0.0051 U	0.005 U		0.0047 U	0.005 U
Vinyl Acetate (mg/kg)	0.047 U	0.05 U		0.049 U		0.051 U	0.05 U		0.047 U	0.05 U
Vinyl Chloride (mg/kg)	0.0094 U	0.01 U		0.0098 U		0.01 U	0.01 U		0.0094 U	0.01 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
2,4,6-Trichlorophenol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2,4-Dichlorophenol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2,4-Dimethylphenol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2,4-Dinitrophenol (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
2,4-Dinitrotoluene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2,6-Dinitrotoluene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2-Chloronaphthalene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2-Chlorophenol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2-Methylnaphthalene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2-Methylphenol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
2-Nitroaniline (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
2-Nitrophenol (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
3,3'-Dichlorobenzidine (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
3-,4-Methylphenol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
3-Nitroaniline (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
4-Bromophenyl-phenylether (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
4-Chloro-3-methylphenol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
4-Chloroaniline (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
4-Chlorophenyl-phenylether (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
4-Nitroaniline (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
4-Nitrophenol (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
Acenaphthene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
Acenaphthylene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Anthracene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Azobenzene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Benzo(a)anthracene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Benzo(a)pyrene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Benzo(b,k)fluoranthene (mg/kg)	0.33 U	0.33 U		<b>0.46 J</b>		0.33 U			10 U	
Benzo(g,h,i)perylene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Benzoic acid (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
Benzyl alcohol (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
bis(2-Chloroethyl)ether (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Butylbenzylphthalate (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Chrysene (mg/kg)	0.33 U	0.33 U		<b>0.39 J</b>		0.33 U			10 U	
Di-n-butylphthalate (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Di-n-octylphthalate (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Dibenz(a,h)anthracene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Dibenzofuran (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Diethylphthalate (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Dimethylphthalate (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Fluoranthene (mg/kg)	0.33 U	0.33 U		<b>0.44 J</b>		0.33 U			10 U	
Fluorene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
Hexachlorobenzene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Hexachlorocyclopentadiene (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
Hexachloroethane (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Isophorone (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
N-Nitrosodimethylamine (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
N-Nitrosodiphenylamine (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Nitrobenzene (mg/kg)	0.33 U	0.33 U		0.67 U		0.33 U			10 U	
Pentachlorophenol (mg/kg)	1.7 U	1.7 U		3.3 U		1.7 U			50 U	
Phenanthrene (mg/kg)	0.33 U	0.33 U		<b>0.38 J</b>		0.33 U			10 U	
Phenol (mg/kg)	<b>0.2 J</b>	<b>0.18 J</b>		0.67 U		0.33 U			10 U	
Pyrene (mg/kg)	0.33 U	0.33 U		<b>0.39 J</b>		0.33 U			10 U	
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.006 U	0.006 U		<b>0.046 J</b>		0.5 U			0.05 U	
4,4'-DDE (mg/kg)	0.006 U	0.006 U		<b>0.036 J</b>		0.5 U			0.05 U	
4,4'-DDT (mg/kg)	0.006 U	0.006 U		<b>0.14</b>		<b>0.81</b>			<b>0.074</b>	
Aldrin (mg/kg)	0.003 U	0.003 U		0.03 U		0.5 U			0.05 U	
alpha-BHC (mg/kg)	0.003 U	0.003 U		0.03 U		0.5 U			0.05 U	
Aroclor-1016 (mg/kg)	0.012 U	0.012 U		0.12 U		5 U			0.5 U	
Aroclor-1221 (mg/kg)	0.024 U	0.024 U		0.24 U		5 U			0.5 U	
Aroclor-1232 (mg/kg)	0.012 U	0.012 U		0.12 U		5 U			0.5 U	
Aroclor-1242 (mg/kg)	0.012 U	0.012 U		0.12 U		5 U			0.5 U	



**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
Aroclor-1248 (mg/kg)	0.012 U	0.012 U		0.12 U		5 U			0.5 U	
Aroclor-1254 (mg/kg)	0.012 U	0.012 U		0.12 U		5 U			0.5 U	
Aroclor-1260 (mg/kg)	0.012 U	0.012 U		0.12 U		5 U			0.5 U	
Aroclor-1262 (mg/kg)						5 U			0.5 U	
beta-BHC (mg/kg)	0.003 U	0.003 U		0.03 U		0.5 U			0.05 U	
Chlordane (mg/kg)	0.03 U	0.03 U		0.3 U		5 U			0.5 U	
delta-BHC (mg/kg)	0.003 U	0.003 U		0.03 U		0.5 U			0.05 U	
Dieldrin (mg/kg)	0.006 U	0.006 U		0.06 U		0.5 U			0.05 U	
Endosulfan I (mg/kg)	0.003 U	0.003 U		0.03 U		0.5 U			0.05 U	
Endosulfan II (mg/kg)	0.006 U	0.006 U		0.06 U		0.5 U			0.05 U	
Endosulfan sulfate (mg/kg)	0.006 U	0.006 U		0.06 U		0.5 U			0.05 U	
Endrin (mg/kg)	0.006 U	0.006 U		0.06 U		0.5 U			0.05 U	
Endrin aldehyde (mg/kg)	0.006 U	0.006 U		0.06 U		0.5 U			0.05 U	
gamma-BHC (mg/kg)	0.003 U	0.003 U		0.03 U		0.5 U			0.05 U	
Heptachlor (mg/kg)	0.003 U	0.003 U		0.03 U		0.5 U			0.05 U	
Heptachlor Epoxide (mg/kg)						0.5 U			0.05 U	
Heptachlor epoxide A (mg/kg)	0.003 U	0.003 U		0.03 U						
Heptachlor epoxide B (mg/kg)	0.003 U	0.003 U		0.03 U						
Methoxychlor (mg/kg)	0.03 U	0.03 U		0.3 U		0.5 U			0.05 U	
Toxaphene (mg/kg)	0.06 U	0.06 U		0.6 U		5 U			0.5 U	
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.06 U	<b>0.16</b>	<b>0.06</b>		0.064 U	0.06 U	0.064 U	0.064 U	0.064 U	0.064 U
Butylate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-17-1.5	A06-17-4.5	A06-17-6.5	A06-18-3.5	A06-18-6.5	H-63-1.5	H-63-3.5	H-63-6.5	H-68-1.5	H-68-3.5
Sample Date	9/7/99	9/7/99	9/7/99	9/3/99	9/3/99	10/13/99	10/13/99	10/13/99	10/13/99	10/13/99
Horizon										
captan (mg/kg)	<b>0.11</b>	0.25 U	0.25 U		0.25 U	0.13 U	0.25 U	0.25 U	0.25 U	0.13 U
Carbophenothion (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	0.1 U	0.01 U	0.01 U	<b>0.05</b>	0.01 U
Cycloate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
EPTC (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.05 U	0.05 U	0.01 U	0.01 U
Fonofos (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U				0.09 U	0.09 U	<b>8.5</b>	0.09 U	0.09 U
Molinate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Pebulate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	<b>0.07</b>	0.05 U	0.05 U		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06
Sample ID	H-68-6.5
Sample Date	10/13/99
Horizon	

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**6. Proprietary Pesticides**

bensulide (mg/kg)	0.064 U
Butylate (mg/kg)	0.01 U
captan (mg/kg)	0.25 U
Carbophenothion (mg/kg)	0.01 U
Cycloate (mg/kg)	0.01 U
EPTC (mg/kg)	0.01 U
Flurochloridone (mg/kg)	0.03 U
Fonofos (mg/kg)	0.01 U
Metam sodium (mg/kg)	0.09 U
Molinate (mg/kg)	0.01 U
Napropamide (mg/kg)	0.01 U
Pebulate (mg/kg)	0.01 U
phosmet (mg/kg)	0.05 U
R25788 (mg/kg)	0.01 U
R29148 (mg/kg)	0.01 U
Vernolate (mg/kg)	0.01 U

**Table 3c Plant Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06
Sample ID	H-68-6.5
Sample Date	10/13/99
Horizon	

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**Notes**

Bolded values indicate detected compounds.

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

U = Not detected. Result shown is the detection limit.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
<b>1. Metals</b>										
Antimony (ug/l)	60 U	60 U	60 U	60 U	60 U			60 U	60 U	60 U
Arsenic (ug/l)	5 U	5 U	5 U	5 U	5 U			5 U	5 U	5 U
Barium (ug/l)	<b>55</b>	<b>38</b>	<b>27</b>	<b>24</b>	<b>35</b>			<b>19</b>	<b>22</b>	<b>65</b>
Beryllium (ug/l)	2 U	2 U	2 U	2 U	2 U			<b>5.7</b>	2 U	2 U
Cadmium (ug/l)	5 U	5 U	<b>42</b>	5 U	5 U			<b>17</b>	5 U	5 U
Chromium (ug/l)	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U
Cobalt (ug/l)	<b>41</b>	20 U	<b>110</b>	20 U	20 U			<b>63</b>	20 U	20 U
Copper (ug/l)	10 U	10 U	<b>2100</b>	10 U	10 U			<b>210</b>	10 U	10 U
Lead (ug/l)	3 U	3 U	3 U	3 U	3 U			3 U	3 U	3 U
Mercury (ug/l)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U			0.2 U	0.2 U	0.2 U
Molybdenum (ug/l)	<b>28</b>	20 U	20 U	20 U	20 U			20 U	20 U	20 U
Nickel (ug/l)	20 U	20 U	<b>1500</b>	20 U	<b>31</b>			<b>1600</b>	20 U	20 U
Selenium (ug/l)	<b>6</b>	5 U	<b>6.5</b>	5 U	<b>8.3</b>			5 U	5 U	5 U
Silver (ug/l)	5 U	5 U	5 U	5 U	5 U			5 U	5 U	5 U
Thallium (ug/l)	5 U	5 U	5 U	5 U	5 U			5 U	5 U	5 U
Vanadium (ug/l)	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U
Zinc (ug/l)	20 U	<b>130</b>	<b>12000</b>	20 U	<b>44</b>			<b>1100</b>	<b>220</b>	<b>30</b>
<b>2. pH</b>										
pH (SU)	<b>7.09</b>	<b>7.1</b>	<b>6.37</b>	<b>6.75</b>	<b>5.83</b>		<b>4.69</b>		<b>7.17</b>	<b>7.54</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
1,1,1-Trichloroethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,1,2,2-Tetrachloroethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,1,2-Trichloroethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,1-Dichloroethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,1-Dichloroethene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,1-Dichloropropene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,2,3-Trichlorobenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,2,3-Trichloropropane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,2,4-Trichlorobenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,2,4-Trimethylbenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane (ug/l)	2 U	1.7 U	2 U	<b>3.4</b>		67 U			0.5 U	0.5 U
1,2-Dibromoethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,2-Dichlorobenzene (ug/l)	<b>6.3</b>	<b>5.6</b>	<b>3.1</b>	<b>33</b>		<b>4800</b>			<b>1.1</b>	0.5 U
1,2-Dichloroethane (ug/l)	<b>18</b>	<b>47</b>	<b>0.5</b>	0.5 U		17 U			0.5 U	0.5 U
1,2-Dichloropropane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,3,5-Trimethylbenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,3-Dichlorobenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		<b>30</b>			0.5 U	0.5 U
1,3-Dichloropropane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
1,4-Dichlorobenzene (ug/l)	0.5 U	1.7 U	0.5 U	<b>2.6</b>		<b>370</b>			0.5 U	0.5 U
2,2-Dichloropropane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
2-Butanone (ug/l)	10 U	33 U	10 U	10 U		330 U			10 U	10 U
2-Chloroethylvinylether (ug/l)		33 U							10 U	10 U
2-Chlorotoluene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
2-Hexanone (ug/l)	10 U	33 U	10 U	10 U		330 U			10 U	10 U
4-Chlorotoluene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
4-Methyl-2-Pentanone (ug/l)	10 U	33 U	10 U	10 U		330 U			10 U	10 U
Acetone (ug/l)	10 U	33 U	10 U	10 U		330 U			10 U	10 U
Benzene (ug/l)	<b>9.6</b>	1.7 U	0.5 U	0.5 U		<b>18</b>			0.5 U	0.5 U
Bromobenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Bromochloromethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Bromodichloromethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Bromoform (ug/l)	1 U	3.3 U	1 U	1 U		33 U			1 U	1 U
Bromomethane (ug/l)	1 U	3.3 U	1 U	1 U		33 U			1 U	1 U
Carbon Disulfide (ug/l)	2 U	1.7 U	2 U	2 U		67 U			0.5 U	0.5 U
Carbon Tetrachloride (ug/l)	<b>45</b>	<b>1.8</b>	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Chlorobenzene (ug/l)	<b>0.6</b>	<b>27</b>	<b>1.1</b>	<b>11</b>		17 U			0.5 U	0.5 U
Chloroethane (ug/l)	1 U	3.3 U	1 U	1 U		33 U			1 U	1 U
Chloroform (ug/l)	<b>67</b>	<b>2.5</b>	<b>2.2</b>	<b>3.9</b>		17 U			0.5 U	0.5 U
Chloromethane (ug/l)	1 U	3.3 U	1 U	1 U		33 U			1 U	1 U
cis-1,2-Dichloroethene (ug/l)	<b>1.4</b>	<b>32</b>	<b>0.8</b>	0.5 U		17 U			0.5 U	0.5 U
cis-1,3-Dichloropropene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Dibromochloromethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Dibromomethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Ethylbenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Freon 113 (ug/l)	5 U	17 U	5 U	5 U		170 U			5 U	5 U
Freon 12 (ug/l)	1 U	3.3 U	1 U	1 U		33 U			1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
Hexachlorobutadiene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Isopropylbenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
m,p-Xylenes (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Methylene Chloride (ug/l)	10 U	17 U	10 U	10 U		330 U			5 U	5 U
MTBE (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
n-Butylbenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Naphthalene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
o-Xylene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
para-Isopropyl Toluene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Propylbenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
sec-Butylbenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Styrene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
tert-Butylbenzene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Tetrachloroethene (ug/l)	<b>0.8</b>	<b>26</b>	<b>62</b>	0.5 U		17 U			0.5 U	0.5 U
Toluene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
trans-1,2-Dichloroethene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
trans-1,3-Dichloropropene (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Trichloroethene (ug/l)	<b>18</b>	<b>370</b>	<b>3.2</b>	0.5 U		17 U			0.5 U	0.5 U
Trichlorofluoromethane (ug/l)	0.5 U	1.7 U	0.5 U	0.5 U		17 U			0.5 U	0.5 U
Vinyl Acetate (ug/l)	10 U	33 U	10 U	10 U		330 U			10 U	10 U
Vinyl Chloride (ug/l)	0.5 U	<b>4.6</b>	0.5 U	0.5 U		17 U			0.5 U	0.5 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U



**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
2,4,6-Trichlorophenol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2,4-Dichlorophenol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2,4-Dimethylphenol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2,4-Dinitrophenol (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
2,4-Dinitrotoluene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2,6-Dinitrotoluene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2-Chloronaphthalene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2-Chlorophenol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2-Methylnaphthalene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2-Methylphenol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
2-Nitroaniline (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
2-Nitrophenol (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
3,3'-Dichlorobenzidine (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
3-,4-Methylphenol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
3-Nitroaniline (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
4,6-Dinitro-2-methylphenol (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
4-Bromophenyl-phenylether (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
4-Chloro-3-methylphenol (ug/l)	96 U	9.5 U	9.6 U	<b>37</b>	270 U					10 U
4-Chloroaniline (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
4-Chlorophenyl-phenylether (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
4-Nitroaniline (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
4-Nitrophenol (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
Acenaphthene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
Acenaphthylene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Anthracene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Azobenzene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Benzo(a)anthracene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Benzo(a)pyrene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Benzo(b,k)fluoranthene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Benzo(g,h,i)perylene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Benzoic acid (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
Benzyl alcohol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
bis(2-Chloroethoxy)methane (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
bis(2-Chloroethyl)ether (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
bis(2-Chloroisopropyl) ether (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
bis(2-Ethylhexyl)phthalate (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Butylbenzylphthalate (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Chrysene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Di-n-butylphthalate (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Di-n-octylphthalate (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Dibenz(a,h)anthracene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Dibenzofuran (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Diethylphthalate (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Dimethylphthalate (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Fluoranthene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Fluorene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
Hexachlorobenzene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Hexachlorocyclopentadiene (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
Hexachloroethane (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Indeno(1,2,3-cd)pyrene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Isophorone (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
N-Nitroso-di-n-propylamine (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
N-Nitrosodimethylamine (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
N-Nitrosodiphenylamine (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Nitrobenzene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Pentachlorophenol (ug/l)	480 U	48 U	48 U	47 U	1400 U					51 U
Phenanthrene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Phenol (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
Pyrene (ug/l)	96 U	9.5 U	9.6 U	9.4 U	270 U					10 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (ug/l)	1 U	0.1 U	1 U	1 U	0.9 U				0.1 U	0.1 U
4,4'-DDE (ug/l)	1 U	0.1 U	1 U	1 U	0.9 U				0.1 U	0.1 U
4,4'-DDT (ug/l)	1 U	0.1 U	1 U	1 U	0.9 U				0.1 U	0.1 U
Aldrin (ug/l)	0.5 U	0.1 U	0.5 U	0.5 U	0.5 U				0.1 U	0.1 U
alpha-BHC (ug/l)	0.5 U	0.1 U	0.5 U	0.5 U	0.5 U				0.1 U	0.1 U
Aroclor-1016 (ug/l)	4.8 U	1 U	4.9 U	4.8 U	4.7 U				1 U	1 U
Aroclor-1221 (ug/l)	9.5 U	1 U	9.7 U	9.5 U	9.4 U				1 U	1 U
Aroclor-1232 (ug/l)	4.8 U	1 U	4.9 U	4.8 U	4.7 U				1 U	1 U
Aroclor-1242 (ug/l)	4.8 U	1 U	4.9 U	4.8 U	4.7 U				1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
Aroclor-1248 (ug/l)	4.8 U	1 U	4.9 U	4.8 U	4.7 U				1 U	1 U
Aroclor-1254 (ug/l)	4.8 U	1 U	4.9 U	4.8 U	4.7 U				1 U	1 U
Aroclor-1260 (ug/l)	4.8 U	1 U	4.9 U	4.8 U	4.7 U				1 U	1 U
Aroclor-1262 (ug/l)		1 U							1 U	1 U
beta-BHC (ug/l)	0.5 U	0.1 U	0.5 U	0.5 U	0.5 U				0.1 U	0.1 U
Chlordane (ug/l)	4.8 U	1 U	4.9 U	4.8 U	4.7 U				1 U	1 U
delta-BHC (ug/l)	0.5 U	0.1 U	0.5 U	0.5 U	0.5 U				0.1 U	0.1 U
Dieldrin (ug/l)	1 U	0.1 U	1 U	1 U	0.9 U				0.1 U	0.1 U
Endosulfan I (ug/l)	0.5 U	0.1 U	0.5 U	0.5 U	0.5 U				0.1 U	0.1 U
Endosulfan II (ug/l)	1 U	0.1 U	1 U	1 U	0.9 U				0.1 U	0.1 U
Endosulfan sulfate (ug/l)	1 U	0.1 U	1 U	1 U	0.9 U				0.1 U	0.1 U
Endrin (ug/l)	1 U	0.1 U	1 U	1 U	0.9 U				0.1 U	0.1 U
Endrin aldehyde (ug/l)	1 U	0.1 U	1 U	1 U	0.9 U				0.1 U	0.1 U
gamma-BHC (ug/l)	0.5 U	0.1 U	0.5 U	0.5 U	0.5 U				0.1 U	0.1 U
Heptachlor (ug/l)	0.5 U	0.1 U	0.5 U	0.5 U	0.5 U				0.1 U	0.1 U
Heptachlor Epoxide (ug/l)		0.1 U							0.1 U	0.1 U
Heptachlor epoxide A (ug/l)	0.5 U		0.5 U	0.5 U	0.5 U					
Heptachlor epoxide B (ug/l)	0.5 U		0.5 U	0.5 U	0.5 U					
Methoxychlor (ug/l)	4.8 U	0.1 U	4.9 U	4.8 U	4.7 U				0.1 U	0.1 U
Toxaphene (ug/l)	9.5 U	1 U	9.7 U	9.5 U	9.4 U				1 U	1 U
<b>6. Proprietary Pesticides</b>										
bensulide (ug/l)	50 U	32 U	50 U	50 U	50 U				32 U	32 U
Butylate (ug/l)	<b>36</b>	<b>2</b>	1 U	<b>60</b>	<b>310</b>				1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A01	A01	A02	A02	A02	A02	A02	A02	A02	A02
Sample ID	A01-01	H-70	A02-01	A02-02	A02-03	A02-03	H-16	H-16	H-73	H-76
Sample Date	8/25/99	11/10/99	8/25/99	8/25/99	8/25/99	8/26/99	10/7/99	10/8/99	11/10/99	11/10/99
Horizon		Lower					Upper	Upper	Lower	Lower
captan (ug/l)	<b>21</b>	5 U	25 U	25 U	25 U				5 U	5 U
carbophenothion (ug/l)	1 U	1 U	1 U	1 U	1 U				1 U	1 U
Cycloate (ug/l)	<b>760</b>	<b>2</b>	<b>280</b>	<b>5</b>	<b>16</b>				1 U	1 U
EPTC (ug/l)	<b>1700</b>	<b>57</b>	<b>35</b>	<b>1800</b>	<b>3700</b>				<b>44</b>	1 U
flurochloridone (ug/l)	<b>2</b>	5 U	1 U	<b>2</b>	1 U				5 U	5 U
Fonofos (ug/l)	1 U	1 U	1 U	<b>1</b>	1 U				1 U	1 U
Metam sodium (ug/l)	9 U		9 U	9 U	<b>18</b>					
Molinate (ug/l)	<b>6300</b>	1 U	<b>1500</b>	<b>310</b>	<b>940</b>				<b>22</b>	1 U
Napropamide (ug/l)	<b>7</b>	<b>4</b>	1 U	1 U	1 U				<b>4</b>	1 U
Pebulate (ug/l)	<b>1000</b>	<b>3</b>	<b>64</b>	<b>590</b>	<b>410</b>				<b>5</b>	1 U
phosmet (ug/l)	5 U	5 U	5 U	5 U	5 U				5 U	5 U
R25788 (ug/l)	<b>52</b>	1 U	<b>1</b>	<b>1</b>	<b>1</b>				1 U	1 U
R29148 (ug/l)	<b>80</b>	1 U	<b>2</b>	1 U	<b>4</b>				1 U	1 U
Vernolate (ug/l)	<b>210</b>	<b>4</b>	1 U	<b>3</b>	<b>140</b>				1 U	1 U

**7. Field Measurements and Physical Properties**

Total Dissolved Solids (ug/l) **850000**

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
<b>1. Metals</b>										
Antimony (ug/l)	60 U	60 U	60 U		60 U	60 U		60 U	60 U	60 U
Arsenic (ug/l)	<b>5</b>	<b>5.5</b>	<b>6</b>		<b>120</b>	5 U		<b>8.7</b>	<b>5.1</b>	5 U
Barium (ug/l)	<b>26</b>	<b>27</b>	<b>22</b>		<b>18</b>	<b>29</b>		<b>32</b>	<b>29</b>	<b>52</b>
Beryllium (ug/l)	<b>3.9</b>	<b>3.5</b>	<b>3.2</b>		<b>3</b>	2 U		2 U	<b>5.9</b>	<b>3.6</b>
Cadmium (ug/l)	<b>180</b>	<b>490</b>	<b>190</b>		<b>77</b>	<b>18</b>		<b>13</b>	<b>260</b>	<b>120</b>
Chromium (ug/l)	10 U	10 U	<b>13</b>		10 U	10 U		10 U	<b>47</b>	<b>15</b>
Cobalt (ug/l)	<b>510</b>	<b>370</b>	<b>370</b>		<b>280</b>	<b>81</b>		<b>400</b>	<b>2500</b>	<b>1800</b>
Copper (ug/l)	<b>52000</b>	<b>85000</b>	<b>70000</b>		<b>30000</b>	<b>450</b>		10 U	<b>3600</b>	<b>1900</b>
Lead (ug/l)	<b>15</b>	<b>49</b>	<b>5.2</b>		<b>4.6</b>	3 U		<b>6.8</b>	<b>150</b>	<b>14</b>
Mercury (ug/l)	0.2 U	0.2 U	<b>0.58</b>		<b>0.67</b>	0.2 U		0.2 U	<b>0.62</b>	<b>0.25</b>
Molybdenum (ug/l)	20 U	20 U	20 U		20 U	20 U		20 U	20 U	20 U
Nickel (ug/l)	<b>1100</b>	<b>980</b>	<b>610</b>		<b>530</b>	<b>160</b>		<b>1100</b>	<b>3000</b>	<b>3900</b>
Selenium (ug/l)	5 U	5 U	5 U		5 U	5 U		<b>49</b>	<b>32</b>	<b>44</b>
Silver (ug/l)	5 U	5 U	5 U		5 U	5 U		5 U	5 U	<b>9.8</b>
Thallium (ug/l)	5 U	<b>9.9</b>	5 U		<b>5.7</b>	5 U		5 U	<b>66</b>	<b>110</b>
Vanadium (ug/l)	10 U	10 U	10 U		10 U	10 U		10 U	10 U	10 U
Zinc (ug/l)	<b>170000</b>	<b>110000</b>	<b>52000</b>		<b>32000</b>	<b>3900</b>		<b>1500</b>	<b>64000</b>	<b>30000</b>
<b>2. pH</b>										
pH (SU)	<b>4.27</b>	<b>4.23</b>	<b>4.06</b>	<b>4.5</b>		<b>6.09</b>		<b>5.75</b>	<b>4.06</b>	<b>5.02</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
1,1,1-Trichloroethane (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
1,1,2-Tetrachloroethane (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
1,1,2-Trichloroethane (ug/l)	200 U	25 U	6.3 U		<b>0.7</b>	5 U	50 U	250 U	1 U	42 U
1,1-Dichloroethane (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
1,1-Dichloroethene (ug/l)	200 U	25 U	6.3 U		<b>2.2</b>	5 U	50 U	250 U	1 U	42 U
1,1-Dichloropropene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
1,2,3-Trichlorobenzene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
1,2,3-Trichloropropane (ug/l)	200 U	25 U			<b>1.9</b>	5 U	50 U	250 U	1 U	42 U
1,2,4-Trichlorobenzene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
1,2,4-Trimethylbenzene (ug/l)	200 U	25 U			<b>8.2</b>	5 U	50 U	250 U	1 U	42 U
1,2-Dibromo-3-Chloropropane (ug/l)	800 U	100 U			0.5 U	5 U	50 U	1000 U	4 U	170 U
1,2-Dibromoethane (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
1,2-Dichlorobenzene (ug/l)	200 U	<b>44</b>	6.3 U		<b>6.6</b>	5 U	<b>110</b>	250 U	<b>2.5</b>	42 U
1,2-Dichloroethane (ug/l)	200 U	25 U	6.3 U		<b>44</b>	<b>65</b>	50 U	250 U	1 U	42 U
1,2-Dichloropropane (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
1,3,5-Trimethylbenzene (ug/l)	200 U	25 U			<b>2</b>	5 U	50 U	250 U	1 U	42 U
1,3-Dichlorobenzene (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
1,3-Dichloropropane (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
1,4-Dichlorobenzene (ug/l)	200 U	<b>30</b>	6.3 U		<b>8.9</b>	5 U	<b>78</b>	250 U	<b>3.3</b>	42 U
2,2-Dichloropropane (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
2-Butanone (ug/l)	4000 U	500 U			10 U	100 U	1000 U	5000 U	20 U	830 U
2-Chloroethylvinylether (ug/l)					10 U	100 U	1000 U			
2-Chlorotoluene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
2-Hexanone (ug/l)	4000 U	500 U			10 U	100 U	1000 U	5000 U	20 U	830 U
4-Chlorotoluene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
4-Methyl-2-Pentanone (ug/l)	4000 U	500 U			10 U	100 U	1000 U	5000 U	20 U	830 U
Acetone (ug/l)	4000 U	500 U			10 U	100 U	1000 U	5000 U	20 U	830 U
Benzene (ug/l)	200 U	<b>84</b>	<b>46</b>		<b>78</b>	5 U	<b>190</b>	250 U	<b>14</b>	<b>62</b>
Bromobenzene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
Bromochloromethane (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
Bromodichloromethane (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
Bromoform (ug/l)	400 U	50 U	6.3 U		1 U	10 U	100 U	500 U	2 U	83 U
Bromomethane (ug/l)	400 U	50 U	13 U		1 U	10 U	100 U	500 U	2 U	83 U
Carbon Disulfide (ug/l)	800 U	100 U	6.3 U		<b>0.7</b>	5 U	50 U	<b>68000</b>	4 U	170 U
Carbon Tetrachloride (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	<b>13</b>	42 U
Chlorobenzene (ug/l)	<b>75000</b>	<b>9600</b>	<b>1900</b>		<b>3800</b>	<b>720</b>	<b>12000</b>	250 U	<b>220</b>	<b>10000</b>
Chloroethane (ug/l)	400 U	50 U	13 U		<b>1.2</b>	10 U	100 U	500 U	2 U	83 U
Chloroform (ug/l)	200 U	25 U	6.3 U		<b>2.4</b>	<b>5.4</b>	50 U	250 U	<b>18</b>	<b>3400</b>
Chloromethane (ug/l)	400 U	50 U	13 U		1 U	10 U	100 U	500 U	2 U	83 U
cis-1,2-Dichloroethene (ug/l)	200 U	25 U	<b>6.3</b>		<b>12</b>	<b>21</b>	50 U	250 U	1 U	42 U
cis-1,3-Dichloropropene (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
Dibromochloromethane (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
Dibromomethane (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
Ethylbenzene (ug/l)	200 U	25 U	6.3 U		<b>2.5</b>	5 U	50 U	250 U	1 U	42 U
Freon 113 (ug/l)	2000 U	250 U	63 U		5 U	50 U	500 U	2500 U	10 U	420 U
Freon 12 (ug/l)	400 U	50 U	25 U		1 U	10 U	100 U	500 U	2 U	83 U



**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
Hexachlorobutadiene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
Isopropylbenzene (ug/l)	200 U	25 U			<b>2.4</b>	5 U	50 U	250 U	1 U	42 U
m,p-Xylenes (ug/l)	200 U	25 U	6.3 U		<b>8.4</b>	5 U	50 U	250 U	1 U	42 U
Methylene Chloride (ug/l)	4000 U	500 U	63 U		5 U	50 U	500 U	5000 U	20 U	830 U
MTBE (ug/l)	200 U	25 U	6.3 U		<b>6</b>	5 U	50 U	250 U	1 U	42 U
n-Butylbenzene (ug/l)	200 U	25 U			<b>1.6</b>	5 U	50 U	250 U	1 U	42 U
Naphthalene (ug/l)	200 U	25 U			<b>34</b>	5 U	50 U	250 U	1 U	42 U
o-Xylene (ug/l)	200 U	25 U	6.3 U		<b>10</b>	5 U	50 U	250 U	1 U	42 U
para-Isopropyl Toluene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
Propylbenzene (ug/l)	200 U	25 U			<b>3.1</b>	5 U	50 U	250 U	1 U	42 U
sec-Butylbenzene (ug/l)	200 U	25 U			<b>1.6</b>	5 U	50 U	250 U	1 U	42 U
Styrene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
tert-Butylbenzene (ug/l)	200 U	25 U			0.5 U	5 U	50 U	250 U	1 U	42 U
Tetrachloroethene (ug/l)	200 U	<b>44</b>	<b>20</b>		<b>21</b>	<b>36</b>	<b>100</b>	250 U	<b>1.4</b>	42 U
Toluene (ug/l)	200 U	25 U	6.3 U		<b>2.5</b>	5 U	50 U	250 U	1 U	42 U
trans-1,2-Dichloroethene (ug/l)	200 U	25 U	6.3 U		<b>1.2</b>	5 U	50 U	250 U	1 U	42 U
trans-1,3-Dichloropropene (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
Trichloroethene (ug/l)	200 U	<b>26</b>	<b>44</b>		<b>68</b>	<b>990</b>	50 U	250 U	1 U	<b>130</b>
Trichlorofluoromethane (ug/l)	200 U	25 U	6.3 U		0.5 U	5 U	50 U	250 U	1 U	42 U
Vinyl Acetate (ug/l)	4000 U	500 U			10 U	100 U	1000 U	5000 U	20 U	830 U
Vinyl Chloride (ug/l)	200 U	25 U	6.3 U		<b>3.3</b>	<b>5.3</b>	50 U	250 U	1 U	42 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
2,4,6-Trichlorophenol (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
2,4-Dichlorophenol (ug/l)	<b>15 J</b>	21 U				10 U		48 U	9.9 U	9.5 U
2,4-Dimethylphenol (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
2,4-Dinitrophenol (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
2,4-Dinitrotoluene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
2,6-Dinitrotoluene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
2-Chloronaphthalene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
2-Chlorophenol (ug/l)	<b>370</b>	<b>300</b>				10 U		48 U	9.9 U	<b>46</b>
2-Methylnaphthalene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
2-Methylphenol (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
2-Nitroaniline (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
2-Nitrophenol (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
3,3'-Dichlorobenzidine (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
3-,4-Methylphenol (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
3-Nitroaniline (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
4,6-Dinitro-2-methylphenol (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
4-Bromophenyl-phenylether (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
4-Chloro-3-methylphenol (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
4-Chloroaniline (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
4-Chlorophenyl-phenylether (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
4-Nitroaniline (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
4-Nitrophenol (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
Acenaphthene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
Acenaphthylene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Anthracene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Azobenzene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Benzo(a)anthracene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Benzo(a)pyrene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Benzo(b,k)fluoranthene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Benzo(g,h,i)perylene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Benzoic acid (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
Benzyl alcohol (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
bis(2-Chloroethoxy)methane (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
bis(2-Chloroethyl)ether (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
bis(2-Chloroisopropyl) ether (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
bis(2-Ethylhexyl)phthalate (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Butylbenzylphthalate (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Chrysene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Di-n-butylphthalate (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Di-n-octylphthalate (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Dibenz(a,h)anthracene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Dibenzofuran (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Diethylphthalate (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Dimethylphthalate (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Fluoranthene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Fluorene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
Hexachlorobenzene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Hexachlorocyclopentadiene (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
Hexachloroethane (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Indeno(1,2,3-cd)pyrene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Isophorone (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
N-Nitroso-di-n-propylamine (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
N-Nitrosodimethylamine (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
N-Nitrosodiphenylamine (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Nitrobenzene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Pentachlorophenol (ug/l)	95 U	100 U				51 U		240 U	50 U	48 U
Phenanthrene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
Phenol (ug/l)	<b>11 J</b>	<b>25</b>				10 U		48 U	9.9 U	9.5 U
Pyrene (ug/l)	19 U	21 U				10 U		48 U	9.9 U	9.5 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (ug/l)	<b>14 J</b>	<b>13 J</b>				0.1 U		1 U	1.1 U	1 U
4,4'-DDE (ug/l)	19 U	20 U				0.1 U		1 U	1.1 U	1 U
4,4'-DDT (ug/l)	19 U	<b>19 J</b>				0.1 U		1 U	1.1 U	1 U
Aldrin (ug/l)	9.7 U	10 U				0.1 U		0.5 U	0.5 U	0.5 U
alpha-BHC (ug/l)	9.7 U	<b>9.4 J</b>				0.1 U		0.5 U	0.5 U	0.5 U
Aroclor-1016 (ug/l)	97 U	100 U				1 U		4.9 U	5.4 U	5 U
Aroclor-1221 (ug/l)	190 U	200 U				1 U		9.7 U	11 U	10 U
Aroclor-1232 (ug/l)	97 U	100 U				1 U		4.9 U	5.4 U	5 U
Aroclor-1242 (ug/l)	97 U	100 U				1 U		4.9 U	5.4 U	5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
Aroclor-1248 (ug/l)	97 U	100 U				1 U		4.9 U	5.4 U	5 U
Aroclor-1254 (ug/l)	97 U	100 U				1 U		4.9 U	5.4 U	5 U
Aroclor-1260 (ug/l)	97 U	100 U				1 U		4.9 U	5.4 U	5 U
Aroclor-1262 (ug/l)						1 U				
beta-BHC (ug/l)	9.7 U	10 U				0.1 U		0.5 U	0.5 U	0.5 U
Chlordane (ug/l)	97 U	100 U				1 U		4.9 U	5.4 U	5 U
delta-BHC (ug/l)	9.7 U	10 U				0.1 U		0.5 U	0.5 U	0.5 U
Dieldrin (ug/l)	19 U	20 U				0.1 U		1 U	1.1 U	1 U
Endosulfan I (ug/l)	9.7 U	10 U				0.1 U		0.5 U	0.5 U	0.5 U
Endosulfan II (ug/l)	19 U	<b>12 J</b>				0.1 U		1 U	1.1 U	1 U
Endosulfan sulfate (ug/l)	19 U	20 U				0.1 U		1 U	1.1 U	1 U
Endrin (ug/l)	19 U	20 U				0.1 U		1 U	1.1 U	1 U
Endrin aldehyde (ug/l)	19 U	20 U				0.1 U		1 U	1.1 U	1 U
gamma-BHC (ug/l)	9.7 U	<b>6.7 J</b>				0.1 U		0.5 U	0.5 U	0.5 U
Heptachlor (ug/l)	9.7 U	10 U				0.1 U		0.5 U	0.5 U	0.5 U
Heptachlor Epoxide (ug/l)						0.1 U				
Heptachlor epoxide A (ug/l)	9.7 U	10 U						0.5 U	0.5 U	0.5 U
Heptachlor epoxide B (ug/l)	9.7 U	10 U						0.5 U	0.5 U	0.5 U
Methoxychlor (ug/l)	97 U	100 U				0.1 U		4.9 U	5.4 U	5 U
Toxaphene (ug/l)	190 U	200 U				1 U		9.7 U	11 U	10 U
<b>6. Proprietary Pesticides</b>										
bensulide (ug/l)	50 U	50 U		32 U		32 U		5 U	5 U	5 U
Butylate (ug/l)	1 U	<b>2</b>		1 U		1 U		<b>1</b>	1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A03	A03	A03	A03	A03	A03	A03	A04	A04	A04
Sample ID	A03-01	A03-02	BZ-01	H-65	H-65	H-75	TEMP. PIEZO	A04-01	A04-02	A04-03
Sample Date	8/23/99	8/23/99	10/8/99	10/19/99	10/22/99	11/10/99	11/5/99	8/25/99	8/25/99	8/26/99
Horizon				Upper	Upper	Lower				
captan (ug/l)	<b>32</b>	25 U		5 U		5 U		25 U	25 U	25 U
carbophenothion (ug/l)	1 U	<b>3</b>		1 U		1 U		1 U	1 U	1 U
Cycloate (ug/l)	<b>3</b>	1 U		1 U		1 U		<b>1</b>	1 U	1 U
EPTC (ug/l)	<b>58</b>	<b>31</b>		<b>34</b>		1 U		<b>1</b>	1 U	1 U
flurochloridone (ug/l)	<b>5</b>	<b>5</b>		5 U		5 U		<b>4</b>	1 U	1 U
Fonofos (ug/l)	1 U	1 U		1 U		1 U		1 U	1 U	1 U
Metam sodium (ug/l)	<b>390</b>	44 U		<b>190</b>				<b>480000</b>	9 U	<b>10</b>
Molinate (ug/l)	<b>3</b>	<b>43</b>		<b>2</b>		<b>1</b>		<b>19</b>	1 U	1 U
Napropamide (ug/l)	<b>15</b>	<b>22</b>		<b>5</b>		1 U		<b>3</b>	1 U	1 U
Pebulate (ug/l)	<b>15</b>	1 U		1 U		1 U		<b>9</b>	1 U	1 U
phosmet (ug/l)	5 U	5 U		5 U		5 U		5 U	5 U	5 U
R25788 (ug/l)	1 U	<b>2</b>		1 U		1 U		1 U	1 U	1 U
R29148 (ug/l)	1 U	1 U		1 U		1 U		<b>6</b>	1 U	1 U
Vernolate (ug/l)	<b>56</b>	<b>210</b>		<b>2</b>		1 U		<b>5</b>	1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
<b>1. Metals</b>										
Antimony (ug/l)	60 U		60 U	60 U		60 U		60 U	60 U	
Arsenic (ug/l)	5 U		21	10		12		5 U	5	
Barium (ug/l)	12		10	17		61		36	35	
Beryllium (ug/l)	2 U		32	3.6		2 U		2 U	2 U	
Cadmium (ug/l)	5 U		140	47		5 U		5 U	11	
Chromium (ug/l)	10 U		22	10 U		10 U		10 U	10 U	
Cobalt (ug/l)	20 U		2000	210		76		37	310	
Copper (ug/l)	10 U		41000	5600		18		10 U	63	
Lead (ug/l)	3 U		23	840		3 U		3 U	3.5	
Mercury (ug/l)	0.2 U		0.2 U	0.2 U		0.2 U		0.2 U	0.2 U	
Molybdenum (ug/l)	20 U		20 U	20 U		27		20 U	20 U	
Nickel (ug/l)	110		5400	370		68		120	200	
Selenium (ug/l)	5 U		5 U	35		11		8.2	5 U	
Silver (ug/l)	5 U		5 U	5 U		5 U		5 U	5 U	
Thallium (ug/l)	5 U		21	5 U		5 U		5 U	5 U	
Vanadium (ug/l)	10 U		120	13		10		10 U	10 U	
Zinc (ug/l)	60		40000	13000		43		120	170	
<b>2. pH</b>										
pH (SU)	6.71	3.42		3.26	3.2	6.72		5.78	6.42	5.83
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (ug/l)			1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
1,1,1-Trichloroethane (ug/l)	2.5 U		1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,1,2,2-Tetrachloroethane (ug/l)	2.5 U		<b>120</b>	<b>17</b>		0.5 U	0.7 U	0.7 U		
1,1,2-Trichloroethane (ug/l)	2.5 U		<b>4.9</b>	1.7 U		0.5 U	<b>1.5</b>	0.7 U		
1,1-Dichloroethane (ug/l)	2.5 U		1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,1-Dichloroethene (ug/l)	2.5 U		1.3 U	1.7 U		0.5 U	<b>0.9</b>	<b>1</b>		
1,1-Dichloropropene (ug/l)			1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,2,3-Trichlorobenzene (ug/l)			1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,2,3-Trichloropropane (ug/l)			1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,2,4-Trichlorobenzene (ug/l)			1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,2,4-Trimethylbenzene (ug/l)			<b>310</b>	1.7 U		<b>0.6</b>	0.7 U	0.7 U		
1,2-Dibromo-3-Chloropropane (ug/l)			5 U	1.7 U		2 U	2.9 U	2.9 U		
1,2-Dibromoethane (ug/l)			1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,2-Dichlorobenzene (ug/l)	2.5 U		1.3 U	1.7 U		0.5 U	0.7 U	<b>0.8</b>		
1,2-Dichloroethane (ug/l)	<b>40</b>		<b>2.8</b>	1.7 U		<b>1.2</b>	<b>120</b>	<b>44</b>		
1,2-Dichloropropane (ug/l)	2.5 U		1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,3,5-Trimethylbenzene (ug/l)			<b>100</b>	1.7 U		0.5 U	0.7 U	0.7 U		
1,3-Dichlorobenzene (ug/l)	2.5 U		1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,3-Dichloropropane (ug/l)			1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
1,4-Dichlorobenzene (ug/l)	2.5 U		1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
2,2-Dichloropropane (ug/l)			1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		
2-Butanone (ug/l)			25 U	33 U		10 U	14 U	14 U		
2-Chloroethylvinylether (ug/l)				33 U						
2-Chlorotoluene (ug/l)			1.3 U	1.7 U		0.5 U	0.7 U	0.7 U		



**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
2-Hexanone (ug/l)			25 U	33 U			10 U	14 U	14 U	
4-Chlorotoluene (ug/l)			1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
4-Methyl-2-Pentanone (ug/l)			25 U	33 U			10 U	14 U	14 U	
Acetone (ug/l)			25 U	33 U			<b>16</b>	14 U	14 U	
Benzene (ug/l)	2.5 U		<b>27</b>	<b>54</b>			<b>1.6</b>	<b>0.8</b>	<b>0.7</b>	
Bromobenzene (ug/l)			1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Bromochloromethane (ug/l)			1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Bromodichloromethane (ug/l)	2.5 U		1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Bromoform (ug/l)	2.5 U		2.5 U	3.3 U			1 U	1.4 U	1.4 U	
Bromomethane (ug/l)	5 U		2.5 U	3.3 U			1 U	1.4 U	1.4 U	
Carbon Disulfide (ug/l)	2.5 U		5 U	<b>9.8</b>			<b>130</b>	2.9 U	2.9 U	
Carbon Tetrachloride (ug/l)	2.5 U		1.3 U	<b>100</b>			<b>84</b>	0.7 U	0.7 U	
Chlorobenzene (ug/l)	<b>580</b>		<b>6</b>	<b>290</b>			<b>1.6</b>	<b>39</b>	<b>82</b>	
Chloroethane (ug/l)	5 U		2.5 U	3.3 U			1 U	1.4 U	1.4 U	
Chloroform (ug/l)	<b>10</b>		<b>3.4</b>	<b>280</b>			<b>140</b>	0.7 U	0.7 U	
Chloromethane (ug/l)	5 U		2.5 U	3.3 U			1 U	1.4 U	1.4 U	
cis-1,2-Dichloroethene (ug/l)	<b>3.9</b>		<b>83</b>	1.7 U			<b>1.8</b>	<b>3.6</b>	<b>3</b>	
cis-1,3-Dichloropropene (ug/l)	2.5 U		1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Dibromochloromethane (ug/l)	2.5 U		1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Dibromomethane (ug/l)			1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Ethylbenzene (ug/l)	2.5 U		<b>64</b>	1.7 U			0.5 U	0.7 U	0.7 U	
Freon 113 (ug/l)	25 U		13 U	17 U			5 U	7.1 U	7.1 U	
Freon 12 (ug/l)	10 U		2.5 U	3.3 U			1 U	1.4 U	1.4 U	

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
Hexachlorobutadiene (ug/l)			1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Isopropylbenzene (ug/l)			<b>7.9</b>	1.7 U			0.5 U	0.7 U	0.7 U	
m,p-Xylenes (ug/l)	2.5 U		<b>280</b>	1.7 U			<b>0.5</b>	0.7 U	0.7 U	
Methylene Chloride (ug/l)	25 U		25 U	17 U			<b>22</b>	14 U	14 U	
MTBE (ug/l)	2.5 U		1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
n-Butylbenzene (ug/l)			<b>35</b>	1.7 U			0.5 U	0.7 U	0.7 U	
Naphthalene (ug/l)			<b>75</b>	<b>1.9</b>			<b>0.5</b>	0.7 U	0.7 U	
o-Xylene (ug/l)	2.5 U		<b>120</b>	1.7 U			0.5 U	0.7 U	0.7 U	
para-Isopropyl Toluene (ug/l)			<b>3.9</b>	1.7 U			0.5 U	0.7 U	0.7 U	
Propylbenzene (ug/l)			<b>35</b>	1.7 U			0.5 U	0.7 U	0.7 U	
sec-Butylbenzene (ug/l)			<b>4.9</b>	1.7 U			0.5 U	0.7 U	0.7 U	
Styrene (ug/l)			1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
tert-Butylbenzene (ug/l)			1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Tetrachloroethene (ug/l)	<b>22</b>		<b>290</b>	<b>500</b>			0.5 U	<b>2.2</b>	<b>4.5</b>	
Toluene (ug/l)	2.5 U		<b>100</b>	1.7 U			0.5 U	0.7 U	0.7 U	
trans-1,2-Dichloroethene (ug/l)	2.5 U		<b>3.3</b>	1.7 U			0.5 U	0.7 U	0.7 U	
trans-1,3-Dichloropropene (ug/l)	2.5 U		1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Trichloroethene (ug/l)	<b>290</b>		<b>68</b>	<b>12</b>			<b>31</b>	<b>240</b>	<b>180</b>	
Trichlorofluoromethane (ug/l)	2.5 U		1.3 U	1.7 U			0.5 U	0.7 U	0.7 U	
Vinyl Acetate (ug/l)			25 U	33 U			10 U	14 U	14 U	
Vinyl Chloride (ug/l)	<b>4.5</b>		1.3 U	1.7 U			0.5 U	<b>9.5</b>	<b>4.8</b>	
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
2,4,6-Trichlorophenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
2,4-Dichlorophenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
2,4-Dimethylphenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
2,4-Dinitrophenol (ug/l)			49 U				61 U	48 U	47 U	
2,4-Dinitrotoluene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
2,6-Dinitrotoluene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
2-Chloronaphthalene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
2-Chlorophenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
2-Methylnaphthalene (ug/l)			<b>50</b>				12 U	9.6 U	9.4 U	
2-Methylphenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
2-Nitroaniline (ug/l)			49 U				61 U	48 U	47 U	
2-Nitrophenol (ug/l)			49 U				61 U	48 U	47 U	
3,3'-Dichlorobenzidine (ug/l)			49 U				61 U	48 U	47 U	
3-,4-Methylphenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
3-Nitroaniline (ug/l)			49 U				61 U	48 U	47 U	
4,6-Dinitro-2-methylphenol (ug/l)			49 U				61 U	48 U	47 U	
4-Bromophenyl-phenylether (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
4-Chloro-3-methylphenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
4-Chloroaniline (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
4-Chlorophenyl-phenylether (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
4-Nitroaniline (ug/l)			49 U				61 U	48 U	47 U	
4-Nitrophenol (ug/l)			49 U				61 U	48 U	47 U	
Acenaphthene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
Acenaphthylene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Anthracene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Azobenzene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Benzo(a)anthracene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Benzo(a)pyrene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Benzo(b,k)fluoranthene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Benzo(g,h,i)perylene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Benzoic acid (ug/l)			49 U				61 U	48 U	47 U	
Benzyl alcohol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
bis(2-Chloroethoxy)methane (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
bis(2-Chloroethyl)ether (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
bis(2-Chloroisopropyl) ether (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
bis(2-Ethylhexyl)phthalate (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Butylbenzylphthalate (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Chrysene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Di-n-butylphthalate (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Di-n-octylphthalate (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Dibenz(a,h)anthracene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Dibenzofuran (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Diethylphthalate (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Dimethylphthalate (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Fluoranthene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Fluorene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
Hexachlorobenzene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Hexachlorocyclopentadiene (ug/l)			49 U				61 U	48 U	47 U	
Hexachloroethane (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Indeno(1,2,3-cd)pyrene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Isophorone (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
N-Nitroso-di-n-propylamine (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
N-Nitrosodimethylamine (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
N-Nitrosodiphenylamine (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Nitrobenzene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Pentachlorophenol (ug/l)			49 U				61 U	48 U	47 U	
Phenanthrene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Phenol (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
Pyrene (ug/l)			9.7 U				12 U	9.6 U	9.4 U	
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (ug/l)			1 U				2.9 U	1 U	1.1 U	
4,4'-DDE (ug/l)			1 U				2.9 U	1 U	1.1 U	
4,4'-DDT (ug/l)			1 U				2.9 U	1 U	1.1 U	
Aldrin (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
alpha-BHC (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
Aroclor-1016 (ug/l)			5 U				15 U	5 U	5.4 U	
Aroclor-1221 (ug/l)			10 U				29 U	9.9 U	11 U	
Aroclor-1232 (ug/l)			5 U				15 U	5 U	5.4 U	
Aroclor-1242 (ug/l)			5 U				15 U	5 U	5.4 U	

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
Aroclor-1248 (ug/l)			5 U				15 U	5 U	5.4 U	
Aroclor-1254 (ug/l)			5 U				15 U	5 U	5.4 U	
Aroclor-1260 (ug/l)			5 U				15 U	5 U	5.4 U	
beta-BHC (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
Chlordane (ug/l)			5 U				15 U	5 U	5.4 U	
delta-BHC (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
Dieldrin (ug/l)			1 U				2.9 U	1 U	1.1 U	
Endosulfan I (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
Endosulfan II (ug/l)			1 U				2.9 U	1 U	1.1 U	
Endosulfan sulfate (ug/l)			1 U				2.9 U	1 U	1.1 U	
Endrin (ug/l)			1 U				2.9 U	1 U	1.1 U	
Endrin aldehyde (ug/l)			1 U				2.9 U	1 U	1.1 U	
gamma-BHC (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
Heptachlor (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
Heptachlor epoxide A (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
Heptachlor epoxide B (ug/l)			0.5 U				1.5 U	0.5 U	0.5 U	
Methoxychlor (ug/l)			5 U				15 U	5 U	5.4 U	
Toxaphene (ug/l)			10 U				29 U	9.9 U	11 U	
<b>6. Proprietary Pesticides</b>										
bensulide (ug/l)				32 U		5 U		5 U	5 U	32 U
Butylate (ug/l)				1 U		1 U		1 U	1 U	1 U
captan (ug/l)				25 U		25 U		25 U	25 U	25 U
carbophenothion (ug/l)				1 U		1 U		1 U	1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A04	A04	A04	A04	A04	A05	A05	A05	A05	A05
Sample ID	A04-12	H-53	H-53	H-61	H-61	A05-01	A05-01	A05-02	A05-03	H-62
Sample Date	10/8/99	8/25/99	8/26/99	10/18/99	10/19/99	8/25/99	8/27/99	8/24/99	8/25/99	10/18/99
Horizon				Upper	Upper					Upper
Cycloate (ug/l)				1 U		1 U		1 U	1 U	1 U
EPTC (ug/l)				1 U		<b>34</b>		1 U	<b>1</b>	1 U
flurochloridone (ug/l)				5 U		<b>10</b>		1 U	1 U	5 U
Fonofos (ug/l)				1 U		1 U		1 U	1 U	1 U
Metam sodium (ug/l)				<b>250</b>		<b>18</b>		9 U	9 U	9 U
Molinate (ug/l)				1 U		1 U		1 U	1 U	1 U
Napropamide (ug/l)				<b>2</b>		1 U		1 U	1 U	1 U
Pebulate (ug/l)				1 U		1 U		1 U	1 U	1 U
phosmet (ug/l)				5 U		5 U		5 U	5 U	5 U
R25788 (ug/l)				1 U		1 U		1 U	1 U	1 U
R29148 (ug/l)				1 U		1 U		1 U	1 U	1 U
Vernolate (ug/l)				1 U		1 U		1 U	1 U	1 U

**7. Field Measurements and Physical Properties**

Total Dissolved Solids (ug/l) **2910000**

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
<b>1. Metals</b>										
Antimony (ug/l)	60 U			60 U	60 U	60 U	60 U	60 U	60 U	60 U
Arsenic (ug/l)	5 U			5 U	5 U	<b>60</b>	<b>36</b>	5 U	5 U	5 U
Barium (ug/l)	<b>28</b>			<b>32</b>	<b>34</b>	<b>15</b>	<b>24</b>	<b>20</b>	<b>48</b>	<b>90</b>
Beryllium (ug/l)	2 U			2 U	<b>2.2</b>	2 U	2 U	2 U	<b>2.7</b>	2 U
Cadmium (ug/l)	<b>6</b>			5 U	<b>370</b>	<b>44</b>	5 U	5 U	<b>140</b>	<b>37</b>
Chromium (ug/l)	10 U			10 U	10 U	10 U	10 U	10 U	<b>11</b>	10 U
Cobalt (ug/l)	<b>75</b>			20 U	<b>710</b>	<b>330</b>	<b>43</b>	20 U	<b>1700</b>	<b>310</b>
Copper (ug/l)	<b>12</b>			10 U	<b>37000</b>	<b>2800</b>	10 U	10 U	<b>640</b>	<b>380</b>
Lead (ug/l)	3 U			3 U	<b>5.5</b>	<b>3.2</b>	<b>7</b>	3 U	<b>13</b>	<b>3.3</b>
Mercury (ug/l)	0.2 U			0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Molybdenum (ug/l)	20 U			20 U	20 U	20 U	20 U	20 U	20 U	20 U
Nickel (ug/l)	<b>190</b>			20 U	<b>1000</b>	<b>500</b>	<b>120</b>	<b>21</b>	<b>2900</b>	<b>490</b>
Selenium (ug/l)	<b>10</b>			<b>5.5</b>	<b>42</b>	<b>9.5</b>	<b>17</b>	<b>7.1</b>	<b>26</b>	5 U
Silver (ug/l)	5 U			5 U	5 U	5 U	5 U	5 U	<b>5.6</b>	5 U
Thallium (ug/l)	5 U			5 U	5 U	5 U	5 U	5 U	<b>91</b>	5 U
Vanadium (ug/l)	10 U			10 U	10 U	10 U	10 U	10 U	10 U	10 U
Zinc (ug/l)	<b>120</b>			<b>29</b>	<b>160000</b>	<b>22000</b>	<b>220</b>	<b>53</b>	<b>41000</b>	<b>19000</b>
<b>2. pH</b>										
pH (SU)	<b>6.3</b>	<b>6.66</b>			<b>3.75</b>	<b>7.79</b>	<b>5.48</b>	<b>6.5</b>	<b>4.57</b>	<b>6.23</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U



**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
1,1,1-Trichloroethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,1,2,2-Tetrachloroethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	<b>24</b>	10 U
1,1,2-Trichloroethane (ug/l)	1 U			0.5 U	0.5 U	<b>1.4</b>	5000 U	0.5 U	<b>0.7</b>	10 U
1,1-Dichloroethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,1-Dichloroethene (ug/l)	<b>4.1</b>			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,1-Dichloropropene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,2,3-Trichlorobenzene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,2,3-Trichloropropane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,2,4-Trichlorobenzene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,2,4-Trimethylbenzene (ug/l)	1 U			0.5 U	0.5 U	<b>1.4</b>	5000 U	0.5 U	0.5 U	10 U
1,2-Dibromo-3-Chloropropane (ug/l)	1 U			2 U	2 U	2.9 U	20000 U	2 U	2 U	10 U
1,2-Dibromoethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,2-Dichlorobenzene (ug/l)	1 U			0.5 U	0.5 U	<b>1.5</b>	5000 U	0.5 U	0.5 U	10 U
1,2-Dichloroethane (ug/l)	<b>45</b>			0.5 U	<b>1.9</b>	<b>75</b>	5000 U	<b>1.7</b>	<b>39</b>	<b>55</b>
1,2-Dichloropropane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,3,5-Trimethylbenzene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,3-Dichlorobenzene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,3-Dichloropropane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
1,4-Dichlorobenzene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
2,2-Dichloropropane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
2-Butanone (ug/l)	20 U			10 U	10 U	14 U	100000 U	10 U	10 U	200 U
2-Chloroethylvinylether (ug/l)	20 U									200 U
2-Chlorotoluene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
2-Hexanone (ug/l)	20 U			10 U	10 U	14 U	100000 U	10 U	10 U	200 U
4-Chlorotoluene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
4-Methyl-2-Pentanone (ug/l)	20 U			10 U	10 U	14 U	100000 U	10 U	10 U	200 U
Acetone (ug/l)	20 U			10 U	<b>11</b>	<b>16</b>	100000 U	<b>14</b>	10 U	200 U
Benzene (ug/l)	1 U			<b>0.8</b>	0.5 U	<b>5.7</b>	5000 U	0.5 U	<b>5.1</b>	<b>61</b>
Bromobenzene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Bromochloromethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Bromodichloromethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Bromoform (ug/l)	2 U			1 U	1 U	1.4 U	10000 U	1 U	1 U	20 U
Bromomethane (ug/l)	2 U			1 U	1 U	<b>1.7</b>	10000 U	1 U	1 U	20 U
Carbon Disulfide (ug/l)	<b>1.4</b>			2 U	2 U	2.9 U	<b>120000</b>	2 U	2 U	10 U
Carbon Tetrachloride (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Chlorobenzene (ug/l)	<b>87</b>			0.5 U	<b>30</b>	<b>200</b>	5000 U	0.5 U	<b>150</b>	<b>3100</b>
Chloroethane (ug/l)	2 U			1 U	1 U	1.4 U	10000 U	1 U	1 U	20 U
Chloroform (ug/l)	1 U			0.5 U	<b>2</b>	<b>5.9</b>	5000 U	0.5 U	<b>32</b>	10 U
Chloromethane (ug/l)	2 U			1 U	1 U	1.4 U	10000 U	1 U	1 U	20 U
cis-1,2-Dichloroethene (ug/l)	<b>5</b>			0.5 U	<b>6.1</b>	<b>11</b>	5000 U	<b>2.9</b>	<b>2.5</b>	<b>14</b>
cis-1,3-Dichloropropene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Dibromochloromethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Dibromomethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Ethylbenzene (ug/l)	1 U			0.5 U	0.5 U	<b>1.5</b>	5000 U	0.5 U	0.5 U	10 U
Freon 113 (ug/l)	10 U			5 U	5 U	7.1 U	50000 U	5 U	5 U	100 U
Freon 12 (ug/l)	2 U			1 U	1 U	1.4 U	10000 U	1 U	1 U	20 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
Hexachlorobutadiene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Isopropylbenzene (ug/l)	1 U			0.5 U	0.5 U	<b>5</b>	5000 U	0.5 U	0.5 U	10 U
m,p-Xylenes (ug/l)	1 U			0.5 U	0.5 U	<b>1.9</b>	5000 U	0.5 U	<b>0.5</b>	10 U
Methylene Chloride (ug/l)	10 U			10 U	10 U	14 U	100000 U	10 U	10 U	100 U
MTBE (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
n-Butylbenzene (ug/l)	1 U			0.5 U	0.5 U	<b>3.1</b>	5000 U	0.5 U	0.5 U	10 U
Naphthalene (ug/l)	1 U			0.5 U	0.5 U	<b>57</b>	5000 U	0.5 U	<b>0.8</b>	10 U
o-Xylene (ug/l)	1 U			0.5 U	0.5 U	<b>14</b>	5000 U	0.5 U	0.5 U	10 U
para-Isopropyl Toluene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Propylbenzene (ug/l)	1 U			0.5 U	0.5 U	<b>6.5</b>	5000 U	0.5 U	0.5 U	10 U
sec-Butylbenzene (ug/l)	1 U			0.5 U	0.5 U	<b>2.9</b>	5000 U	0.5 U	0.5 U	10 U
Styrene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
tert-Butylbenzene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Tetrachloroethene (ug/l)	<b>4.7</b>			0.5 U	0.5 U	<b>12</b>	5000 U	<b>5</b>	<b>69</b>	<b>15</b>
Toluene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
trans-1,2-Dichloroethene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
trans-1,3-Dichloropropene (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Trichloroethene (ug/l)	<b>220</b>			<b>8.5</b>	<b>110</b>	<b>49</b>	5000 U	<b>8.8</b>	<b>99</b>	<b>160</b>
Trichlorofluoromethane (ug/l)	1 U			0.5 U	0.5 U	0.7 U	5000 U	0.5 U	0.5 U	10 U
Vinyl Acetate (ug/l)	20 U			10 U	10 U	14 U	100000 U	10 U	10 U	200 U
Vinyl Chloride (ug/l)	<b>5.8</b>			0.5 U	0.5 U	<b>2.3</b>	5000 U	0.5 U	<b>2.4</b>	10 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
2,4,6-Trichlorophenol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
2,4-Dichlorophenol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
2,4-Dimethylphenol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
2,4-Dinitrophenol (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
2,4-Dinitrotoluene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
2,6-Dinitrotoluene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
2-Chloronaphthalene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
2-Chlorophenol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	<b>39</b>
2-Methylnaphthalene (ug/l)	11 U		9.7 U		9.6 U	<b>170</b>	9.7 U	10 U	11 U	9.5 U
2-Methylphenol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
2-Nitroaniline (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
2-Nitrophenol (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
3,3'-Dichlorobenzidine (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
3-,4-Methylphenol (ug/l)	11 U		9.7 U		9.6 U	<b>5.4 J</b>	9.7 U	10 U	11 U	9.5 U
3-Nitroaniline (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
4,6-Dinitro-2-methylphenol (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
4-Bromophenyl-phenylether (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
4-Chloro-3-methylphenol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
4-Chloroaniline (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
4-Chlorophenyl-phenylether (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
4-Nitroaniline (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
4-Nitrophenol (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
Acenaphthene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
Acenaphthylene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Anthracene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Azobenzene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Benzo(a)anthracene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Benzo(a)pyrene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Benzo(b,k)fluoranthene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Benzo(g,h,i)perylene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Benzoic acid (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
Benzyl alcohol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
bis(2-Chloroethoxy)methane (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
bis(2-Chloroethyl)ether (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
bis(2-Chloroisopropyl) ether (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
bis(2-Ethylhexyl)phthalate (ug/l)	11 U		9.7 U		9.6 U	9.5 U	<b>160</b>	<b>15</b>	11 U	9.5 U
Butylbenzylphthalate (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Chrysene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Di-n-butylphthalate (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Di-n-octylphthalate (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Dibenz(a,h)anthracene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Dibenzofuran (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Diethylphthalate (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Dimethylphthalate (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Fluoranthene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	<b>7.2 J</b>	10 U	11 U	9.5 U
Fluorene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
Hexachlorobenzene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Hexachlorocyclopentadiene (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
Hexachloroethane (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Indeno(1,2,3-cd)pyrene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Isophorone (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
N-Nitroso-di-n-propylamine (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
N-Nitrosodimethylamine (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
N-Nitrosodiphenylamine (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Nitrobenzene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Pentachlorophenol (ug/l)	53 U		49 U		48 U	48 U	49 U	52 U	53 U	48 U
Phenanthrene (ug/l)	11 U		9.7 U		9.6 U	<b>15</b>	<b>14</b>	10 U	11 U	9.5 U
Phenol (ug/l)	11 U		9.7 U		9.6 U	9.5 U	9.7 U	10 U	11 U	9.5 U
Pyrene (ug/l)	11 U		9.7 U		9.6 U	9.5 U	<b>5.3 J</b>	10 U	11 U	9.5 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (ug/l)			1 U		<b>0.2</b>	0.9 U	1 U	1 U	1 U	0.9 U
4,4'-DDE (ug/l)			1 U		0.09 U	0.9 U	1 U	1 U	1 U	0.9 U
4,4'-DDT (ug/l)			1 U		0.09 U	0.9 U	1 U	1 U	1 U	0.9 U
Aldrin (ug/l)			0.5 U		0.05 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
alpha-BHC (ug/l)			0.5 U		<b>0.1</b>	0.5 U	0.5 U	0.5 U	0.5 U	<b>1.8</b>
Aroclor-1016 (ug/l)			5 U		0.5 U	4.7 U	4.8 U	5.2 U	5 U	4.7 U
Aroclor-1221 (ug/l)			9.9 U		0.9 U	9.4 U	9.6 U	10 U	9.9 U	9.4 U
Aroclor-1232 (ug/l)			5 U		0.5 U	4.7 U	4.8 U	5.2 U	5 U	4.7 U
Aroclor-1242 (ug/l)			5 U		0.5 U	4.7 U	4.8 U	5.2 U	5 U	4.7 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
Aroclor-1248 (ug/l)			5 U		0.5 U	4.7 U	4.8 U	5.2 U	5 U	4.7 U
Aroclor-1254 (ug/l)			5 U		0.5 U	4.7 U	4.8 U	5.2 U	5 U	4.7 U
Aroclor-1260 (ug/l)			5 U		0.5 U	4.7 U	4.8 U	5.2 U	5 U	4.7 U
beta-BHC (ug/l)			0.5 U		<b>0.04 J</b>	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlordane (ug/l)			5 U		0.5 U	4.7 U	4.8 U	5.2 U	5 U	4.7 U
delta-BHC (ug/l)			0.5 U		<b>0.04 J</b>	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dieldrin (ug/l)			1 U		0.09 U	0.9 U	1 U	1 U	1 U	0.9 U
Endosulfan I (ug/l)			0.5 U		0.05 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Endosulfan II (ug/l)			1 U		0.09 U	0.9 U	1 U	1 U	1 U	0.9 U
Endosulfan sulfate (ug/l)			1 U		0.09 U	0.9 U	1 U	1 U	1 U	0.9 U
Endrin (ug/l)			1 U		<b>0.08 J</b>	0.9 U	1 U	1 U	1 U	0.9 U
Endrin aldehyde (ug/l)			1 U		0.09 U	0.9 U	1 U	1 U	1 U	0.9 U
gamma-BHC (ug/l)			0.5 U		<b>0.04 J</b>	0.5 U	0.5 U	0.5 U	0.5 U	<b>0.5</b>
Heptachlor (ug/l)			0.5 U		<b>0.03 J</b>	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Heptachlor epoxide A (ug/l)			0.5 U		<b>0.04 J</b>	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Heptachlor epoxide B (ug/l)			0.5 U		<b>0.06</b>	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methoxychlor (ug/l)			5 U		0.5 U	4.7 U	4.8 U	5.2 U	5 U	4.7 U
Toxaphene (ug/l)			9.9 U		0.9 U	9.4 U	9.6 U	10 U	9.9 U	9.4 U
<b>6. Proprietary Pesticides</b>										
bensulide (ug/l)		5 U			5 U	5 U	5 U	5 U	5 U	6 U
Butylate (ug/l)		1 U			1 U	1 U	1 U	1 U	1 U	1 U
captan (ug/l)		25 U			25 U	25 U	25 U	25 U	25 U	5 U
carbophenothion (ug/l)		1 U			<b>3</b>	1 U	1 U	1 U	1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A05	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	H-62	A06-01	A06-01	A06-01	A06-02	A06-03	A06-04	A06-05	A06-06	A06-11
Sample Date	10/19/99	8/23/99	8/24/99	8/25/99	8/23/99	8/23/99	8/24/99	8/25/99	8/27/99	9/3/99
Horizon	Upper									
Cycloate (ug/l)		1 U			1 U	1 U	1 U	1 U	1 U	1 U
EPTC (ug/l)		1 U			<b>43</b>	1 U	1 U	1 U	1 U	<b>11</b>
flurochloridone (ug/l)		1 U			<b>2</b>	1 U	1 U	1 U	1 U	1 U
Fonofos (ug/l)		1 U			1 U	1 U	1 U	1 U	1 U	1 U
Metam sodium (ug/l)		9 U			9 U	44 U	<b>18</b>	9 U	<b>15</b>	
Molinate (ug/l)		<b>1</b>			<b>3</b>	1 U	<b>5</b>	1 U	1 U	<b>1</b>
Napropamide (ug/l)		1 U			<b>28</b>	<b>2</b>	1 U	1 U	1 U	1 U
Pebulate (ug/l)		1 U			1 U	1 U	1 U	1 U	1 U	1 U
phosmet (ug/l)		5 U			5 U	5 U	5 U	5 U	5 U	5 U
R25788 (ug/l)		1 U			1 U	1 U	1 U	1 U	1 U	1 U
R29148 (ug/l)		1 U			1 U	1 U	1 U	1 U	1 U	1 U
Vernolate (ug/l)		1 U			1 U	1 U	1 U	1 U	1 U	1 U

**7. Field Measurements and Physical Properties**

Total Dissolved Solids (ug/l)      **5880000**



**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
<b>1. Metals</b>										
Antimony (ug/l)	60 U	60 U	60 U		60 U	60 U		60 U		60 U
Arsenic (ug/l)	<b>18</b>	5 U	5 U		5 U	<b>25</b>		<b>30</b>		5 U
Barium (ug/l)	<b>36</b>	<b>110</b>	<b>120</b>		<b>30</b>	<b>27</b>		<b>20</b>		<b>23</b>
Beryllium (ug/l)	2 U	2 U	2 U		2 U	<b>57</b>		2 U		2 U
Cadmium (ug/l)	5 U	<b>21</b>	5 U		<b>9</b>	<b>470</b>		5 U		5 U
Chromium (ug/l)	10 U	10 U	10 U		10 U	<b>54</b>		<b>20</b>		10 U
Cobalt (ug/l)	<b>150</b>	20 U	20 U		20 U	<b>4200</b>		<b>64</b>		20 U
Copper (ug/l)	10 U	<b>190</b>	10 U		10 U	<b>380000</b>		10 U		10 U
Lead (ug/l)	<b>4.4</b>	3 U	3 U		3 U	<b>35</b>		<b>4.3</b>		3 U
Mercury (ug/l)	0.2 U	0.2 U	0.2 U		0.2 U	<b>8.7</b>		0.2 U		0.2 U
Molybdenum (ug/l)	20 U	20 U	20 U		20 U	20 U		20 U		20 U
Nickel (ug/l)	<b>290</b>	<b>540</b>	20 U		20 U	<b>5400</b>		<b>190</b>		20 U
Selenium (ug/l)	<b>5.6</b>	5 U	<b>5.2</b>		5 U	<b>12</b>		<b>13</b>		5 U
Silver (ug/l)	5 U	5 U	5 U		5 U	5 U		5 U		5 U
Thallium (ug/l)	5 U	5 U	5 U		5 U	<b>130</b>		5 U		5 U
Vanadium (ug/l)	10 U	10 U	10 U		10 U	<b>180</b>		10 U		10 U
Zinc (ug/l)	<b>1100</b>	<b>6500</b>	20 U		<b>68</b>	<b>240000</b>		<b>500</b>		20 U
<b>2. pH</b>										
pH (SU)	<b>5.75</b>	<b>5.74</b>	<b>6.91</b>	<b>6.91</b>	<b>6.73</b>	<b>2.86</b>	<b>5.68</b>	<b>6.6</b>	<b>7.09</b>	<b>7.2</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
1,1,1-Trichloroethane (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
1,1,2,2-Tetrachloroethane (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
1,1,2-Trichloroethane (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
1,1-Dichloroethane (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
1,1-Dichloroethene (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
1,1-Dichloropropene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
1,2,3-Trichlorobenzene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
1,2,3-Trichloropropane (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
1,2,4-Trichlorobenzene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
1,2,4-Trimethylbenzene (ug/l)	0.5 U	0.5 U			0.8 U	<b>50</b>		5000 U		0.5 U
1,2-Dibromo-3-Chloropropane (ug/l)	0.5 U	0.5 U			3.3 U	5 U		5000 U		0.5 U
1,2-Dibromoethane (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
1,2-Dichlorobenzene (ug/l)	0.5 U	0.5 U	<b>2100</b>		<b>4.9</b>	5 U		5000 U		0.5 U
1,2-Dichloroethane (ug/l)	0.5 U	0.5 U	<b>170</b>		<b>69</b>	<b>7.8</b>		5000 U		0.5 U
1,2-Dichloropropane (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
1,3,5-Trimethylbenzene (ug/l)	0.5 U	0.5 U			0.8 U	<b>13</b>		5000 U		0.5 U
1,3-Dichlorobenzene (ug/l)	0.5 U	0.5 U	<b>7</b>		0.8 U	5 U		5000 U		0.5 U
1,3-Dichloropropane (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
1,4-Dichlorobenzene (ug/l)	0.5 U	0.5 U	<b>34</b>		<b>0.9</b>	<b>5.7</b>		5000 U		0.5 U
2,2-Dichloropropane (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
2-Butanone (ug/l)	10 U	10 U			17 U	100 U		100000 U		10 U
2-Chloroethylvinylether (ug/l)	10 U	10 U				100 U		100000 U		10 U
2-Chlorotoluene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
2-Hexanone (ug/l)	10 U	10 U			17 U	100 U		100000 U		10 U
4-Chlorotoluene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
4-Methyl-2-Pentanone (ug/l)	10 U	10 U			17 U	100 U		100000 U		10 U
Acetone (ug/l)	10 U	<b>12</b>			17 U	<b>170</b>		100000 U		10 U
Benzene (ug/l)	0.5 U	<b>1.4</b>	<b>39</b>		0.8 U	<b>310</b>		5000 U		0.5 U
Bromobenzene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
Bromochloromethane (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
Bromodichloromethane (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
Bromoform (ug/l)	1 U	1 U	6.3 U		1.7 U	10 U		10000 U		1 U
Bromomethane (ug/l)	1 U	1 U	13 U		1.7 U	10 U		10000 U		1 U
Carbon Disulfide (ug/l)	0.5 U	0.5 U	6.3 U		3.3 U	<b>5.6</b>		<b>1800000</b>		0.5 U
Carbon Tetrachloride (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
Chlorobenzene (ug/l)	0.5 U	<b>15</b>	<b>530</b>		<b>16</b>	<b>1300</b>		5000 U		0.5 U
Chloroethane (ug/l)	1 U	1 U	13 U		1.7 U	10 U		10000 U		1 U
Chloroform (ug/l)	0.5 U	<b>1.1</b>	6.3 U		0.8 U	5 U		5000 U		0.5 U
Chloromethane (ug/l)	1 U	1 U	13 U		1.7 U	10 U		10000 U		1 U
cis-1,2-Dichloroethene (ug/l)	0.5 U	<b>0.6</b>	<b>310</b>		<b>29</b>	5 U		5000 U		0.5 U
cis-1,3-Dichloropropene (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
Dibromochloromethane (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
Dibromomethane (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
Ethylbenzene (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	<b>60</b>		5000 U		0.5 U
Freon 113 (ug/l)	5 U	5 U	63 U		8.3 U	50 U		50000 U		5 U
Freon 12 (ug/l)	1 U	1 U	25 U		1.7 U	10 U		10000 U		1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
Hexachlorobutadiene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
Isopropylbenzene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
m,p-Xylenes (ug/l)	0.5 U	<b>0.9</b>	6.3 U		0.8 U	<b>200</b>		5000 U		0.5 U
Methylene Chloride (ug/l)	5 U	5 U	63 U		17 U	50 U		50000 U		5 U
MTBE (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
n-Butylbenzene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
Naphthalene (ug/l)	0.5 U	0.5 U			0.8 U	<b>17</b>		5000 U		0.5 U
o-Xylene (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	<b>91</b>		5000 U		0.5 U
para-Isopropyl Toluene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
Propylbenzene (ug/l)	0.5 U	0.5 U			0.8 U	<b>7.2</b>		5000 U		0.5 U
sec-Butylbenzene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
Styrene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
tert-Butylbenzene (ug/l)	0.5 U	0.5 U			0.8 U	5 U		5000 U		0.5 U
Tetrachloroethene (ug/l)	0.5 U	<b>36</b>	<b>22</b>		<b>16</b>	<b>47</b>		5000 U		0.5 U
Toluene (ug/l)	0.5 U	<b>1.1</b>	6.3 U		0.8 U	<b>410</b>		5000 U		0.5 U
trans-1,2-Dichloroethene (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
trans-1,3-Dichloropropene (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
Trichloroethene (ug/l)	0.5 U	<b>2.1</b>	<b>140</b>		<b>240</b>	<b>6.5</b>		5000 U		0.5 U
Trichlorofluoromethane (ug/l)	0.5 U	0.5 U	6.3 U		0.8 U	5 U		5000 U		0.5 U
Vinyl Acetate (ug/l)	10 U	10 U			17 U	100 U		100000 U		10 U
Vinyl Chloride (ug/l)	0.5 U	0.5 U	<b>54</b>		<b>3.8</b>	5 U		5000 U		0.5 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
2,4,6-Trichlorophenol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
2,4-Dichlorophenol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
2,4-Dimethylphenol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
2,4-Dinitrophenol (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
2,4-Dinitrotoluene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
2,6-Dinitrotoluene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
2-Chloronaphthalene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
2-Chlorophenol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
2-Methylnaphthalene (ug/l)	9.4 U	9.5 U	110 U		11 U	<b>6.2 J</b>		11 U		
2-Methylphenol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
2-Nitroaniline (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
2-Nitrophenol (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
3,3'-Dichlorobenzidine (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
3-,4-Methylphenol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		<b>6.4 J</b>		
3-Nitroaniline (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
4,6-Dinitro-2-methylphenol (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
4-Bromophenyl-phenylether (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
4-Chloro-3-methylphenol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
4-Chloroaniline (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
4-Chlorophenyl-phenylether (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
4-Nitroaniline (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
4-Nitrophenol (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
Acenaphthene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
Acenaphthylene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Anthracene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Azobenzene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Benzo(a)anthracene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Benzo(a)pyrene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Benzo(b,k)fluoranthene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Benzo(g,h,i)perylene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Benzoic acid (ug/l)	47 U	48 U	530 U		54 U	<b>66</b>		55 U		
Benzyl alcohol (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
bis(2-Chloroethoxy)methane (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
bis(2-Chloroethyl)ether (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
bis(2-Chloroisopropyl) ether (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
bis(2-Ethylhexyl)phthalate (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		<b>47</b>		
Butylbenzylphthalate (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Chrysene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Di-n-butylphthalate (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Di-n-octylphthalate (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Dibenz(a,h)anthracene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Dibenzofuran (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Diethylphthalate (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Dimethylphthalate (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Fluoranthene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Fluorene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
Hexachlorobenzene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Hexachlorocyclopentadiene (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
Hexachloroethane (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Indeno(1,2,3-cd)pyrene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Isophorone (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
N-Nitroso-di-n-propylamine (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
N-Nitrosodimethylamine (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
N-Nitrosodiphenylamine (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Nitrobenzene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Pentachlorophenol (ug/l)	47 U	48 U	530 U		54 U	52 U		55 U		
Phenanthrene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
Phenol (ug/l)	9.4 U	9.5 U	110 U		11 U	<b>15</b>		11 U		
Pyrene (ug/l)	9.4 U	9.5 U	110 U		11 U	10 U		11 U		
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (ug/l)	0.1 U	0.1 U	0.1 U		1 U					
4,4'-DDE (ug/l)	0.1 U	0.1 U	0.1 U		1 U					
4,4'-DDT (ug/l)	0.1 U	<b>0.1</b>	0.1 U		1 U					
Aldrin (ug/l)	0.05 U	0.05 U	0.1 U		0.5 U					
alpha-BHC (ug/l)	0.05 U	<b>0.08</b>	0.1 U		0.5 U					
Aroclor-1016 (ug/l)	0.5 U	0.5 U	1 U		5.2 U					
Aroclor-1221 (ug/l)	1 U	1 U	1 U		10 U					
Aroclor-1232 (ug/l)	0.5 U	0.5 U	1 U		5.2 U					
Aroclor-1242 (ug/l)	0.5 U	0.5 U	1 U		5.2 U					

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
Aroclor-1248 (ug/l)	0.5 U	0.5 U	1 U		5.2 U					
Aroclor-1254 (ug/l)	0.5 U	0.5 U	1 U		5.2 U					
Aroclor-1260 (ug/l)	0.5 U	0.5 U	1 U		5.2 U					
Aroclor-1262 (ug/l)			1 U							
beta-BHC (ug/l)	0.05 U	0.05 U	0.1 U		0.5 U					
Chlordane (ug/l)	0.5 U	0.5 U	1 U		5.2 U					
delta-BHC (ug/l)	0.05 U	<b>0.04 J</b>	0.1 U		0.5 U					
Dieldrin (ug/l)	0.1 U	0.1 U	0.1 U		1 U					
Endosulfan I (ug/l)	0.05 U	0.05 U	0.1 U		0.5 U					
Endosulfan II (ug/l)	0.1 U	0.1 U	0.1 U		1 U					
Endosulfan sulfate (ug/l)	0.1 U	0.1 U	0.1 U		1 U					
Endrin (ug/l)	0.1 U	0.1 U	0.1 U		1 U					
Endrin aldehyde (ug/l)	0.1 U	0.1 U	0.1 U		1 U					
gamma-BHC (ug/l)	0.05 U	0.05 U	0.1 U		0.5 U					
Heptachlor (ug/l)	0.05 U	0.05 U	0.1 U		0.5 U					
Heptachlor Epoxide (ug/l)			0.1 U							
Heptachlor epoxide A (ug/l)	0.05 U	0.05 U			0.5 U					
Heptachlor epoxide B (ug/l)	0.05 U	0.05 U			0.5 U					
Methoxychlor (ug/l)	0.5 U	0.5 U	0.1 U		5.2 U					
Toxaphene (ug/l)	1 U	1 U	1 U		10 U					
<b>6. Proprietary Pesticides</b>										
bensulide (ug/l)	6 U	6 U	5 U			32 U	32 U			
Butylate (ug/l)	1 U	1 U	8			1 U	1 U			



**Table 3d Plant Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06	A06	A06	A06	A06	A06	A06	A06	A06
Sample ID	A06-12	A06-13	H-34	H-34	H-54	H-63	H-64	H-64	H-68	H-68
Sample Date	9/3/99	9/7/99	10/6/99	10/7/99	8/26/99	10/19/99	10/15/99	10/18/99	10/19/99	10/22/99
Horizon			Upper	Upper		Upper	Upper	Upper	Upper	Upper
captan (ug/l)	5 U	<b>5</b>	25 U			5 U	25 U			
carbophenothion (ug/l)	1 U	1 U	1 U			1 U	1 U			
Cycloate (ug/l)	1 U	1 U	<b>8</b>			1 U	1 U			
EPTC (ug/l)	1 U	1 U	<b>21</b>			1 U	<b>8</b>			
flurochloridone (ug/l)	1 U	1 U	5 U			5 U	5 U			
Fonofos (ug/l)	1 U	1 U	1 U			1 U	1 U			
Metam sodium (ug/l)			9 U			<b>5400</b>	<b>110</b>			
Molinate (ug/l)	<b>2</b>	<b>7</b>	<b>39</b>			1 U	1 U			
Napropamide (ug/l)	1 U	1 U	<b>600</b>			1 U	1 U			
Pebulate (ug/l)	1 U	1 U	<b>1</b>			1 U	1 U			
phosmet (ug/l)	5 U	5 U	5 U			5 U	5 U			
R25788 (ug/l)	1 U	1 U	1 U			1 U	1 U			
R29148 (ug/l)	1 U	1 U	<b>2</b>			1 U	1 U			
Vernolate (ug/l)	1 U	1 U	1 U			1 U	1 U			
<b>7. Field Measurements and Physical Properties</b>										
Total Dissolved Solids (ug/l)						<b>13500000</b>	<b>6340000</b>		<b>1640000</b>	

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower

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**1. Metals**

Antimony (ug/l)	60 U	60 U
Arsenic (ug/l)	5 U	5 U
Barium (ug/l)	<b>110</b>	<b>28</b>
Beryllium (ug/l)	2 U	2 U
Cadmium (ug/l)	5 U	5 U
Chromium (ug/l)	10 U	10 U
Cobalt (ug/l)	20 U	20 U
Copper (ug/l)	10 U	10 U
Lead (ug/l)	3 U	3 U
Mercury (ug/l)	0.2 U	0.2 U
Molybdenum (ug/l)	20 U	20 U
Nickel (ug/l)	20 U	20 U
Selenium (ug/l)	5 U	5 U
Silver (ug/l)	5 U	5 U
Thallium (ug/l)	5 U	5 U
Vanadium (ug/l)	10 U	10 U
Zinc (ug/l)	20 U	<b>79</b>

**2. pH**

pH (SU)	<b>7.35</b>	<b>7.3</b>
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**3. VOCs**

1,1,1,2-Tetrachloroethane (ug/l)	0.5 U	0.5 U
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**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower
1,1,1-Trichloroethane (ug/l)	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane (ug/l)	0.5 U	0.5 U
1,1,2-Trichloroethane (ug/l)	0.5 U	0.5 U
1,1-Dichloroethane (ug/l)	0.5 U	0.5 U
1,1-Dichloroethene (ug/l)	0.5 U	0.5 U
1,1-Dichloropropene (ug/l)	0.5 U	0.5 U
1,2,3-Trichlorobenzene (ug/l)	0.5 U	0.5 U
1,2,3-Trichloropropane (ug/l)	0.5 U	0.5 U
1,2,4-Trichlorobenzene (ug/l)	0.5 U	0.5 U
1,2,4-Trimethylbenzene (ug/l)	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane (ug/l)	0.5 U	0.5 U
1,2-Dibromoethane (ug/l)	0.5 U	0.5 U
1,2-Dichlorobenzene (ug/l)	0.5 U	0.5 U
1,2-Dichloroethane (ug/l)	0.5 U	0.5 U
1,2-Dichloropropane (ug/l)	0.5 U	0.5 U
1,3,5-Trimethylbenzene (ug/l)	0.5 U	0.5 U
1,3-Dichlorobenzene (ug/l)	0.5 U	0.5 U
1,3-Dichloropropane (ug/l)	0.5 U	0.5 U
1,4-Dichlorobenzene (ug/l)	0.5 U	0.5 U
2,2-Dichloropropane (ug/l)	0.5 U	0.5 U
2-Butanone (ug/l)	10 U	10 U
2-Chloroethylvinylether (ug/l)	10 U	10 U
2-Chlorotoluene (ug/l)	0.5 U	0.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower
<hr/>		
2-Hexanone (ug/l)	10 U	10 U
4-Chlorotoluene (ug/l)	0.5 U	0.5 U
4-Methyl-2-Pentanone (ug/l)	10 U	10 U
Acetone (ug/l)	10 U	10 U
Benzene (ug/l)	0.5 U	0.5 U
Bromobenzene (ug/l)	0.5 U	0.5 U
Bromochloromethane (ug/l)	0.5 U	0.5 U
Bromodichloromethane (ug/l)	0.5 U	0.5 U
Bromoform (ug/l)	1 U	1 U
Bromomethane (ug/l)	1 U	1 U
Carbon Disulfide (ug/l)	0.5 U	0.5 U
Carbon Tetrachloride (ug/l)	0.5 U	0.5 U
Chlorobenzene (ug/l)	0.5 U	0.5 U
Chloroethane (ug/l)	1 U	1 U
Chloroform (ug/l)	0.5 U	0.5 U
Chloromethane (ug/l)	1 U	1 U
cis-1,2-Dichloroethene (ug/l)	0.5 U	0.5 U
cis-1,3-Dichloropropene (ug/l)	0.5 U	0.5 U
Dibromochloromethane (ug/l)	0.5 U	0.5 U
Dibromomethane (ug/l)	0.5 U	0.5 U
Ethylbenzene (ug/l)	0.5 U	0.5 U
Freon 113 (ug/l)	5 U	5 U
Freon 12 (ug/l)	1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower

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Hexachlorobutadiene (ug/l)	0.5 U	0.5 U
Isopropylbenzene (ug/l)	0.5 U	0.5 U
m,p-Xylenes (ug/l)	0.5 U	0.5 U
Methylene Chloride (ug/l)	5 U	5 U
MTBE (ug/l)	0.5 U	0.5 U
n-Butylbenzene (ug/l)	0.5 U	0.5 U
Naphthalene (ug/l)	0.5 U	0.5 U
o-Xylene (ug/l)	0.5 U	0.5 U
para-Isopropyl Toluene (ug/l)	0.5 U	0.5 U
Propylbenzene (ug/l)	0.5 U	0.5 U
sec-Butylbenzene (ug/l)	0.5 U	0.5 U
Styrene (ug/l)	0.5 U	0.5 U
tert-Butylbenzene (ug/l)	0.5 U	0.5 U
Tetrachloroethene (ug/l)	0.5 U	0.5 U
Toluene (ug/l)	0.5 U	0.5 U
trans-1,2-Dichloroethene (ug/l)	0.5 U	0.5 U
trans-1,3-Dichloropropene (ug/l)	0.5 U	0.5 U
Trichloroethene (ug/l)	0.5 U	0.5 U
Trichlorofluoromethane (ug/l)	0.5 U	0.5 U
Vinyl Acetate (ug/l)	10 U	10 U
Vinyl Chloride (ug/l)	0.5 U	0.5 U

**4. Semivolatiles**

2,4,5-Trichlorophenol (ug/l)	10 U	9.5 U
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**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower
<hr/>		
2,4,6-Trichlorophenol (ug/l)	10 U	9.5 U
2,4-Dichlorophenol (ug/l)	10 U	9.5 U
2,4-Dimethylphenol (ug/l)	10 U	9.5 U
2,4-Dinitrophenol (ug/l)	51 U	48 U
2,4-Dinitrotoluene (ug/l)	10 U	9.5 U
2,6-Dinitrotoluene (ug/l)	10 U	9.5 U
2-Chloronaphthalene (ug/l)	10 U	9.5 U
2-Chlorophenol (ug/l)	10 U	9.5 U
2-Methylnaphthalene (ug/l)	10 U	9.5 U
2-Methylphenol (ug/l)	10 U	9.5 U
2-Nitroaniline (ug/l)	51 U	48 U
2-Nitrophenol (ug/l)	51 U	48 U
3,3'-Dichlorobenzidine (ug/l)	51 U	48 U
3-,4-Methylphenol (ug/l)	10 U	9.5 U
3-Nitroaniline (ug/l)	51 U	48 U
4,6-Dinitro-2-methylphenol (ug/l)	51 U	48 U
4-Bromophenyl-phenylether (ug/l)	10 U	9.5 U
4-Chloro-3-methylphenol (ug/l)	10 U	9.5 U
4-Chloroaniline (ug/l)	10 U	9.5 U
4-Chlorophenyl-phenylether (ug/l)	10 U	9.5 U
4-Nitroaniline (ug/l)	51 U	48 U
4-Nitrophenol (ug/l)	51 U	48 U
Acenaphthene (ug/l)	10 U	9.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower

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Acenaphthylene (ug/l)	10 U	9.5 U
Anthracene (ug/l)	10 U	9.5 U
Azobenzene (ug/l)	10 U	9.5 U
Benzo(a)anthracene (ug/l)	10 U	9.5 U
Benzo(a)pyrene (ug/l)	10 U	9.5 U
Benzo(b,k)fluoranthene (ug/l)	10 U	9.5 U
Benzo(g,h,i)perylene (ug/l)	10 U	9.5 U
Benzoic acid (ug/l)	51 U	48 U
Benzyl alcohol (ug/l)	10 U	9.5 U
bis(2-Chloroethoxy)methane (ug/l)	10 U	9.5 U
bis(2-Chloroethyl)ether (ug/l)	10 U	9.5 U
bis(2-Chloroisopropyl) ether (ug/l)	10 U	9.5 U
bis(2-Ethylhexyl)phthalate (ug/l)	10 U	9.5 U
Butylbenzylphthalate (ug/l)	10 U	9.5 U
Chrysene (ug/l)	10 U	9.5 U
Di-n-butylphthalate (ug/l)	10 U	9.5 U
Di-n-octylphthalate (ug/l)	10 U	9.5 U
Dibenz(a,h)anthracene (ug/l)	10 U	9.5 U
Dibenzofuran (ug/l)	10 U	9.5 U
Diethylphthalate (ug/l)	10 U	9.5 U
Dimethylphthalate (ug/l)	10 U	9.5 U
Fluoranthene (ug/l)	10 U	9.5 U
Fluorene (ug/l)	10 U	9.5 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower

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Hexachlorobenzene (ug/l)	10 U	9.5 U
Hexachlorocyclopentadiene (ug/l)	51 U	48 U
Hexachloroethane (ug/l)	10 U	9.5 U
Indeno(1,2,3-cd)pyrene (ug/l)	10 U	9.5 U
Isophorone (ug/l)	10 U	9.5 U
N-Nitroso-di-n-propylamine (ug/l)	10 U	9.5 U
N-Nitrosodimethylamine (ug/l)	10 U	9.5 U
N-Nitrosodiphenylamine (ug/l)	10 U	9.5 U
Nitrobenzene (ug/l)	10 U	9.5 U
Pentachlorophenol (ug/l)	51 U	48 U
Phenanthrene (ug/l)	10 U	9.5 U
Phenol (ug/l)	10 U	9.5 U
Pyrene (ug/l)	10 U	9.5 U

**5. Pesticides/PCBs**

4,4'-DDD (ug/l)	0.1 U	0.1 U
4,4'-DDE (ug/l)	0.1 U	0.1 U
4,4'-DDT (ug/l)	0.1 U	0.1 U
Aldrin (ug/l)	0.1 U	0.1 U
Alpha-BHC (ug/l)	0.1 U	0.1 U
Aroclor-1016 (ug/l)	1 U	1 U
Aroclor-1221 (ug/l)	1 U	1 U
Aroclor-1232 (ug/l)	1 U	1 U
Aroclor-1242 (ug/l)	1 U	1 U



**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower

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Aroclor-1248 (ug/l)	1 U	1 U
Aroclor-1254 (ug/l)	1 U	1 U
Aroclor-1260 (ug/l)	1 U	1 U
Aroclor-1262 (ug/l)	1 U	1 U
Beta-BHC (ug/l)	0.1 U	0.1 U
Chlordane (ug/l)	1 U	1 U
Delta-BHC (ug/l)	0.1 U	0.1 U
Dieldrin (ug/l)	0.1 U	0.1 U
Endosulfan I (ug/l)	0.1 U	0.1 U
Endosulfan II (ug/l)	0.1 U	0.1 U
Endosulfan Sulfate (ug/l)	0.1 U	0.1 U
Endrin (ug/l)	0.1 U	0.1 U
Endrin Aldehyde (ug/l)	0.1 U	0.1 U
Gamma-BHC (ug/l)	0.1 U	0.1 U
Heptachlor (ug/l)	0.1 U	0.1 U
Heptachlor Epoxide (ug/l)	0.1 U	0.1 U
Methoxychlor (ug/l)	0.1 U	0.1 U
Toxaphene (ug/l)	1 U	1 U

**6. Proprietary Pesticides**

bensulide (ug/l)	32 U	32 U
Butylate (ug/l)	1 U	1 U
captan (ug/l)	5 U	5 U
carbophenothion (ug/l)	1 U	1 U

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower

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Cycloate (ug/l)	1 U	1 U
EPTC (ug/l)	1 U	1 U
flurochloridone (ug/l)	5 U	5 U
Fonofos (ug/l)	1 U	1 U
Molinate (ug/l)	1 U	1 U
Napropamide (ug/l)	1 U	1 U
Pebulate (ug/l)	1 U	1 U
phosmet (ug/l)	5 U	5 U
R25788 (ug/l)	1 U	1 U
R29148 (ug/l)	1 U	1 U
Vernolate (ug/l)	1 U	1 U

**7. Field Measurements and Physical Properties**

Total Dissolved Solids (ug/l) **3960000**

**Table 3d Plant Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	A06	A06
Sample ID	H-72	H-74
Sample Date	11/5/99	11/5/99
Horizon	Lower	Lower

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**Notes**

Bolded values indicate detected compounds.

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

U = Not detected. Result shown is the detection limit.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	3 U	<b>3.8</b>	2.9 U	2.9 U	2.9 U	3 U	2.9 U	3 U	2.9 U	3 U
Arsenic (mg/kg)	<b>6.3</b>	<b>17</b>	<b>8.9</b>	<b>9.7</b>	<b>10</b>	<b>10</b>	<b>13</b>	<b>4.2</b>	<b>440</b>	<b>4.1</b>
Barium (mg/kg)	<b>11</b>	<b>60</b>	<b>16</b>	<b>21</b>	<b>21</b>	<b>33</b>	<b>28</b>	<b>99</b>	<b>350</b>	<b>160</b>
Beryllium (mg/kg)	0.1 U	0.098 U	0.098 U	0.098 U	0.098 U	0.1 U	0.097 U	<b>0.21</b>	<b>0.32</b>	<b>0.47</b>
Cadmium (mg/kg)	<b>2.3</b>	<b>5.2</b>	<b>2.2</b>	<b>2.3</b>	<b>2.1</b>	<b>2</b>	<b>2.9</b>	0.25 U	<b>5</b>	0.25 U
Chromium (mg/kg)	<b>13</b>	<b>46</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>19</b>	<b>17</b>	<b>21</b>	<b>45</b>	<b>31</b>
Cobalt (mg/kg)	<b>4.5</b>	<b>9</b>	<b>4.3</b>	<b>5.9</b>	<b>5</b>	<b>5.6</b>	<b>6.4</b>	<b>6.5</b>	<b>7.8</b>	<b>9.5</b>
Copper (mg/kg)	<b>360</b>	<b>1300</b>	<b>280</b>	<b>170</b>	<b>190</b>	<b>190</b>	<b>200</b>	<b>46</b>	<b>830</b>	<b>38</b>
Lead (mg/kg)	<b>27</b>	<b>310</b>	<b>34</b>	<b>31</b>	<b>36</b>	<b>40</b>	<b>44</b>	<b>11</b>	<b>400</b>	<b>5.4</b>
Mercury (mg/kg)	<b>0.69</b>	<b>3.2</b>	<b>0.9</b>	<b>0.78</b>	<b>1.1</b>	<b>1.3</b>	<b>1.3</b>	<b>0.26</b>	<b>1.6</b>	<b>0.37</b>
Molybdenum (mg/kg)	1 U	<b>11</b>	<b>1.1</b>	0.98 U	0.98 U	<b>1.1</b>	0.97 U	1 U	<b>1.3</b>	0.99 U
Nickel (mg/kg)	<b>13</b>	<b>40</b>	<b>15</b>	<b>25</b>	<b>22</b>	<b>34</b>	<b>29</b>	<b>29</b>	<b>47</b>	<b>47</b>
Selenium (mg/kg)	<b>1.7</b>	<b>4.5</b>	<b>2.1</b>	<b>1.3</b>	<b>1.4</b>	<b>1.2</b>	<b>1.3</b>	0.25 U	<b>2.5</b>	0.25 U
Silver (mg/kg)	0.5 U	<b>1.9</b>	0.49 U	0.49 U	0.49 U	0.5 U	0.48 U	0.5 U	<b>1.4</b>	0.49 U
Thallium (mg/kg)	0.25 U	<b>0.27</b>	0.25 U	0.25 U	0.25 U	<b>0.27</b>	0.24 U	0.25 U	<b>6.3</b>	0.25 U
Vanadium (mg/kg)	<b>7.8</b>	<b>16</b>	<b>7.4</b>	<b>7.7</b>	<b>6.6</b>	<b>11</b>	<b>9.6</b>	<b>19</b>	<b>30</b>	<b>26</b>
Zinc (mg/kg)	<b>650</b>	<b>1300</b>	<b>510</b>	<b>480</b>	<b>500</b>	<b>490</b>	<b>510</b>	<b>52</b>	<b>650</b>	<b>86</b>
<b>2. pH</b>										
pH (SU)	<b>7</b>	<b>7.3</b>	<b>7.5</b>	<b>7.7</b>	<b>7.7</b>	<b>7.8</b>	<b>8.2</b>	<b>8.1</b>	<b>5.9</b>	<b>4.5</b>
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,1,2-Tetrachloroethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,1,2-Trichloroethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,1-Dichloroethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,1-Dichloroethene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,1-Dichloropropene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,2,3-Trichlorobenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,2,3-Trichloropropane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,2,4-Trichlorobenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,2,4-Trimethylbenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,2-Dibromo-3-Chloropropane (mg/k	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,2-Dibromoethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,2-Dichlorobenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,2-Dichloroethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	<b>0.0027 J</b>	0.0049 U
1,2-Dichloropropane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,3,5-Trimethylbenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,3-Dichlorobenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,3-Dichloropropane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
1,4-Dichlorobenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
2,2-Dichloropropane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
2-Butanone (mg/kg)	0.0094 U	<b>0.019</b>	0.0093 U	<b>0.012</b>	0.011 U	0.01 U	0.0096 U	0.0094 U	0.0096 U	0.0098 U
2-Chlorotoluene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
2-Hexanone (mg/kg)	0.0094 U	0.0096 U	0.0093 U	0.0096 U	0.011 U	0.01 U	0.0096 U	0.0094 U	0.0096 U	0.0098 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon										
4-Chlorotoluene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
4-Methyl-2-Pentanone (mg/kg)	0.0094 U	0.0096 U	0.0093 U	0.0096 U	0.011 U	0.01 U	0.0096 U	0.0094 U	0.0096 U	0.0098 U
Acetone (mg/kg)	<b>0.039</b>	<b>0.071</b>	0.019 U	<b>0.046</b>	<b>0.028</b>	0.02 U	<b>0.056</b>	0.019 U	0.019 U	0.02 U
Benzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Bromobenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Bromochloromethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Bromodichloromethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Bromoform (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Bromomethane (mg/kg)	0.0094 U	0.0096 U	0.0093 U	0.0096 U	0.011 U	0.01 U	0.0096 U	0.0094 U	0.0096 U	0.0098 U
Carbon Disulfide (mg/kg)	0.0047 U	<b>0.0029 J</b>	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Carbon Tetrachloride (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Chlorobenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Chloroethane (mg/kg)	0.0094 U	0.0096 U	0.0093 U	0.0096 U	0.011 U	0.01 U	0.0096 U	0.0094 U	0.0096 U	0.0098 U
Chloroform (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Chloromethane (mg/kg)	0.0094 U	0.0096 U	0.0093 U	0.0096 U	0.011 U	0.01 U	0.0096 U	0.0094 U	0.0096 U	0.0098 U
cis-1,2-Dichloroethene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
cis-1,3-Dichloropropene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Dibromochloromethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Dibromomethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Ethylbenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Freon 113 (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Freon 12 (mg/kg)	0.0094 U	0.0096 U	0.0093 U	0.0096 U	0.011 U	0.01 U	0.0096 U	0.0094 U	0.0096 U	0.0098 U
Hexachlorobutadiene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon										
Isopropylbenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
m,p-Xylenes (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Methylene Chloride (mg/kg)	0.019 U	0.019 U	0.019 U	0.019 U	0.021 U	0.02 U	0.019 U	0.019 U	0.019 U	0.02 U
MTBE (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
n-Butylbenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Naphthalene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
o-Xylene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
para-Isopropyl Toluene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Propylbenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
sec-Butylbenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Styrene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
tert-Butylbenzene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Tetrachloroethene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	<b>0.0056</b>	0.0049 U
Toluene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
trans-1,2-Dichloroethene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
trans-1,3-Dichloropropene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Trichloroethene (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Trichlorofluoromethane (mg/kg)	0.0047 U	0.0048 U	0.0046 U	0.0048 U	0.0053 U	0.005 U	0.0048 U	0.0047 U	0.0048 U	0.0049 U
Vinyl Acetate (mg/kg)	0.047 U	0.048 U	0.046 U	0.048 U	0.053 U	0.05 U	0.048 U	0.047 U	0.048 U	0.049 U
Vinyl Chloride (mg/kg)	0.0094 U	0.0096 U	0.0093 U	0.0096 U	0.011 U	0.01 U	0.0096 U	0.0094 U	0.0096 U	0.0098 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2,4,6-Trichlorophenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0	
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon											
2,4-Dichlorophenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2,4-Dimethylphenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2,4-Dinitrophenol (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
2,4-Dinitrotoluene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2,6-Dinitrotoluene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2-Chloronaphthalene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2-Chlorophenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2-Methylnaphthalene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2-Methylphenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
2-Nitroaniline (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
2-Nitrophenol (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
3,3'-Dichlorobenzidine (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
3-,4-Methylphenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
3-Nitroaniline (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
4-Bromophenyl-phenylether (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
4-Chloro-3-methylphenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
4-Chloroaniline (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
4-Chlorophenyl-phenylether (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
4-Nitroaniline (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
4-Nitrophenol (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
Acenaphthene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Acenaphthylene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U



**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon										
Anthracene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Azobenzene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Benzo(a)anthracene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Benzo(a)pyrene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Benzo(b,k)fluoranthene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Benzo(g,h,i)perylene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Benzoic acid (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
Benzyl alcohol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
bis(2-Chloroethyl)ether (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)	<b>0.48</b>	<b>0.92</b>	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Butylbenzylphthalate (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Chrysene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Di-n-butylphthalate (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Di-n-octylphthalate (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Dibenz(a,h)anthracene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Dibenzofuran (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Diethylphthalate (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Dimethylphthalate (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Fluoranthene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Fluorene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Hexachlorobenzene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0	
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon											
Hexachlorocyclopentadiene (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
Hexachloroethane (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Isophorone (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
N-Nitrosodimethylamine (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
N-Nitrosodiphenylamine (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Nitrobenzene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Pentachlorophenol (mg/kg)	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U
Phenanthrene (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Phenol (mg/kg)	0.33 U	0.67 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
Pyrene (mg/kg)	0.33 U	<b>0.34 J</b>	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U
<b>5. Pesticides/PCBs</b>											
4,4'-DDD (mg/kg)	<b>0.039</b>	<b>0.87</b>	<b>0.033</b>	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U
4,4'-DDE (mg/kg)	<b>0.077</b>	<b>1.1</b>	<b>0.057</b>	<b>0.047</b>	<b>0.14</b>	<b>0.18</b>	<b>0.049</b>	0.005 U	0.005 U	0.005 U	0.005 U
4,4'-DDT (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U
Aldrin (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U
Alpha-BHC (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U
Aroclor-1016 (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U				
Aroclor-1221 (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U				
Aroclor-1232 (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U				
Aroclor-1242 (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U				
Aroclor-1248 (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U				

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon										
Aroclor-1254 (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U			
Aroclor-1260 (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U			
Aroclor-1262 (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U			
Beta-BHC (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Chlordane (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U	0.05 U	0.05 U	0.05 U
Delta-BHC (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Dieldrin (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Endosulfan I (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Endosulfan II (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Endosulfan Sulfate (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Endrin (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Endrin Aldehyde (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Gamma-BHC (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Heptachlor (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Heptachlor Epoxide (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Methoxychlor (mg/kg)	0.025 U	0.5 U	0.025 U	0.025 U	0.05 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U
Toxaphene (mg/kg)	0.25 U	5 U	0.25 U	0.25 U	0.5 U	0.5 U	0.25 U	0.05 U	0.05 U	0.05 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	0.1 U	<b>0.44</b>	0.1 U	<b>0.21</b>	<b>1.9</b>	<b>0.46</b>	<b>17.1</b>	<b>0.1</b>		<b>3</b>
Butylate (mg/kg)	<b>0.02</b>	<b>1.18</b>	<b>0.24</b>	<b>0.03</b>	<b>0.02</b>	<b>0.03</b>	<b>0.03</b>	0.01 U	<b>0.02</b>	0.01 U
captan (mg/kg)	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	<b>0.42</b>	0.25 U		0.25 U
Carbophenothion (mg/kg)	<b>0.01</b>	<b>0.1</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>	<b>0.02</b>	0.01 U	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>
Cycloate (mg/kg)	0.01 U	<b>0.03</b>	0.01 U	<b>0.15</b>	<b>0.08</b>	<b>0.26</b>	<b>0.24</b>	0.01 U	<b>0.01</b>	0.01 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	lagoon	non-lag.	non-lag.	non-lag.
Sample ID	OS-01-0.5	OS-02-0.5	OS-03-0.5	OS-04-0.5	OS-05-0.5	OS-06-0.5	OS-07-0.5	OS-08-5.0	OS-09-5.0	OS-10-20.0
Sample Date	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/21/99	10/20/99	10/15/99	10/15/99
Horizon										
EPTC (mg/kg)	<b>0.01</b>	<b>0.02</b>	0.01 U	<b>0.24</b>	<b>0.07</b>	<b>0.31</b>	<b>0.11</b>	0.01 U	<b>0.03</b>	<b>0.02</b>
Flurochloridone (mg/kg)	0.01 U	<b>0.02</b>	0.01 U	<b>0.02</b>	<b>0.03</b>	<b>0.03</b>	<b>0.19</b>	0.01 U	<b>0.05</b>	<b>0.02</b>
Fonofos (mg/kg)	<b>0.01</b>	<b>0.16</b>	<b>0.03</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U		0.09 U
Molinate (mg/kg)	<b>0.01</b>	<b>0.02</b>	0.01 U	<b>0.07</b>	<b>0.05</b>	<b>0.14</b>	<b>0.05</b>	<b>0.01</b>	<b>0.03</b>	<b>0.01</b>
Napropamide (mg/kg)	<b>0.03</b>	<b>5.41</b>	<b>0.05</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>	<b>0.01</b>	0.01 U	<b>0.17</b>	0.01 U
Pebulate (mg/kg)	<b>0.01</b>	<b>0.03</b>	0.01 U	<b>0.15</b>	<b>0.13</b>	<b>0.26</b>	<b>0.29</b>	0.01 U	<b>0.01</b>	<b>0.01</b>
phosmet (mg/kg)	<b>0.05</b>	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U
R25788 (mg/kg)	<b>0.01</b>	<b>0.03</b>	0.01 U	0.01 U	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	0.01 U	0.01 U	<b>0.01</b>
R29148 (mg/kg)	0.01 U	<b>0.02</b>	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>
Vernolate (mg/kg)	<b>0.01</b>	<b>0.07</b>	0.01 U	<b>0.14</b>	<b>0.09</b>	<b>0.24</b>	<b>0.24</b>	0.01 U	<b>0.01</b>	0.01 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
<b>1. Metals</b>										
Antimony (mg/kg)	60 U	2.9 U	60 U		3	2.9 U		2.9 U	2.9 U	2.9 U
Arsenic (mg/kg)	28	57	3.5		20	16		12	50	40
Barium (mg/kg)	1700	1000	1700		21	130		18	140	130
Beryllium (mg/kg)	2 U	0.12	2 U		0.099 U	0.36		0.098 U	0.18	0.4
Cadmium (mg/kg)	5 U	5.9	5 U		0.91	1.2		0.24 U	0.24 U	0.24 U
Chromium (mg/kg)	2.9	52	4.6		0.55	35		0.49 U	37	38
Cobalt (mg/kg)	20 U	4.5	20 U		1.5	7.8		0.98 U	5.3	8
Copper (mg/kg)	110	1200	24		92	59		7.6	28	220
Lead (mg/kg)	86	88	84		30	73		14	6.4	23
Mercury (mg/kg)	0.79	0.39	0.24		2.4	1.6		4.7	1.9	2.3
Molybdenum (mg/kg)	2.5	4.3	2.3		2.2	0.98 U		3	0.96 U	0.96 U
Nickel (mg/kg)	20 U	8	20 U		0.99 U	50		0.98 U	35	47
Selenium (mg/kg)	5 U	1.3	5 U		0.79	0.53		1	0.24 U	0.24 U
Silver (mg/kg)	6	3.4	0.5 U		24	1.6		7	0.48 U	0.48 U
Thallium (mg/kg)	5 U	1.1	5 U		3.2	0.41		0.83	0.24 U	0.5
Vanadium (mg/kg)	23	22	14		4.4	23		1.9	24	36
Zinc (mg/kg)	290	710	20 U		690	440		290	120	600
<b>2. pH</b>										
pH (SU)	3.6	3.6	3.4		3.1	6.8		2.6	3.8	3.8
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
1,1,1-Trichloroethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	<b>0.01</b>
1,1,2-Trichloroethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,1-Dichloroethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,1-Dichloroethene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,1-Dichloropropene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2,3-Trichlorobenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2,3-Trichloropropane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2,4-Trichlorobenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2,4-Trimethylbenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2-Dibromo-3-Chloropropane (mg/k	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2-Dibromoethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2-Dichlorobenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2-Dichloroethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,2-Dichloropropane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,3,5-Trimethylbenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,3-Dichlorobenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,3-Dichloropropane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
1,4-Dichlorobenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
2,2-Dichloropropane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
2-Butanone (mg/kg)	0.011 U	0.0098 U	0.01 U		0.01 U	0.01 U		0.0098 U	0.011 U	0.011 U
2-Chlorotoluene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
2-Hexanone (mg/kg)	0.011 U	0.0098 U	0.01 U		0.01 U	0.01 U		0.0098 U	0.011 U	0.011 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
4-Chlorotoluene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
4-Methyl-2-Pentanone (mg/kg)	0.011 U	0.0098 U	0.01 U		0.01 U	0.01 U		0.0098 U	0.011 U	0.011 U
Acetone (mg/kg)	0.021 U	0.02 U	0.02 U		0.02 U	0.02 U		0.02 U	0.021 U	0.021 U
Benzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	<b>0.0046 J</b>
Bromobenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Bromochloromethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Bromodichloromethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Bromoform (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Bromomethane (mg/kg)	0.011 U	0.0098 U	0.01 U		0.01 U	0.01 U		0.0098 U	0.011 U	0.011 U
Carbon Disulfide (mg/kg)	0.0053 U	<b>0.0032 J</b>	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Carbon Tetrachloride (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Chlorobenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	<b>0.0057</b>	0.0053 U
Chloroethane (mg/kg)	0.011 U	0.0098 U	0.01 U		0.01 U	0.01 U		0.0098 U	0.011 U	0.011 U
Chloroform (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Chloromethane (mg/kg)	0.011 U	0.0098 U	0.01 U		0.01 U	0.01 U		0.0098 U	0.011 U	0.011 U
cis-1,2-Dichloroethene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
cis-1,3-Dichloropropene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Dibromochloromethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Dibromomethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Ethylbenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Freon 113 (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Freon 12 (mg/kg)	0.011 U	0.0098 U	0.01 U		0.01 U	0.01 U		0.0098 U	0.011 U	0.011 U
Hexachlorobutadiene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
Isopropylbenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
m,p-Xylenes (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Methylene Chloride (mg/kg)	0.021 U	0.02 U	0.02 U		0.02 U	0.02 U		0.02 U	0.021 U	0.021 U
MTBE (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
n-Butylbenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Naphthalene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
o-Xylene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
para-Isopropyl Toluene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Propylbenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
sec-Butylbenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Styrene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
tert-Butylbenzene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Tetrachloroethene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	<b>0.015</b>	0.0053 U
Toluene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
trans-1,2-Dichloroethene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
trans-1,3-Dichloropropene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Trichloroethene (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Trichlorofluoromethane (mg/kg)	0.0053 U	0.0049 U	0.005 U		0.005 U	0.0051 U		0.0049 U	0.0053 U	0.0053 U
Vinyl Acetate (mg/kg)	0.053 U	0.049 U	0.05 U		0.05 U	0.051 U		0.049 U	0.053 U	0.053 U
Vinyl Chloride (mg/kg)	0.011 U	0.0098 U	0.01 U		0.01 U	0.01 U		0.0098 U	0.011 U	0.011 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2,4,6-Trichlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U



**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
2,4-Dichlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2,4-Dimethylphenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2,4-Dinitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
2,4-Dinitrotoluene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2,6-Dinitrotoluene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2-Chloronaphthalene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2-Chlorophenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2-Methylnaphthalene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2-Methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
2-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
2-Nitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
3,3'-Dichlorobenzidine (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
3-,4-Methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
3-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
4-Bromophenyl-phenylether (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
4-Chloro-3-methylphenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
4-Chloroaniline (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
4-Chlorophenyl-phenylether (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
4-Nitroaniline (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
4-Nitrophenol (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
Acenaphthene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Acenaphthylene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
Anthracene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Azobenzene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Benzo(a)anthracene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Benzo(a)pyrene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Benzo(b,k)fluoranthene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Benzo(g,h,i)perylene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Benzoic acid (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
Benzyl alcohol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
bis(2-Chloroethyl)ether (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Butylbenzylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Chrysene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Di-n-butylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Di-n-octylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Dibenz(a,h)anthracene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Dibenzofuran (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Diethylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Dimethylphthalate (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Fluoranthene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Fluorene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Hexachlorobenzene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
Hexachlorocyclopentadiene (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
Hexachloroethane (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Isophorone (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
N-Nitrosodimethylamine (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
N-Nitrosodiphenylamine (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Nitrobenzene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Pentachlorophenol (mg/kg)	1.7 U	1.7 U	1.7 U		1.7 U	1.7 U		1.7 U	1.7 U	1.7 U
Phenanthrene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Phenol (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
Pyrene (mg/kg)	0.33 U	0.33 U	0.33 U		0.33 U	0.33 U		0.33 U	0.33 U	0.33 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (mg/kg)	0.005 U	<b>0.061</b>	<b>0.018</b>		0.005 U	<b>0.0093</b>		<b>0.035</b>	0.005 U	0.005 U
4,4'-DDE (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	<b>0.0074</b>		<b>0.0069</b>	0.005 U	0.005 U
4,4'-DDT (mg/kg)	0.005 U	<b>0.14</b>	<b>0.025</b>		0.005 U	<b>0.022</b>		<b>0.012</b>	0.005 U	0.005 U
Aldrin (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Alpha-BHC (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		<b>0.0059</b>	0.005 U	0.005 U
Aroclor-1016 (mg/kg)					0.05 U	0.05 U				
Aroclor-1221 (mg/kg)					0.05 U	0.05 U				
Aroclor-1232 (mg/kg)					0.05 U	0.05 U				
Aroclor-1242 (mg/kg)					0.05 U	0.05 U				
Aroclor-1248 (mg/kg)					0.05 U	0.05 U				

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
Aroclor-1254 (mg/kg)					0.05 U	0.05 U				
Aroclor-1260 (mg/kg)					0.05 U	0.05 U				
Aroclor-1262 (mg/kg)					0.05 U	0.05 U				
Beta-BHC (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		<b>0.012</b>	0.005 U	0.005 U
Chlordane (mg/kg)	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U		0.05 U	0.05 U	0.05 U
Delta-BHC (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Dieldrin (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Endosulfan I (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Endosulfan II (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Endosulfan Sulfate (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Endrin (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Endrin Aldehyde (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Gamma-BHC (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Heptachlor (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Heptachlor Epoxide (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Methoxychlor (mg/kg)	0.005 U	0.05 U	0.005 U		0.005 U	0.005 U		0.005 U	0.005 U	0.005 U
Toxaphene (mg/kg)	0.05 U	0.05 U	0.05 U		0.05 U	0.05 U		0.05 U	0.05 U	0.05 U
<b>6. Proprietary Pesticides</b>										
bensulide (mg/kg)	<b>0.1</b>			0.064 U	0.064 U	0.064 U	0.064 U	0.1 U	0.1 U	<b>0.13</b>
Butylate (mg/kg)	0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
captan (mg/kg)	0.25 U			0.25 U	0.25 U	0.05 U	0.25 U	<b>0.33</b>	0.25 U	0.25 U
Carbophenothion (mg/kg)	<b>0.01</b>			0.01 U	0.01 U	0.01 U	0.01 U	<b>0.01</b>	<b>0.01</b>	<b>0.01</b>
Cycloate (mg/kg)	0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-11-9.0	OS-12-9.5	OS-13-11.5	OS-14-10	OS-14-5.0	OS-15-4.0	OS-15-8.0	OS-16-11.5	OS-17-19.0	OS-18-18.0
Sample Date	10/15/99	10/19/99	10/19/99	10/13/99	10/13/99	10/13/99	10/13/99	10/19/99	10/15/99	10/15/99
Horizon										
EPTC (mg/kg)	0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Flurochloridone (mg/kg)	0.01 U			0.03 U	0.03 U	0.01 U	0.03 U	<b>0.02</b>	0.01 U	0.01 U
Fonofos (mg/kg)	0.01 U			0.01 U	0.01 U	<b>0.013</b>	0.01 U	0.01 U	0.01 U	0.01 U
Metam sodium (mg/kg)	0.09 U			0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Molinate (mg/kg)	0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Napropamide (mg/kg)	0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Pebulate (mg/kg)	0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
phosmet (mg/kg)	0.05 U			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
R25788 (mg/kg)	<b>0.01</b>			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
R29148 (mg/kg)	0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vernolate (mg/kg)	0.01 U			0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					

**1. Metals**

Antimony (mg/kg)	3 U	3 U	2.9 U	2.9 U	2.9 U
Arsenic (mg/kg)	<b>74</b>	<b>160</b>	<b>3.6</b>	<b>97</b>	<b>4.6</b>
Barium (mg/kg)	<b>34</b>	<b>33</b>	<b>130</b>	<b>27</b>	<b>180</b>
Beryllium (mg/kg)	<b>0.26</b>	<b>0.24</b>	<b>0.31</b>	<b>0.24</b>	<b>0.4</b>
Cadmium (mg/kg)	<b>1.2</b>	<b>0.33</b>	<b>0.43</b>	<b>1.1</b>	<b>2.4</b>
Chromium (mg/kg)	<b>43</b>	<b>31</b>	<b>26</b>	<b>68</b>	<b>70</b>
Cobalt (mg/kg)	<b>5.3</b>	<b>6.4</b>	<b>10</b>	<b>5</b>	<b>15</b>
Copper (mg/kg)	<b>190</b>	<b>140</b>	<b>29</b>	<b>180</b>	<b>45</b>
Lead (mg/kg)	<b>77</b>	<b>65</b>	<b>53</b>	<b>110</b>	<b>81</b>
Mercury (mg/kg)	<b>3.3</b>	<b>0.84</b>	<b>0.16</b>	<b>3.9</b>	<b>0.071</b>
Molybdenum (mg/kg)	0.99 U	<b>1.6</b>	0.98 U	<b>1</b>	0.98 U
Nickel (mg/kg)	<b>31</b>	<b>30</b>	<b>34</b>	<b>31</b>	<b>53</b>
Selenium (mg/kg)	<b>2.7</b>	<b>0.28</b>	0.25 U	<b>7.1</b>	0.25 U
Silver (mg/kg)	0.49 U	0.5 U	0.49 U	<b>0.56</b>	0.49 U
Thallium (mg/kg)	<b>0.66</b>	<b>1</b>	<b>0.33</b>	<b>0.53</b>	0.25 U
Vanadium (mg/kg)	<b>30</b>	<b>24</b>	<b>22</b>	<b>30</b>	<b>28</b>
Zinc (mg/kg)	<b>510</b>	<b>350</b>	<b>65</b>	<b>300</b>	<b>56</b>

**2. pH**

pH (SU)	<b>7.7</b>	<b>8</b>	<b>7.4</b>	<b>7.6</b>	<b>7.1</b>
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**3. VOCs**

1,1,1,2-Tetrachloroethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
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**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					
1,1,1-Trichloroethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,1,2,2-Tetrachloroethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,1,2-Trichloroethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,1-Dichloroethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,1-Dichloroethene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,1-Dichloropropene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2,3-Trichlorobenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2,3-Trichloropropane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2,4-Trichlorobenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2,4-Trimethylbenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2-Dibromo-3-Chloropropane (mg/k	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2-Dibromoethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2-Dichlorobenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2-Dichloroethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,2-Dichloropropane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,3,5-Trimethylbenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,3-Dichlorobenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,3-Dichloropropane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
1,4-Dichlorobenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
2,2-Dichloropropane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
2-Butanone (mg/kg)	0.01 U	0.0096 U	0.01 U	0.0096 U	0.0098 U
2-Chlorotoluene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
2-Hexanone (mg/kg)	0.01 U	0.0096 U	0.01 U	0.0096 U	0.0098 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					
4-Chlorotoluene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
4-Methyl-2-Pentanone (mg/kg)	0.01 U	0.0096 U	0.01 U	0.0096 U	0.0098 U
Acetone (mg/kg)	0.021 U	0.019 U	0.02 U	<b>0.037</b>	0.02 U
Benzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Bromobenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Bromochloromethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Bromodichloromethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Bromoform (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Bromomethane (mg/kg)	0.01 U	0.0096 U	0.01 U	0.0096 U	0.0098 U
Carbon Disulfide (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Carbon Tetrachloride (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Chlorobenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Chloroethane (mg/kg)	0.01 U	0.0096 U	0.01 U	0.0096 U	0.0098 U
Chloroform (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Chloromethane (mg/kg)	0.01 U	0.0096 U	0.01 U	0.0096 U	0.0098 U
cis-1,2-Dichloroethene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
cis-1,3-Dichloropropene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Dibromochloromethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Dibromomethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Ethylbenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Freon 113 (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Freon 12 (mg/kg)	0.01 U	0.0096 U	0.01 U	0.0096 U	0.0098 U
Hexachlorobutadiene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U



**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					
Isopropylbenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
m,p-Xylenes (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Methylene Chloride (mg/kg)	0.021 U	0.019 U	0.02 U	0.019 U	<b>0.028</b>
MTBE (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
n-Butylbenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Naphthalene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
o-Xylene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
para-Isopropyl Toluene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Propylbenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
sec-Butylbenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Styrene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
tert-Butylbenzene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Tetrachloroethene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Toluene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
trans-1,2-Dichloroethene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
trans-1,3-Dichloropropene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Trichloroethene (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Trichlorofluoromethane (mg/kg)	0.0052 U	0.0048 U	0.0051 U	0.0048 U	0.0049 U
Vinyl Acetate (mg/kg)	0.052 U	0.048 U	0.051 U	0.048 U	0.049 U
Vinyl Chloride (mg/kg)	0.01 U	0.0096 U	0.01 U	0.0096 U	0.0098 U
<b>4. Semivolatiles</b>					
2,4,5-Trichlorophenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2,4,6-Trichlorophenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					
2,4-Dichlorophenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2,4-Dimethylphenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2,4-Dinitrophenol (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
2,4-Dinitrotoluene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2,6-Dinitrotoluene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2-Chloronaphthalene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2-Chlorophenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2-Methylnaphthalene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2-Methylphenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
2-Nitroaniline (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
2-Nitrophenol (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
3,3'-Dichlorobenzidine (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
3-,4-Methylphenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
3-Nitroaniline (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
4,6-Dinitro-2-methylphenol (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
4-Bromophenyl-phenylether (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
4-Chloro-3-methylphenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
4-Chloroaniline (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
4-Chlorophenyl-phenylether (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
4-Nitroaniline (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
4-Nitrophenol (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
Acenaphthene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Acenaphthylene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					
Anthracene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Azobenzene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Benzo(a)anthracene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Benzo(a)pyrene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Benzo(b,k)fluoranthene (mg/kg)	<b>0.18 J</b>	0.33 U	3.3 U	0.33 U	3.3 U
Benzo(g,h,i)perylene (mg/kg)	<b>0.18 J</b>	0.33 U	3.3 U	0.33 U	3.3 U
Benzoic acid (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
Benzyl alcohol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
bis(2-Chloroethoxy)methane (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
bis(2-Chloroethyl)ether (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
bis(2-Chloroisopropyl) ether (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
bis(2-Ethylhexyl)phthalate (mg/kg)	0.33 U	0.33 U	3.3 U	<b>1.7</b>	3.3 U
Butylbenzylphthalate (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Chrysene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Di-n-butylphthalate (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Di-n-octylphthalate (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Dibenz(a,h)anthracene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Dibenzofuran (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Diethylphthalate (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Dimethylphthalate (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Fluoranthene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Fluorene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Hexachlorobenzene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					
Hexachlorocyclopentadiene (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
Hexachloroethane (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Indeno(1,2,3-cd)pyrene (mg/kg)	<b>0.18 J</b>	0.33 U	3.3 U	0.33 U	3.3 U
Isophorone (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
N-Nitroso-di-n-propylamine (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
N-Nitrosodimethylamine (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
N-Nitrosodiphenylamine (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Nitrobenzene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Pentachlorophenol (mg/kg)	1.7 U	1.7 U	17 U	1.7 U	17 U
Phenanthrene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Phenol (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
Pyrene (mg/kg)	0.33 U	0.33 U	3.3 U	0.33 U	3.3 U
<b>5. Pesticides/PCBs</b>					
4,4'-DDD (mg/kg)	0.005 U	0.005 U	0.06 U	<b>0.0082</b>	0.06 U
4,4'-DDE (mg/kg)	0.005 U	0.005 U	0.06 U	<b>0.013</b>	0.06 U
4,4'-DDT (mg/kg)	0.005 U	<b>0.0095</b>	<b>0.073</b>	<b>0.0083</b>	0.06 U
Aldrin (mg/kg)	0.005 U	0.005 U	0.03 U	0.005 U	0.03 U
Alpha-BHC (mg/kg)	0.005 U	0.005 U	0.03 U	0.005 U	0.03 U
Aroclor-1016 (mg/kg)			0.12 U		0.12 U
Aroclor-1221 (mg/kg)			0.24 U		0.24 U
Aroclor-1232 (mg/kg)			0.12 U		0.12 U
Aroclor-1242 (mg/kg)			0.12 U		0.12 U
Aroclor-1248 (mg/kg)			0.12 U		0.12 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					
Aroclor-1254 (mg/kg)			0.12 U		0.12 U
Aroclor-1260 (mg/kg)			0.12 U		0.12 U
Beta-BHC (mg/kg)	0.005 U	0.005 U	0.03 U	0.005 U	0.03 U
Chlordane (mg/kg)	0.05 U	0.05 U	0.3 U	0.05 U	0.3 U
Delta-BHC (mg/kg)	0.005 U	0.005 U	0.03 U	0.005 U	0.03 U
Dieldrin (mg/kg)	0.005 U	0.005 U	0.06 U	0.005 U	0.06 U
Endosulfan I (mg/kg)	0.005 U	0.005 U	0.03 U	0.005 U	0.03 U
Endosulfan II (mg/kg)	0.005 U	0.005 U	0.06 U	0.005 U	0.06 U
Endosulfan Sulfate (mg/kg)	0.005 U	0.005 U	0.06 U	0.005 U	0.06 U
Endrin (mg/kg)	0.005 U	0.005 U	0.06 U	0.005 U	0.06 U
Endrin Aldehyde (mg/kg)	0.005 U	0.005 U	0.06 U	0.005 U	0.06 U
Gamma-BHC (mg/kg)	0.005 U	0.005 U	0.03 U	0.005 U	0.03 U
Heptachlor (mg/kg)	0.005 U	0.005 U	0.03 U	0.005 U	0.03 U
Heptachlor Epoxide (mg/kg)	0.005 U	0.005 U		0.005 U	
Heptachlor epoxide A (mg/kg)			0.03 U		0.03 U
Heptachlor epoxide B (mg/kg)			0.03 U		0.03 U
Methoxychlor (mg/kg)	0.005 U	0.005 U	0.3 U	0.005 U	0.3 U
Toxaphene (mg/kg)	0.05 U	0.05 U	0.6 U	0.05 U	0.6 U
<b>6. Proprietary Pesticides</b>					
bensulide (mg/kg)			0.1 U		1 U
Butylate (mg/kg)			0.01 U		0.1 U
captan (mg/kg)			0.25 U		2.5 U
Carbophenothion (mg/kg)			0.01 U		<b>0.09</b>

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					
Cycloate (mg/kg)			0.01 U		0.1 U
EPTC (mg/kg)			0.01 U		0.1 U
Flurochloridone (mg/kg)			<b>0.01</b>		0.1 U
Fonofos (mg/kg)			0.01 U		0.1 U
Metam sodium (mg/kg)			0.09 U		0.09 U
Molinate (mg/kg)			0.01 U		0.1 U
Napropamide (mg/kg)			0.01 U		0.1 U
Pebulate (mg/kg)			0.01 U		0.1 U
phosmet (mg/kg)			0.05 U		0.5 U
R25788 (mg/kg)			0.01 U		0.1 U
R29148 (mg/kg)			0.01 U		0.1 U
Vernolate (mg/kg)			0.01 U		0.1 U

**Table 3e Open Space Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	OS-19-1.5	OS-20-1.5	OS-21-0.5	OS-22-1.5	OS-23-0.5
Sample Date	10/20/99	10/20/99	10/29/99	10/20/99	10/29/99
Horizon					

**Notes**

Bolded values indicate detected compounds.

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

U = Not detected. Result shown is the detection limit.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				
<b>1. Metals</b>										
Antimony (ug/l)	60 U		60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U
Arsenic (ug/l)	5 U		<b>19</b>	5 U	5 U	5 U	<b>58</b>	<b>460</b>	5 U	<b>63</b>
Barium (ug/l)	<b>18</b>		<b>17</b>	<b>13</b>	<b>33</b>	<b>19</b>	<b>27</b>	<b>14</b>	10 U	10 U
Beryllium (ug/l)	2 U		2 U	<b>2.9</b>	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium (ug/l)	5 U		5 U	<b>120</b>	<b>22</b>	5 U	5 U	5 U	5 U	<b>280</b>
Chromium (ug/l)	10 U		10 U	<b>13</b>	10 U	10 U	10 U	10 U	10 U	<b>38</b>
Cobalt (ug/l)	20 U		20 U	<b>1100</b>	<b>25</b>	20 U	20 U	20 U	<b>25</b>	<b>29</b>
Copper (ug/l)	10 U		10 U	<b>46</b>	10 U	10 U	10 U	10 U	10 U	<b>4000</b>
Lead (ug/l)	3 U		3 U	<b>17</b>	<b>5.1</b>	3 U	3 U	3 U	<b>6.6</b>	<b>4</b>
Mercury (ug/l)	0.2 U		0.2 U	0.2 U	0.2 U	0.2 U	<b>0.21</b>	0.2 U	0.2 U	0.2 U
Molybdenum (ug/l)	20 U		20 U	20 U	20 U	20 U	<b>80</b>	20 U	20 U	20 U
Nickel (ug/l)	20 U		20 U	<b>2800</b>	<b>210</b>	20 U	20 U	20 U	<b>40</b>	<b>37</b>
Selenium (ug/l)	5 U		5 U	<b>58</b>	<b>26</b>	5 U	5 U	5 U	5 U	5 U
Silver (ug/l)	5 U		5 U	<b>7.9</b>	5 U	<b>6</b>	5 U	5 U	5 U	5 U
Thallium (ug/l)	5 U		5 U	<b>190</b>	<b>15</b>	5 U	5 U	5 U	<b>6.8</b>	5 U
Vanadium (ug/l)	10 U		10 U	10 U	10 U	10 U	<b>21</b>	10 U	10 U	<b>15</b>
Zinc (ug/l)	<b>32</b>		<b>82</b>	<b>23000</b>	<b>220</b>	<b>100</b>	20 U	20 U	<b>46</b>	<b>17000</b>
<b>2. pH</b>										
pH (SU)	<b>6.87</b>	<b>7.1</b>	<b>6.44</b>	<b>5.04</b>	<b>6.8</b>	<b>6.6</b>	<b>6.8</b>	<b>6.7</b>		
<b>3. VOCs</b>										
1,1,1,2-Tetrachloroethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U



**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				
1,1,1-Trichloroethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,1,2,2-Tetrachloroethane (ug/l)	<b>1.8</b>		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	<b>5.3</b>
1,1,2-Trichloroethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,1-Dichloroethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,1-Dichloroethene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,1-Dichloropropene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,2,3-Trichlorobenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,2,3-Trichloropropane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,2,4-Trichlorobenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,2,4-Trimethylbenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,2-Dibromo-3-Chloropropane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,2-Dibromoethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,2-Dichlorobenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	<b>1.1</b>	<b>1</b>	1 U
1,2-Dichloroethane (ug/l)	<b>4.1</b>		<b>3.9</b>	<b>12</b>	<b>29</b>	<b>85</b>	0.5 U	<b>1.1</b>	<b>13</b>	<b>1.6</b>
1,2-Dichloropropane (ug/l)	<b>0.6</b>		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,3,5-Trimethylbenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,3-Dichlorobenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,3-Dichloropropane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
1,4-Dichlorobenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	<b>1.7</b>	0.5 U	1 U
2,2-Dichloropropane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
2-Butanone (ug/l)	10 U		10 U	10 U	200 U	100 U	10 U	10 U	10 U	20 U
2-Chloroethylvinylether (ug/l)	10 U		10 U	10 U	200 U	100 U	10 U	10 U	10 U	20 U
2-Chlorotoluene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				
2-Hexanone (ug/l)	10 U		10 U	10 U	200 U	100 U	10 U	10 U	10 U	20 U
4-Chlorotoluene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
4-Methyl-2-Pentanone (ug/l)	10 U		10 U	10 U	200 U	100 U	10 U	10 U	10 U	20 U
Acetone (ug/l)	10 U		10 U	10 U	200 U	100 U	<b>14</b>	10 U	10 U	20 U
Benzene (ug/l)	<b>5</b>		0.5 U	<b>2.4</b>	<b>19</b>	5 U	0.5 U	<b>1.3</b>	0.5 U	<b>2.2</b>
Bromobenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Bromochloromethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Bromodichloromethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Bromoform (ug/l)	1 U		1 U	1 U	20 U	10 U	1 U	1 U	1 U	2 U
Bromomethane (ug/l)	1 U		1 U	1 U	20 U	10 U	1 U	1 U	1 U	2 U
Carbon Disulfide (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	<b>5.4</b>	<b>1.1</b>	<b>3</b>	<b>1.3</b>
Carbon Tetrachloride (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	<b>3.5</b>
Chlorobenzene (ug/l)	<b>140</b>		0.5 U	<b>0.5</b>	<b>3500</b>	<b>1300</b>	<b>0.6</b>	<b>6.6</b>	0.5 U	<b>23</b>
Chloroethane (ug/l)	1 U		1 U	1 U	20 U	10 U	1 U	1 U	1 U	2 U
Chloroform (ug/l)	<b>20</b>		0.5 U	<b>3.8</b>	<b>77</b>	<b>7.6</b>	0.5 U	0.5 U	0.5 U	<b>9.5</b>
Chloromethane (ug/l)	1 U		1 U	1 U	20 U	10 U	1 U	1 U	1 U	2 U
cis-1,2-Dichloroethene (ug/l)	0.5 U		0.5 U	<b>0.8</b>	10 U	5 U	0.5 U	<b>1.2</b>	0.5 U	<b>2.2</b>
cis-1,3-Dichloropropene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Dibromochloromethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Dibromomethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Ethylbenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Freon 113 (ug/l)	5 U		5 U	5 U	100 U	50 U	5 U	5 U	5 U	10 U
Freon 12 (ug/l)	1 U		1 U	1 U	20 U	10 U	1 U	1 U	1 U	2 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				
Hexachlorobutadiene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Isopropylbenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
m,p-Xylenes (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Methylene Chloride (ug/l)	5 U		5 U	5 U	100 U	50 U	5 U	5 U	5 U	10 U
MTBE (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
n-Butylbenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Naphthalene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	<b>1</b>
o-Xylene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
para-Isopropyl Toluene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Propylbenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
sec-Butylbenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Styrene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
tert-Butylbenzene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Tetrachloroethene (ug/l)	<b>1.7</b>		0.5 U	<b>6.8</b>	10 U	<b>540</b>	0.5 U	0.5 U	0.5 U	<b>230</b>
Toluene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	<b>5.2</b>	0.5 U	0.5 U	0.5 U	1 U
trans-1,2-Dichloroethene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
trans-1,3-Dichloropropene (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Trichloroethene (ug/l)	<b>3.7</b>		0.5 U	<b>0.7</b>	10 U	<b>280</b>	0.5 U	0.5 U	0.5 U	<b>14</b>
Trichlorofluoromethane (ug/l)	0.5 U		0.5 U	0.5 U	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U
Vinyl Acetate (ug/l)	10 U		10 U	10 U	200 U	100 U	10 U	10 U	10 U	20 U
Vinyl Chloride (ug/l)	0.5 U		0.5 U	0.5 U	10 U	<b>5.5</b>	0.5 U	0.5 U	0.5 U	1 U
<b>4. Semivolatiles</b>										
2,4,5-Trichlorophenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				
2,4,6-Trichlorophenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2,4-Dichlorophenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2,4-Dimethylphenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2,4-Dinitrophenol (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
2,4-Dinitrotoluene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2,6-Dinitrotoluene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2-Chloronaphthalene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2-Chlorophenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2-Methylnaphthalene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2-Methylphenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
2-Nitroaniline (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
2-Nitrophenol (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
3,3'-Dichlorobenzidine (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
3-,4-Methylphenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
3-Nitroaniline (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
4,6-Dinitro-2-methylphenol (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
4-Bromophenyl-phenylether (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
4-Chloro-3-methylphenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
4-Chloroaniline (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
4-Chlorophenyl-phenylether (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
4-Nitroaniline (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
4-Nitrophenol (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
Acenaphthene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				
Acenaphthylene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Anthracene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Azobenzene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Benzo(a)anthracene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Benzo(a)pyrene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Benzo(b,k)fluoranthene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Benzo(g,h,i)perylene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Benzoic acid (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
Benzyl alcohol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
bis(2-Chloroethoxy)methane (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
bis(2-Chloroethyl)ether (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
bis(2-Chloroisopropyl) ether (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
bis(2-Ethylhexyl)phthalate (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Butylbenzylphthalate (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Chrysene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Di-n-butylphthalate (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Di-n-octylphthalate (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Dibenz(a,h)anthracene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Dibenzofuran (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Diethylphthalate (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Dimethylphthalate (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Fluoranthene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Fluorene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				
Hexachlorobenzene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Hexachlorocyclopentadiene (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
Hexachloroethane (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Indeno(1,2,3-cd)pyrene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Isophorone (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
N-Nitroso-di-n-propylamine (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
N-Nitrosodimethylamine (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
N-Nitrosodiphenylamine (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Nitrobenzene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Pentachlorophenol (ug/l)	52 U		50 U	51 U	47 U	48 U	51 U	53 U	50 U	52 U
Phenanthrene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Phenol (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
Pyrene (ug/l)	10 U		10 U	10 U	9.4 U	9.6 U	10 U	11 U	10 U	10 U
<b>5. Pesticides/PCBs</b>										
4,4'-DDD (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
4,4'-DDE (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
4,4'-DDT (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Aldrin (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Alpha-BHC (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	<b>19</b>	0.1 U	<b>0.27</b>
Aroclor-1016 (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1221 (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1232 (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1242 (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				
Aroclor-1248 (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254 (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1260 (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1262 (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beta-BHC (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	<b>0.14</b>
Chlordane (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	110 U	1 U	1 U
Delta-BHC (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	<b>20</b>	0.1 U	<b>0.27</b>
Dieldrin (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Endosulfan I (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Endosulfan II (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Endosulfan Sulfate (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Endrin (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Endrin Aldehyde (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Gamma-BHC (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	<b>12</b>	0.1 U	0.1 U
Heptachlor (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Heptachlor Epoxide (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Methoxychlor (ug/l)	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	12 U	0.1 U	0.1 U
Toxaphene (ug/l)	1 U		1 U	1 U	1 U	1 U	1 U	110 U	1 U	1 U
<b>6. Proprietary Pesticides</b>										
bensulide (ug/l)					32 U	6 U	45 U	32 U	32 U	32 U
Butylate (ug/l)					1 U	1 U	1 U	1 U	1 U	1 U
captan (ug/l)					5 U	5 U	36 U	25 U	25 U	25 U
carbophenothion (ug/l)					1 U	1 U	1.4 U	1 U	1 U	1 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.	non-lag.
Sample ID	H-48	H-48	H-50	H-60	H-71	H-78	OS-08	OS-09	OS-10	OS-17
Sample Date	10/14/99	10/18/99	10/14/99	10/14/99	11/5/99	11/5/99	10/20/99	10/15/99	10/19/99	10/15/99
Horizon	Lower	Lower	Upper	Lower	Lower	Lower				

Cycloate (ug/l)					1 U	1 U	<b>2</b>	1 U	1 U	1 U
EPTC (ug/l)					1 U	1 U	<b>30</b>	1 U	<b>120</b>	<b>3800</b>
flurochloridone (ug/l)					5 U	5 U	5 U	5 U	5 U	5 U
Fonofos (ug/l)					1 U	1 U	1.4 U	1 U	<b>3</b>	1 U
Metam sodium (ug/l)							9 U			9 U
Molinate (ug/l)					1 U	1 U	<b>12</b>	1 U	<b>17</b>	1 U
Napropamide (ug/l)					1 U	1 U	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>
Pebulate (ug/l)					1 U	1 U	<b>9</b>	1 U	<b>27</b>	1 U
phosmet (ug/l)					5 U	5 U	7 U	5 U	5 U	5 U
R25788 (ug/l)					1 U	1 U	1.4 U	1 U	1 U	1 U
R29148 (ug/l)					1 U	1 U	1.4 U	1 U	1 U	1 U
Vernolate (ug/l)					1 U	1 U	<b>5</b>	1 U	<b>2</b>	1 U

**7. Field Measurements and Physical Properties**

Total Dissolved Solids (ug/l)	<b>11800000</b>	<b>23400000</b>	<b>5950000</b>
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**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99
Horizon			

**1. Metals**

Antimony (ug/l)	60 U	60 U	60 U
Arsenic (ug/l)	<b>110</b>	<b>960</b>	<b>150</b>
Barium (ug/l)	<b>46</b>	<b>57</b>	<b>40</b>
Beryllium (ug/l)	2 U	2 U	2 U
Cadmium (ug/l)	5 U	5 U	5 U
Chromium (ug/l)	10 U	10 U	10 U
Cobalt (ug/l)	20 U	20 U	20 U
Copper (ug/l)	10 U	10 U	10 U
Lead (ug/l)	3 U	3 U	3 U
Mercury (ug/l)	0.2 U	0.2 U	0.2 U
Molybdenum (ug/l)	20 U	20 U	20 U
Nickel (ug/l)	20 U	20 U	20 U
Selenium (ug/l)	5 U	<b>8.3</b>	5 U
Silver (ug/l)	5 U	5 U	5 U
Thallium (ug/l)	5 U	5 U	5 U
Vanadium (ug/l)	10 U	<b>14</b>	10 U
Zinc (ug/l)	20 U	<b>40</b>	20 U

**3. VOCs**

1,1,1,2-Tetrachloroethane (ug/l)	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane (ug/l)	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane (ug/l)	0.5 U	0.5 U	0.5 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99
Horizon			
1,1,2-Trichloroethane (ug/l)	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane (ug/l)	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene (ug/l)	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene (ug/l)	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane (ug/l)	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene (ug/l)	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane (ug/l)	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane (ug/l)	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane (ug/l)	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane (ug/l)	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene (ug/l)	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane (ug/l)	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane (ug/l)	0.5 U	0.5 U	0.5 U
2-Butanone (ug/l)	10 U	10 U	10 U
2-Chloroethylvinylether (ug/l)	10 U	10 U	10 U
2-Chlorotoluene (ug/l)	0.5 U	0.5 U	0.5 U
2-Hexanone (ug/l)	10 U	10 U	10 U
4-Chlorotoluene (ug/l)	0.5 U	0.5 U	0.5 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99
Horizon			
4-Methyl-2-Pentanone (ug/l)	10 U	10 U	10 U
Acetone (ug/l)	10 U	<b>15</b>	10 U
Benzene (ug/l)	0.5 U	0.5 U	0.5 U
Bromobenzene (ug/l)	0.5 U	0.5 U	0.5 U
Bromochloromethane (ug/l)	0.5 U	0.5 U	0.5 U
Bromodichloromethane (ug/l)	0.5 U	0.5 U	0.5 U
Bromoform (ug/l)	1 U	1 U	1 U
Bromomethane (ug/l)	1 U	1 U	1 U
Carbon Disulfide (ug/l)	<b>6.3</b>	<b>6.7</b>	<b>38</b>
Carbon Tetrachloride (ug/l)	0.5 U	0.5 U	0.5 U
Chlorobenzene (ug/l)	0.5 U	0.5 U	0.5 U
Chloroethane (ug/l)	1 U	1 U	1 U
Chloroform (ug/l)	0.5 U	0.5 U	0.5 U
Chloromethane (ug/l)	1 U	1 U	1 U
cis-1,2-Dichloroethene (ug/l)	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene (ug/l)	0.5 U	0.5 U	0.5 U
Dibromochloromethane (ug/l)	0.5 U	0.5 U	0.5 U
Dibromomethane (ug/l)	0.5 U	0.5 U	0.5 U
Ethylbenzene (ug/l)	0.5 U	0.5 U	0.5 U
Freon 113 (ug/l)	5 U	5 U	5 U
Freon 12 (ug/l)	1 U	1 U	1 U
Hexachlorobutadiene (ug/l)	0.5 U	0.5 U	0.5 U
Isopropylbenzene (ug/l)	0.5 U	0.5 U	0.5 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99

Horizon

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m,p-Xylenes (ug/l)	0.5 U	0.5 U	0.5 U
Methylene Chloride (ug/l)	5 U	5 U	5 U
MTBE (ug/l)	0.5 U	0.5 U	0.5 U
n-Butylbenzene (ug/l)	0.5 U	0.5 U	0.5 U
Naphthalene (ug/l)	0.5 U	0.5 U	0.5 U
o-Xylene (ug/l)	0.5 U	0.5 U	0.5 U
para-Isopropyl Toluene (ug/l)	0.5 U	0.5 U	0.5 U
Propylbenzene (ug/l)	0.5 U	0.5 U	0.5 U
sec-Butylbenzene (ug/l)	0.5 U	0.5 U	0.5 U
Styrene (ug/l)	0.5 U	0.5 U	0.5 U
tert-Butylbenzene (ug/l)	0.5 U	0.5 U	0.5 U
Tetrachloroethene (ug/l)	0.5 U	0.5 U	0.5 U
Toluene (ug/l)	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene (ug/l)	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene (ug/l)	0.5 U	0.5 U	0.5 U
Trichloroethene (ug/l)	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane (ug/l)	0.5 U	0.5 U	0.5 U
Vinyl Acetate (ug/l)	10 U	10 U	10 U
Vinyl Chloride (ug/l)	0.5 U	0.5 U	0.5 U

**4. Semivolatiles**

2,4,5-Trichlorophenol (ug/l)	10 U		11 U
2,4,6-Trichlorophenol (ug/l)	10 U		11 U
2,4-Dichlorophenol (ug/l)	10 U		11 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99
Horizon			
2,4-Dimethylphenol (ug/l)	10 U		11 U
2,4-Dinitrophenol (ug/l)	50 U		53 U
2,4-Dinitrotoluene (ug/l)	10 U		11 U
2,6-Dinitrotoluene (ug/l)	10 U		11 U
2-Chloronaphthalene (ug/l)	10 U		11 U
2-Chlorophenol (ug/l)	10 U		11 U
2-Methylnaphthalene (ug/l)	10 U		11 U
2-Methylphenol (ug/l)	10 U		11 U
2-Nitroaniline (ug/l)	50 U		53 U
2-Nitrophenol (ug/l)	50 U		53 U
3,3'-Dichlorobenzidine (ug/l)	50 U		53 U
3-,4-Methylphenol (ug/l)	10 U		11 U
3-Nitroaniline (ug/l)	50 U		53 U
4,6-Dinitro-2-methylphenol (ug/l)	50 U		53 U
4-Bromophenyl-phenylether (ug/l)	10 U		11 U
4-Chloro-3-methylphenol (ug/l)	10 U		11 U
4-Chloroaniline (ug/l)	10 U		11 U
4-Chlorophenyl-phenylether (ug/l)	10 U		11 U
4-Nitroaniline (ug/l)	50 U		53 U
4-Nitrophenol (ug/l)	50 U		53 U
Acenaphthene (ug/l)	10 U		11 U
Acenaphthylene (ug/l)	10 U		11 U
Anthracene (ug/l)	10 U		11 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99
Horizon			
Azobenzene (ug/l)	10 U		11 U
Benzo(a)anthracene (ug/l)	10 U		11 U
Benzo(a)pyrene (ug/l)	10 U		11 U
Benzo(b,k)fluoranthene (ug/l)	10 U		11 U
Benzo(g,h,i)perylene (ug/l)	10 U		11 U
Benzoic acid (ug/l)	50 U		53 U
Benzyl alcohol (ug/l)	10 U		11 U
bis(2-Chloroethoxy)methane (ug/l)	10 U		11 U
bis(2-Chloroethyl)ether (ug/l)	10 U		11 U
bis(2-Chloroisopropyl) ether (ug/l)	10 U		11 U
bis(2-Ethylhexyl)phthalate (ug/l)	10 U		11 U
Butylbenzylphthalate (ug/l)	10 U		11 U
Chrysene (ug/l)	10 U		11 U
Di-n-butylphthalate (ug/l)	10 U		11 U
Di-n-octylphthalate (ug/l)	10 U		11 U
Dibenz(a,h)anthracene (ug/l)	10 U		11 U
Dibenzofuran (ug/l)	10 U		11 U
Diethylphthalate (ug/l)	10 U		11 U
Dimethylphthalate (ug/l)	10 U		11 U
Fluoranthene (ug/l)	10 U		11 U
Fluorene (ug/l)	10 U		11 U
Hexachlorobenzene (ug/l)	10 U		11 U
Hexachlorocyclopentadiene (ug/l)	50 U		53 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99
Horizon			
Hexachloroethane (ug/l)	10 U		11 U
Indeno(1,2,3-cd)pyrene (ug/l)	10 U		11 U
Isophorone (ug/l)	10 U		11 U
N-Nitroso-di-n-propylamine (ug/l)	10 U		11 U
N-Nitrosodimethylamine (ug/l)	10 U		11 U
N-Nitrosodiphenylamine (ug/l)	10 U		11 U
Nitrobenzene (ug/l)	10 U		11 U
Pentachlorophenol (ug/l)	50 U		53 U
Phenanthrene (ug/l)	10 U		11 U
Phenol (ug/l)	10 U		11 U
Pyrene (ug/l)	10 U		11 U
<b>5. Pesticides/PCBs</b>			
4,4'-DDD (ug/l)	0.1 U		0.1 U
4,4'-DDE (ug/l)	0.1 U		0.1 U
4,4'-DDT (ug/l)	0.1 U		0.1 U
Aldrin (ug/l)	0.1 U		0.1 U
Alpha-BHC (ug/l)	0.1 U		0.1 U
Aroclor-1016 (ug/l)	1 U		1 U
Aroclor-1221 (ug/l)	1 U		1 U
Aroclor-1232 (ug/l)	1 U		1 U
Aroclor-1242 (ug/l)	1 U		1 U
Aroclor-1248 (ug/l)	1 U		1 U
Aroclor-1254 (ug/l)	1 U		1 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99

Horizon

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Aroclor-1260 (ug/l)	1 U		1 U
Aroclor-1262 (ug/l)	1 U		1 U
Beta-BHC (ug/l)	0.1 U		0.1 U
Chlordane (ug/l)	1 U		1 U
Delta-BHC (ug/l)	0.1 U		0.1 U
Dieldrin (ug/l)	0.1 U		0.1 U
Endosulfan I (ug/l)	0.1 U		0.1 U
Endosulfan II (ug/l)	0.1 U		0.1 U
Endosulfan Sulfate (ug/l)	0.1 U		0.1 U
Endrin (ug/l)	0.1 U		0.1 U
Endrin Aldehyde (ug/l)	0.1 U		0.1 U
Gamma-BHC (ug/l)	0.1 U		0.1 U
Heptachlor (ug/l)	0.1 U		0.1 U
Heptachlor Epoxide (ug/l)	0.1 U		0.1 U
Methoxychlor (ug/l)	0.1 U		0.1 U
Toxaphene (ug/l)	1 U		1 U

**6. Proprietary Pesticides**

bensulide (ug/l)	32 U	45 U	45 U
Butylate (ug/l)		1.4 U	1 U
captan (ug/l)	<b>25</b>	36 U	36 U
carbophenothion (ug/l)		1.4 U	1 U
Cycloate (ug/l)		1.4 U	1 U
EPTC (ug/l)		1.4 U	<b>2</b>



**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99
Horizon			
flurochloridone (ug/l)		7 U	5 U
Fonofos (ug/l)		1.4 U	1 U
Metam sodium (ug/l)	9 U	9 U	9 U
Molinate (ug/l)		1.4 U	1 U
Napropamide (ug/l)		1.4 U	1 U
Pebulate (ug/l)		1.4 U	1 U
phosmet (ug/l)	5 U	7 U	7 U
R25788 (ug/l)		1.4 U	1 U
R29148 (ug/l)		1.4 U	1 U
Vernolate (ug/l)		1.4 U	1 U

**Table 3f Open Space Area Analytical Results of Water Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	non-lag.	non-lag.	non-lag.
Sample ID	OS-19	OS-20	OS-22
Sample Date	10/20/99	10/20/99	10/20/99
Horizon			

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**Notes**

Bolded values indicate detected compounds.

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

U = Not detected. Result shown is the detection limit.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	CC-1	SM-1	SM-10	SM-2	SM-3	SM-4	SM-5	SM-6	SM-7	SM-8
Sample Date	6/24/98	6/21/98	6/23/98	6/21/98	6/22/98	6/22/98	6/22/98	6/23/98	6/24/98	6/30/98
Horizon										
<b>1. Metals</b>										
Aluminum (mg/kg)	<b>16100</b>	<b>27500</b>	<b>50400</b>	<b>21700</b>	<b>25000</b>	<b>33900</b>	<b>38900</b>	<b>27600</b>	<b>28500</b>	<b>15800</b>
Antimony (mg/kg)	0.1 U	0.1 U	<b>0.2</b>	0.1 U	<b>0.1</b>	0.1 U	<b>0.1</b>	<b>1.3</b>	0.1 U	<b>0.3</b>
Arsenic (mg/kg)	<b>26</b>	<b>33</b>	<b>173</b>	<b>77</b>	<b>60</b>	<b>91</b>	<b>124</b>	<b>260</b>	<b>62.1</b>	<b>47</b>
Cadmium (mg/kg)	<b>0.8</b>	<b>1.1</b>	<b>3.2</b>	<b>1</b>	<b>1.6</b>	<b>2</b>	<b>2.1</b>	<b>5.1</b>	<b>0.9</b>	<b>0.9</b>
Chromium (mg/kg)	<b>86</b>	<b>99</b>	<b>138</b>	<b>71</b>	<b>78</b>	<b>95</b>	<b>106</b>	<b>112</b>	<b>66</b>	<b>43</b>
Copper (mg/kg)	<b>61</b>	<b>166</b>	<b>539</b>	<b>187</b>	<b>254</b>	<b>292</b>	<b>309</b>	<b>483</b>	<b>131</b>	<b>75</b>
Lead (mg/kg)	<b>140</b>	<b>93.4</b>	<b>148</b>	<b>71.3</b>	<b>102</b>	<b>106</b>	<b>111</b>	<b>232</b>	<b>45.4</b>	<b>15.7</b>
Mercury (mg/kg)	<b>0.5</b>	<b>1.5</b>	<b>2.3</b>	<b>1.2</b>	<b>1.9</b>	<b>2.4</b>	<b>2</b>	<b>10.9</b>	<b>0.6</b>	<b>0.3</b>
Nickel (mg/kg)	<b>115</b>	<b>91</b>	<b>94</b>	<b>64</b>	<b>74</b>	<b>81</b>	<b>94</b>	<b>86</b>	<b>56</b>	<b>29</b>
Selenium (mg/kg)	2 U	2 U	<b>5</b>	2 U	<b>2</b>	<b>4</b>	<b>3</b>	<b>25</b>	<b>3</b>	<b>4</b>
Silver (mg/kg)	<b>0.3</b>	<b>0.6</b>	<b>0.7</b>	<b>0.4</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>1.7</b>	<b>0.3</b>	0.1 U
Thallium (mg/kg)	<b>0.1</b>	<b>0.2</b>	<b>0.3</b>	<b>0.2</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.8</b>	0.1 U	0.1 U
Zinc (mg/kg)	<b>269</b>	<b>549</b>	<b>1285</b>	<b>582</b>	<b>721</b>	<b>1030</b>	<b>1170</b>	<b>1240</b>	<b>681</b>	<b>864</b>
<b>5. Pesticides/PCBs</b>										
a-BHC (mg/kg)	0.00099 U	0.00039 U	<b>0.00054</b>		0.0032 U		0.002 U	<b>0.032</b>	<b>0.017</b>	<b>0.014</b>
a-chlordane (mg/kg)	<b>0.028</b>	<b>0.0074</b>	<b>0.013</b>		<b>0.061</b>		<b>0.058</b>	<b>0.047</b>	<b>0.033</b>	<b>0.013</b>
Aldrin (mg/kg)	0.00074 U	0.00029 U	0.00048 U		0.0036 U		0.0007 U	0.013 U	0.00028 U	0.005 U
b-BHC (mg/kg)	0.0026 U	<b>0.0012</b>	0.00043 U		0.0044 U		0.0008 U	0.0047 U	<b>0.0042</b>	<b>0.0064</b>
d-BHC (mg/kg)	<b>0.00038</b>	0.00008 U	0.0017 U		0.00066 U		<b>0.0015</b>	<b>0.0018</b>	0.00072 U	<b>0.0026</b>
Dieldrin (mg/kg)	<b>0.028</b>	<b>0.0056</b>	<b>0.0044</b>		<b>0.026</b>		<b>0.0088</b>	<b>0.018</b>	<b>0.014</b>	<b>0.0067</b>
Endosulfan I (mg/kg)	0.00008 U	<b>0.00042</b>	0.0012 U		<b>0.0022</b>		<b>0.00018</b>	0.0002 U	0.00044 U	0.00009 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	CC-1	SM-1	SM-10	SM-2	SM-3	SM-4	SM-5	SM-6	SM-7	SM-8
Sample Date	6/24/98	6/21/98	6/23/98	6/21/98	6/22/98	6/22/98	6/22/98	6/23/98	6/24/98	6/30/98
Horizon										
Endosulfan II (mg/kg)	<b>0.00049</b>	<b>0.001</b>	0.0014 U		0.0014 U		0.00056 U	0.00026 U	<b>0.00083</b>	0.00033 U
Endosulfan Sulfate (mg/kg)	<b>0.00024</b>	0.00018 U	0.0017 U		<b>0.00092</b>		<b>0.00042</b>	<b>0.001</b>	<b>0.0012</b>	<b>0.00026</b>
Endrin (mg/kg)	<b>0.0027</b>	<b>0.00016</b>	0.0012 U		<b>0.0036</b>		<b>0.0002</b>	<b>0.0002</b>	0.00023 U	<b>0.00008</b>
Endrin Aldehyde (mg/kg)	<b>0.00025</b>	0.00012 U	0.0024 U		0.003 U		0.00012 U	0.00033 U	<b>0.00047</b>	0.00022 U
Endrin/Ketone (mg/kg)	0.00026 U	0.00018 U	0.0023 U		0.0015 U		<b>0.00022</b>	0.00049 U	<b>0.0011</b>	0.00011 U
g-BHC (mg/kg)	<b>0.002</b>	0.00095 U	0.00059 U		0.0037 U		<b>0.0029</b>	0.0071 U	0.0068 U	<b>0.0038</b>
g-chlordane (mg/kg)	<b>0.029</b>	<b>0.0067</b>	<b>0.012</b>		<b>0.062</b>		<b>0.062</b>	<b>0.074</b>	<b>0.059</b>	<b>0.018</b>
Heptachlor (mg/kg)	0.0011 U	0.00094 U	0.0018 U		-0.014 U		0.0013 U	0.0013 U	0.0012 U	0.00096 U
Heptachlor Epoxide (mg/kg)	<b>0.0013</b>	<b>0.00022</b>	0.0032 U		<b>0.00074</b>		<b>0.00051</b>	0.0002 U	<b>0.00033</b>	<b>0.00015</b>
Methoxychlor (mg/kg)	0.00081 U	0.00057 U	0.0041 U		0.0154 U		0.00054 U	0.0015 U	0.00074 U	0.0012 U
Mirex (mg/kg)	0.0018 U	0.00088 U	0.00045 U		0.0027 U		0.0014 U	0.002 U	<b>0.0026</b>	0.0009 U
p,p -DDD (mg/kg)	<b>0.075</b>	<b>0.063</b>	<b>0.11</b>		<b>1.8</b>		<b>0.15</b>	<b>0.35</b>	<b>0.35</b>	<b>0.13</b>
p,p -DDE (mg/kg)	<b>0.017</b>	<b>0.021</b>	<b>0.031</b>		<b>0.225</b>		<b>0.046</b>	<b>0.069</b>	<b>0.067</b>	<b>0.036</b>
p,p -DDT (mg/kg)	<b>0.02</b>	<b>0.018</b>	0.085 U		<b>0.325</b>		<b>0.03</b>	<b>0.037</b>	<b>0.15</b>	<b>0.038</b>
PCB Total PCBsA (mg/kg)	<b>0.818</b>	<b>0.15</b>	<b>0.282</b>		<b>0.253</b>		<b>0.226</b>	<b>0.381</b>	<b>0.438</b>	<b>0.296</b>
Toxaphene (mg/kg)	<b>0.023</b>	<b>0.067</b>	<b>68</b>		<b>22</b>		<b>0.06</b>	<b>0.014</b>	<b>0.015</b>	<b>0.0048</b>
<b>6. Proprietary Pesticides</b>										
Bensulide (mg/kg)	0.041 U	<b>0.054</b>	<b>0.658</b>	<b>0.104</b>	<b>0.091</b>	<b>0.143</b>	<b>0.091</b>	<b>0.232</b>	0.124 U	0.133 U
Butylate (mg/kg)	0.082 U	0.095 U	0.159 U	0.083 U	<b>0.405</b>	0.124 U	0.151 U	0.131 U	0.248 U	0.267 U
Captan (mg/kg)	0.082 U	0.095 U	0.159 U	0.083 U	0.101 U	0.124 U	0.151 U	0.131 U	0.248 U	0.267 U
Carbophenothion (mg/kg)	0.082 U	0.095 U	0.159 U	0.083 U	<b>0.109</b>	0.124 U	0.151 U	0.131 U	0.248 U	0.267 U
Cycloate (mg/kg)	0.082 U	0.095 U	0.159 U	0.083 U	<b>0.228</b>	0.124 U	0.151 U	0.131 U	0.248 U	0.267 U
EPTC (mg/kg)	0.082 U	<b>0.158</b>	<b>0.153</b>	<b>0.27</b>	<b>0.658</b>	<b>0.559</b>	<b>0.453</b>	<b>0.392</b>	0.248 U	0.267 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	CC-1	SM-1	SM-10	SM-2	SM-3	SM-4	SM-5	SM-6	SM-7	SM-8
Sample Date	6/24/98	6/21/98	6/23/98	6/21/98	6/22/98	6/22/98	6/22/98	6/23/98	6/24/98	6/30/98
Horizon										
Fluorochloridone (mg/kg)	0.082 U	0.095 U	0.159 U	0.083 U	<b>0.122</b>	0.031 U	0.151 U	0.131 U	0.248 U	0.267 U
Fonofos (mg/kg)	0.041 U	0.047 U	<b>0.158</b>	0.041 U	0.051 U	0.062 U	0.075 U	0.033 U	0.124 U	0.139 U
Metam sodium (mg/kg)	0.36 U	0.42 U	0.7 U	0.37 U	0.45 U	0.55 U	0.67 U	0.58 U	1.1 U	1.2 U
Molinate (mg/kg)	0.082 U	<b>0.132</b>	<b>0.151</b>	<b>0.114</b>	<b>0.213</b>	<b>0.146</b>	<b>0.136</b>	0.131 U	0.248 U	0.267 U
Napropamide (mg/kg)	0.082 U	0.095 U	0.159 U	<b>0.073</b>	<b>0.455</b>	0.124 U	0.151 U	0.131 U	0.248 U	0.267 U
Pebulate (mg/kg)	0.082 U	<b>0.035</b>	<b>0.239</b>	<b>0.154</b>	<b>0.582</b>	<b>0.559</b>	<b>0.177</b>	0.131 U	0.248 U	0.267 U
Phosmet (mg/kg)	0.041 U	0.095 U	0.08 U	0.041 U	0.051 U	0.062 U	0.075 U	0.065 U	0.124 U	0.133 U
R-25788 (mg/kg)	0.082 U	0.095 U	<b>0.203</b>	0.083 U	0.101 U	0.124 U	0.151 U	0.131 U	0.248 U	0.267 U
R-29148 (mg/kg)	0.082 U	0.095 U	0.159 U	0.083 U	0.101 U	0.124 U	0.151 U	0.131 U	0.248 U	0.267 U
Vernolate (mg/kg)	0.082 U	0.095 U	0.04 U	<b>0.054</b>	0.101 U	0.124 U	0.151 U	0.131 U	0.248 U	0.267 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	SM-9	SX-1	SX-2	SX-3	SX-4	SX-5	VC-1-0/2	VC-1-2/4	VC-10-0/2	VC-10-2/4
Sample Date	6/23/98	6/23/98	6/23/98	6/23/98	6/23/98	6/24/98	8/31/94	8/31/94	9/2/94	9/2/94
Horizon										
<b>1. Metals</b>										
Aluminum (mg/kg)	<b>19200</b>	<b>16200</b>	<b>1970</b>	<b>9060</b>	<b>9600</b>	<b>13800</b>	<b>27300</b>	<b>9720</b>	<b>7680</b>	<b>11000</b>
Antimony (mg/kg)	0.1 U	<b>0.6</b>	<b>0.2</b>	<b>0.2</b>	<b>0.4</b>	<b>0.3</b>	<b>0.54</b>	<b>0.03</b>	<b>41.4</b>	<b>28</b>
Arsenic (mg/kg)	<b>38</b>	<b>45</b>	<b>24</b>	<b>214</b>	<b>56</b>	<b>31</b>	<b>771</b>	<b>19.5</b>	<b>473</b>	<b>366</b>
Cadmium (mg/kg)	<b>0.6</b>	<b>6.3</b>	<b>0.2</b>	<b>0.4</b>	<b>0.9</b>	<b>2</b>	<b>3.45</b>	<b>0.49</b>	<b>29</b>	<b>7.01</b>
Chromium (mg/kg)	<b>66</b>	<b>46</b>	<b>10</b>	<b>14</b>	<b>26</b>	<b>42</b>	<b>119</b>	<b>32.7</b>	<b>34.9</b>	<b>45</b>
Copper (mg/kg)	<b>109</b>	<b>723</b>	<b>20</b>	<b>24</b>	<b>50</b>	<b>84</b>	<b>644</b>	<b>49.8</b>	<b>5390</b>	<b>908</b>
Lead (mg/kg)	<b>64.7</b>	<b>35.5</b>	<b>3.4</b>	<b>6.1</b>	<b>9.4</b>	<b>8.3</b>	<b>528</b>	<b>30</b>	<b>740</b>	<b>363</b>
Mercury (mg/kg)	<b>1</b>	<b>0.8</b>	0.2 U	0.2 U	0.2 U	0.2 U	<b>5</b>	<b>3</b>	<b>72.9</b>	<b>34.7</b>
Nickel (mg/kg)	<b>61</b>	<b>33</b>	<b>2</b>	<b>4</b>	<b>13</b>	<b>20</b>	<b>80.5</b>	<b>40</b>	<b>16.8</b>	<b>23.1</b>
Selenium (mg/kg)	2 U	<b>8</b>	2 U	2 U	<b>3</b>	<b>4</b>	<b>25</b>	<b>3</b>	<b>95</b>	<b>92</b>
Silver (mg/kg)	<b>0.3</b>	<b>0.4</b>	0.1 U	0.1 U	0.1 U	0.1 U	<b>0.69</b>	<b>0.13</b>	<b>26.5</b>	<b>4.41</b>
Thallium (mg/kg)	<b>0.2</b>	<b>0.1</b>	0.1 U	0.1 U	0.1 U	0.1 U	<b>0.83</b>	<b>0.12</b>	<b>1.64</b>	<b>1.46</b>
Zinc (mg/kg)	<b>432</b>	<b>2510</b>	<b>196</b>	<b>1330</b>	<b>1340</b>	<b>2070</b>	<b>1370</b>	<b>159</b>	<b>5320</b>	<b>1590</b>
<b>5. Pesticides/PCBs</b>										
a-BHC (mg/kg)	<b>0.0044</b>	<b>0.008</b>			<b>0.0077</b>		<b>0.0014</b>	0.00011 U	<b>0.02</b>	<b>0.14</b>
a-chlordane (mg/kg)	<b>0.0152</b>	<b>0.00072</b>			<b>0.0012</b>		<b>0.01</b>	<b>0.00005</b>	<b>0.0096</b>	<b>0.034</b>
Aldrin (mg/kg)	<b>0.00036</b>	0.00027 U			0.00029 U		0.0002 U	0.00005 U	<b>0.002</b>	<b>0.00054</b>
b-BHC (mg/kg)	<b>0.0033</b>	<b>0.0057</b>			<b>0.0093</b>		0.00079 U	0.00011 U	<b>0.0058</b>	<b>0.037</b>
d-BHC (mg/kg)	0.00018 U	<b>0.0044</b>			<b>0.0072</b>		0.0006 U	0.00009 U	<b>0.018</b>	
Dieldrin (mg/kg)	<b>0.013</b>	<b>0.00088</b>			<b>0.0019</b>		<b>0.02</b>	<b>0.00007</b>	<b>0.027</b>	<b>0.015</b>
Endosulfan I (mg/kg)	<b>0.0097</b>	<b>0.00014</b>			<b>0.00024</b>		0.001 U	0.00003 U	0.00007 U	0.00012 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	SM-9	SX-1	SX-2	SX-3	SX-4	SX-5	VC-1-0/2	VC-1-2/4	VC-10-0/2	VC-10-2/4
Sample Date	6/23/98	6/23/98	6/23/98	6/23/98	6/23/98	6/24/98	8/31/94	8/31/94	9/2/94	9/2/94
Horizon										
Endosulfan II (mg/kg)	<b>0.0072</b>	<b>0.00035</b>			<b>0.00049</b>		<b>0.00066</b>	0.00005 U	<b>0.00033</b>	0.00017 U
Endosulfan Sulfate (mg/kg)	0.00138 U	<b>0.00037</b>			0.00014 U		<b>0.00082</b>	0.00005 U	<b>0.0053</b>	0.00017 U
Endrin (mg/kg)	<b>0.00418</b>	<b>0.00026</b>			0.00013 U		<b>0.0011</b>	0.0001 U	0.00018 U	0.00019 U
Endrin Aldehyde (mg/kg)	0.00048 U	0.00004 U			0.00022 U		0.00053 U	0.00006 U	0.0001 U	0.00015 U
Endrin/Ketone (mg/kg)	0.00254 U	0.00005 U			0.00031 U		<b>0.00056</b>	0.00004 U	<b>0.00015</b>	<b>0.00012</b>
g-BHC (mg/kg)	0.0015 U	0.0027 U			0.0044 U		<b>0.0032</b>		<b>0.0046</b>	<b>0.012</b>
g-chlordane (mg/kg)	<b>0.0162</b>	<b>0.00066</b>			<b>0.0013</b>		<b>0.0097</b>	<b>0.00004</b>	<b>0.016</b>	<b>0.045</b>
Heptachlor (mg/kg)	0.0005 U	0.001 U			0.0017 U		0.0011 U	0.00032 U	0.00022 U	0.00046 U
Heptachlor Epoxide (mg/kg)	0.00027 U	0.00002 U			<b>0.00019</b>		<b>0.0014</b>	0.00004 U	0.00008 U	0.00009 U
Methoxychlor (mg/kg)	0.00086 U	0.00018 U			0.0012 U		0.0022 U	0.00027 U	0.00045 U	0.00083 U
Mirex (mg/kg)	<b>0.00102</b>	0.00036 U			0.00065 U		0.0015 U	0.00015 U	<b>0.00088</b>	0.0006 U
p,p -DDD (mg/kg)	<b>0.265</b>	<b>0.0097</b>			<b>0.015</b>		<b>0.11</b>	<b>0.0004</b>	<b>0.34</b>	<b>1.1</b>
p,p -DDE (mg/kg)	<b>0.05</b>	<b>0.0015</b>			<b>0.005</b>		<b>0.086</b>	<b>0.0004</b>	<b>0.025</b>	<b>0.035</b>
p,p -DDT (mg/kg)	<b>0.0675</b>	<b>0.0021</b>			<b>0.0054</b>		<b>0.088</b>	<b>0.00023</b>	<b>0.012</b>	<b>0.1</b>
PCB Total PCBsA (mg/kg)	<b>0.121</b>	<b>0.009</b>			<b>0.031</b>		<b>0.22766</b>	<b>0.0023</b>	<b>0.6802</b>	<b>0.14038</b>
Toxaphene (mg/kg)	<b>0.845</b>	<b>0.011</b>			<b>0.0039</b>		<b>0.1</b>	0.0002 U	<b>0.0078</b>	<b>0.0088</b>
<b>6. Proprietary Pesticides</b>										
Bensulide (mg/kg)	<b>0.116</b>	0.112 U	0.056 U	0.072 U	<b>0.126</b>	0.168 U	<b>0.05</b>	0.014 U	0.017 U	0.015 U
Butylate (mg/kg)	0.072 U	<b>0.427</b>	0.112 U	0.145 U	0.229 U	0.336 U	0.039 U	0.014 U	0.017 U	0.015 U
Captan (mg/kg)	0.072 U	0.225 U	0.112 U	0.145 U	0.229 U	0.336 U	0.078 U	0.027 U	0.033 U	0.031 U
Carbophenothion (mg/kg)	0.072 U	0.056 U	<b>0.029</b>	0.036 U	0.057 U	0.084 U	0.039 U	0.014 U	<b>0.158</b>	<b>0.028</b>
Cycloate (mg/kg)	0.072 U	0.056 U	0.112 U	0.145 U	0.229 U	0.336 U	<b>0.078</b>	<b>0.024</b>	0.017 U	0.015 U
EPTC (mg/kg)	<b>0.289</b>	0.225 U	0.112 U	0.145 U	0.229 U	0.336 U	<b>0.299</b>	<b>0.099</b>	<b>0.043</b>	0.015 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	SM-9	SX-1	SX-2	SX-3	SX-4	SX-5	VC-1-0/2	VC-1-2/4	VC-10-0/2	VC-10-2/4
Sample Date	6/23/98	6/23/98	6/23/98	6/23/98	6/23/98	6/24/98	8/31/94	8/31/94	9/2/94	9/2/94
Horizon										
Fluorochloridone (mg/kg)	0.072 U	0.056 U	0.112 U	0.145 U	0.229 U	0.336 U	0.039 U	0.014 U	<b>0.02</b>	0.015 U
Fonofos (mg/kg)	0.036 U	0.056 U	0.057 U	0.072 U	0.114 U	0.168 U	0.039 U	0.014 U	0.017 U	0.015 U
Metam sodium (mg/kg)	0.32 U	0.99 U	0.495 U	0.64 U	1 U	1.5 U	0.349 U	0.122 U	0.15 U	0.139 U
Molinate (mg/kg)	<b>0.416</b>	0.056 U	0.112 U	0.145 U	0.022 U	0.336 U	<b>0.26</b>	<b>0.095</b>	0.017 U	0.015 U
Napropamide (mg/kg)	<b>0.416</b>	0.225 U	0.112 U	0.145 U	0.229 U	0.336 U	<b>0.047</b>	0.014 U	<b>0.018</b>	0.015 U
Pebulate (mg/kg)	<b>0.098</b>	0.056 U	<b>0.06</b>	0.145 U	0.229 U	0.336 U	<b>0.466</b>	<b>0.112</b>	<b>0.035</b>	<b>0.031</b>
Phosmet (mg/kg)	0.036 U	0.112 U	0.056 U	0.072 U	0.114 U	0.168 U	0.039 U	0.014 U	0.017 U	0.015 U
R-25788 (mg/kg)	0.072 U	<b>0.674</b>	0.112 U	0.145 U	0.229 U	0.336 U	0.039 U	0.014 U	<b>0.018</b>	0.015 U
R-29148 (mg/kg)	0.072 U	0.225 U	0.112 U	0.145 U	0.229 U	0.336 U	0.039 U	0.014 U	0.017 U	0.015 U
Vernolate (mg/kg)	0.072 U	0.056 U	0.028 U	0.145 U	0.229 U	0.336 U	<b>0.194</b>	<b>0.05</b>	<b>0.017</b>	0.015 U



**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	VC-10-4/6	VC-2-0/2	VC-2-2/4	VC-3-0/2	VC-3-2/4	VC-4-0/2	VC-4-2/4	VC-5-0/1.5	VC-5-1.5/3.5	VC-5-3.5/5.5
Sample Date	9/2/94	8/31/94	8/31/94	9/1/94	9/1/94	9/3/94	9/3/94	9/3/94	9/3/94	9/3/94
Horizon										
<b>1. Metals</b>										
Aluminum (mg/kg)	<b>11500</b>	<b>21200</b>	<b>14400</b>	<b>16100</b>	<b>11800</b>	<b>25300</b>	<b>10600</b>	<b>38100</b>	<b>21200</b>	<b>12700</b>
Antimony (mg/kg)	<b>0.27</b>	<b>0.32</b>	<b>0.03</b>	<b>0.27</b>	<b>0.14</b>	<b>12.6</b>	<b>24.3</b>	<b>21.5</b>	<b>16.4</b>	<b>0.92</b>
Arsenic (mg/kg)	<b>12.9</b>	<b>384</b>	<b>11.5</b>	<b>323</b>	<b>97.9</b>	<b>512</b>	<b>443</b>	<b>426</b>	<b>505</b>	<b>44.6</b>
Cadmium (mg/kg)	<b>0.43</b>	<b>1.78</b>	<b>0.3</b>	<b>1.7</b>	<b>0.99</b>	<b>16.4</b>	<b>26.8</b>	<b>8.1</b>	<b>9.97</b>	<b>0.62</b>
Chromium (mg/kg)	<b>25.9</b>	<b>68.2</b>	<b>36.4</b>	<b>52.1</b>	<b>37.8</b>	<b>60.6</b>	<b>50.9</b>	<b>121</b>	<b>123</b>	<b>39.2</b>
Copper (mg/kg)	<b>38</b>	<b>486</b>	<b>63.5</b>	<b>393</b>	<b>168</b>	<b>848</b>	<b>3890</b>	<b>975</b>	<b>889</b>	<b>115</b>
Lead (mg/kg)	0.02 U	<b>185</b>	<b>35.5</b>	<b>146</b>	<b>96.9</b>	<b>297</b>	<b>818</b>	<b>317</b>	<b>362</b>	<b>53</b>
Mercury (mg/kg)	<b>1.1</b>	<b>5.7</b>	<b>1.9</b>	<b>12.3</b>	<b>7.2</b>	<b>46</b>	<b>55.4</b>	<b>12.2</b>	<b>18.9</b>	<b>4.5</b>
Nickel (mg/kg)	<b>35.1</b>	<b>57.1</b>	<b>47.2</b>	<b>34.6</b>	<b>40.9</b>	<b>30.5</b>	<b>28.7</b>	<b>45.1</b>	<b>41.5</b>	<b>33.8</b>
Selenium (mg/kg)	1 U	<b>16</b>	<b>4</b>	<b>14</b>	<b>8</b>	<b>130</b>	<b>352</b>	<b>30</b>	<b>43</b>	<b>2</b>
Silver (mg/kg)	<b>0.1</b>	<b>0.52</b>	<b>0.09</b>	<b>0.82</b>	<b>0.25</b>	<b>1.3</b>	<b>15.6</b>	<b>5.19</b>	<b>3.8</b>	<b>0.24</b>
Thallium (mg/kg)	<b>0.25</b>	<b>0.57</b>	<b>0.17</b>	<b>0.43</b>	<b>0.26</b>	<b>1.74</b>	<b>1.61</b>	<b>1.23</b>	<b>0.86</b>	<b>0.26</b>
Zinc (mg/kg)	<b>92</b>	<b>916</b>	<b>174</b>	<b>1010</b>	<b>517</b>	<b>4140</b>	<b>6210</b>	<b>2560</b>	<b>2380</b>	<b>257</b>
<b>5. Pesticides/PCBs</b>										
a-BHC (mg/kg)	<b>0.00039</b>		0.00044 U	<b>0.001</b>	<b>0.00046</b>	<b>0.057</b>	<b>0.042</b>	0.00059 U	<b>0.053</b>	<b>0.0017</b>
a-chlordane (mg/kg)	0.00009 U	<b>0.01</b>	0.00019 U	<b>0.0013</b>	<b>0.0013</b>	<b>0.0094</b>	<b>0.018</b>	<b>0.0028</b>	<b>0.022</b>	<b>0.00098</b>
Aldrin (mg/kg)	0.00008 U	0.0011 U	0.00031 U	0.00008 U	0.00003 U	<b>0.00055</b>	<b>0.00075</b>	0.00056 U	<b>0.00052</b>	0.00019 U
b-BHC (mg/kg)	0.00017 U	0.0053 U	0.00052 U	<b>0.00054</b>	0.00024 U	<b>0.013</b>	<b>0.011</b>	0.00098 U	<b>0.013</b>	<b>0.00078</b>
d-BHC (mg/kg)	<b>0.00022</b>	0.0034 U	0.0006 U	0.0004 U	0.0002 U			<b>0.00036</b>	<b>0.011</b>	<b>0.00045</b>
Dieldrin (mg/kg)	<b>0.00014</b>	<b>0.0032</b>	0.00003 U	<b>0.0016</b>	0.0005 U	<b>0.0084</b>	<b>0.019</b>	<b>0.02</b>	<b>0.0096</b>	<b>0.00078</b>
Endosulfan I (mg/kg)	0.00004 U	0.00006 U	0.0005 U	0.0005 U	0.0005 U	0.00033 U	0.00008 U	0.00011 U	0.00012 U	0.00001 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	VC-10-4/6	VC-2-0/2	VC-2-2/4	VC-3-0/2	VC-3-2/4	VC-4-0/2	VC-4-2/4	VC-5-0/1.5	VC-5-1.5/3.5	VC-5-3.5/5.5
Sample Date	9/2/94	8/31/94	8/31/94	9/1/94	9/1/94	9/3/94	9/3/94	9/3/94	9/3/94	9/3/94
Horizon										
Endosulfan II (mg/kg)	0.00005 U	0.00008 U	0.00013 U	0.00011 U	0.00012 U	0.0004 U	0.0001 U	0.00016 U	0.00016 U	0.00002 U
Endosulfan Sulfate (mg/kg)	0.00006 U	0.00008 U	0.00014 U	<b>0.00023</b>	0.00012 U	<b>0.0035</b>	<b>0.0072</b>	0.00028 U	0.00017 U	0.00002 U
Endrin (mg/kg)	0.00011 U	0.00015 U	0.00008 U	0.00013 U	0.00012 U	0.0003 U	0.00008 U	0.00029 U	0.00016 U	0.00002 U
Endrin Aldehyde (mg/kg)	0.00006 U	0.00012 U	0.00006 U	0.0001 U	0.0001 U	0.00026 U	0.00006 U	0.00019 U	0.00012 U	0.00002 U
Endrin/ketone (mg/kg)	0.00004 U	0.00007 U	0.00004 U	0.00006 U	0.00006 U	0.00016 U	<b>0.00025</b>	<b>0.00018</b>	<b>0.0002</b>	0.00001 U
g-BHC (mg/kg)		<b>0.029</b>				<b>0.0043</b>	<b>0.0038</b>		<b>0.0065</b>	
g-chlordane (mg/kg)	0.00009 U	<b>0.017</b>	0.0002 U	<b>0.0019</b>	<b>0.0018</b>	<b>0.015</b>	<b>0.029</b>	<b>0.0037</b>	<b>0.038</b>	<b>0.0022</b>
Heptachlor (mg/kg)	0.00057 U	0.0015 U	0.0016 U	0.0003 U	0.00038 U	0.0011 U	0.00061 U	0.0045 U	0.00046 U	0.00069 U
Heptachlor Epoxide (mg/kg)	0.00005 U	0.00007 U	0.00006 U	0.00006 U	0.00006 U	0.00016 U	0.00004 U	0.00013 U	0.00008 U	0.00001 U
Methoxychlor (mg/kg)	0.00027 U	0.00064 U	0.00024 U	0.00048 U	0.00039 U	0.001 U	0.00032 U	0.00079 U	0.00069 U	0.0001 U
Mirex (mg/kg)	0.0002 U	<b>0.0013</b>	0.0003 U	0.00045 U	0.0003 U	0.00055 U	0.00065 U		<b>0.00091</b>	0.00025 U
p,p -DDD (mg/kg)	<b>0.0029</b>	<b>0.072</b>	<b>0.00055</b>	<b>0.064</b>	<b>0.052</b>	<b>1.3</b>	<b>0.75</b>	<b>0.049</b>	<b>0.91</b>	<b>0.032</b>
p,p -DDE (mg/kg)	<b>0.00017</b>	<b>0.041</b>	<b>0.00049</b>	<b>0.0075</b>	<b>0.0037</b>	<b>0.037</b>	<b>0.031</b>	<b>0.028</b>	<b>0.043</b>	<b>0.0018</b>
p,p -DDT (mg/kg)	<b>0.00038</b>	<b>0.053</b>	<b>0.00041</b>	<b>0.0066</b>	<b>0.0037</b>	<b>0.45</b>	<b>0.3</b>	<b>0.0038</b>	<b>0.17</b>	<b>0.0024</b>
PCB Total PCBsA (mg/kg)	<b>0.0021</b>	<b>0.06435</b>	<b>0.00097</b>	<b>0.04821</b>	<b>0.01546</b>	<b>0.3012</b>	<b>0.7479</b>	<b>0.3714</b>	<b>0.2966</b>	<b>0.02774</b>
Toxaphene (mg/kg)	0.00031 U	0.0006 U	0.00018 U	0.0007 U	0.00028 U	<b>0.0067</b>	<b>0.011</b>	0.0011 U	<b>0.0039</b>	0.0004 U
<b>6. Proprietary Pesticides</b>										
Bensulide (mg/kg)	0.014 U	0.025 U	0.013 U	<b>0.028</b>	0.016 U	<b>1.014</b>	<b>0.249</b>	<b>0.344</b>	<b>0.339</b>	<b>0.029</b>
Butylate (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	0.016 U	0.026 U	0.017 U	0.048 U	<b>0.016</b>	0.015 U
Captan (mg/kg)	0.029 U	0.051 U	0.026 U	0.035 U	0.031 U	0.052 U	0.033 U	0.065 U	<b>0.353</b>	0.029 U
Carbophenothion (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	0.016 U	<b>0.093</b>	<b>0.493</b>	<b>0.046</b>	<b>0.096</b>	0.015 U
Cycloate (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	0.016 U	0.026 U	0.017 U	0.048 U	0.02 U	0.015 U
EPTC (mg/kg)	0.014 U	<b>0.051</b>	0.013 U	0.018 U	0.016 U	<b>0.054</b>	<b>0.085</b>	0.048 U	<b>0.251</b>	<b>0.025</b>

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	VC-10-4/6	VC-2-0/2	VC-2-2/4	VC-3-0/2	VC-3-2/4	VC-4-0/2	VC-4-2/4	VC-5-0/1.5	VC-5-1.5/3.5	VC-5-3.5/5.5
Sample Date	9/2/94	8/31/94	8/31/94	9/1/94	9/1/94	9/3/94	9/3/94	9/3/94	9/3/94	9/3/94
Horizon										
Fluorochloridone (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	0.016 U	<b>0.041</b>	<b>0.067</b>	0.024 U	<b>0.055</b>	0.015 U
Fonofos (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	0.016 U	<b>0.026</b>	<b>0.018</b>	<b>0.733</b>	0.02 U	0.015 U
Metam Sodium (mg/kg)	0.13 U	0.228 U	0.119 U	0.159 U	0.14 U	0.232 U	0.15 U	<b>0.525</b>	0.184 U	0.133 U
Molinate (mg/kg)	0.014 U	<b>0.028</b>	0.013 U	0.018 U	0.016 U	<b>0.052</b>	<b>0.017</b>	<b>0.162</b>	<b>0.067</b>	0.015 U
Napropamide (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	<b>0.028</b>	<b>0.157</b>	0.017 U	<b>0.329</b>	<b>0.047</b>	0.015 U
Pebulate (mg/kg)	<b>0.115</b>	0.025 U	0.013 U	0.018 U	0.016 U	<b>0.049</b>	<b>0.022</b>	<b>0.581</b>	<b>0.104</b>	0.015 U
Phosmet (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	0.016 U	0.026 U	0.017 U	0.033 U	0.02 U	0.015 U
R-25788 (mg/kg)	<b>0.017</b>	0.025 U	0.013 U	0.018 U	0.016 U	<b>0.034</b>	0.017 U	<b>0.077</b>	<b>0.022</b>	0.015 U
R-29148 (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	0.016 U	0.026 U	0.017 U	0.048 U	0.02 U	0.015 U
Vernolate (mg/kg)	0.014 U	0.025 U	0.013 U	0.018 U	0.016 U	0.026 U	0.017 U	0.048 U	0.02 U	0.015 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	VC-6-0/2	VC-6-2/3.5	VC-7-0/2	VC-7-2/4	VC-7-4/6	VC-8-0/2	VC-8-2/4	VC-8-4/6	VC-9-0/2	VC-9-2/4
Sample Date	9/1/94	9/1/94	8/30/94	8/30/94	8/30/94	8/30/94	8/30/94	8/30/94	8/31/94	8/31/94
Horizon										
<b>1. Metals</b>										
Aluminum (mg/kg)	<b>64700</b>	<b>11300</b>	<b>33800</b>	<b>17400</b>	<b>18700</b>	<b>29000</b>	<b>21300</b>	<b>21700</b>	<b>35800</b>	<b>23700</b>
Antimony (mg/kg)	<b>0.45</b>	<b>0.19</b>	<b>0.71</b>	<b>0.27</b>	<b>0.3</b>	<b>0.19</b>	<b>0.21</b>	<b>0.27</b>	<b>0.62</b>	<b>0.27</b>
Arsenic (mg/kg)	<b>501</b>	<b>101</b>	<b>236</b>	<b>188</b>	<b>193</b>	<b>167</b>	<b>167</b>	<b>220</b>	<b>310</b>	<b>314</b>
Cadmium (mg/kg)	<b>8.22</b>	<b>1.52</b>	<b>3.67</b>	<b>3.31</b>	<b>3.33</b>	<b>2.58</b>	<b>3.51</b>	<b>3.35</b>	<b>5.55</b>	<b>3.47</b>
Chromium (mg/kg)	<b>146</b>	<b>45.3</b>	<b>107</b>	<b>91.4</b>	<b>92.9</b>	<b>99.9</b>	<b>96.6</b>	<b>82.5</b>	<b>116</b>	<b>85.6</b>
Copper (mg/kg)	<b>1200</b>	<b>211</b>	<b>477</b>	<b>520</b>	<b>500</b>	<b>225</b>	<b>472</b>	<b>388</b>	<b>569</b>	<b>527</b>
Lead (mg/kg)	<b>256</b>	<b>69.8</b>	<b>266</b>	<b>188</b>	<b>182</b>	<b>176</b>	<b>171</b>	<b>147</b>	<b>346</b>	<b>161</b>
Mercury (mg/kg)	<b>3.8</b>	<b>3.2</b>	<b>9.1</b>	<b>11.6</b>	<b>11.5</b>	<b>4.2</b>	<b>11.7</b>	<b>7.6</b>	<b>6.4</b>	<b>11.5</b>
Nickel (mg/kg)	<b>79.2</b>	<b>35.1</b>	<b>66.8</b>	<b>60</b>	<b>62.4</b>	<b>78.3</b>	<b>68.3</b>	<b>59.2</b>	<b>79</b>	<b>65.6</b>
Selenium (mg/kg)	<b>12</b>	<b>10</b>	<b>30</b>	<b>19</b>	<b>20</b>	<b>20</b>	<b>14</b>	<b>20</b>	<b>27</b>	<b>23</b>
Silver (mg/kg)	<b>1.13</b>	<b>0.48</b>	<b>1.37</b>	<b>1.12</b>	<b>1.07</b>	<b>0.69</b>	<b>0.97</b>	<b>0.74</b>	<b>1.56</b>	<b>1.01</b>
Thallium (mg/kg)	<b>0.37</b>	<b>0.3</b>	<b>0.9</b>	<b>0.6</b>	<b>0.62</b>	<b>0.43</b>	<b>0.49</b>	<b>0.48</b>	<b>0.74</b>	<b>0.6</b>
Zinc (mg/kg)	<b>3260</b>	<b>427</b>	<b>1260</b>	<b>1060</b>	<b>1160</b>	<b>756</b>	<b>1410</b>	<b>1280</b>	<b>1710</b>	<b>1470</b>
<b>5. Pesticides/PCBs</b>										
a-BHC (mg/kg)	<b>0.0029</b>	<b>0.001</b>	<b>0.0059</b>	<b>0.0021</b>	<b>0.001</b>	<b>0.0023</b>	0.00028 U	<b>0.0012</b>	0.0041 U	<b>0.0054</b>
a-chlordane (mg/kg)	<b>0.0038</b>	<b>0.0019</b>	<b>0.017</b>	<b>0.0045</b>	<b>0.0028</b>	<b>0.0023</b>	0.00025 U	<b>0.00063</b>	<b>0.0041</b>	<b>0.018</b>
Aldrin (mg/kg)	0.0011 U	0.00012 U		0.00045 U	0.00023 U	0.00086 U	0.00053 U	0.00063 U		0.00024 U
b-BHC (mg/kg)	0.0022 U	<b>0.00095</b>	0.0052 U	0.0027 U	0.00033 U	0.0012 U	0.00069 U	0.0015 U	0.004 U	0.0013 U
d-BHC (mg/kg)	<b>0.0006</b>	<b>0.00026</b>	<b>0.0007</b>	0.00014 U	<b>0.00012</b>	<b>0.00014</b>	0.0001 U	<b>0.00012</b>	<b>0.00031</b>	<b>0.00023</b>
Dieldrin (mg/kg)	<b>0.0062</b>	<b>0.0037</b>	<b>0.012</b>	<b>0.0017</b>	<b>0.0017</b>	<b>0.0011</b>	0.00006 U	<b>0.0003</b>	<b>0.0096</b>	<b>0.001</b>
Endosulfan I (mg/kg)	0.001 U	0.00003 U	0.001 U	0.0005 U	0.0001 U	0.001 U	0.00017 U	0.00022 U	0.001 U	0.0005 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	VC-6-0/2	VC-6-2/3.5	VC-7-0/2	VC-7-2/4	VC-7-4/6	VC-8-0/2	VC-8-2/4	VC-8-4/6	VC-9-0/2	VC-9-2/4
Sample Date	9/1/94	9/1/94	8/30/94	8/30/94	8/30/94	8/30/94	8/30/94	8/30/94	8/31/94	8/31/94
Horizon										
Endosulfan II (mg/kg)	<b>0.0011</b>	0.00004 U	0.00046 U	0.0001 U	0.00015 U	0.00047 U	0.00023 U	0.00032 U	0.00029 U	0.00058 U
Endosulfan Sulfate (mg/kg)	0.00044 U	0.00012 U	0.00034 U	<b>0.00012</b>	0.00017 U	0.00053 U	0.00023 U	0.00036 U	0.001 U	0.00028 U
Endrin (mg/kg)	0.00024 U	0.00009 U	0.00038 U	0.00014 U	0.00012 U	0.0003 U	0.00016 U	0.00021 U	0.00042 U	0.00016 U
Endrin Aldehyde (mg/kg)	0.00017 U	0.00006 U	0.00028 U	0.0001 U	0.00009 U	0.00022 U	0.00013 U	0.00015 U	0.0003 U	0.00012 U
Endrin/ketone (mg/kg)	<b>0.00026</b>	<b>0.00005</b>	0.00017 U	0.00006 U	0.00005 U	0.00014 U	0.00008 U	0.00016 U	<b>0.0002</b>	0.00017 U
g-BHC (mg/kg)	<b>0.0032</b>		0.0042 U	0.0019 U					0.0028 U	
g-chlordane (mg/kg)	<b>0.0048</b>	<b>0.0024</b>	<b>0.026</b>	<b>0.011</b>	<b>0.0062</b>	<b>0.0025</b>	0.00017 U	<b>0.0012</b>	<b>0.0084</b>	<b>0.025</b>
Heptachlor (mg/kg)	0.0039 U	0.00051 U	0.00072 U	0.0012 U	0.0013 U	0.0017 U	0.0024 U	0.0012 U	0.0026 U	0.0028 U
Heptachlor Epoxide (mg/kg)	0.0001 U	0.00004 U	<b>0.00028</b>	<b>0.0001</b>	<b>0.00008</b>	0.00013 U	0.00008 U	0.00009 U	0.00018 U	0.00007 U
Methoxychlor (mg/kg)	0.00069 U	0.00024 U	0.0012 U	0.00053 U	0.00038 U	0.00093 U	0.00061 U	0.00066 U	0.0013 U	0.00052 U
Mirex (mg/kg)	0.00081 U	0.00018 U	0.0039 U	0.004 U	0.0013 U	0.0012 U	0.0029 U	0.0024 U	0.0047 U	0.0027 U
p,p -DDD (mg/kg)	<b>0.027</b>	<b>0.079</b>	<b>0.14</b>	<b>0.027</b>	<b>0.027</b>	<b>0.024</b>	<b>0.00087</b>	<b>0.018</b>		0.091 U
p,p -DDE (mg/kg)	<b>0.032</b>	<b>0.013</b>	<b>0.029</b>	<b>0.0053</b>	<b>0.0078</b>	<b>0.016</b>	<b>0.00081</b>	<b>0.011</b>	<b>0.028</b>	<b>0.013</b>
p,p -DDT (mg/kg)	<b>0.0053</b>	<b>0.0033</b>	<b>0.029</b>	<b>0.085</b>	<b>0.015</b>	<b>0.0026</b>	0.00066 U	<b>0.0033</b>	<b>0.0029</b>	<b>0.11</b>
PCB Total PCBsA (mg/kg)	<b>0.5202</b>	<b>0.37784</b>	<b>0.27304</b>	<b>0.06011</b>	<b>0.04506</b>	<b>0.12345</b>	<b>0.01554</b>	<b>0.04734</b>	<b>0.48488</b>	<b>0.05162</b>
Toxaphene (mg/kg)	0.00073 U	<b>0.0011</b>	<b>0.011</b>	0.0005 U	0.00055 U	0.00058 U	0.00047 U	0.00079 U	0.0012 U	0.00077 U
<b>6. Proprietary Pesticides</b>										
Bensulide (mg/kg)	<b>4.485</b>	<b>0.051</b>	<b>0.234</b>	0.018 U	0.018 U	<b>0.152</b>	<b>0.027</b>	<b>0.143</b>	<b>0.507</b>	<b>0.07</b>
Butylate (mg/kg)	0.05 U	0.016 U	0.023 U	0.018 U	0.018 U	0.027 U	0.019 U	0.022 U	0.03 U	0.021 U
Captan (mg/kg)	<b>0.887</b>	0.032 U	0.047 U	0.036 U	0.036 U	0.054 U	0.039 U	0.045 U	0.059 U	0.041 U
Carbophenothion (mg/kg)	<b>0.054</b>	<b>0.022</b>	<b>0.054</b>	0.018 U	0.018 U	0.027 U	0.019 U	0.022 U	<b>0.089</b>	0.021 U
Cycloate (mg/kg)	<b>0.332</b>	0.016 U	0.023 U	0.018 U	0.018 U	0.027 U	0.019 U	0.022 U	0.03 U	0.021 U
EPTC (mg/kg)	<b>1.287</b>	<b>0.237</b>	<b>0.772</b>	<b>0.285</b>	<b>0.151</b>	<b>0.033</b>	<b>0.052</b>	<b>0.062</b>	<b>0.148</b>	<b>0.047</b>

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh	Marsh
Sample ID	VC-6-0/2	VC-6-2/3.5	VC-7-0/2	VC-7-2/4	VC-7-4/6	VC-8-0/2	VC-8-2/4	VC-8-4/6	VC-9-0/2	VC-9-2/4
Sample Date	9/1/94	9/1/94	8/30/94	8/30/94	8/30/94	8/30/94	8/30/94	8/30/94	8/31/94	8/31/94
Horizon										
Fluorochloridone (mg/kg)	<b>0.059</b>	0.016 U	<b>0.068</b>	<b>0.025</b>	0.018 U	<b>0.052</b>	0.019 U	0.022 U	0.029 U	0.021 U
Fonofos (mg/kg)	<b>0.297</b>	0.016 U	<b>0.047</b>	<b>0.025</b>	<b>0.02</b>	0.027 U	0.019 U	0.022 U	0.03 U	0.021 U
Metam Sodium (mg/kg)	0.446 U	0.142 U	0.211 U	0.16 U	0.162 U	0.245 U	0.174 U	0.2 U	0.265 U	0.186 U
Molinate (mg/kg)	<b>2.327</b>	<b>0.028</b>	<b>0.187</b>	0.018 U	0.018 U	0.027 U	<b>0.05</b>	<b>0.045</b>	<b>0.139</b>	<b>0.033</b>
Napropamide (mg/kg)	<b>0.134</b>	<b>0.021</b>	<b>0.026</b>	<b>0.085</b>	0.018 U	<b>0.155</b>	<b>0.025</b>	<b>0.042</b>	<b>0.195</b>	0.021 U
Pebulate (mg/kg)	<b>6.831</b>	<b>0.022</b>	<b>0.068</b>	0.018 U	0.018 U	0.027 U	0.019 U	<b>0.031</b>	<b>0.056</b>	0.021 U
Phosmet (mg/kg)	0.05 U	0.018 U	0.023 U	0.018 U	0.018 U	0.027 U	0.019 U	0.022 U	0.029 U	0.021 U
R-25788 (mg/kg)	<b>0.282</b>	0.016 U	<b>0.035</b>	0.018 U	0.018 U	0.027 U	0.019 U	0.022 U	0.029 U	0.021 U
R-29148 (mg/kg)	0.05 U	0.016 U	0.023 U	0.018 U	0.018 U	0.027 U	0.019 U	0.022 U	0.029 U	0.021 U
Vernolate (mg/kg)	<b>0.248</b>	0.016 U	<b>0.023</b>	0.018 U	0.018 U	0.027 U	0.019 U	0.022 U	0.03 U	0.021 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh
Sample ID	VC-9-4/6
Sample Date	8/31/94
Horizon	

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**1. Metals**

Aluminum (mg/kg)	<b>24100</b>
Antimony (mg/kg)	<b>0.18</b>
Arsenic (mg/kg)	<b>104</b>
Cadmium (mg/kg)	<b>1.94</b>
Chromium (mg/kg)	<b>91</b>
Copper (mg/kg)	<b>311</b>
Lead (mg/kg)	<b>150</b>
Mercury (mg/kg)	<b>9.3</b>
Nickel (mg/kg)	<b>66</b>
Selenium (mg/kg)	<b>11</b>
Silver (mg/kg)	<b>0.77</b>
Thallium (mg/kg)	<b>0.4</b>
Zinc (mg/kg)	<b>734</b>

**5. Pesticides/PCBs**

a-BHC (mg/kg)	0.00026 U
a-chlordane (mg/kg)	<b>0.00008</b>
Aldrin (mg/kg)	0.00011 U
b-BHC (mg/kg)	0.0004 U
d-BHC (mg/kg)	0.0004 U
Dieldrin (mg/kg)	0.00004 U
Endosulfan I (mg/kg)	0.0005 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh
Sample ID	VC-9-4/6
Sample Date	8/31/94
Horizon	
<hr/>	
Endosulfan II (mg/kg)	0.00022 U
Endosulfan Sulfate (mg/kg)	0.00023 U
Endrin (mg/kg)	0.0001 U
Endrin Aldehyde (mg/kg)	0.00008 U
Endrin/ketone (mg/kg)	0.00005 U
g-chlordane (mg/kg)	<b>0.00011</b>
Heptachlor (mg/kg)	0.00065 U
Heptachlor Epoxide (mg/kg)	0.00005 U
Methoxychlor (mg/kg)	0.00033 U
Mirex (mg/kg)	0.0004 U
p,p -DDD (mg/kg)	<b>0.00073</b>
p,p -DDE (mg/kg)	<b>0.00039</b>
p,p -DDT (mg/kg)	<b>0.0051</b>
PCB Total PCBsA (mg/kg)	<b>0.0041</b>
Toxaphene (mg/kg)	0.00027 U
<b>6. Proprietary Pesticides</b>	
Bensulide (mg/kg)	0.021 U
Butylate (mg/kg)	0.021 U
Captan (mg/kg)	0.042 U
Carbophenothion (mg/kg)	0.021 U
Cycloate (mg/kg)	0.021 U
EPTC (mg/kg)	<b>0.021</b>
Fluorochloridone (mg/kg)	0.021 U



**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh
Sample ID	VC-9-4/6
Sample Date	8/31/94
Horizon	
<hr/>	
Fonofos (mg/kg)	0.021 U
Metam Sodium (mg/kg)	0.188 U
Molinate (mg/kg)	0.021 U
Napropamide (mg/kg)	<b>0.029</b>
Pebulate (mg/kg)	0.021 U
Phosmet (mg/kg)	0.021 U
R-25788 (mg/kg)	0.021 U
R-29148 (mg/kg)	0.021 U
Vernolate (mg/kg)	0.021 U

**Table 3g Marsh Area Analytical Results of Soil Samples Analyzed for  
Metals, pH, VOCs, SVOCs, Pesticides/PCBs, and Proprietary Pesticides  
Zeneca Richmond Facility, Richmond, California**

Area	Marsh
Sample ID	VC-9-4/6
Sample Date	8/31/94
Horizon	

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**Notes**

Bolded values indicate detected compounds.

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

U = Not detected. Result shown is the detection limit.

mg/kg = milligrams per kilogram

ug/l = micrograms per liter

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

SU = Standard units

VOCs = Volatile organic compounds





**SITE**

San Francisco Bay



0 1 2 MILES

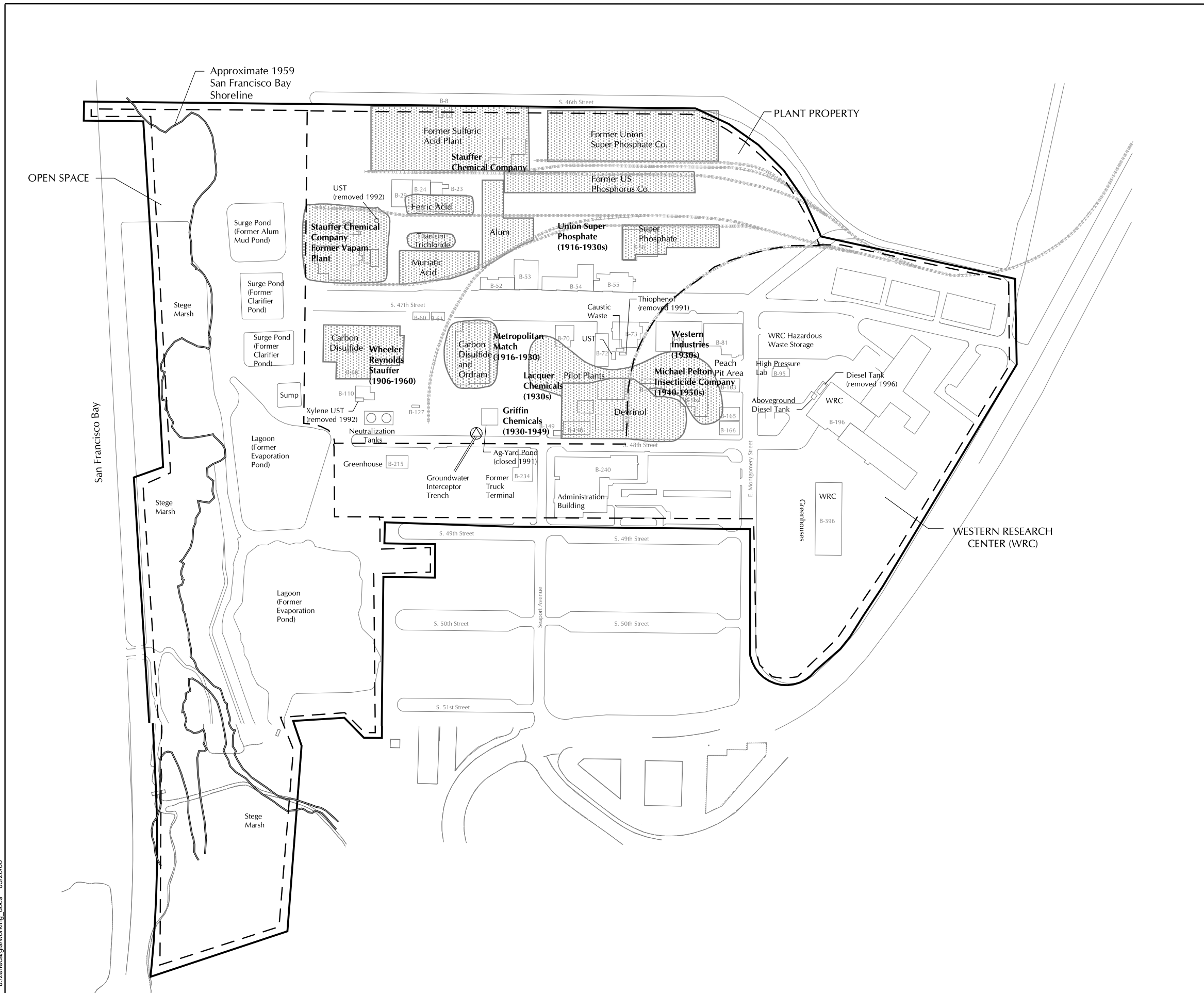
**Site Map**

Stege Marsh, Richmond, CA








**Figure 1**





**LEGEND**

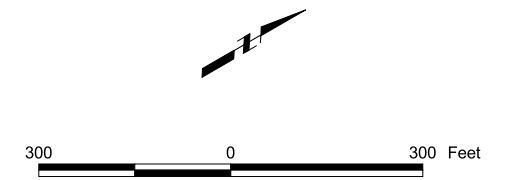
-  Capture well
-  Zeneca Ag Products boundary
-  1959 San Francisco Bay shoreline
-  Railroad
-  Historical manufacturing areas

**ABBREVIATIONS**

- UST Underground Storage Tank
- WRC Western Research Center

**NOTE**

Historical business names and dates are shown in boldface.

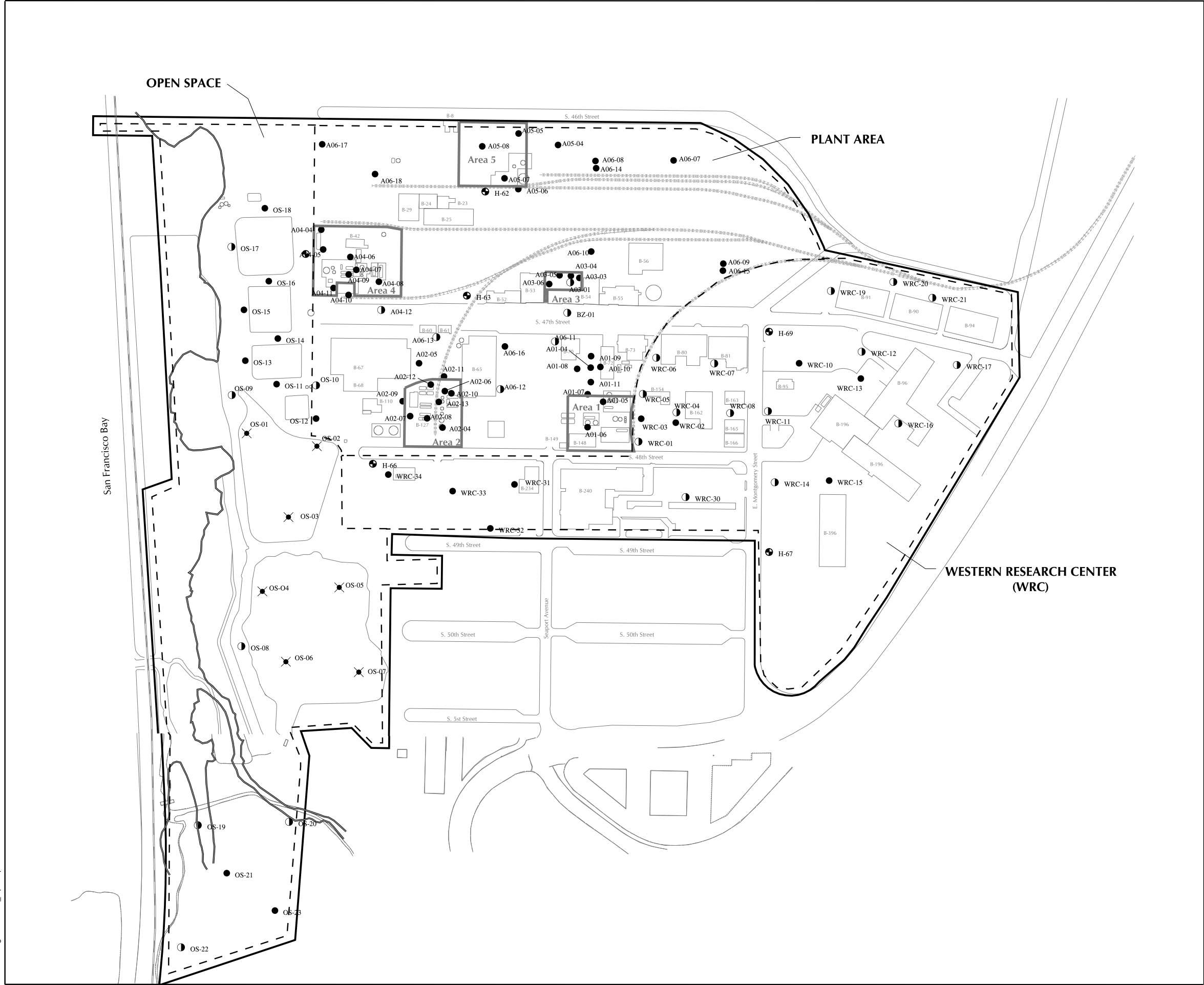


**Historical Business, Manufacturing Area, and Site Feature Locations**

Zeneca Richmond Facility, Richmond, California

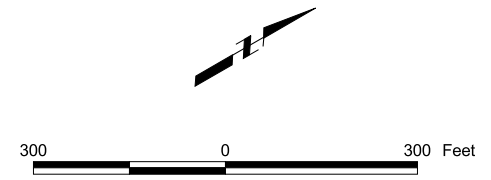


**Figure 2**



**LEGEND**

- A06-16 ● Soil boring location
- WRC-01 ✕ Sediment sample location
- WRC-01 ○ Grab groundwater and soil sample location
- H-5 ● Upper Horizon groundwater monitoring well
- Richmond facility property boundary
- Approximate location of 1959 San Francisco Bay shoreline
- - - Open Space, Plant Area, or WRC boundary
- Bay Trail
- Area 1 Area of concern within the Plant Area

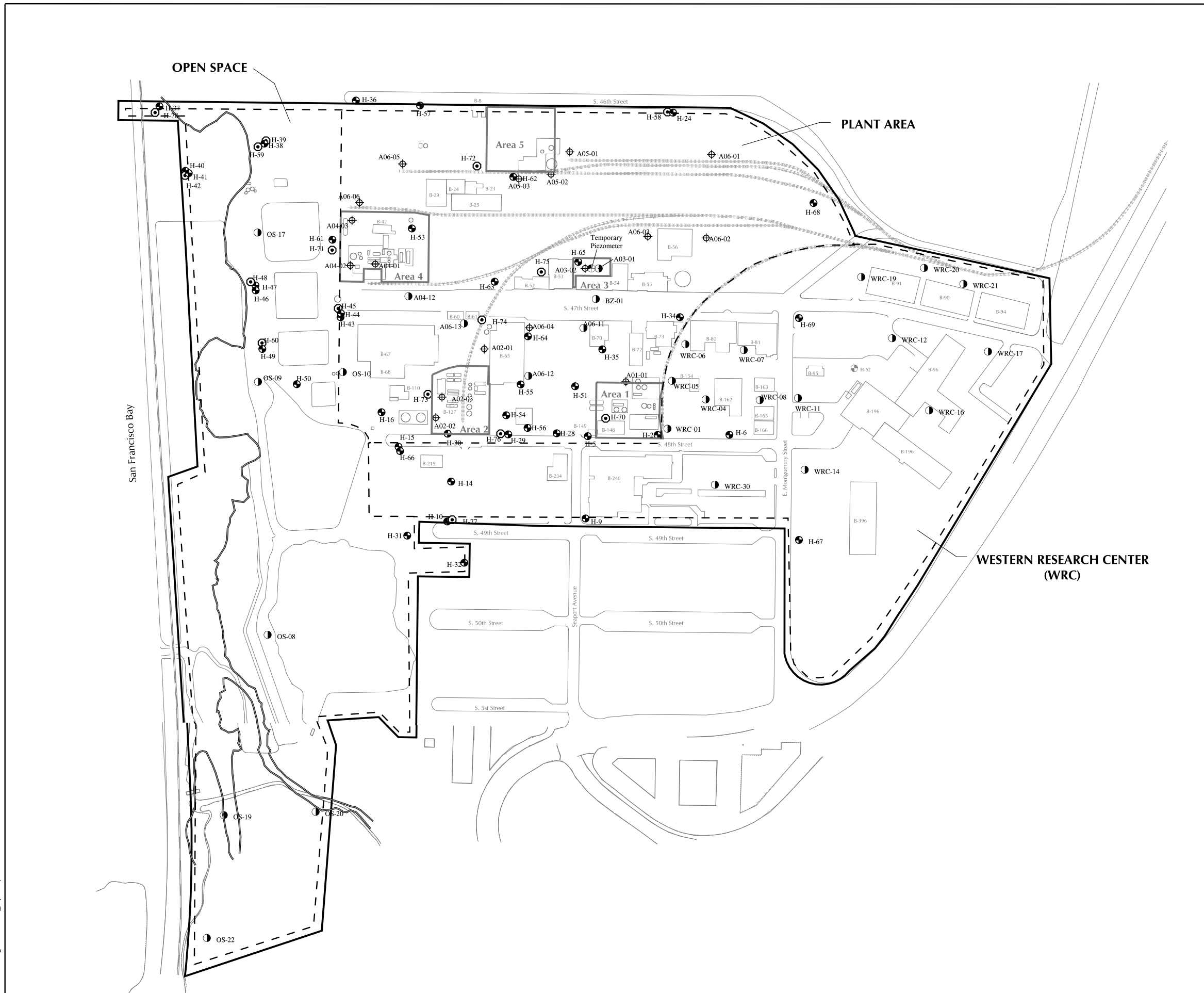


**Soil Sample Locations**

Zeneca Richmond Facility, Richmond, California

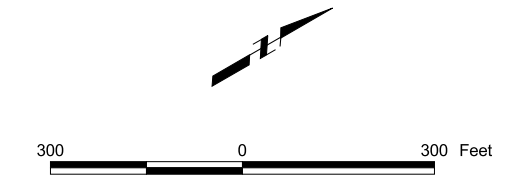


**Figure 3**



**LEGEND**

- H-5 ● Upper Horizon groundwater monitoring well
- H-75 ○ Lower Horizon groundwater monitoring well
- A02-01 ⊕ Grab groundwater sample location
- WRC-01 ● Grab groundwater and soil sample location
- Richmond facility property boundary
- - - Approximate location of 1959 San Francisco Bay shoreline
- - - Open Space, Plant Area, or WRC boundary
- Bay Trail
- Area 1 Area of concern within the Plant Area

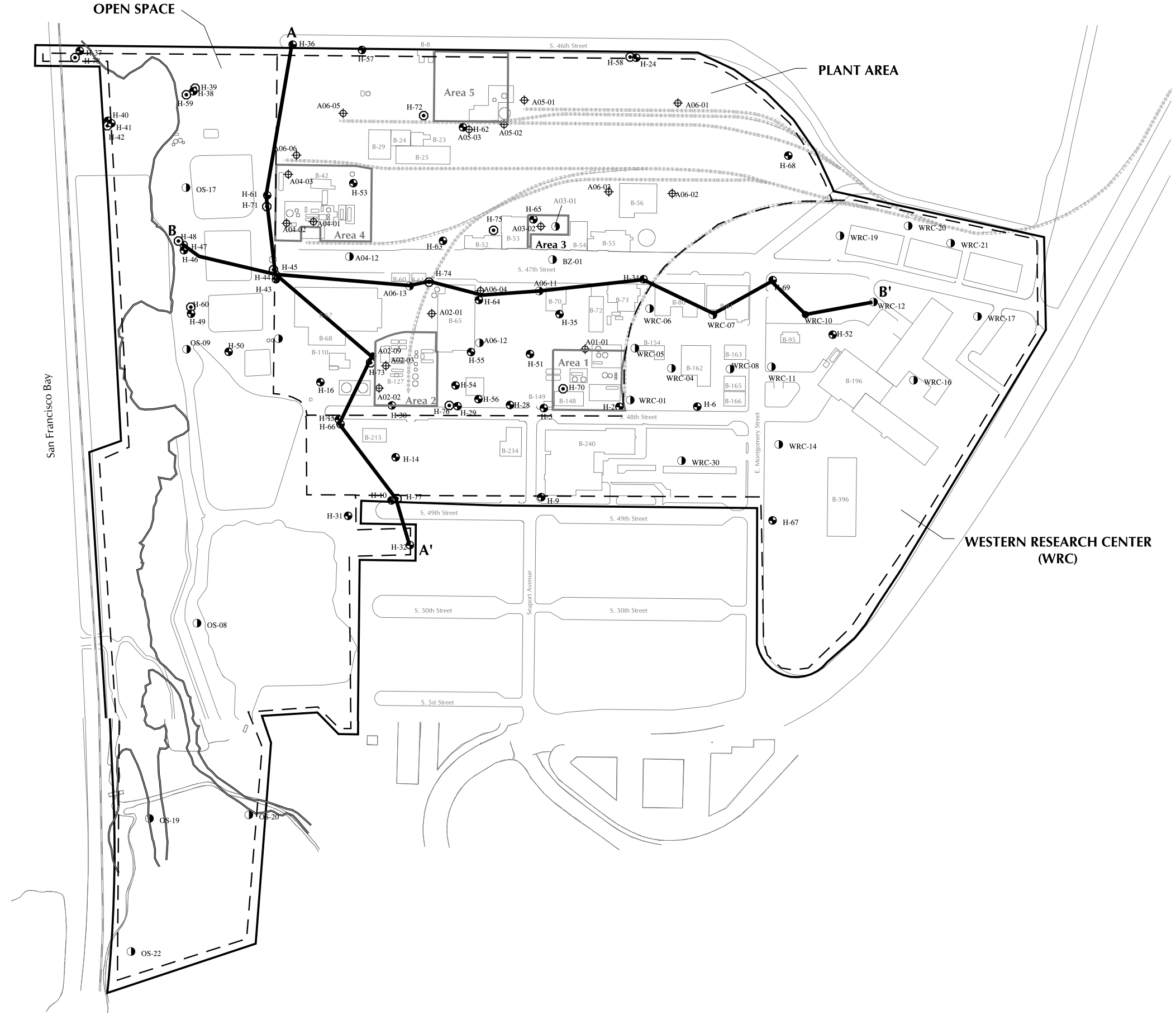


### Groundwater Sample Locations

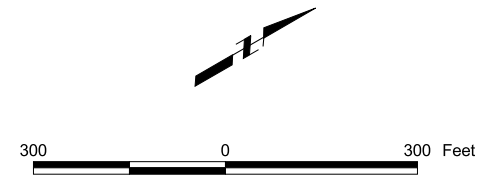
Zeneca Richmond Facility, Richmond, California



Figure 4



- LEGEND**
- H-63 ● Upper Horizon groundwater monitoring well
  - H-76 ○ Lower Horizon groundwater monitoring well
  - A02-03 ⊕ Grab groundwater sample location
  - A06-12 ⊕ Grab groundwater and soil sample location
  - A02-15 ● Soil boring location
  - Richmond facility property boundary
  - Approximate location of 1959 San Francisco Bay shoreline
  - - - Open Space, Plant Area, or WRC boundary
  - Bay Trail
  - A A' Cross section
  - Area 1 Area of concern within the Plant Area



**Cross Section Location Map**

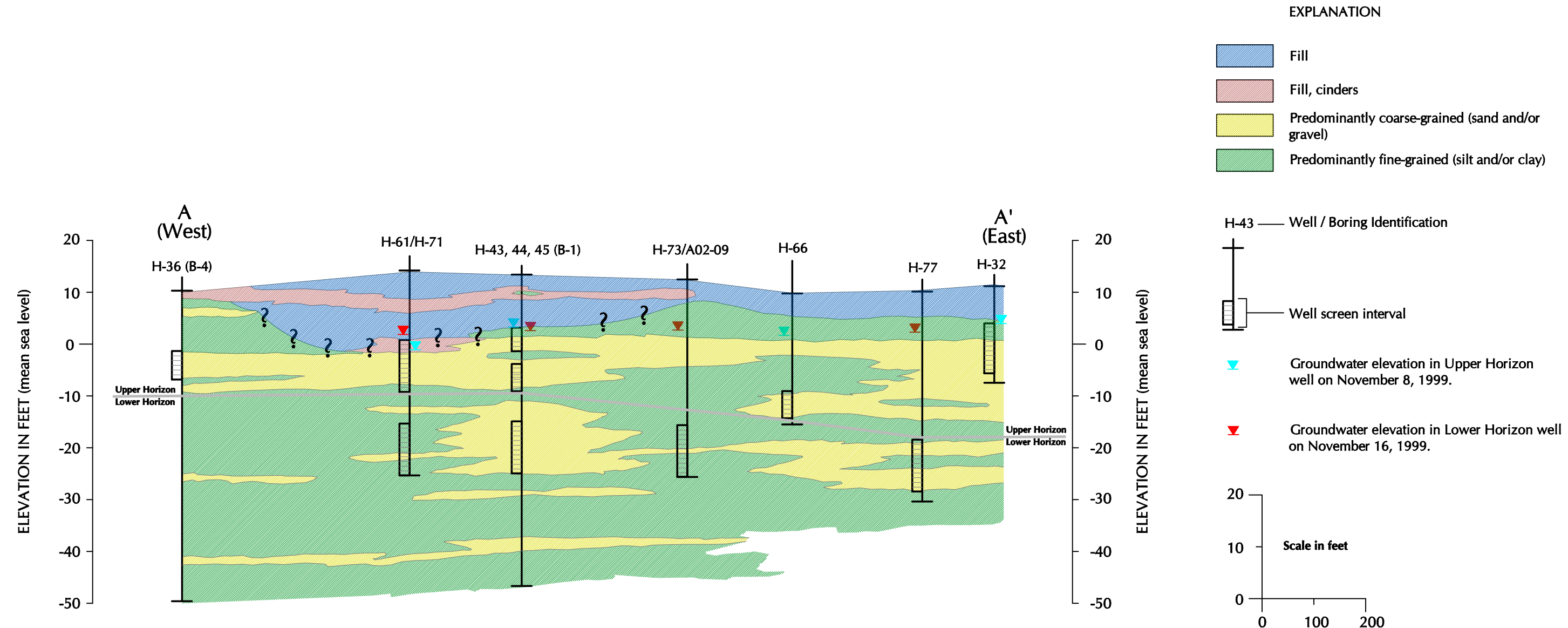
Zeneca Richmond Facility, Richmond, California



**Figure 5**



12/28/1999 12:02 P.M. 7545X001.pcp Drawing File(DWG). J:\ENGCAD\7545\LFR\_DWG\7545X001.DWG



### Cross Section A-A'

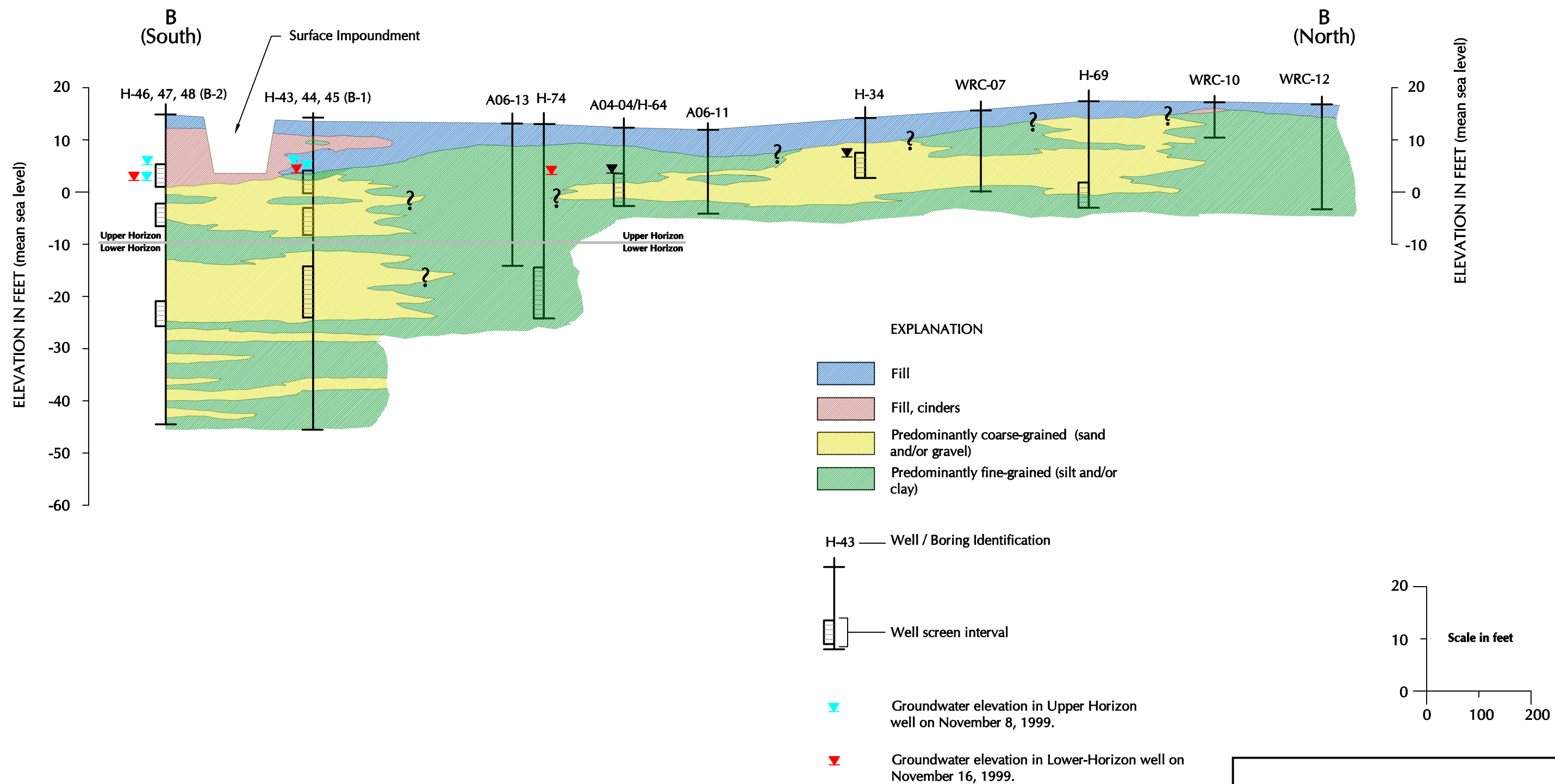
Zeneca Richmond, Richmond California Facility



Figure 6



12/28/1999 12:03 P.M. 7545X001.pcp Drawing File(DWG). J:\ENGCAD\7545\LFR\_DWG\7545X002.DWG



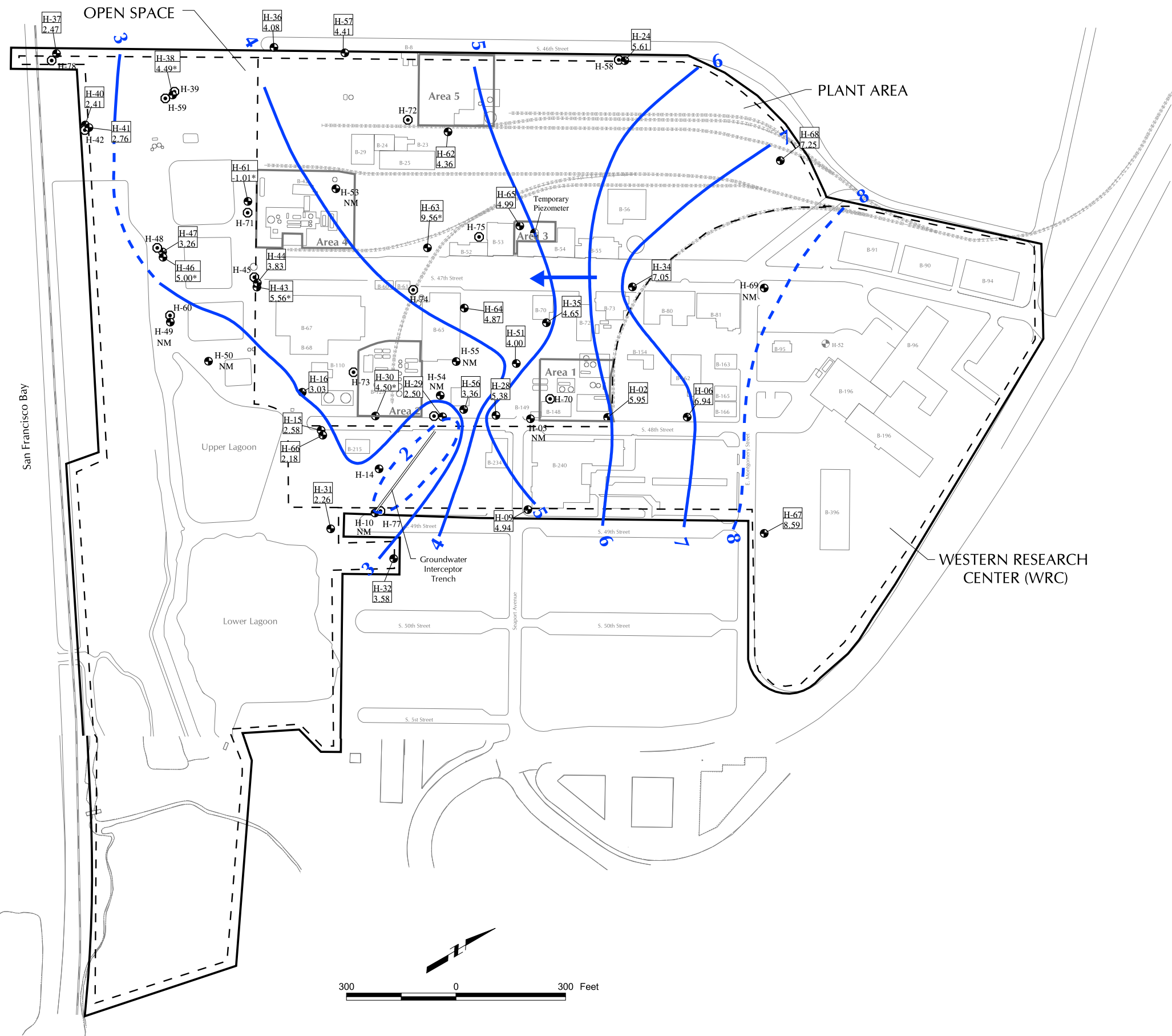
**Cross Section B-B'**

Zeneca Richmond Facility, Richmond, California



Figure 7

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**LEGEND**

- H-5 ● Upper Horizon groundwater monitoring well
- H-70 ○ Lower Horizon groundwater monitoring well
- Groundwater elevation contour (dashed where inferred)
- ← Approximate groundwater flow direction
- Richmond facility property boundary
- Approximate location of 1959 San Francisco Bay shoreline
- - - Open Space, Plant Area, or WRC boundary
- Bay Trail
- Area 1 Area of concern within the Plant Area

The following represents a hypothetical point and defines the characters associated with that point.

- XXX-XX Location ID
- ##.## Groundwater elevation measured in feet mean sea level

**NOTE**

- \* Data not used for contouring purposes

**ABBREVIATIONS**

- NM Water level not measured

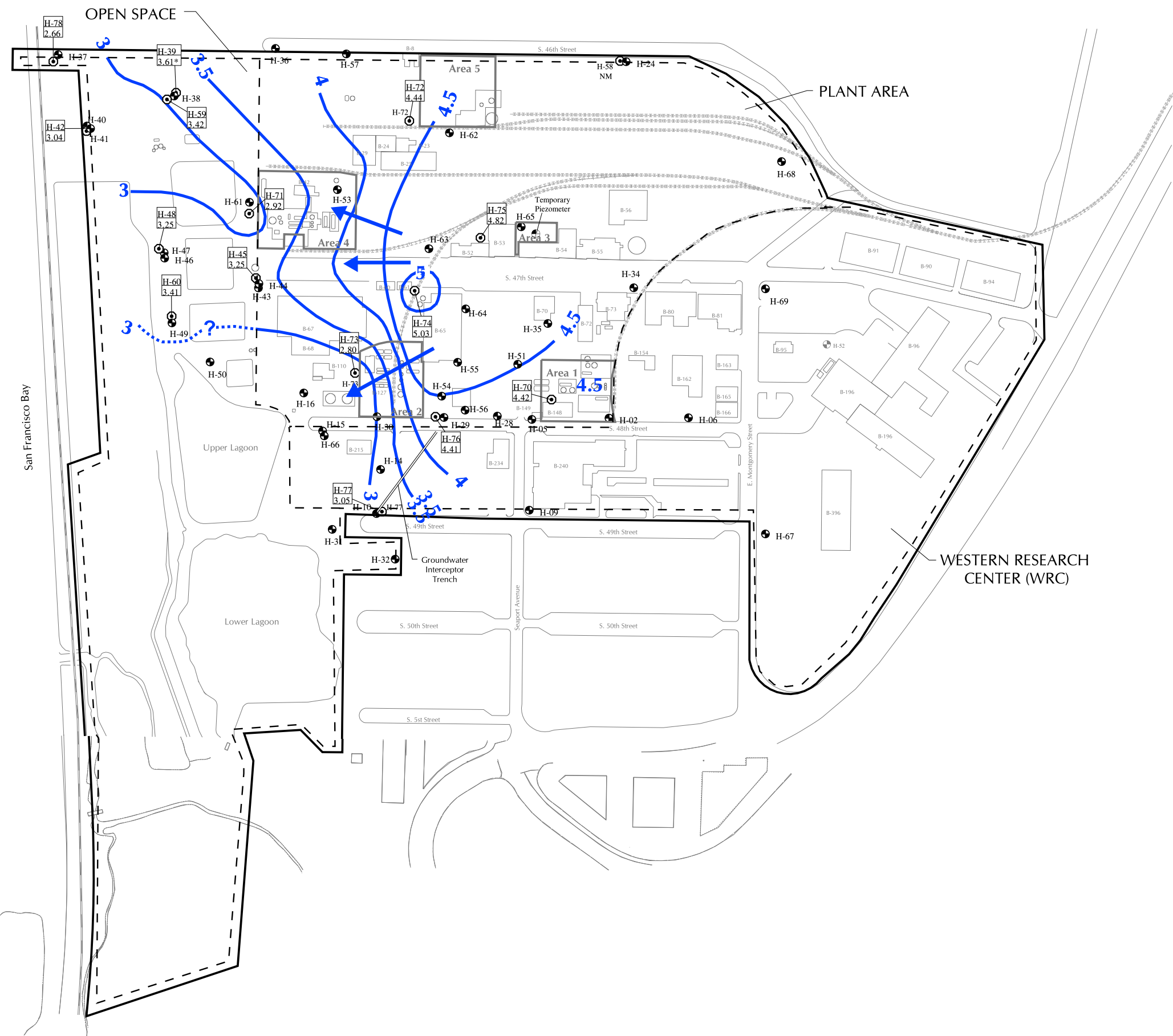
**Groundwater Elevation in the Upper Horizon November 8, 1999**

Zeneca Richmond Facility, Richmond, California



**Figure 8**

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**LEGEND**

- H-5 ● Upper Horizon groundwater monitoring well
- H-70 ○ Lower Horizon groundwater monitoring well
- Groundwater elevation contour (dashed where inferred)
- ← Approximate groundwater flow direction
- Richmond facility property boundary
- Approximate location of 1959 San Francisco Bay shoreline
- - - Open Space, Plant Area, or WRC boundary
- Bay Trail
- Area 1 Area of concern within the Plant Area

The following represents a hypothetical point and defines the characters associated with that point.

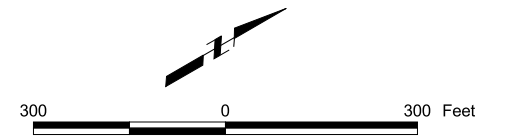
- XXX-XX Location ID
- ##.## Groundwater elevation measured in feet mean sea level

**NOTE**

- \* Data not used for contouring purposes

**ABBREVIATIONS**

- NM Water level not measured



**Groundwater Elevation in the Lower Horizon**  
**November 16, 1999**

Zeneca Richmond Facility, Richmond, California



**Figure 9**



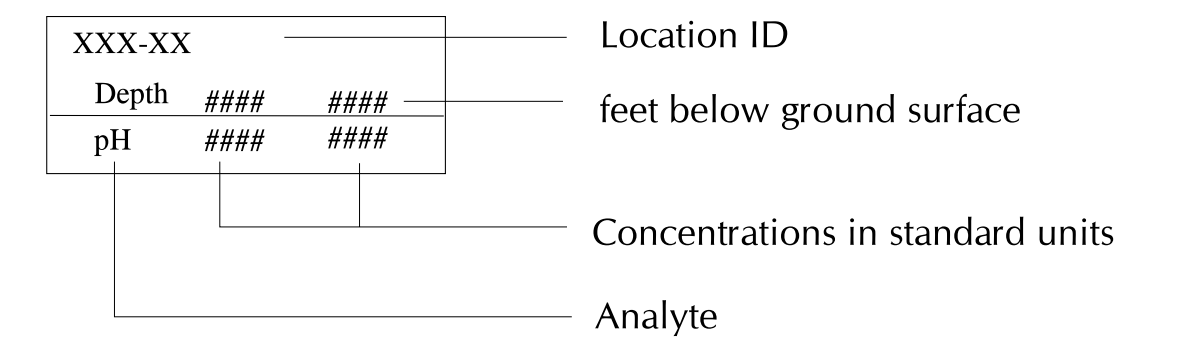
OPEN SPACE

PLANT AREA

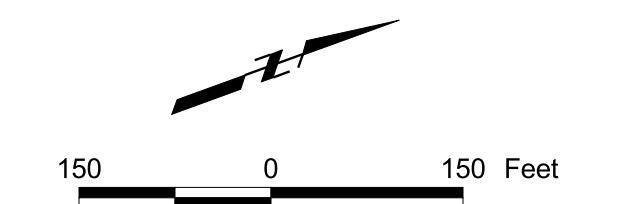
LEGEND

- OS-18 ● Soil boring
- A06-13 ○ Grab groundwater and soil sample location
- H-65 ● Upper Horizon groundwater monitoring well
- OS-03 ✕ Freshwater lagoon sediment samples collected by LFR
- Richmond facility property boundary
- - - Open Space, Plant Area, or WRC boundary
- Approximate location of 1959 San Francisco Bay shoreline
- Bay Trail
- Area 1 Area of potential concern within Plant Area

The following represents a hypothetical point and defines the characters associated with that point.



NA Not analyzed

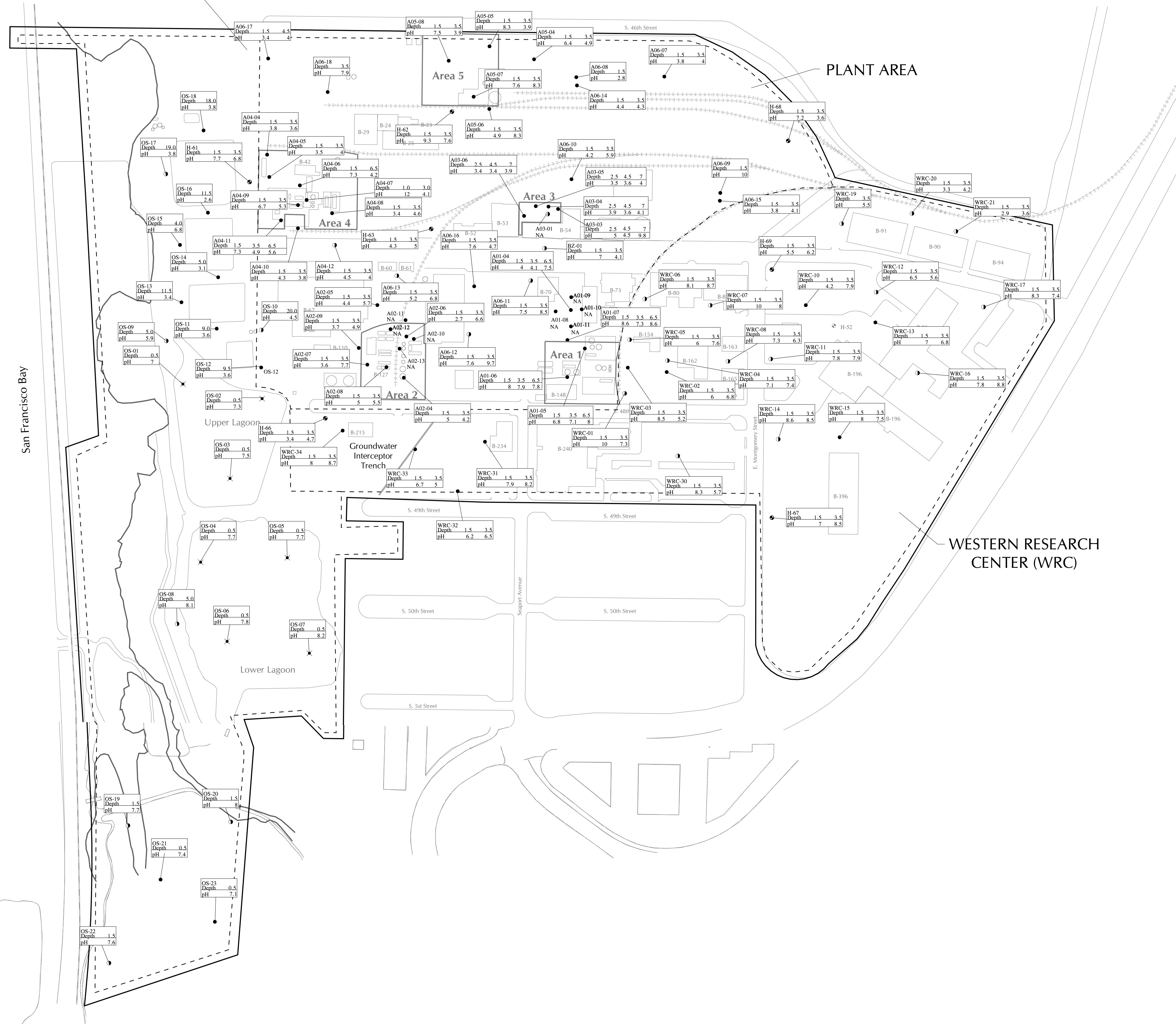


pH Values in Soil

Zeneca Richmond Facility, Richmond, California

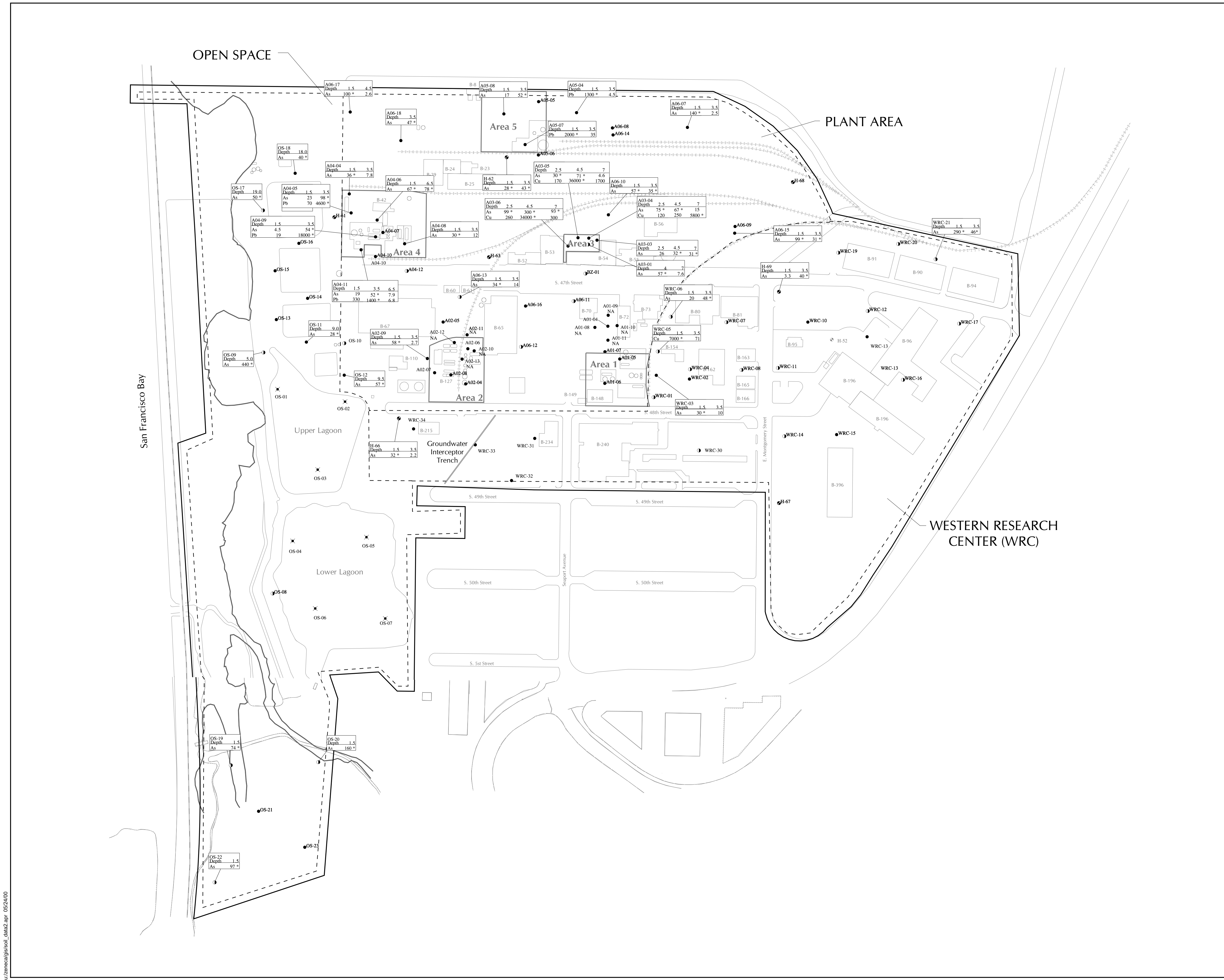


Figure 10



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**LEGEND**

- OS-18 ● Soil boring
- A06-13 ○ Grab groundwater and soil sample location
- H-62 ● Upper Horizon groundwater monitoring well
- OS-03 ✕ Freshwater lagoon sediment samples collected by LFR
- Richmond facility property boundary
- - - Open Space, Plant Area, or WRC boundary
- Approximate location of 1959 San Francisco Bay shoreline
- Bay Trail
- Area 1 Area of potential concern within Plant Area

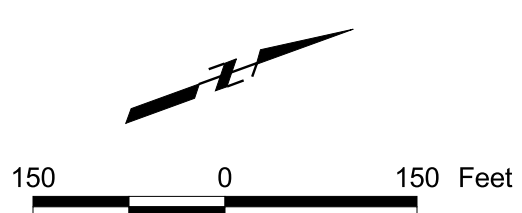
Sample locations without data indicate that results for that analyte were less than the industrial PRG.

The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Depth ###	feet below ground surface
As ###	Concentrations in milligrams per kilogram (mg/kg)
Cd ###	Analyte
Pb ###	

- \* Indicates concentration above industrial PRG
- J Estimated value
- NA Not analyzed
- PRG Preliminary Remediation Goal (USEPA)

ABBREVIATIONS	SCREENING CRITERIA (mg/kg)
As	Arsenic 27
Cu	Copper 5300
Pb	Lead 1000



**Concentrations of Metals in Soil above the Industrial PRGs**

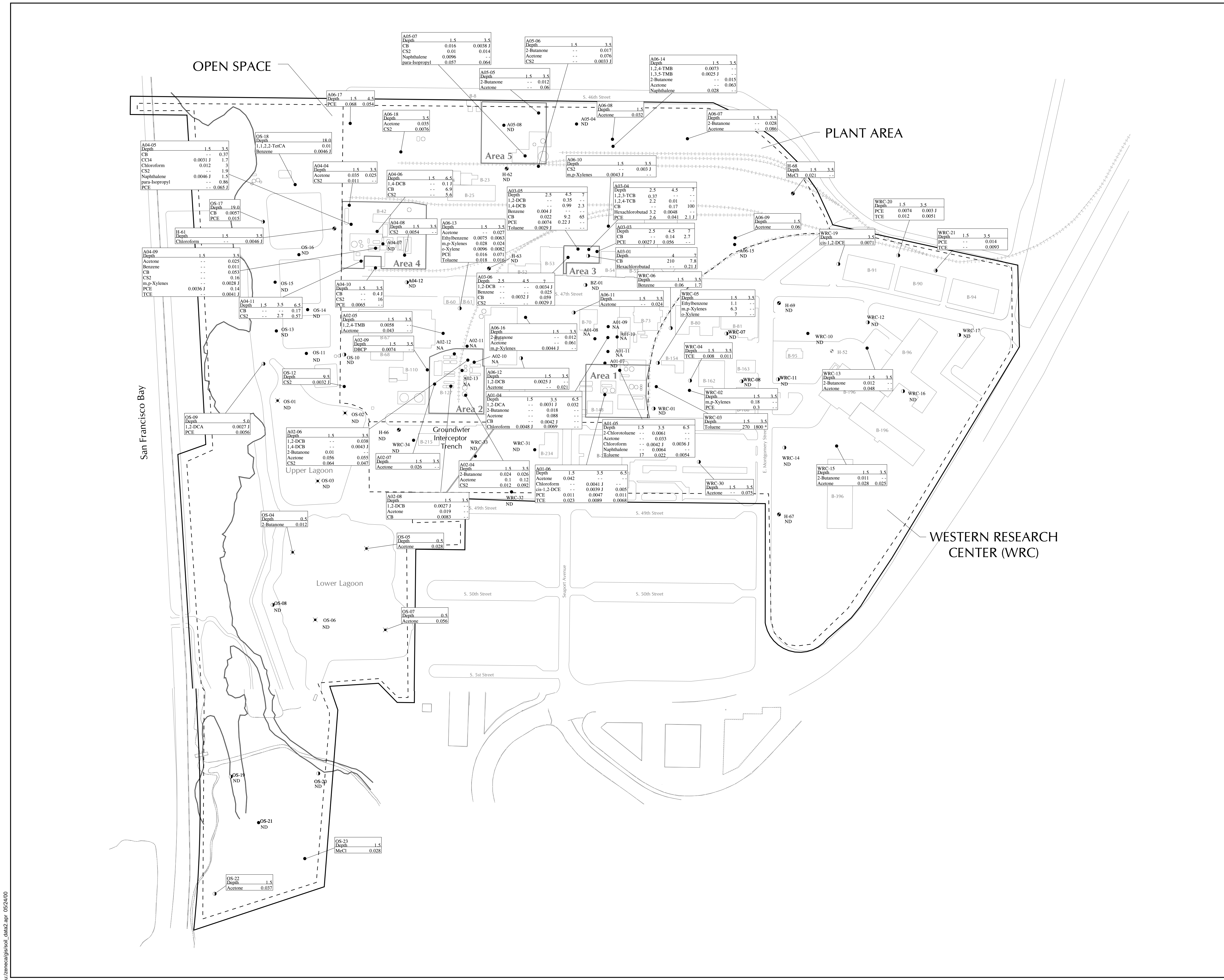
Zeneca Richmond Facility, Richmond, California



Figure 11

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- LEGEND**
- OS-18 ● Soil boring
  - A06-13 ○ Grab groundwater and soil sample location
  - H-62 ⊙ Upper Horizon groundwater monitoring well
  - OS-03 ✕ Freshwater lagoon sediment samples collected by LFR
  - Richmond facility property boundary
  - - - Open Space, Plant Area, or WRC boundary
  - - - Approximate location of 1959 San Francisco Bay shoreline
  - Bay Trail
  - Area 1 Area of potential concern within the Plant Area

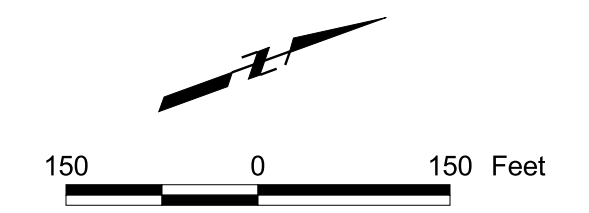
The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Depth ####	feet below ground surface
1,2-DCB ####	mg/kg
Acetone ####	mg/kg
CB ####	mg/kg

- \* Indicates concentration above Industrial PRG
- Indicates concentration below the laboratory reporting limit or not analyzed
- J Estimated value
- PRG Preliminary Remediation Goal (USEPA)
- NA Not analyzed
- ND Not detected for all VOCs

**ABBREVIATIONS**

1,2,4-TMB	1,2,4-Trimethylbenzene
1,2-DCA	1,2-Dichloroethane
1,2-DCB	1,2-Dichlorobenzene
1,3,5-TMB	1,3,5-Trimethylbenzene
1,4-DCB	1,4-Dichlorobenzene
CB	Chlorobenzene
CCl4	Carbon Tetrachloride
CS2	Carbon Disulfide
cis-1,2-DCE	cis-1,2-Dichloroethene
Hexachlorobutad	Hexachlorobutadiene
MeCl	Methylene Chloride
PCE	Tetrachloroethene
para-Isopropyl	para-Isopropyl Toluene
TCE	Trichloroethene



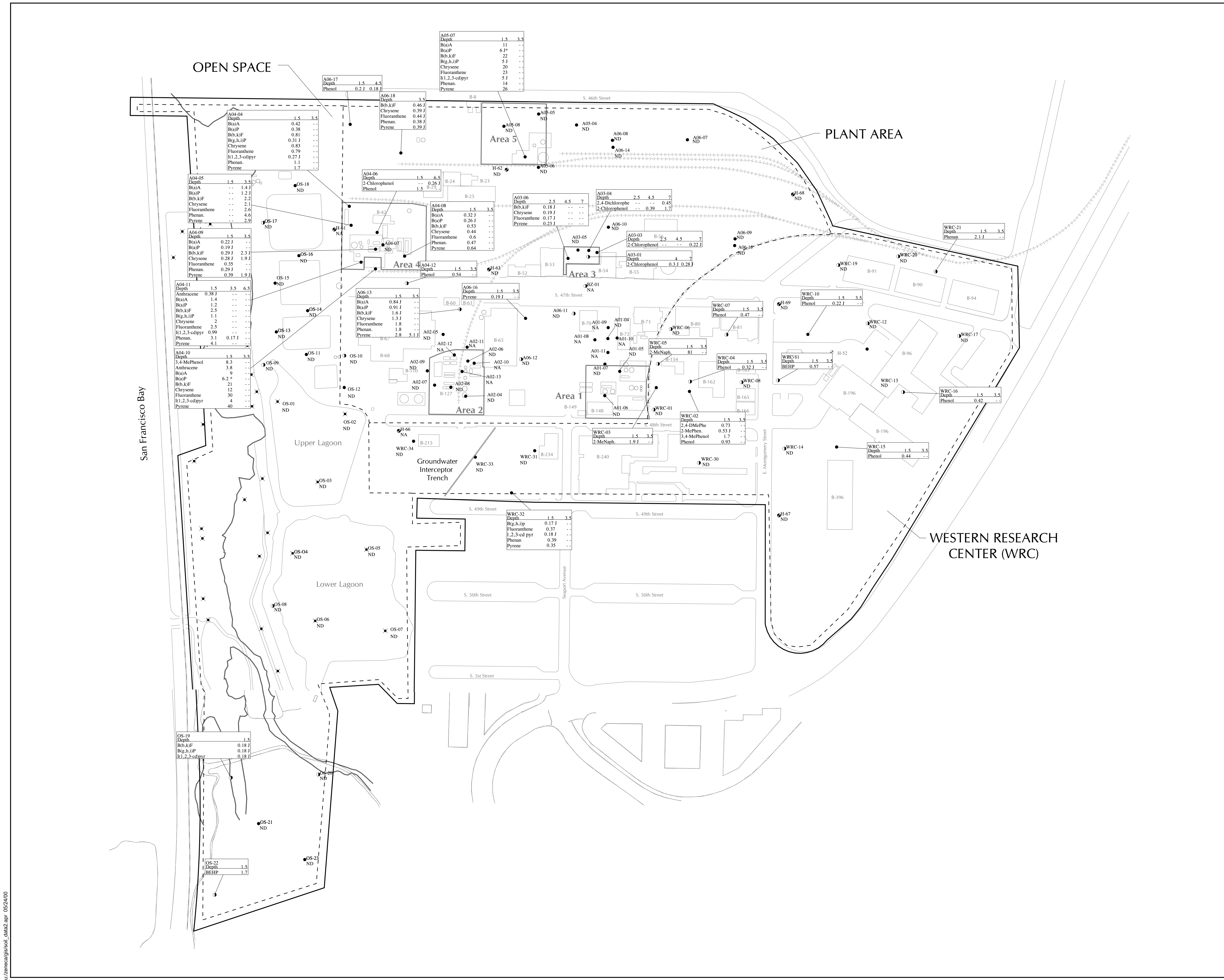
**Analytical Results for Soil Samples  
Analyzed for Volatile Organic Compounds**  
Zeneca Richmond Facility, Richmond, California



Figure 12

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**LEGEND**

- OS-18 ● Soil boring
- A06-13 ● Grab groundwater and soil sample location
- H-62 ● Upper Horizon groundwater monitoring well
- OS-03 ✕ Freshwater lagoon sediment samples collected by LFR
- Richmond facility property boundary
- - - Open Space, Plant Area, or WRC boundary
- Approximate location of 1959 San Francisco Bay shoreline
- Bay Trail
- Area 1 Area of potential concern within the Plant Area

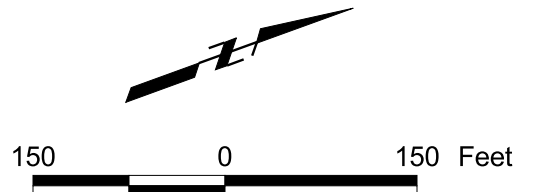
The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID	
Depth	###	###
feet below ground surface		
B(a)A	###	###
BEHP	###	###
Phenol	###	###
Concentrations in milligrams per kilogram (mg/kg)		
Analyte		

- \* Indicates concentration above the industrial PRG
- Indicates concentration below the laboratory reporting limit or not analyzed
- J Estimated value
- NA Not analyzed
- ND Not detected
- PRG Preliminary Remediation Goal (USEPA)

**ABBREVIATIONS**

2,4-Dichlorophe	2,4-Dichlorophenol
2,4-DMePhe	2,4-Dimethylphenol
2-MeNaph	2-Methylnaphthalene
2-MePhen	2-Methylphenol
3,4-MePhenol	3,4-Methylphenol
B(a)A	Benzo(a)anthracene
B(a)P	Benzo(a)pyrene
B(b,k)F	Benzo(b,k)fluoranthene
B(g,h,i)P	Benzo(g,h,i)perylene
BEHP	bis(2-Ethylhexyl)phthalate
I(1,2,3-cd)pyr	Indeno(1,2,3-cd)Pyrene
Phenan	Phenanthrene



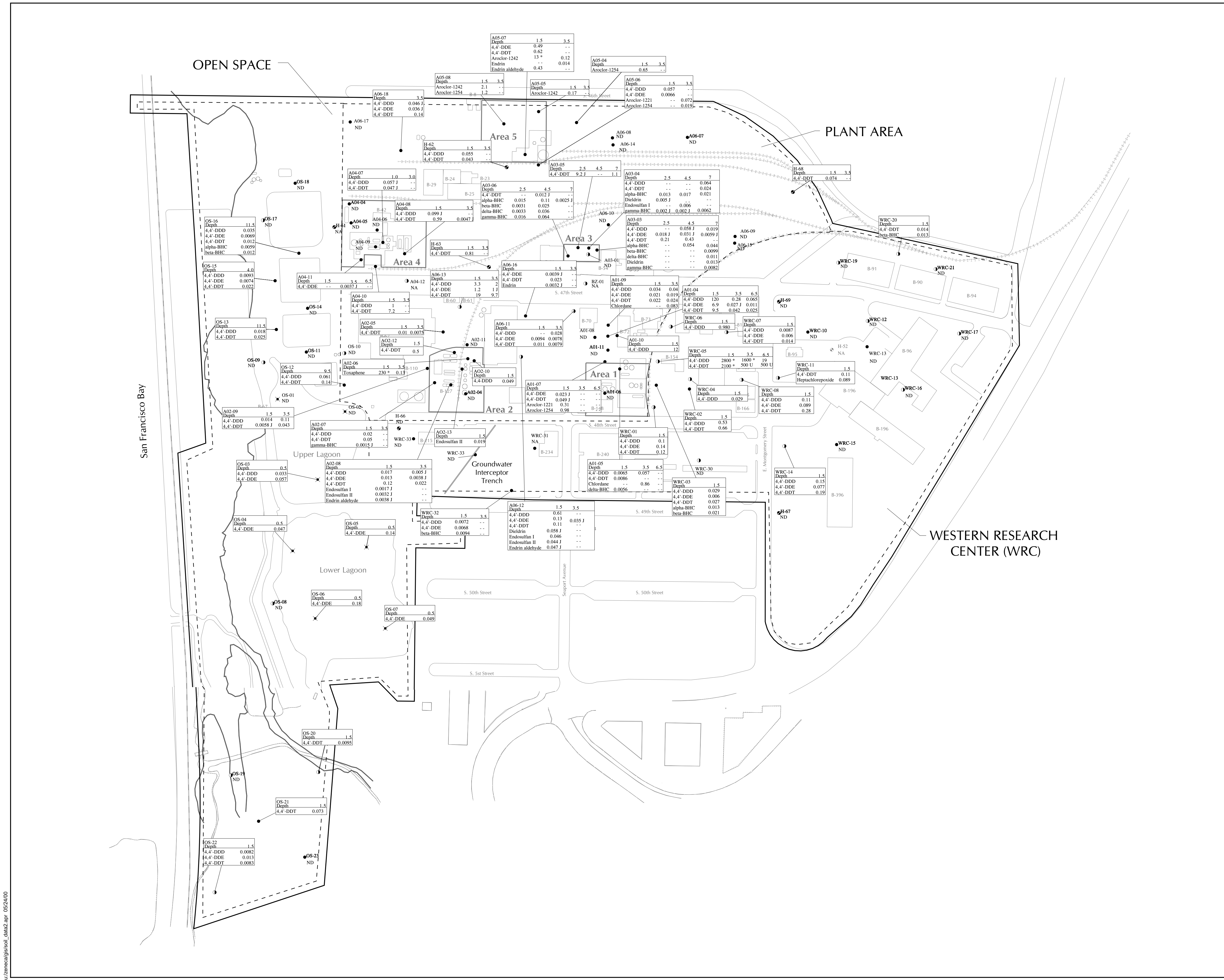
**Analytical Results for Soil Samples  
Analyzed for Semivolatile Organic Compounds**  
Zeneca Richmond Facility, Richmond, California



Figure 13

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**LEGEND**

- OS-18 ● Soil boring
- A06-13 ● Grab groundwater and soil sample location
- H-62 ● Upper Horizon groundwater monitoring well
- OS-03 ✕ Freshwater lagoon sediment samples collected by LFR
- Richmond facility property boundary
- - - Open Space, Plant Area, or WRC boundary
- Approximate location of 1959 San Francisco Bay shoreline
- Bay Trail
- Area 1 Area of potential concern within the Plant Area

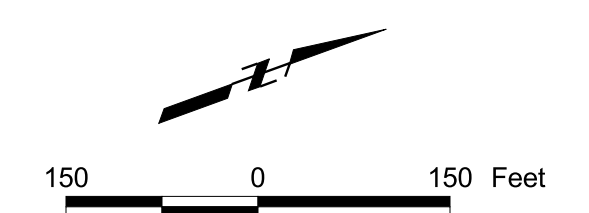
The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Depth ### #	feet below ground surface
4,4'-DDD ### #	Concentrations in milligrams per kilogram (mg/kg)
4,4'-DDE ### #	Analyte
4,4'-DDT ### #	Analyte

- \* Indicates concentration above Industrial PRG
- Indicates concentration below the laboratory reporting limit or not analyzed
- J Estimated value
- NA Not analyzed
- ND Not detected
- PRG Preliminary Remediation Goal (USEPA)

**SCREENING CRITERIA (mg/kg)**

4,4'-DDD	120
4,4'-DDT	170
Aroclor	10
Toxaphene	22



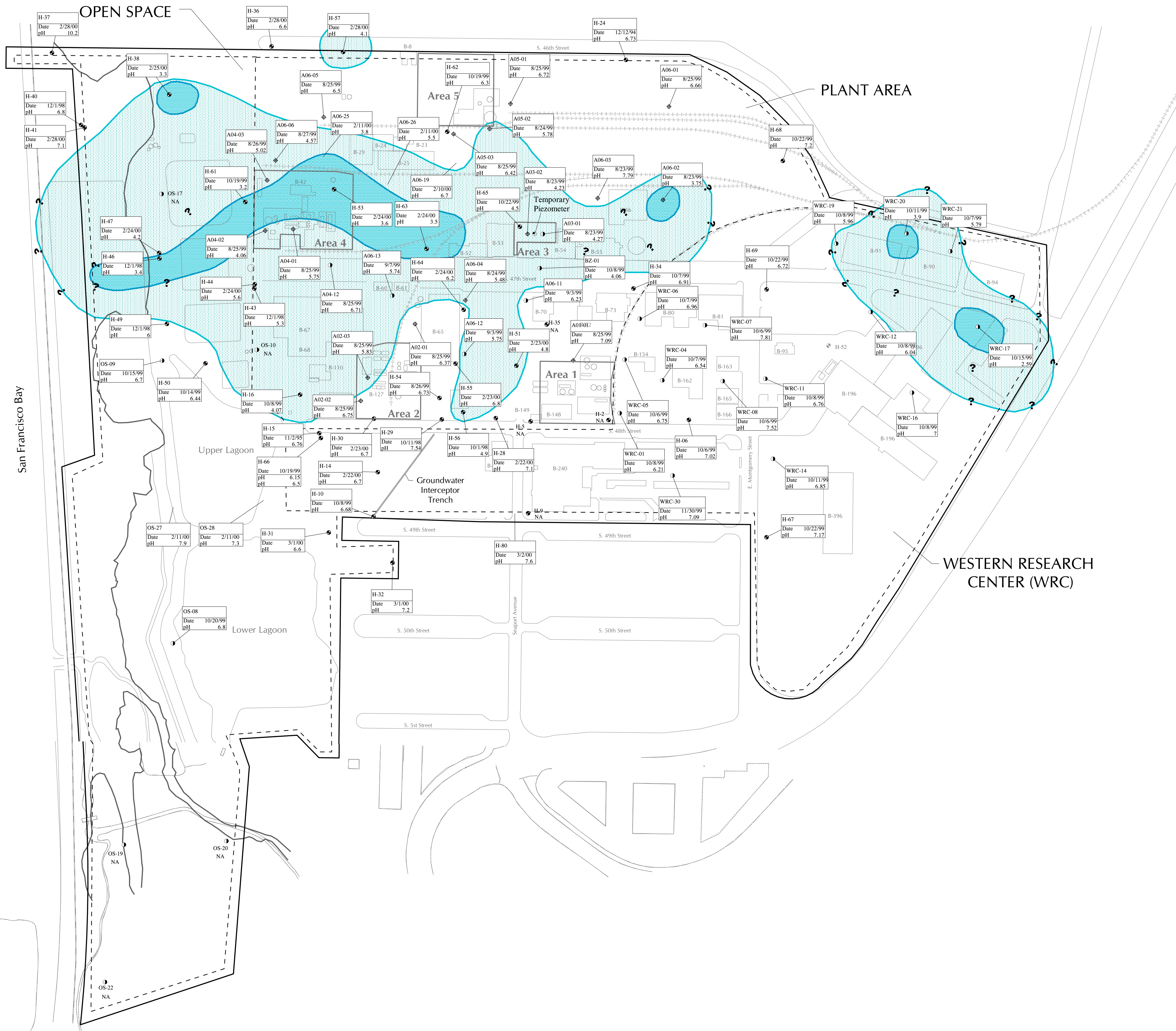
**Analytical Results for Soil Samples Analyzed for Organochlorine Pesticides**  
 Zeneca Richmond Facility, Richmond, California



Figure 14

u:\zeneca\gbs\soil\_data2.mxd 05/24/00





**LEGEND**

- H-5 ● Upper Horizon groundwater monitoring well
- A02-01 ⊕ Grab groundwater sample location
- WRC-01 ● Grab groundwater and soil sample location
- H-52 ● Abandoned Upper Horizon groundwater monitoring well
- Richmond facility property boundary
- - - Approximate location of 1959 San Francisco Bay shoreline
- - - Open Space, Plant Area, or WRC boundary
- Bay Trail
- pH value 4-6 (Indicated by ? where inferred)
- pH value < 4 (Indicated by ? where inferred)
- Area 1

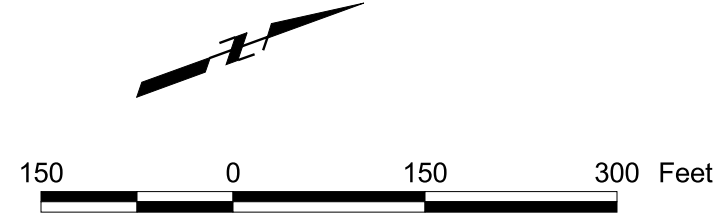
pH values shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca.

The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Date	###/###/###
pH	##.##
	Analyte

**NOTE**

NA Not analyzed

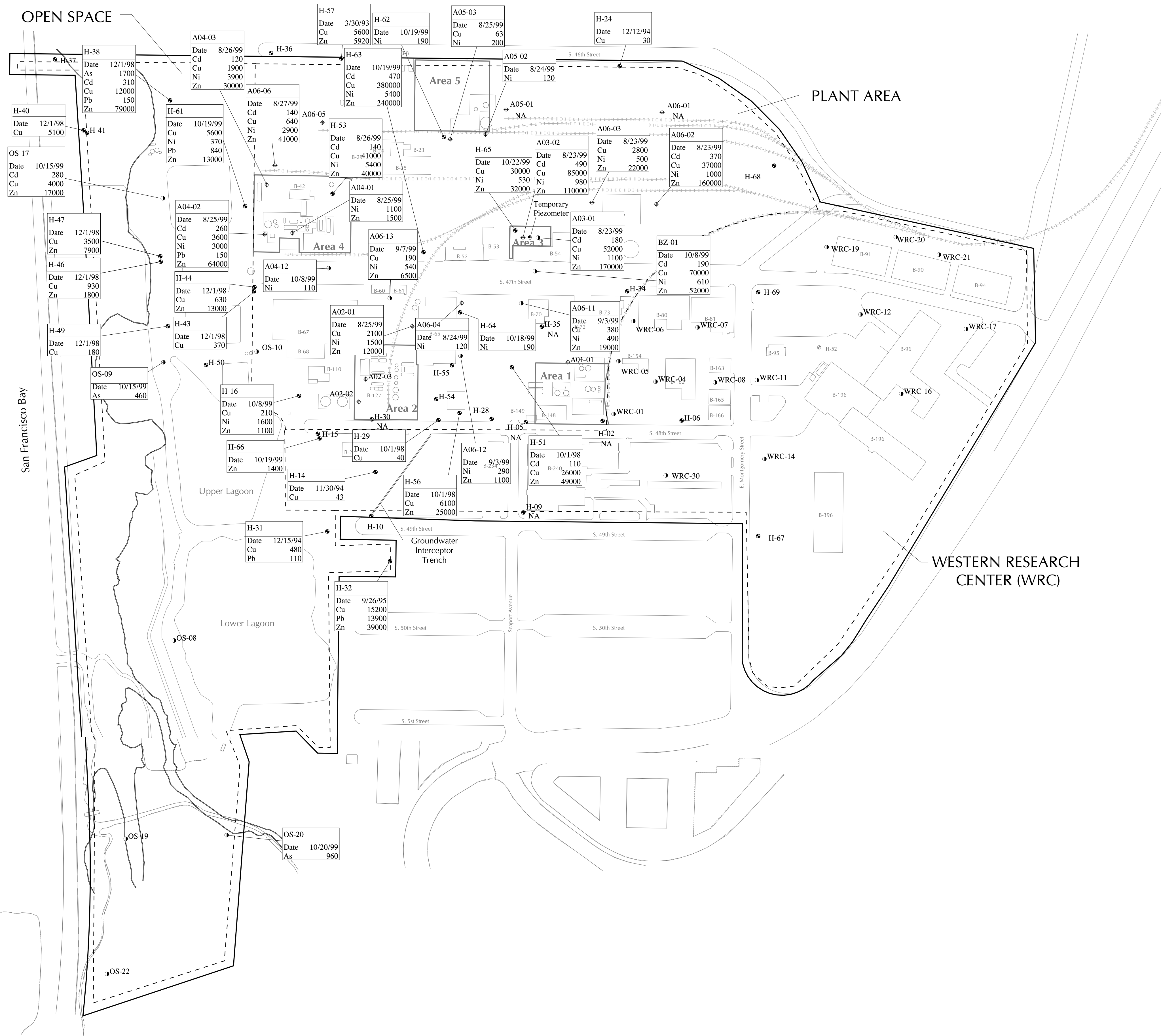


**pH Values in Upper Horizon Groundwater**

Zeneca Richmond Facility, Richmond, California







- LEGEND**
- H-5 ● Upper Horizon groundwater monitoring well
  - H-70 ○ Lower Horizon groundwater monitoring well
  - A02-01 ⊕ Grab groundwater sample location
  - WRC-01 ⊕ Grab groundwater and soil sample location
  - H-52 ● Abandoned Upper Horizon groundwater monitoring well
  - Richmond facility property boundary
  - 1959 San Francisco Bay shoreline
  - - - San Francisco Bay shoreline
  - - - Open Space, Plant Area, or WRC boundary
  - Bay Trail

Area 1 Area of concern within the Plant Area

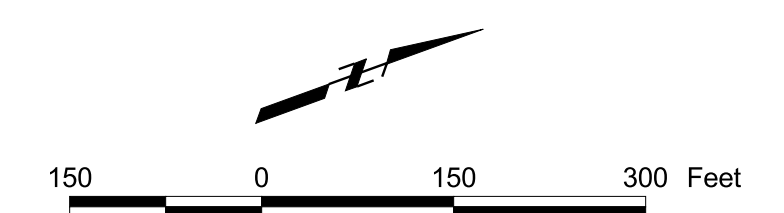
Concentrations shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca. Sample locations without data indicate that results for that analyte were less than the screening criteria.

The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX Location ID  
 Date ##/##/## Concentrations in micrograms per liter (µg/l)  
 Cu ### Analyte

NA Not analyzed  
 ND All 6 metals not detected

ABBREVIATION	SCREENING CRITERIA
As	Arsenic 360
Cd	Cadmium 93
Cu	Copper 29
Ni	Nickel 71
Pb	Lead 56
Zn	Zinc 580



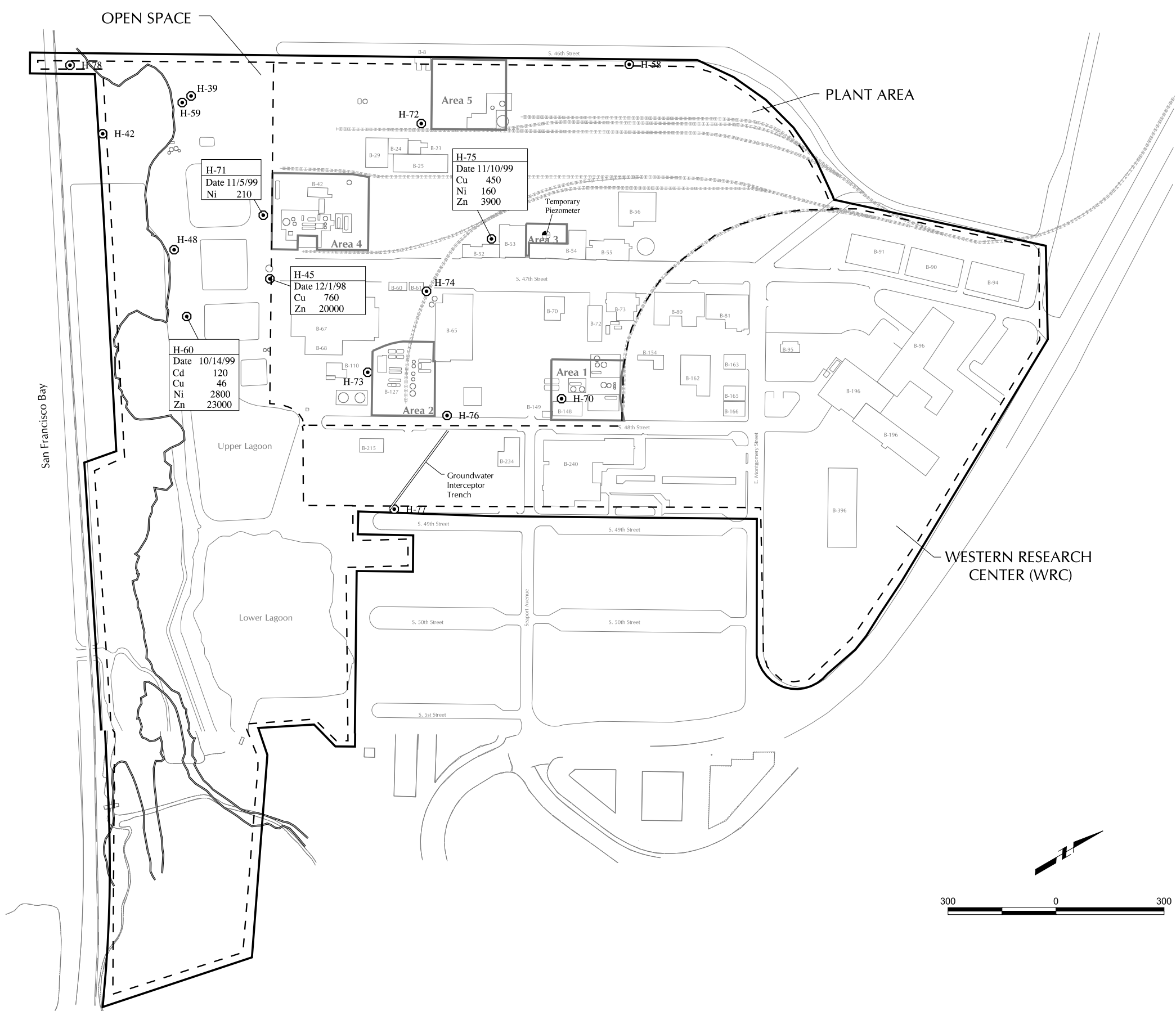
**Concentrations of Metals in Upper Horizon Groundwater above the Screening Criteria**  
 Zeneca Richmond Facility, Richmond, California



Figure 16

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u:\zeneca\gis\GW\_data2.apr 05/26/00



**LEGEND**

- H-5 ● Upper Horizon groundwater monitoring well
- H-70 ○ Lower Horizon groundwater monitoring well
- A02-01 ⊕ Grab groundwater sample location
- WRC-01 ● Grab groundwater and soil sample location

- Richmond facility property boundary
- 1959 San Francisco Bay shoreline
- - - Open Space, Plant Area, or WRC boundary
- Bay Trail

Area 1  
Area of concern within the Plant Area

Concentrations shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca. Sample locations without data indicate that results for that analyte were less than the screening criteria.

The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Date    ##/##/##	Concentration in micrograms per liter (µg/l)
Cd       ##.##	
Cu       ##.##	
Ni       ##.##	
	Analyte

- NA    Not analyzed
- ND    All 6 metals not detected

ABBREVIATION	SCREENING CRITERIA
Cd    Cadmium	93
Cu    Copper	29
Ni    Nickel	71
Zn    Zinc	580

**Concentrations of Metals in Lower Horizon Groundwater above the Screening Criteria**  
Zeneca Richmond Facility, Richmond, California



**Figure 17**

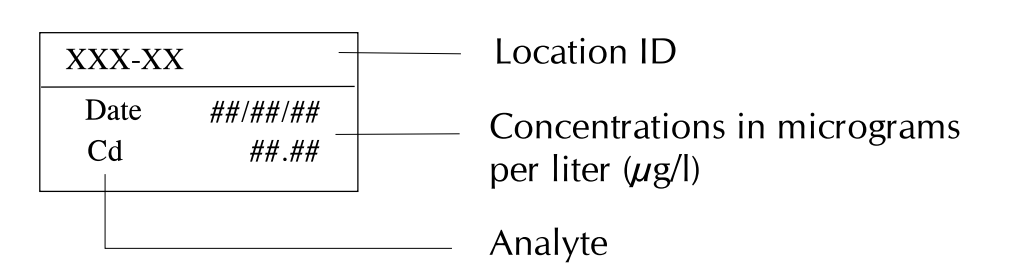




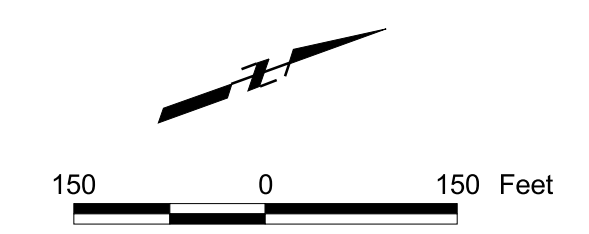
- LEGEND**
- H-5 ● Upper Horizon groundwater monitoring well
  - A02-01 ⊕ Grab groundwater sample location
  - WRC-01 ⊙ Grab groundwater and soil sample location
  - Richmond Facility property boundary
  - - - Open Space, Plant Area, or WRC boundary
  - Bay Trail
  - Area 1 Area of potential concern within the Plant Area
  - Isoconcentration contour greater than the screening criteria for cadmium (greater than 93 µg/l). (Indicated by ? where inferred)

Concentrations shown are the most recent data for each sample location. Data from August 1999 to March 2000 were collected by LFR. Data from before August 1999 were collected by Zeneca.

The following represents a hypothetical point and defines the characters associated with that point.



- NOTES**
- \* Indicates concentration above screening criteria of 93 µg/l for cadmium
  - \*\* Data not used for contouring
  - NA Not analyzed
  - U Below laboratory reporting limit
- ABBREVIATION**
- Cd Cadmium



### Concentrations of Cadmium in Upper Horizon Groundwater

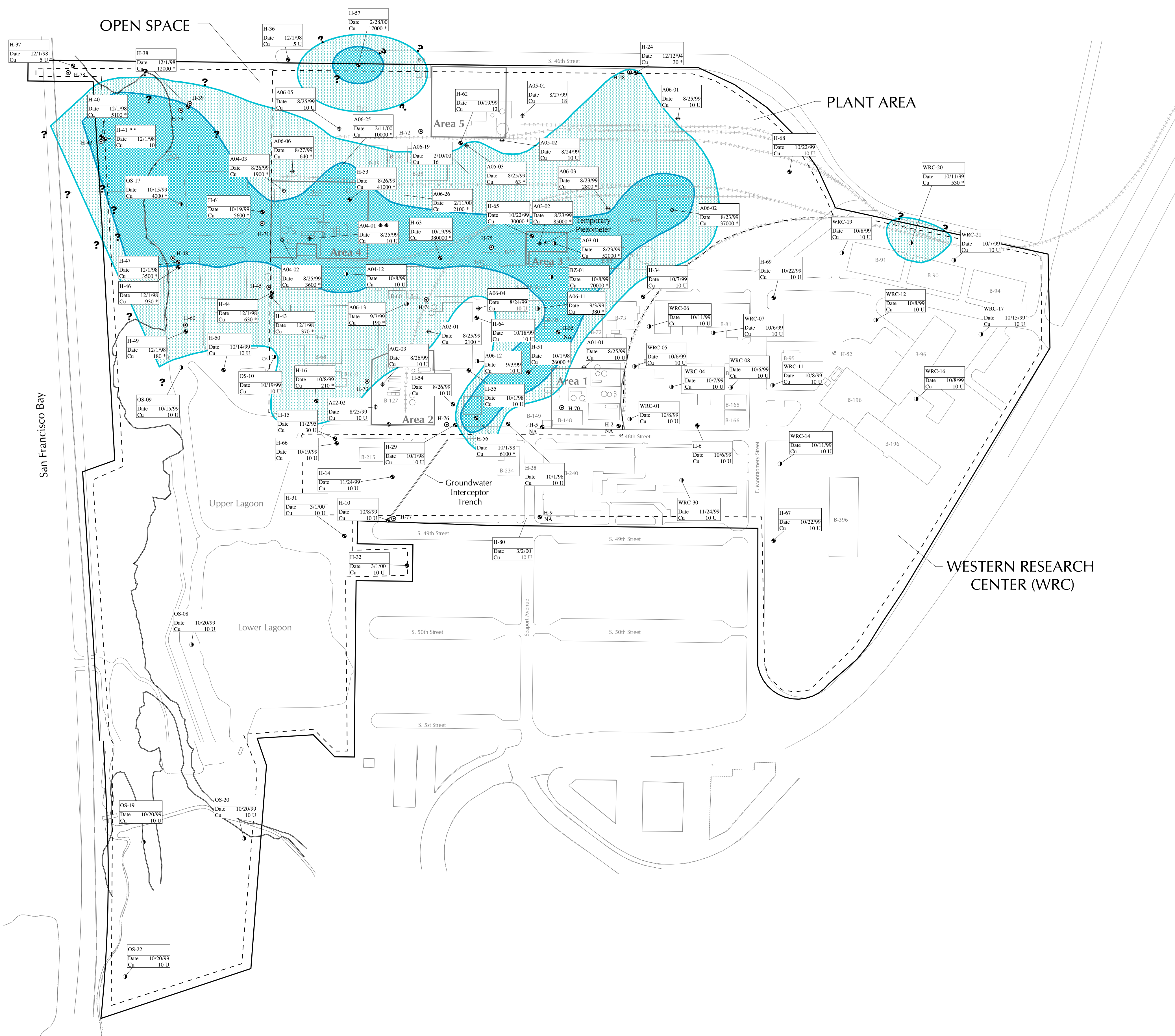
Zeneca Richmond Facility, Richmond, California



Figure 18

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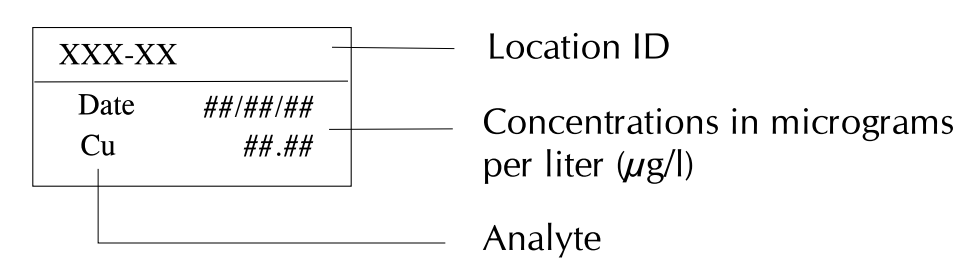




- LEGEND**
- H-5 ● Upper Horizon groundwater monitoring well
  - H-70 ○ Lower Horizon groundwater monitoring well
  - A02-01 ⊕ Grab groundwater sample location
  - WRC-01 ● Grab groundwater and soil sample location
  - H-52 ● Abandoned Upper Horizon groundwater monitoring well
  - Richmond facility property boundary
  - Approximate location of 1959 San Francisco Bay shoreline
  - - - Open Space, Plant Area, or WRC boundary
  - Bay Trail
  - Isoconcentration contour 29 µg/l - 2,900 µg/l (Indicated by ? where inferred)
  - Isoconcentration contour greater than 2,900 µg/l (Indicated by ? where inferred)
  - Area 1 Area of concern within the Plant Area

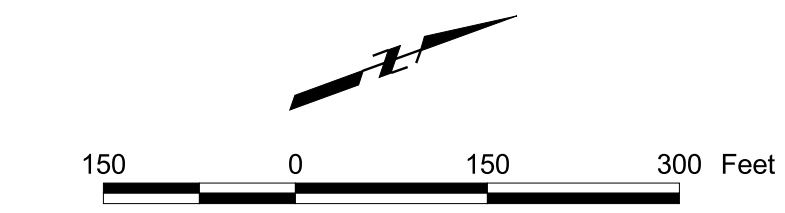
Concentrations shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca.

The following represents a hypothetical point and defines the characters associated with that point.



- NOTES**
- 29 µg/l is the screening criteria for copper
  - \* Concentration exceeds screening criteria for copper
  - \*\* Data not used in contouring
  - NA Not analyzed

- ABBREVIATIONS**
- Cu Copper
  - U Below laboratory reporting limit



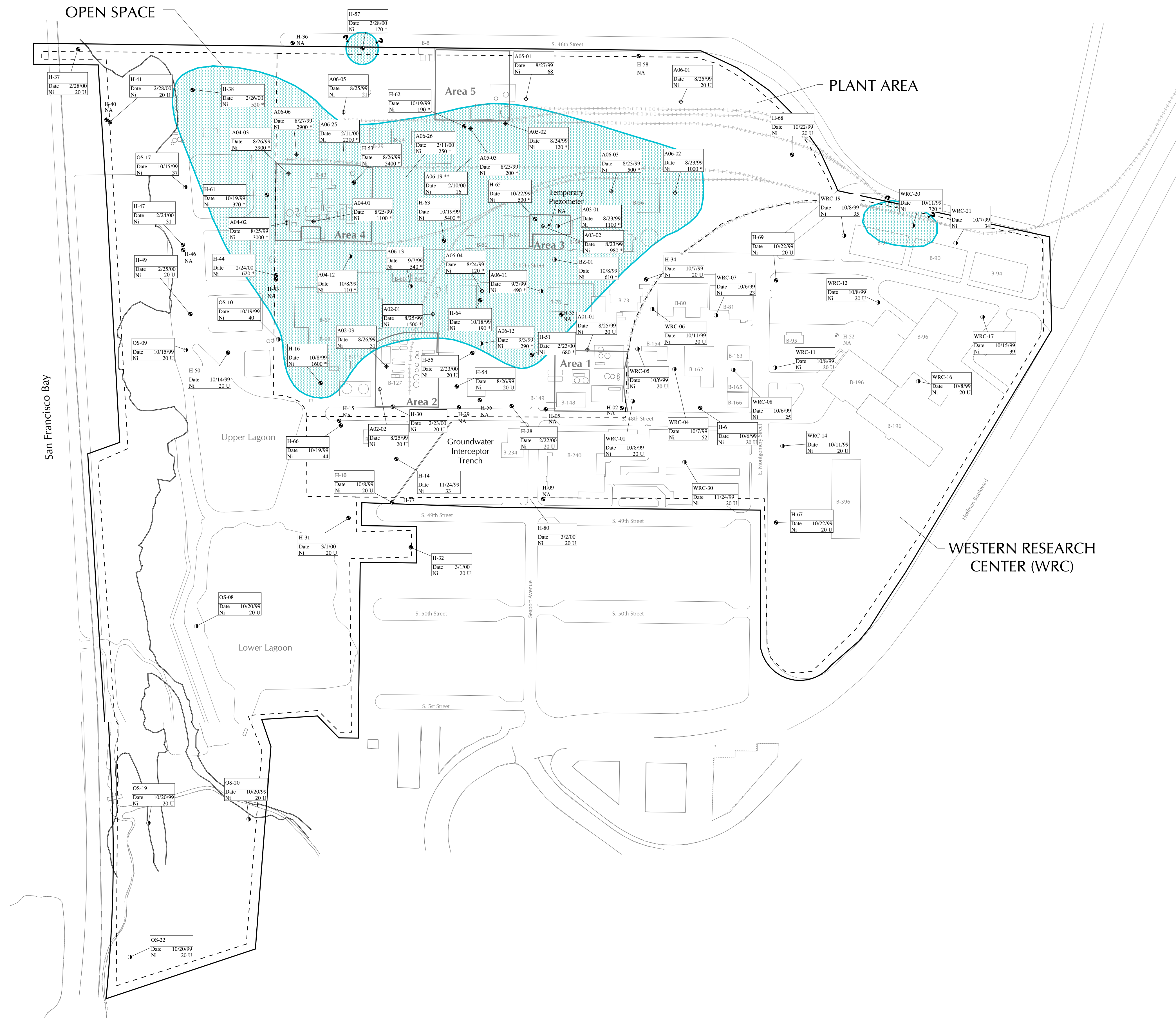
**Concentrations of Copper in Upper Horizon Groundwater**

Zeneca Richmond Facility, Richmond, California



Figure 19





**LEGEND**

- H-5 Upper Horizon monitoring well
- A02-01 Grab groundwater sample location
- WRC-01 Grab groundwater and soil sample location
- H-52 Abandoned Upper Horizon monitoring well
- Richmond facility property boundary
- Open Space, Plant Area, or WRC boundary
- Approximate location of 1959 San Francisco Bay Shoreline
- Bay Trail
- Isoconcentration contour greater than 71 µg/l, the screening criteria for nickel. (Indicated by ? where inferred)
- Area 1 Area of potential concern within the Plant Area

Concentrations shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca.

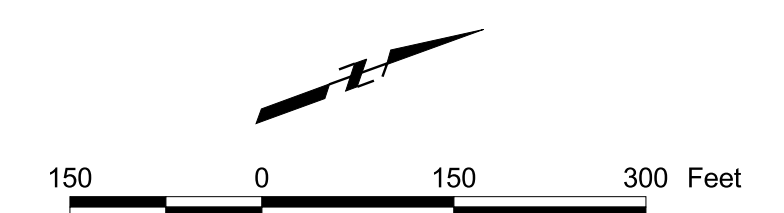
The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Date ##/##/##	Concentrations in micrograms per liter (µg/l)
Ni ##.##	Analyte

- \* Indicates concentration above screening criteria of 71 µg/l for nickel
- \*\* Concentration not used in contouring
- NA Not analyzed
- U Below laboratory reporting limit

**ABBREVIATIONS**

- Ni Nickel



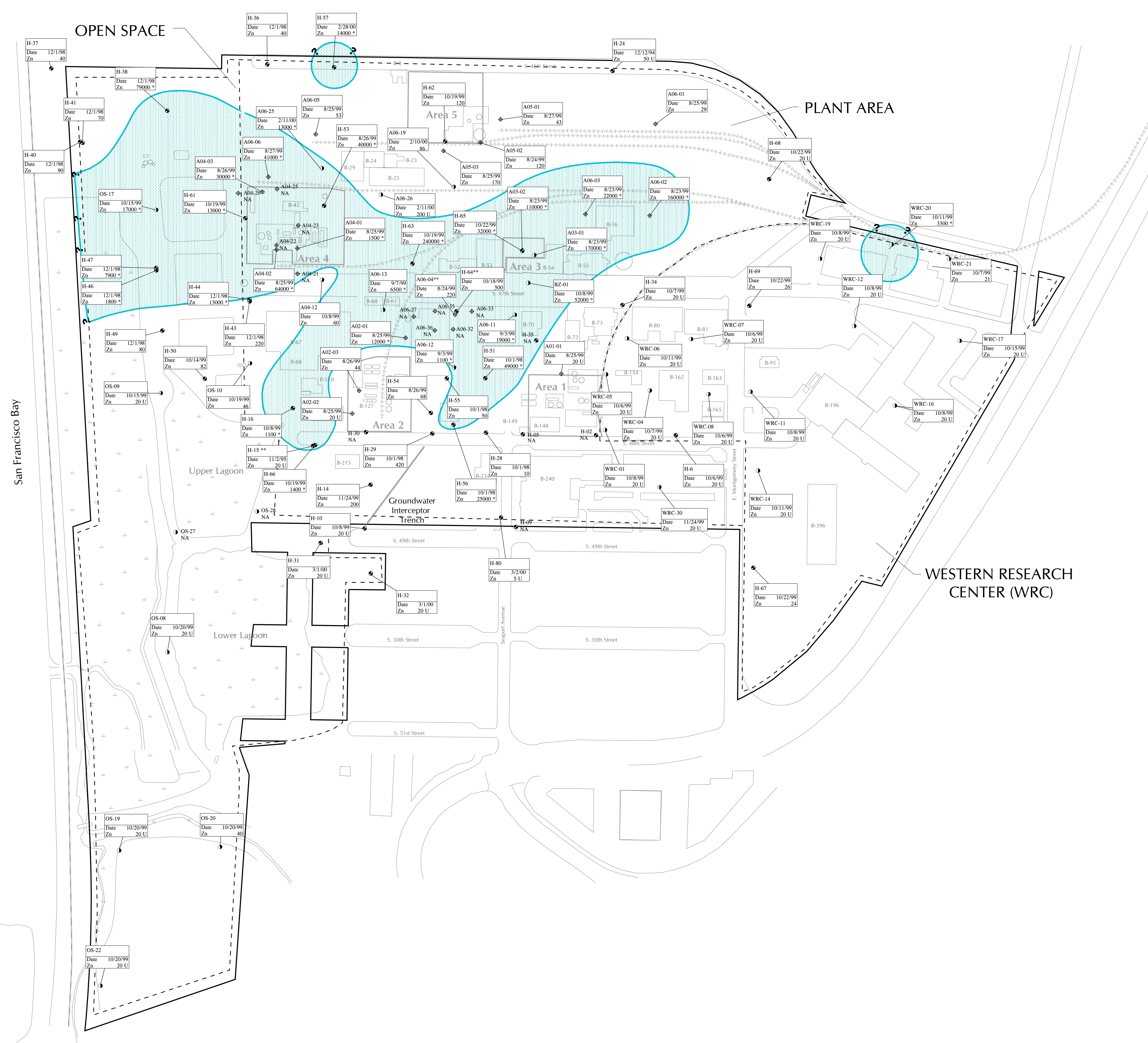
**Concentrations of Nickel in Upper Horizon Groundwater**

Zeneca Richmond Facility, Richmond, California



Figure 20





**LEGEND**

- H-5 ● Upper Horizon groundwater monitoring well
- A02-01 ⊕ Grab groundwater sample location
- WRC-01 ● Grab groundwater and soil sample location
- Richmond Facility property boundary
- - - Open Space, Plant Area, or WRC boundary
- Bay Trail
- Area 1 Area of potential concern within the Plant Area
- Isoconcentration contour greater than the screening criteria for zinc (580 - 58,000 µg/l). (Indicated by ? where inferred)

Concentrations shown are the most recent data for each sample location. Data from August 1999 to March 2000 were collected by LFR. Data from before August 1999 were collected by Zeneca.

The following represents a hypothetical point and defines the characters associated with that point.

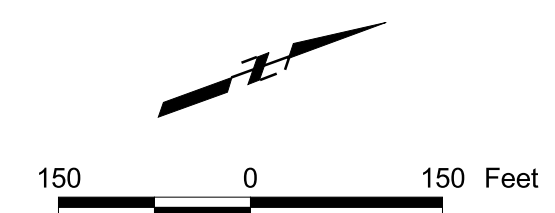
XXX-XX	Location ID
Date    ##/##/##	Concentrations in micrograms per liter (µg/l)
Zn        ##.##	Analyte

**NOTES**

- \* Indicates concentration above screening criteria of 580 µg/l for zinc
- \*\* Data not used in contouring
- NA Not analyzed
- U Below laboratory reporting limit

**ABBREVIATION**

- Zn Zinc



**Concentrations of Zinc in Upper Horizon Groundwater**

Zeneca Richmond Facility, Richmond, California

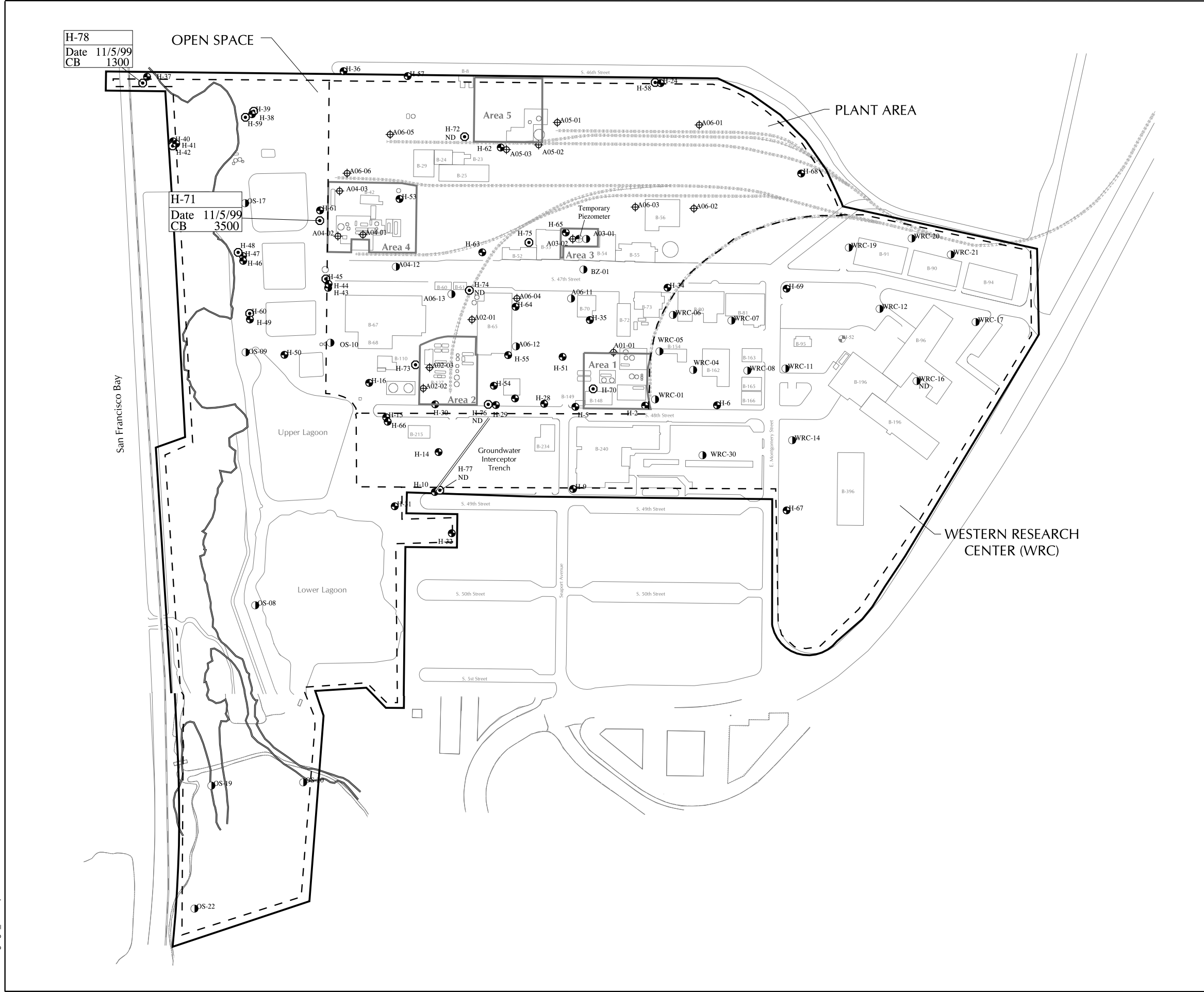


Figure 21

I:\work\04\_05\040501\040501.dwg 10/20/00







H-78  
Date 11/5/99  
CB 1300

H-71  
Date 11/5/99  
CB 3500

- LEGEND**
- H-5 ● Upper Horizon groundwater monitoring well
  - H-20 ○ Lower Horizon groundwater monitoring well
  - A02-01 ⊕ Grab groundwater sample location
  - WRC-01 ● Grab groundwater and soil sample location
  - H-52 ● Abandoned Upper Horizon groundwater monitoring well

- Richmond facility property boundary
- - - Open Space, Plant Area, or WRC boundary
- Approximate location of 1959 San Francisco Bay Shoreline
- Bay Trail
- Area 1 Area of concern within the Plant Area

Concentrations shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca.

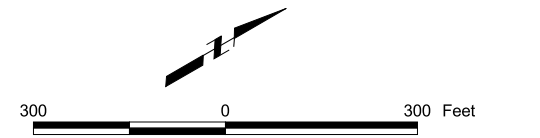
Sample locations without data indicate that results for that analyte were less than screening criteria.

The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Date ###/###/###	Concentration in micrograms per liter (μg/l)
CB ###.##	Analyte

- NA Not analyzed
- ND Not detected for all analytes

- ABBREVIATIONS**
- CB Chlorobenzene
  - VOCs Volatile Organic Compounds

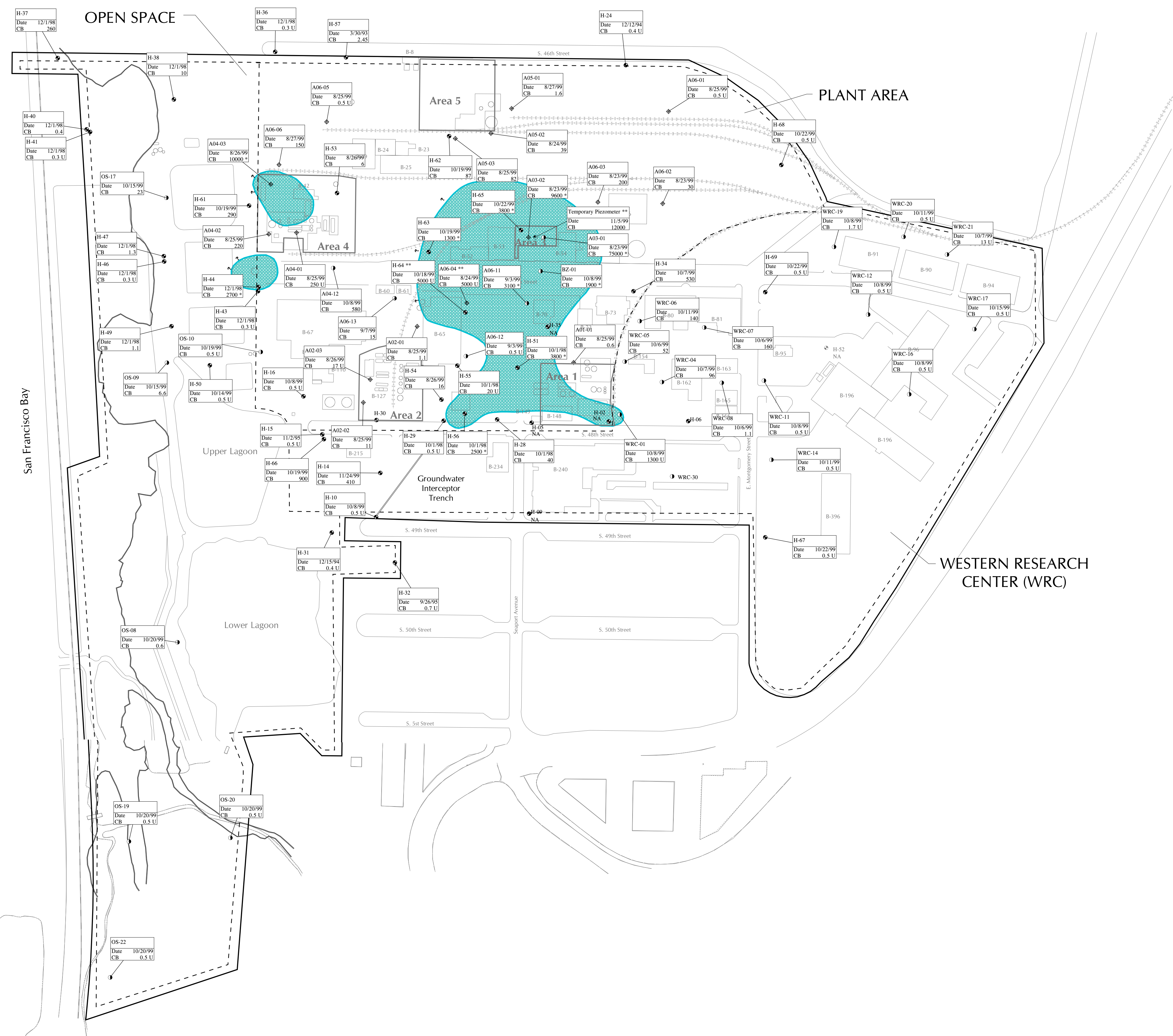


**Concentrations of VOCs above the Screening Criteria in Lower Horizon Groundwater**

Zeneca Richmond Facility, Richmond, California



Figure 23



**LEGEND**

- H-5 ● Upper Horizon monitoring well
- A02-01 ⊕ Grab groundwater sample location
- WRC-01 ● Grab groundwater and soil sample location
- H-52 ● Abandoned Upper Horizon monitoring well
- Richmond facility property boundary
- - - Open Space, Plant Area, or WRC boundary
- Approximate location of 1959 San Francisco Bay Shoreline
- Bay Trail
- Isoconcentration contour greater than 1,290 µg/l, the screening criteria for Chlorobenzene. (Indicated by ? where inferred)
- Area 1 Area of potential concern within the Plant Area

Concentrations shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca.

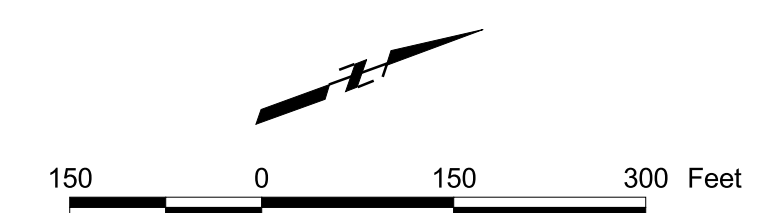
The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Date    ##/##/##	Concentrations in micrograms per liter (µg/l)
CB        ##.##	Analyte

- \* Indicates concentration above screening criteria of 1,290 µg/l for Chlorobenzene
- \*\* Data not used in contouring
- NA Not analyzed
- U Below laboratory reporting limit

**ABBREVIATIONS**

- CB Chlorobenzene



**Concentrations of Chlorobenzene in Upper Horizon Groundwater**

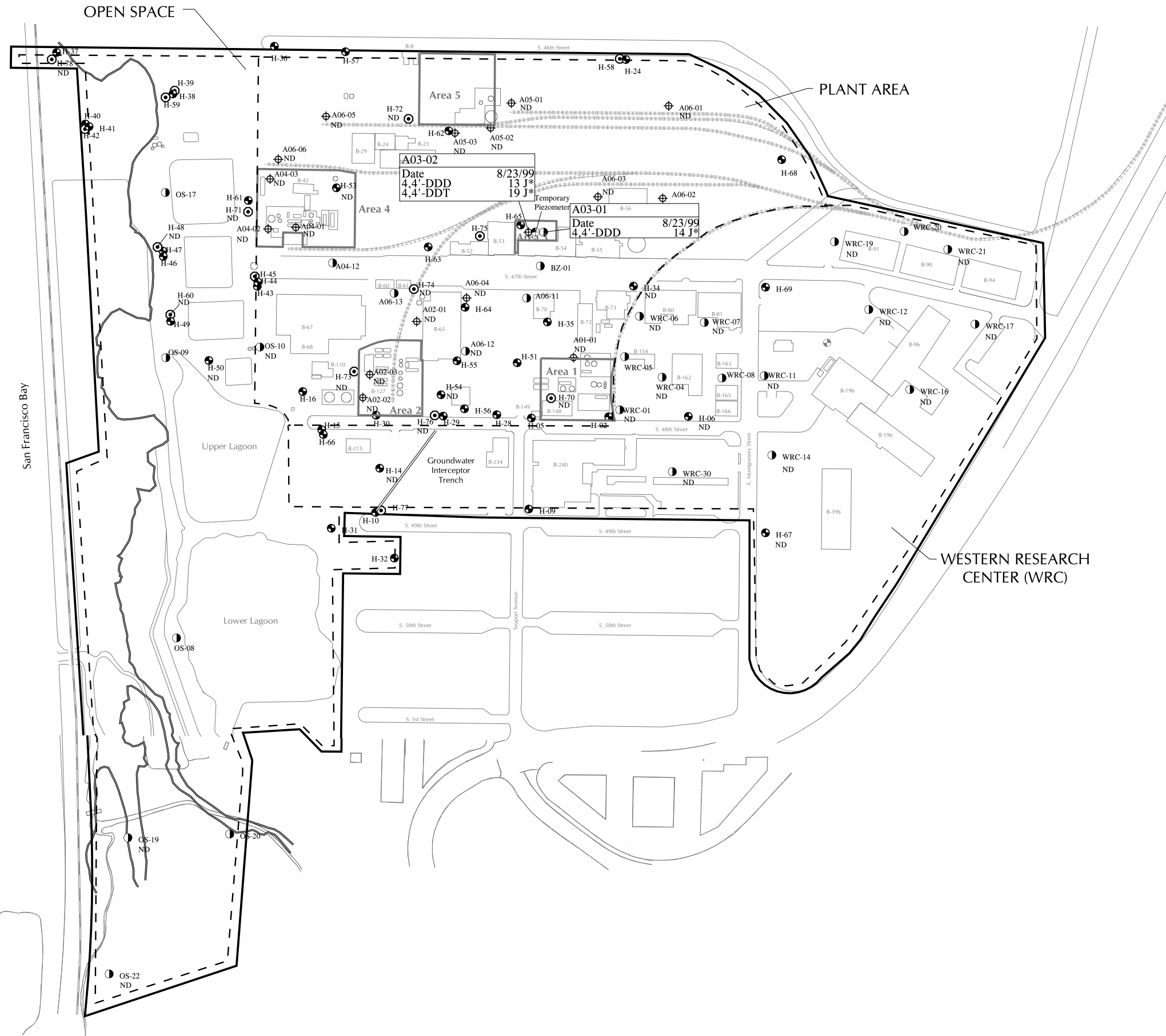
Zeneca Richmond Facility, Richmond, California



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u:\zeneca\gis\gw\_data\3.apr\_05\26\00



- LEGEND**
- H-5 ● Upper Horizon groundwater monitoring well
  - H-20 ○ Lower Horizon groundwater monitoring well
  - A02-01 ⊕ Grab groundwater sample location
  - WRC-01 ● Grab groundwater and soil sample location
  - H-52 ⊕ Abandoned Upper Horizon groundwater monitoring well
  - Richmond facility property boundary
  - - - Open Space, Plant Area, or WRC boundary
  - Approximate location of 1959 San Francisco Bay Shoreline
  - Bay Trail
  - Area 1 Area of concern within the Plant Area

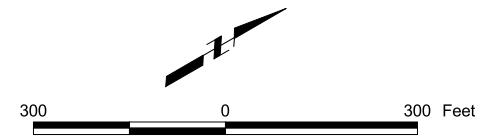
Concentrations shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca.

Sample locations without data indicate that results for that analyte were less than screening criteria.

The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Date     ###/###/##	Concentration in micrograms per liter (µg/l)
4.4'-DDT   ##.## J*	Analyte

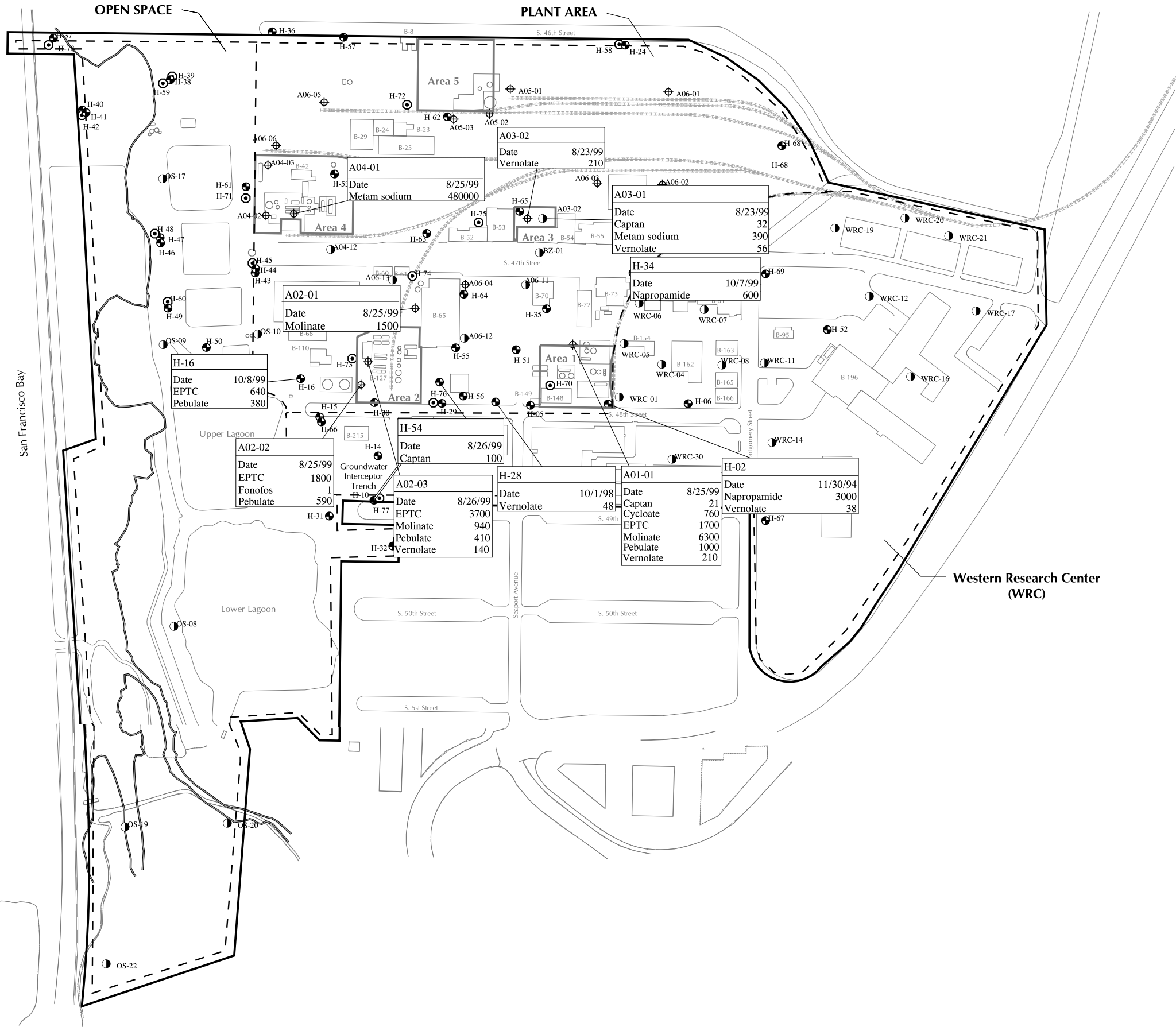
- J\* Estimated value
- NA Not analyzed
- ND Not detected for all analytes



**Concentrations of Organochlorine Pesticides  
in Groundwater  
above the Screening Criteria**  
Zeneca Richmond Facility, Richmond, California



**Figure 25**



- LEGEND**
- H-5 ● Upper Horizon groundwater monitoring well
  - H-20 ○ Lower Horizon groundwater monitoring well
  - A02-01 ⊕ Grab groundwater sample location
  - WRC-01 ● Grab groundwater and soil sample location
  - H-52 ⊕ Abandoned Upper Horizon groundwater monitoring well

- Richmond facility property boundary
- - - Open Space, Plant Area, or WRC boundary
- Approximate location of 1959 San Francisco Bay Shoreline
- Bay Trail
- Area 1 Area of concern within the Plant Area

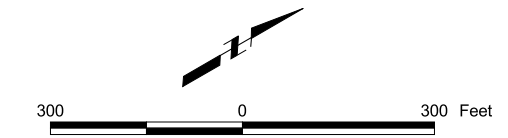
Concentrations shown are the most recent data for each sample location. Data from August to November 1999 was collected by LFR. Data from before August 1999 was collected by Zeneca.

Sample locations without data indicate that results for that analyte were less than screening criteria.

The following represents a hypothetical point and defines the characters associated with that point.

XXX-XX	Location ID
Date ###/###/##	Concentration in micrograms per liter (µg/l)
EPTC ###.##	Analyte

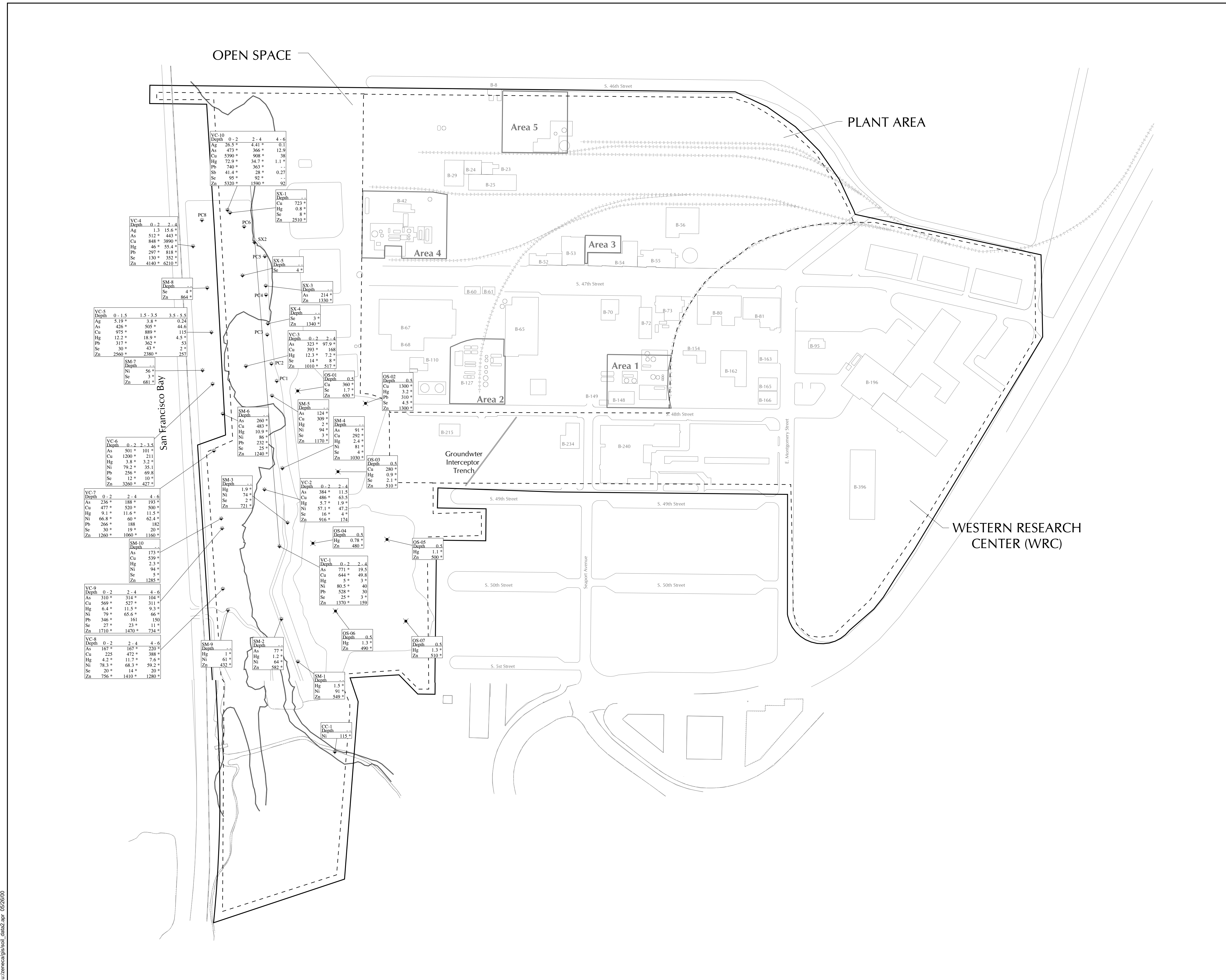
- NA Not analyzed
- ND Not detected for all analytes



**Concentrations of Proprietary Pesticides in Groundwater above the Screening Criteria**  
 Zeneca Richmond Facility, Richmond, California





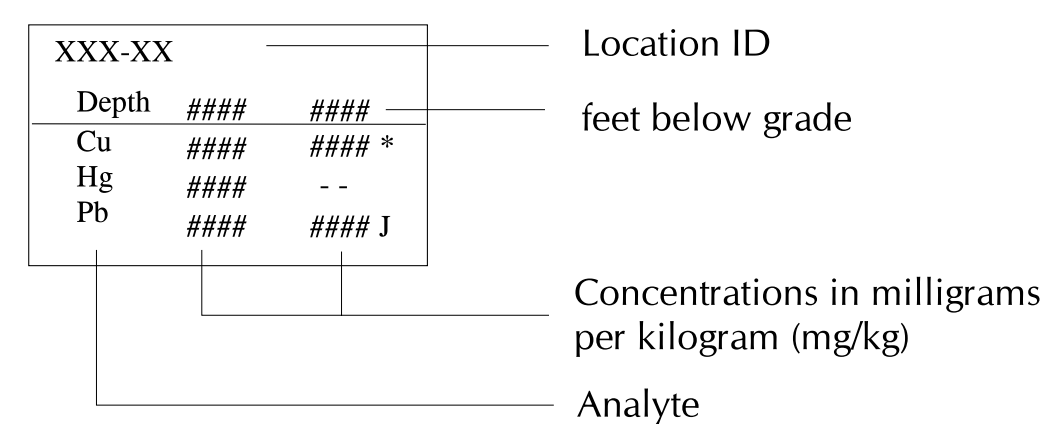


**LEGEND**

- OS-03 Freshwater lagoon sediment samples collected by LFR
- SM-1 Sediment/soil samples collected by Pacific Eco Risk
- Richmond facility property boundary
- Open Space, Plant Area or WRC boundary
- 1959 San Francisco Bay shoreline
- Bay Trail
- Area 1 Area of potential concern

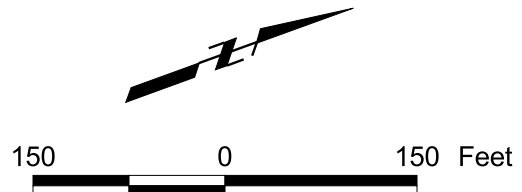
Concentrations shown are the most recent data for each sample location. Sample locations without data indicate that results for that analyte were less than the screening criteria.

The following represents a hypothetical point and defines the characters associated with that point.



- \* Indicates concentration above ecological screening criteria
- Indicates concentration below the laboratory reporting limit
- J Estimated value
- NA Not analyzed

ABBREVIATIONS	SCREENING CRITERIA (mg/kg)
Ag	Silver 3.7
As	Arsenic 70
Cu	Copper 270
Hg	Mercury 0.71
Ni	Nickel 51.6
Pb	Lead 218
Sb	Antimony 25
Se	Selenium 1.4
Zn	Zinc 410



**Concentrations of Metals Above ERMs in Soil Samples from Stege Marsh and Freshwater Lagoons**  
Zeneca Richmond Facility, Richmond, California



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**APPENDIX A**  
**Field Methods**

## 1.0 INTRODUCTION

This appendix provides detailed descriptions of field methods used during the Phase II investigation that was conducted by LFR on behalf of Zeneca Inc. ("Zeneca") for the Zeneca facility located at 1415 South 47<sup>th</sup> Street in Richmond, California ("the Site"). The field activities were conducted from August through November 1999 at the Site. Field activities conducted during this investigation included drilling soil borings with a Geoprobe push rig, collecting soil samples, collecting grab groundwater samples, installing Upper-Horizon monitoring wells, installing Lower-Horizon monitoring wells, developing monitoring wells, and collecting groundwater samples from monitoring wells. These field methods are described below.

## 2.0 GEOPROBE PUSH RIG SOIL AND GROUNDWATER SAMPLING

Soil and groundwater samples were collected using the Geoprobe push rig sampling method, which is a direct push technology. This method uses a small drill rig to push 4-foot-long, 2-inch-diameter hollow steel rods into the subsurface using a hydraulic jack hammer system. Soil and groundwater samples were collected from the borings by Fast Tek from Point Richmond, California, as described below.

### 2.1 Soil Sampling

Soil samples were collected from the upper 6 to 10 feet below ground surface (bgs) for lithologic description and possible chemical analysis using clean, butyrate-lined, 4-foot-long sample barrels. After each sample barrel was driven 4 feet into the soil, it was retrieved and the butyrate liner with soil was removed. After sample retrieval, an additional 4-foot-long section of steel rod was added to a new, clean, butyrate-lined sample barrel. The rods were then placed back into the borehole and the sample barrel was driven through the next 4-foot interval. These steps were repeated until the desired depth of the boring was reached.

After collection, the soil sample contained in the liners was removed from the sampler. The sample was visually inspected and logged by cutting open the butyrate liner at specific intervals. Samples collected during drilling were screened for organic vapors and lithologically logged using the Unified Soil Classification System (USCS). Organic vapor readings and soil descriptions were recorded on field boring log forms.

Selected soil samples were retained for chemical analysis. The sampling barrel was decontaminated in accordance with the procedures in this appendix.

After the desired depth had been reached, the borehole was sealed with cement/bentonite grout. After the steel rods were removed, the grout was poured into the borehole through the top of a 1-inch-diameter polyvinyl chloride (PVC) casing that was placed in and was resting on the bottom of the borehole. When the borehole was

filled with grout, the 1-inch-diameter PVC casing was removed from the borehole and the borehole was topped off with grout.

### **2.1.1 Lithologic Logging and Documentation**

Continuous soil cores and soil samples were collected for lithologic description. Soil types and characteristics were examined and described by a geologist or engineer, who maintained a complete record of these descriptions on a lithologic log. Sediments were described in accordance with the USCS. At a minimum, the following information was recorded, as appropriate, on the log:

- project name and location
- soil boring location
- sampling depth
- sediment classification
- sediment color
- moisture condition of the sediment
- percentage of fine-grained material (clay and silt), sand, and/or gravel, if present
- sediment odor (if noticed incidentally and consistent with health and safety precautions)
- photoionization detector (PID) field measurements
- descriptive comments, including obstacles encountered or other drilling difficulties
- depth to first encountered groundwater
- depth to stabilized groundwater (if possible)
- depth of fill material (if present)
- depth to bedrock (if encountered)
- supervising geologist's or engineer's signature and date

A California Registered Geologist or Professional Engineer reviewed and approved the lithologic logs.

### **2.1.2 Field Screening of Soil Samples**

Selected soil samples were field screened for the presence of organic vapors. The concentration of organic vapors was measured with a PID-type organic vapor meter (OVM). The selected soil sample was placed in a plastic bag and sealed. The soil sample was shaken and allowed to stabilize for approximately 5 minutes, and the PID tip was inserted directly into the bag. The maximum reading detected by the PID was noted in the bound field log book or on the lithologic logs.



### **2.1.3 Soil Sampling for Laboratory Analyses**

Soil sampling for laboratory analyses was performed in accordance with ASTM Method D-4547. Samples were selected for chemical analysis based on lithology, visual observations, and field instrument readings. Final decisions regarding the submittal of soil samples for fixed laboratory analysis were based on site conditions. Selected 6-inch-long sample tubes were cut out of the 4-foot-long butyrate liner. Teflon tape was then placed on both ends of the soil sample tube selected for chemical analysis and a plastic cap was sealed over each end of the tube. The sample was then labeled and placed in an ice-chilled cooler for shipment to the laboratory under strict chain-of-custody protocol.

## **2.2 Groundwater Sampling: First Encountered Groundwater**

At borings that were selected for groundwater sample collection, the soil sample barrel and steel rods were pushed approximately 2 to 5 feet deeper than where the first groundwater-bearing zone was encountered. The sample barrel and steel rods were then removed from the boring, and 1-inch-diameter PVC casing with 5 feet of screen was lowered into the borehole. A grab groundwater sample was then collected by lowering a clean stainless steel bailer into the 1-inch-diameter PVC casing and screen.

Groundwater samples were poured from the bailer into laboratory-supplied sample containers, labeled with the boring identification number, the time and date of collection, the analysis requested, and the name of the sampler. The samples were then stored in a chilled ice chest, and maintained under strict chain-of-custody protocols until submitted to the analytical laboratory.

When sampling was completed, the borehole was sealed with cement/bentonite grout as described in Section 2.1.

## **3.0 GROUNDWATER MONITORING WELL INSTALLATION PROCEDURES**

Groundwater monitoring wells were installed in Upper-Horizon groundwater and Lower-Horizon groundwater. All wells were installed by the hollow-stem auger drilling method. Lower-Horizon wells were constructed with conductor casing installed to seal out Upper-Horizon groundwater and sediments.

### **3.1 Groundwater Monitoring Wells: Upper Horizon**

Upper-Horizon monitoring wells were installed using 8-inch hollow-stem augers advanced to the desired depth. Monitoring wells were constructed by placing the well casing and screen inside the hollow-stem auger. Materials used to fill the annular space between the well casing and the borehole wall, consisting of filter sand, bentonite, and

cement/bentonite grout, were added as the hollow-stem augers were removed from the boring. This process ensured that the boring remains open and well materials are properly placed in the boring.

The annular space between the well casing and the inside of the hollow-stem augers acted as a tremie pipe for the placement of the sand pack and bentonite pellets. The cement seal was then pumped into place through a tremie pipe.

Well casings were constructed of either 2-inch-diameter schedule 40 PVC casing and 0.010-inch continuous slot PVC screen, or 4-inch-diameter schedule 40 PVC well casing and 0.010-inch stainless steel screen. Upper-Horizon monitoring wells were screened from depths ranging from approximate 8 to 24 feet bgs. The sand filter pack size and the size of the well screen slots were selected to minimize passage of sand filter pack material through the screen and inhibit movement of fine-grained material from the formation into the well. The filter pack extended no more than 2 feet above the top of the screened interval. Approximately 2 feet of bentonite pellets were placed on top of the filter pack and the remaining annular space above the sand pack was completely filled by tremie grouting or pouring with a cement/bentonite seal, for the entire length of the borehole. A locking well cap was then placed over the top of the casing to protect the integrity of the well. Well vaults consisted of either flush-mounted well protective covers or aboveground stovepipe protective covers.

### **3.2 Groundwater Monitoring Wells: Lower Horizon**

The Lower-Horizon monitoring wells were double-cased using the hollow-stem auger method by Spectrum Exploration of Stockton, California. A 15-inch-diameter borehole was drilled to the top of the fine-grained interval, which separates the Upper and Lower-Horizon intervals. A 8-5/8-inch-diameter steel conductor casing was then placed in the borehole through the augers and pushed approximately 1 foot into the fine-grained interval to prevent potentially affected Upper-Horizon groundwater from being conveyed into the Lower-Horizon groundwater during well construction. The conductor casing was assembled using carbon steel welded together in the field to the required length. The conductor casing was cemented in place using a tremie pipe while the augers were removed. The neat cement grout with approximately 5 percent bentonite was allowed to set for approximately 24 hours before drilling resumed.

After the conductor casing annular seal grout had cured, the water or drilling material inside the conductor casing was bailed out of the conductor casing. A boring was then drilled with 8-inch hollow-stem augers through the conductor casing into the Lower Horizon. The Lower-Horizon monitoring wells were screened from depths ranging from 24 to 43 feet bgs. The wells were then completed with 2-inch-diameter schedule 40 PVC casing using the methods described for the Upper-Horizon wells.

## 4.0 MONITORING WELL DEVELOPMENT

All newly installed wells were developed a minimum of 12 hours after well installation. Wells were developed by first surging the screened interval using a surge block and then bailing the well to remove the suspended sediment. This process was repeated until the well showed significant decrease in sediment production.

Wells were then purged with 2-inch submersible pumps. During well development, field parameters (pH, temperature, conductivity, and turbidity) were monitored after every well volume was purged. Well development was discontinued when pH, temperature, and conductivity stabilized (within 15 percent of the previous measurement), and the purge water contained relatively little sediment. Well development data were recorded on water-quality sampling information forms.

Groundwater purged during well development was temporarily stored in 55-gallon drums stored on site. Pumps and other downhole equipment were decontaminated between wells by steam cleaning.

## 5.0 FLUID LEVEL MEASUREMENTS AND GROUNDWATER SAMPLING

Fluid level measurements and groundwater samples were collected from each well no sooner than 24 hours after well development.

**Measurement of Groundwater Levels.** The depth to groundwater in the well was measured using an electric water-level measurement device with a minimum 100-foot tape, mounted on a hand-cranked reel, and equipped with an alarm or signal device that indicated when the probe had encountered groundwater. The probe at the bottom of the tape was lowered into the well to the point at which the alarm or signal device indicated the presence of groundwater. The water level was then recorded on the fluid-level measurement form to the nearest  $\pm 0.01$  foot, with the measurement time. Duplicate measurements were taken at each well and recorded on the fluid-level measurement form.

**Well Purging.** To ensure representative sample collection, each monitoring well was purged before sampling of 3 to 5 well casing volumes of water using a 2-inch-diameter submersible pump or by hand bailing with a Teflon bailer. The purging pump was fitted with a backflow prevention valve to prevent purge water from reentering the well when the pump was turned off. Cumulative discharge from each well was determined either manually (e.g., by periodically filling a bucket of known volume), or through the use of a flow meter attached to the pump's discharge tubing.

Hand bailing was performed by slowly lowering the bailer into the well on new or dedicated nylon cord, to the point where the bailer filled with water. The bailer was then removed from the well and discharged into a container of known volume. This process was repeated until the desired amount of water had been purged from the well.

After each approximate well casing volume of groundwater had been purged, discharge samples were collected in wide-mouthed jars and measured for pH, temperature, and specific conductance. If the pH, temperature, and specific conductance had stabilized to within 15 percent for two successive samples after 3 well casing volumes of groundwater were removed, and the water was relatively clear or free of sediment, purging was stopped and the groundwater sample was collected. The field parameters were recorded on the water-quality sampling information form. Pumps and other downhole equipment were decontaminated between wells by steam cleaning. Purged water was temporarily stored in 55-gallon drums stored on site.

Samples were collected from the monitoring wells as soon as a sufficient volume of water had recovered in the well and no more than two hours after purging. If a well was pumped dry during purging, it was allowed to recover to 80 percent of the original volume (or after maximum of 2 hours) and was sampled. The time required to purge a well was recorded on the water-quality sampling sheet.

**Sample Collection.** Following well purging, the pumps, tubing, and safety line were removed from the well. The final depth to water at the time of sample collection was recorded on a water-quality sampling information form. Groundwater was sampled using a clean Teflon bailer or a new disposable polyethylene bailer. The bailer was lowered into the well using a new length of nylon rope.

The samples were placed in appropriate sample containers, capped, labeled, and stored in a sample cooler that has been chilled to 4 degrees Celsius. Samples designated for laboratory analysis were collected in appropriate laboratory-supplied containers. Collected samples were recorded on the water-quality sampling information forms. All samples were labeled with the collector's initials, a unique sample identification number (well identification), time of sampling, date, location, sample type, analytical method, and preservative used. Complete chain-of-custody forms accompanied the samples to the designated laboratory.

## 6.0 SAMPLE CUSTODY AND DOCUMENTATION

Sample custody and documentation consists of proper sample identification, completed sample labels and sample collection data forms, and completed chain-of-custody forms. These forms were completed using indelible ink.

Field documentation is described in detail below.

### 6.1 Sample Containers, Preservation, and Holding Times

The appropriate sample containers and preservation were used. All sample vials and bottles containing preservatives were labeled by the laboratory before samples were collected. With the exception of samples that required special handling and preservation, all samples were stored in coolers chilled to 4 degrees Celsius for

shipment to the appropriate analytical laboratory. Sample containers were not reused. All samples were analyzed by the analytical laboratory before the holding time for the specific chemical analysis was exceeded.

## 6.2 Sample Labels

A sample label was completed and attached to each sample container for every sample collected. Labels consisted of a waterproof material backed with a water-resistant adhesive. Labels were filled out using waterproof ink, and contained at least the following information:

- sampling date and time
- sample identification number
- investigation location
- preservatives, if any
- sampler's initials
- analyses to be conducted

## 6.3 Groundwater Sample Collection Data Forms

During groundwater well development, well purging, groundwater sampling, and water-level measurement field activities, appropriate field log forms were completed by the individual collecting the data for each monitoring well. These forms contained pertinent project and well location information.

The following information was entered on the sample collection data form at the time of sampling:

- project name and number
- investigation location
- well identification number
- sampler's initials
- time and date of sampling
- sampling method
- sample identification number
- volume of each sample container
- laboratory analyses requested
- purged volume
- well depth and diameter

- observable water conditions (e.g., color, odor [if noticed incidentally and consistent with health and safety precautions], clarity)
- groundwater level before and after sampling
- field conditions (e.g., recent precipitation, ambient temperature)
- equipment used
- indicator parameter measurements (pH, temperature, specific conductance, turbidity)

## 6.4 Chain of Custody

Chain-of-custody records, which document sample collection and handling, were prepared for groups of samples collected at a given location on a given day. Each chain-of-custody was prepared in quadruplicate and accompanied every shipment of samples sent to the laboratory.

Two of the four copies (white and green) accompanied the samples to the laboratory. The yellow copy is kept in the quality assurance/quality control (QA/QC) file, and the pink copy is retained in the project file. The chain-of-custody form makes provision for documenting sample integrity and the identity of any persons involved in sample transfer. Information entered on the chain-of-custody consists of the following:

- project name and number
- field logbook number
- chain-of-custody serial number
- project location
- sample numbers
- sampler/recorder's signature
- date and time of collection of each sample
- collection location
- sample type
- analyses requested
- inclusive dates of possession
- name of person receiving the sample
- laboratory sample number
- date of receipt of sample
- name, address, and telephone number of laboratory

## 6.5 Sample Shipment

Samples were delivered to the analytical laboratory via hand delivery by field personnel, laboratory courier, or commercial shipping services (such as UPS or FedEx). The method of sample shipment was noted on the chain-of-custody forms. If samples were held longer than 24 hours, the samples were placed in a refrigerator or similar insulated cooling container and maintained at 4 degrees Celsius.

## 6.6 Laboratory Custody Procedures

The laboratory designated a sample custodian, who accepted custody of the shipped samples and checked that the information on the sample label matched that on the chain-of-custody forms. The custodian then entered the appropriate data into the laboratory sample tracking system. The custodian used the sample number on the sample label or assigned a unique laboratory number to each sample. The custodian then transferred the samples to the proper analysts or stored the samples under refrigeration (if required) until they were analyzed.

Laboratory personnel were responsible for the care and custody of samples from the time they are received until the sample was exhausted or disposed of. Disposal of unused samples was the responsibility of the laboratory and must comply with all applicable federal, state, and local environmental regulations. All data sheets and laboratory records are retained as permanent documentation.

## 7.0 FIELD INSTRUMENT CALIBRATION PROCEDURES

The following field equipment needed calibration:

- pH/temperature meter
- conductivity meter
- PID-type OVM
- water-level meter

Proper maintenance, calibration, and operation of each instrument were the responsibility of field personnel assigned to a particular field activity. All instruments and equipment used during the investigation were maintained, calibrated, and operated according to the manufacturers' guidelines and recommendations. Calibration procedures for field equipment are summarized below.

### 7.1 Temperature, pH, and Specific Conductance Measurement Equipment

During groundwater sampling at each well, specific conductance, water temperature, and pH were measured. Those measurements were taken by placing a representative

water sample in a transfer container used solely for measuring field parameter values. The instruments described below, or instruments that measure two or all three of these parameters, were used for these measurements. All instrument probes were properly cleaned and rinsed before each use.

**Temperature.** Temperature was measured with standard thermometers or temperature meters in degrees Celsius.

**pH.** The pH of groundwater was measured with a conventional pH meter, which consisted of a pH electrode and a temperature electrode. The pH meter was calibrated daily before use in the field using standard pH buffer solutions (pH 4.00, 7.00, and 10.00), or more frequently as necessary. A two-buffer calibration was performed before measurements were taken, using the buffer solutions whose pH values bracketed the anticipated values for the samples to be tested. Temperature corrections were made automatically by the pH meter.

**Specific Conductance.** For specific conductance measurements, a conventional conductivity meter or equivalent combination instrument was used. Digital conductivity meters were calibrated daily before use in the field, or more frequently as necessary, using a reagent-grade potassium chloride standard (single-point calibration). Calibration was performed via a temperature correction on the meter. The temperature of the standard solution at the time of calibration was measured to 0.1 degree Celsius and recorded in the field calibration log together with the certified and measured specific conductance values for the standard solution. The conductivity meters were calibrated semiannually at the LFR maintenance facility using different concentrations of reagent-grade potassium chloride standards (multipoint calibration). The certified and measured specific conductance values were recorded and maintained in a log at the LFR maintenance facility. The temperatures of field samples were recorded at the time of measurement.

## 7.2 Fluid-Level Measurement Equipment

Fluid-level measurement equipment was used for water-level measurements during groundwater monitoring well development, purging, and sampling activities.

**Electric Well Sounder.** Water levels were measured using a battery-powered sounder (Solinst brand or equivalent) with regular 0.01-foot intervals permanently marked on the sounder line. The calibration of each electric sounder was checked at least four times a year. Markings were checked by physically comparing the spacing with a graduated steel tape. If the difference between the two measurements was not less than 0.05 foot per 100 feet, the measurement was repeated, and repairs made, if necessary. Calibration checks were recorded in the instrument logbook that is kept at the LFR maintenance facility. The sounder was also checked for calibration after any incident that could have altered the instrument's accuracy.



### 7.3 Organic Vapor Meter

Field measurements were collected using portable OVMs that feature hydrocarbon detection by PID (such as HNU Model PI 101). The OVM was used to measure organic vapors in soil.

Manufacturer-supplied calibration standard span gas (100 parts per million isobutylene) was used to calibrate the OVM. Calibration of the OVM was performed once each day and more frequently as needed throughout the day if irregularities in the readings become apparent.

LFR field personnel maintained a bound logbook containing calibration data for each OVM, including time and date of the previous calibration, who performed the calibration, and how it was performed.

## 8.0 DECONTAMINATION PROCEDURES

All equipment used during investigation activities that could come into contact with potentially chemically affected materials was thoroughly cleaned, before and after each use, by washing with high pressure hot water and/or with Alconox (a laboratory-grade detergent) and rinsing with deionized, distilled, or fresh water.

In between soil sampling intervals, the soil samplers were cleaned with an Alconox solution and potable water. Before each drilling operation, any portions of the rig that came into contact with sampling materials were washed with high-pressure hot water.

Groundwater sampling and field equipment was decontaminated as follows:

- Accessible exterior and interior portions of groundwater pumps were washed using high-pressure hot water or with an Alconox solution before use at each sampling location. Unreachable interior pump areas were cleaned either by flushing near-boiling clean water through the pump and discharge lines (bladder pump), or by flushing the pump and discharge lines with an Alconox solution and rinsing with clean water.
- Teflon or stainless steel bailers were washed with high-pressure hot water or washed with an Alconox solution and rinsed with clean water before use at each sampling location. Bailer ropes were replaced after use in each boring or well/piezometer and, while in use, were protected from contact with the ground or chemically affected equipment and/or skin.
- New well materials that were decontaminated at the factory and wrapped in plastic were used at each new well location.

## 9.0 SITE SURVEYING

A ground survey was conducted by a land surveyor licensed in the State of California (Kister, Savio, and Rei of Richmond, California). A survey and mapping coordinate system was developed, which included the establishment of a permanent benchmark at the Site. Site base and vicinity maps were produced from existing site maps and site surveying activities. The survey and mapping system was based on a grid system. Horizontal control was based on the California Coordinate System.

All new groundwater monitoring wells, soil borings, and other investigation locations or other pertinent investigation features were located in both the vertical plane (z) and both horizontal planes (x, y). The horizontal control was surveyed to the nearest 0.5 foot. The vertical control was surveyed to the nearest 0.01 foot, referenced to mean sea level. In addition, the elevations of tops of well casings and ground surface elevations were established to the nearest 0.01 foot at each monitoring well. The tops of well casings were clearly marked with a surveyed punch mark or black marker on the north side of the top of the casing of each monitoring well.

## 10.0 WASTE MANAGEMENT

Drill cuttings and formation fluids generated during the drilling process were shoveled into an appropriate container at the drill location. The container was then moved and placed into roll-off bins located near Building 65. The containers were chemically tested to determine the appropriate means of disposal. The waste materials were then labeled, handled, manifested (if appropriate), and disposed of according to the California Environmental Protection Agency Department of Toxic Substances Control and Regional Water Quality Control Board, Central Valley Region regulations.

**APPENDIX B**

**Quality Assurance/Quality Control  
Evaluation Summary**

## QA/QC EVALUATION SUMMARY

LFR Levine·Fricke (LFR) performed a quality assurance/quality control (QA/QC) evaluation of the analytical data collected during the Phase II Investigation at the Zeneca/Stauffer Richmond Facility, located at 1415 South 47<sup>th</sup> Street in Richmond, California ("the Site"). The QA/QC evaluation was conducted in accordance with the United States Environmental Protection Agency's (U.S. EPA's) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," dated October 1999, and "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," dated February 1994 ("the EPA Guidance"). The following is a summary of the QA/QC evaluation of analytical data for remedial investigation soil and groundwater samples collected in September through November 1999 at the Site. Soil and groundwater samples were submitted to Curtis & Tompkins, Ltd. ("Curtis & Tompkins"), a California state-certified analytical laboratory located in Berkeley, California. Soil and groundwater samples were collected for analysis using the following EPA methods:

- EPA Method 8260 for volatile organic compounds (VOCs)
- EPA Method 8270 for semivolatile organic compounds (SVOCs)
- EPA Method 8080 or 8081 for organochlorinated pesticides (OCPs)
- EPA Method 8080 or 8082 for polychlorinated biphenyls (PCBs)
- EPA Method 6010/7000 series for metals
- EPA Method 300.0 for chloride and sulfate
- EPA Method 310.1 for alkalinity, total
- EPA Method 8015M for total petroleum hydrocarbon as gasoline or diesel

A list of the sample delivery group numbers (SDG) issued by Curtis & Tompkins for the analytical data are summarized in Table B-1.

The data were evaluated based on the following parameters according to the EPA Guidance for data validation:

- data completeness
- holding times
- blanks
- system monitoring compound spike recoveries (surrogates)
- matrix spike/matrix spike duplicate recoveries (MS/MSD)
- laboratory control spike/laboratory control spike duplicate recoveries (LCS/LCSD)

Following review of the data, some of the results were flagged with qualifiers (Table B-2) because of exceedances in the QC criteria for the parameters listed in the preceding paragraph.

In accordance with EPA Guidance, the flags denote the following datum qualifiers:

- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected because of serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

These issues and associated data are discussed in further detail below.

## Data Completeness

All SDG analytical reports from Curtis & Tompkins were reviewed for completeness. All samples were received by Curtis & Tompkins, under chain-of-custody protocols and analyzed in accordance with the instructions on the chain-of-custody form.

## Holding Time

All samples were prepared and analyzed within the recommended holding times outlined in the EPA Guidance with the exception of one soil and one groundwater sample. Soil sample WRC-05-3.5 was extracted 47 days beyond the recommended extraction holding times of 14 days for OCPs and PCBs in soil using EPA Methods 8081 and 8082. Groundwater sample WRC-01 was extracted 5 days beyond the recommended extraction holding times of 14 days for OCPs and PCBs in water using EPA Methods 8081 and 8082. In accordance with EPA Guidance, OCPs and PCBs results in both these samples were flagged with datum qualifiers. The qualifiers applied to these results and rationale are summarized in Table B-2.

## Blanks

No target compounds were detected above the laboratory reporting limits in the laboratory method blanks or trip blanks, except for the target compounds listed in Table B-3.

In accordance with the EPA Guidance for blank evaluation, no results were flagged with datum qualifiers because concentrations detected in associated field samples were either greater than 10 times the concentrations detected in the blanks for common laboratory contaminants or greater than 5 times the concentration detected in the blanks for non-common laboratory contaminants.

### **Surrogate Spikes**

Surrogate spike evaluation is only applicable for EPA Methods 8260, 8270, 8080, 8081, 8082, and 8015M. The surrogate spike percent recovery (SPR) values that exceeded the laboratory control limits are summarized in Table B-4. Associated sample results flagged with datum qualifiers are summarized in Table B-2. Selected pesticide results in samples A04-11-3.5 and A06-12 were flagged with a datum qualifier "R" because surrogate SPR values were below 10 percent. Selected SVOC results in samples A03-01, A03-02, A05-01, A06-02, A06-03, A06-04, and WRC-06 were flagged with a datum qualifier "R" because surrogate SPR values were below 10 percent. No datum qualifiers were applied to associated sample results when a surrogate was diluted out of the sample because high dilutions were performed by the laboratory to analyze the associated sample.

### **Matrix Spike/Matrix Spike Duplicate Samples**

The MS and MSD SPR values for all EPA method analyses were all within the laboratory control limits except for selected metals, OCPs, VOCs, and SVOCs. The MS/MSD SPR values that exceed the laboratory control limits are summarized in Table B-5. Associated sample results flagged with datum qualifiers are summarized in Table B-2. Antimony results in 37 soil samples were flagged with a datum qualifier "R" because MS and/or MSD SPR values were below 30 percent. No datum qualifiers were applied to associated sample results for OCPs, VOCs, and SVOCs because the associated batch LCS and LCSD SPR values were within the laboratory control limits.

### **Laboratory Control Sample Spikes**

The LCS and LCSD SPR values for all EPA method analyses were within the laboratory control limits except for endrin in QC batch 50104 for EPA Method 8080 for water samples. The LCS and LCSD values of 124 percent and 116 percent exceeded the upper laboratory control limit of 112 percent. The endrin groundwater result in sample A06-02 was flagged with the datum qualifier "J" and is summarized in Table B-2.

### **Summary of QA/QC Evaluation of Data**

Based upon the QA/QC review of the project data, it appears that the data are valid and available for use in site characterization with the exception of the results that have been

flagged with a "R" qualifier; approximately one percent of the data were flagged with a "R" qualifier. All data flagged with datum qualifiers are summarized in Table B-2.

**Table B-1  
Summary of Sample Delivery Groups  
Zeneca, Richmond, California**

Laboratory Name	Sample Delivery Group
Curtis & Tompkins	141090
Curtis & Tompkins	141111
Curtis & Tompkins	141137
Curtis & Tompkins	141161
Curtis & Tompkins	141164
Curtis & Tompkins	141182
Curtis & Tompkins	141183
Curtis & Tompkins	141296
Curtis & Tompkins	141305
Curtis & Tompkins	141345
Curtis & Tompkins	141376
Curtis & Tompkins	141861
Curtis & Tompkins	141862
Curtis & Tompkins	141882
Curtis & Tompkins	141883
Curtis & Tompkins	141911
Curtis & Tompkins	141918
Curtis & Tompkins	141922
Curtis & Tompkins	141945
Curtis & Tompkins	141995
Curtis & Tompkins	141998
Curtis & Tompkins	142012
Curtis & Tompkins	142046
Curtis & Tompkins	142068
Curtis & Tompkins	142071
Curtis & Tompkins	142095
Curtis & Tompkins	142098
Curtis & Tompkins	142119
Curtis & Tompkins	142139
Curtis & Tompkins	142241
Curtis & Tompkins	142293
Curtis & Tompkins	142430
Curtis & Tompkins	142479
Curtis & Tompkins	142485
Curtis & Tompkins	142719
Curtis & Tompkins	142821
Curtis & Tompkins	142972



**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141090	A03-01	Water	EPA 8080	4,4'-DDD	14	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-01	Water	EPA 8270B	1,2,4-Trichlorobenzene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	1,2-Dichlorobenzene	46	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141090	A03-01	Water	EPA 8270B	1,3-Dichlorobenzene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	1,4-Dichlorobenzene	120	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141090	A03-01	Water	EPA 8270B	2,4-Dichlorophenol	15	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-01	Water	EPA 8270B	2,4-Dinitrotoluene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	2,6-Dinitrotoluene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	2-Chloronaphthalene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	2-Methylnaphthalene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	2-Nitroaniline	95	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	3,3'-Dichlorobenzidine	95	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	3-Nitroaniline	95	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	4-Bromophenyl-phenylether	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	4-Chloroaniline	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	4-Chlorophenyl-phenylether	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	4-Nitroaniline	95	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Acenaphthene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Acenaphthylene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Anthracene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Azobenzene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Benzo(a)anthracene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Benzo(a)pyrene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Benzo(b,k)fluoranthene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Benzo(g,h,i)perylene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Benzoic acid	95	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Benzyl alcohol	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	bis(2-Chloroethoxy)methane	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	bis(2-Chloroisopropyl) ether	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	bis(2-Ethylhexyl)phthalate	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Butylbenzylphthalate	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Chrysene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Di-n-butylphthalate	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Di-n-octylphthalate	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Dibenz(a,h)anthracene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Dibenzofuran	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Diethylphthalate	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Dimethylphthalate	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141090	A03-01	Water	EPA 8270B	Fluoranthene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Fluorene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Hexachlorobenzene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Hexachlorobutadiene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Hexachlorocyclopentadiene	95	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Hexachloroethane	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Indeno(1,2,3-cd)pyrene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Isophorone	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	N-Nitroso-di-n-propylamine	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	N-Nitrosodimethylamine	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	N-Nitrosodiphenylamine	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Naphthalene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Nitrobenzene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Phenanthrene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01	Water	EPA 8270B	Phenol	11	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-01	Water	EPA 8270B	Pyrene	19	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-01-4	Soil	EPA 8270B	2-Chlorophenol	300	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-01-7	Soil	EPA 8260A	Hexachlorobutadiene	210	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-01-7	Soil	EPA 8270B	2-Chlorophenol	280	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-02	Water	EPA 8080	4,4'-DDD	13	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-02	Water	EPA 8080	4,4'-DDT	19	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-02	Water	EPA 8080	alpha-BHC	9.4	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-02	Water	EPA 8080	Endosulfan II	12	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-02	Water	EPA 8080	gamma-BHC	6.7	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A03-02	Water	EPA 8270B	1,2,4-Trichlorobenzene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	1,2-Dichlorobenzene	27	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141090	A03-02	Water	EPA 8270B	1,3-Dichlorobenzene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	1,4-Dichlorobenzene	17	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141090	A03-02	Water	EPA 8270B	2,4-Dinitrotoluene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	2,6-Dinitrotoluene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	2-Chloronaphthalene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	2-Methylnaphthalene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	2-Nitroaniline	100	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	3,3'-Dichlorobenzidine	100	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	3-Nitroaniline	100	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	4-Bromophenyl-phenylether	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	4-Chloroaniline	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	4-Chlorophenyl-phenylether	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	4-Nitroaniline	100	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141090	A03-02	Water	EPA 8270B	Acenaphthene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Acenaphthylene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Anthracene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Azobenzene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Benzo(a)anthracene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Benzo(a)pyrene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Benzo(b,k)fluoranthene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Benzo(g,h,i)perylene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Benzo(k)fluoranthene	100	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Benzyl alcohol	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	bis(2-Chloroethoxy)methane	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	bis(2-Chloroethyl)ether	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	bis(2-Chloroisopropyl) ether	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	bis(2-Ethylhexyl)phthalate	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Butylbenzylphthalate	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Chrysene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Di-n-butylphthalate	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Di-n-octylphthalate	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Dibenz(a,h)anthracene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Dibenzofuran	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Diethylphthalate	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Dimethylphthalate	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Fluoranthene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Fluorene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Hexachlorobenzene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Hexachlorobutadiene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Hexachlorocyclopentadiene	100	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Hexachloroethane	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Indeno(1,2,3-cd)pyrene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Isophorone	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	N-Nitroso-di-n-propylamine	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	N-Nitrosodimethylamine	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	N-Nitrosodiphenylamine	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Naphthalene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Nitrobenzene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Phenanthrene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A03-02	Water	EPA 8270B	Pyrene	21	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8080	beta-BHC	0.04	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A06-02	Water	EPA 8080	delta-BHC	0.04	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141090	A06-02	Water	EPA 8080	Endrin	0.08	µg/l	J8	Concentration is estimated due to LCS and/or LCD spike percent recoveries outside of control limits.
141090	A06-02	Water	EPA 8080	gamma-BHC	0.04	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A06-02	Water	EPA 8080	Heptachlor	0.03	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A06-02	Water	EPA 8080	Heptachlor epoxide A	0.04	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A06-02	Water	EPA 8270B	1,2,4-Trichlorobenzene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	1,2-Dichlorobenzene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	1,3-Dichlorobenzene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	1,4-Dichlorobenzene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	2,4-Dinitrotoluene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	2,6-Dinitrotoluene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	2-Chloronaphthalene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	2-Methylnaphthalene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	2-Nitroaniline	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	3,3'-Dichlorobenzidine	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	3-Nitroaniline	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	4-Bromophenyl-phenylether	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	4-Chloroaniline	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	4-Chlorophenyl-phenylether	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	4-Nitroaniline	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Acenaphthene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Acenaphthylene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Anthracene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Azobenzene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Benzo(a)anthracene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Benzo(a)pyrene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Benzo(b,k)fluoranthene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Benzo(g,h,i)perylene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Benzoic acid	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Benzyl alcohol	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	bis(2-Chloroethoxy)methane	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	bis(2-Chloroisopropyl) ether	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	bis(2-Ethylhexyl)phthalate	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Butylbenzylphthalate	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Chrysene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Di-n-butylphthalate	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Di-n-octylphthalate	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Di(benz(a,h)anthracene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Dibenzofuran	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141090	A06-02	Water	EPA 8270B	Diethylphthalate	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Dimethylphthalate	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Fluoranthene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Fluorene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Hexachlorobenzene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Hexachlorobutadiene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Hexachlorocyclopentadiene	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Hexachloroethane	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Indeno(1,2,3-cd)pyrene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Isophthalene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	N-Nitroso-di-n-propylamine	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	N-Nitrosodimethylamine	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	N-Nitrosodiphenylamine	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Naphthalene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Nitrobenzene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Phenanthrene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-02	Water	EPA 8270B	Pyrene	9.6	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	1,2,4-Trichlorobenzene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	1,2-Dichlorobenzene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	1,3-Dichlorobenzene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	1,4-Dichlorobenzene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	2,4-Dinitrotoluene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	2,6-Dinitrotoluene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	2-Chloronaphthalene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	2-Methylnaphthalene	170	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141090	A06-03	Water	EPA 8270B	2-Nitroaniline	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	3,3'-Dichlorobenzidine	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	3,4-Methylphenol	5.4	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141090	A06-03	Water	EPA 8270B	3-Nitroaniline	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	4-Bromophenyl-phenylether	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	4-Chloroaniline	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	4-Chlorophenyl-phenylether	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	4-Nitroaniline	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Acenaphthene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Acenaphthylene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Anthracene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Azobenzene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Benzo(a)anthracene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Benzo(a)pyrene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141090	A06-03	Water	EPA 8270B	Benzo(b,k)fluoranthene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Benzo(g,h,i)perylene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Benzoic acid	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Benzy alcohol	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	bis(2-Chloroethoxy)methane	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	bis(2-Chloroethyl)ether	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	bis(2-Chloroisopropyl) ether	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	bis(2-Ethylhexyl)phthalate	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Butylbenzylphthalate	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Chrysene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Di-n-butylphthalate	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Di-n-octylphthalate	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Dibenz(a,h)anthracene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Dibenzofuran	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Diethylphthalate	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Dimethylphthalate	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Fluoranthene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Fluorene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Hexachlorobenzene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Hexachlorobutadiene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Hexachlorocyclopentadiene	48	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Hexachloroethane	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Indeno(1,2,3-cd)pyrene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Isophorone	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	N-Nitroso-di-n-propylamine	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	N-Nitrosodimethylamine	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	N-Nitrosodiphenylamine	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Naphthalene	70	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141090	A06-03	Water	EPA 8270B	Nitrobenzene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141090	A06-03	Water	EPA 8270B	Phenanthrene	15	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141090	A06-03	Water	EPA 8270B	Pyrene	9.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	1,2,4-Trichlorobenzene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	1,2-Dichlorobenzene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	1,3-Dichlorobenzene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	1,4-Dichlorobenzene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	2,4-Dinitrotoluene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	2,6-Dinitrotoluene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	2-Chloronaphthalene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	2-Methylnaphthalene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141111	A06-04	Water	EPA 8270B	2-Nitroaniline	49	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	3,3'-Dichlorobenzidine	49	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	3-Nitroaniline	49	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	4-Bromophenyl-phenylether	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	4-Chloroaniline	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	4-Chlorophenyl-phenylether	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	4-Nitroaniline	49	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Acenaphthene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Acenaphthylene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Anthracene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Azobenzene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Benzo(a)anthracene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Benzo(a)pyrene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Benzo(b,k)fluoranthene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Benzo(g,h,i)perylene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Benzoic acid	49	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Benzyl alcohol	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	bis(2-Chloroethoxy)methane	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	bis(2-Chloroethyl)ether	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	bis(2-Chloroisopropyl) ether	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	bis(2-Ethylhexyl)phthalate	160	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141111	A06-04	Water	EPA 8270B	Butylbenzylphthalate	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Chrysene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Di-n-butylphthalate	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Di-n-octylphthalate	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Dibenz(a,h)anthracene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Dibenzofuran	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Diethylphthalate	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Dimethylphthalate	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Fluorene	7.2	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141111	A06-04	Water	EPA 8270B	Fluorene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Hexachlorobenzene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Hexachlorobutadiene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Hexachlorocyclopentadiene	49	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Hexachloroethane	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Indeno(1,2,3-cd)pyrene	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	Isophorone	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	N-Nitroso-di-n-propylamine	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141111	A06-04	Water	EPA 8270B	N-Nitrosodimethylamine	9.7	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.







**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141183	A05-01	Water	EPA 8270B	Benzol(g,h,i)perylene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Benzoic acid	61	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Benzyl alcohol	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	bis(2-Chloroethoxy)methane	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	bis(2-Chloroethyl)ether	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	bis(2-Chloroisopropyl) ether	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	bis(2-Ethylhexyl)phthalate	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Butylbenzylphthalate	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Chrysene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Di-n-butylphthalate	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Di-n-octylphthalate	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Dibenz(a,h)anthracene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Dibenzofuran	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Diethylphthalate	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Dimethylphthalate	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Fluoranthene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Fluorene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Hexachlorobenzene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Hexachlorobutadiene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Hexachlorocyclopentadiene	61	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Hexachloroethane	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Indeno(1,2,3-cd)pyrene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Isophorone	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	N-Nitroso-di-n-propylamine	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	N-Nitrosodimethylamine	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	N-Nitrosodiphenylamine	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Naphthalene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Nitrobenzene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Pentachlorophenol	61	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Phenanthrene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Phenol	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141183	A05-01	Water	EPA 8270B	Pyrene	12	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141296	A05-04-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	U19	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-04-1.5	Soil	EPA 6010B	Barium	120	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-04-1.5	Soil	EPA 6010B	Lead	1300	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-04-1.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	U19	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-04-1.5	Soil	EPA 6010B	Zinc	250	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-04-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	U19	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-04-3.5	Soil	EPA 6010B	Barium	55	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141296	A05-04-3.5	Soil	EPA 6010B	Lead	4.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-04-3.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-04-3.5	Soil	EPA 6010B	Zinc	22	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-1.5	Soil	EPA 6010B	Barium	140	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-1.5	Soil	EPA 6010B	Lead	18	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-1.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-1.5	Soil	EPA 6010B	Zinc	52	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-3.5	Soil	EPA 6010B	Barium	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-3.5	Soil	EPA 6010B	Lead	3.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-3.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-05-3.5	Soil	EPA 6010B	Zinc	56	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-1.5	Soil	EPA 6010B	Barium	65	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-1.5	Soil	EPA 6010B	Lead	44	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-1.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-1.5	Soil	EPA 6010B	Zinc	55	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-3.5	Soil	EPA 6010B	Barium	52	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-3.5	Soil	EPA 6010B	Lead	140	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-3.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-3.5	Soil	EPA 6010B	Zinc	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-06-3.5	Soil	EPA 8260A	Carbon Disulfide	3.3	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141296	A05-07-1.5	Soil	EPA 6010B	Antimony	7.4	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-1.5	Soil	EPA 6010B	Barium	220	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-1.5	Soil	EPA 6010B	Lead	2000	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-1.5	Soil	EPA 6010B	Selenium	11	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-1.5	Soil	EPA 6010B	Zinc	49	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-1.5	Soil	EPA 8270B	Benzo(a)pyrene	6000	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141296	A05-07-1.5	Soil	EPA 8270B	Benzo(g,h,i)perylene	5000	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141296	A05-07-1.5	Soil	EPA 8270B	Indeno(1,2,3-cd)pyrene	5000	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141296	A05-07-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-3.5	Soil	EPA 6010B	Barium	86	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-3.5	Soil	EPA 6010B	Lead	35	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-3.5	Soil	EPA 6010B	Selenium	1.8	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-3.5	Soil	EPA 6010B	Zinc	9.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-07-3.5	Soil	EPA 8260A	Chlorobenzene	3.8	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141296	A05-08-1.5	Soil	EPA 6010B	Antimony	17	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141296	A05-08-1.5	Soil	EPA 6010B	Barium	120	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-08-1.5	Soil	EPA 6010B	Lead	160	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-08-1.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-08-1.5	Soil	EPA 6010B	Zinc	110	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-08-3.5	Soil	EPA 6010B	Antimony	.3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-08-3.5	Soil	EPA 6010B	Barium	71	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-08-3.5	Soil	EPA 6010B	Lead	140	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-08-3.5	Soil	EPA 6010B	Selenium	0.33	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A05-08-3.5	Soil	EPA 6010B	Zinc	50	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-1.5	Soil	EPA 6010B	Barium	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-1.5	Soil	EPA 6010B	Lead	4.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-1.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-1.5	Soil	EPA 6010B	Zinc	85	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-3.5	Soil	EPA 6010B	Barium	47	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-3.5	Soil	EPA 6010B	Lead	4.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-3.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-07-3.5	Soil	EPA 6010B	Zinc	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-08-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-08-1.5	Soil	EPA 6010B	Barium	42	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-08-1.5	Soil	EPA 6010B	Lead	16	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-08-1.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-08-1.5	Soil	EPA 6010B	Zinc	9.6	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-09-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-09-1.5	Soil	EPA 6010B	Barium	74	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-09-1.5	Soil	EPA 6010B	Lead	27	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-09-1.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-09-1.5	Soil	EPA 6010B	Zinc	120	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-1.5	Soil	EPA 6010B	Barium	84	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-1.5	Soil	EPA 6010B	Lead	14	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-1.5	Soil	EPA 6010B	Selenium	0.87	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-1.5	Soil	EPA 6010B	Zinc	21	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-1.5	Soil	EPA 8260A	m,p-Xylenes	4.3	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141296	A06-10-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-3.5	Soil	EPA 6010B	Barium	110	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-3.5	Soil	EPA 6010B	Lead	20	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-3.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141296	A06-10-3.5	Soil	EPA 6010B	Zinc	70	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-10-3.5	Soil	EPA 8260A	Carbon Disulfide	3	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141296	A06-14-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-1.5	Soil	EPA 6010B	Barium	74	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-1.5	Soil	EPA 6010B	Lead	17	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-1.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-1.5	Soil	EPA 6010B	Zinc	14	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-1.5	Soil	EPA 8260A	1,3,5-Trimethylbenzene	2.5	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141296	A06-14-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-3.5	Soil	EPA 6010B	Barium	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-3.5	Soil	EPA 6010B	Lead	3.8	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-3.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-14-3.5	Soil	EPA 6010B	Zinc	360	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-1.5	Soil	EPA 6010B	Antimony	3.4	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-1.5	Soil	EPA 6010B	Barium	200	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-1.5	Soil	EPA 6010B	Lead	96	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-1.5	Soil	EPA 6010B	Selenium	4.6	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-1.5	Soil	EPA 6010B	Zinc	84	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-3.5	Soil	EPA 6010B	Barium	170	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-3.5	Soil	EPA 6010B	Lead	21	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-3.5	Soil	EPA 6010B	Selenium	1.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141296	A06-15-3.5	Soil	EPA 6010B	Zinc	160	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-04-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-04-1.5	Soil	EPA 6010B	Chromium	17	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-04-1.5	Soil	EPA 8260A	Chloroform	4.8	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-04-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-04-3.5	Soil	EPA 6010B	Chromium	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-04-3.5	Soil	EPA 8080	4,4'-DDE	27	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-04-3.5	Soil	EPA 8260A	1,2-Dichloroethane	3.1	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-04-6.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-04-6.5	Soil	EPA 6010B	Chromium	37	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-04-6.5	Soil	EPA 8260A	Chlorobenzene	4.2	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-05-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-05-1.5	Soil	EPA 6010B	Chromium	28	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-05-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-05-3.5	Soil	EPA 6010B	Chromium	28	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-05-3.5	Soil	EPA 8260A	Chloroform	4.2	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-05-6.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141305	A01-05-6.5	Soil	EPA 6010B	Chromium	37	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-05-6.5	Soil	EPA 8260A	Chloroform	3.6	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-06-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-06-1.5	Soil	EPA 6010B	Chromium	29	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-06-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-06-3.5	Soil	EPA 6010B	Chromium	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-06-3.5	Soil	EPA 8260A	cis-1,2-Dichloroethene	3.9	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-06-6.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-06-6.5	Soil	EPA 6010B	Chromium	29	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-06-6.5	Soil	EPA 8260A	Chloroform	4.1	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-07-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-07-1.5	Soil	EPA 6010B	Chromium	34	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-07-1.5	Soil	EPA 8080	4,4'-DDE	23	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-07-1.5	Soil	EPA 8080	4,4'-DDT	49	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A01-07-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-07-3.5	Soil	EPA 6010B	Chromium	25	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-07-6.5	Soil	EPA 6010B	Antimony	2.8	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A01-07-6.5	Soil	EPA 6010B	Chromium	31	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-04-1.5	Soil	EPA 6010B	Antimony	2.8	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-04-1.5	Soil	EPA 6010B	Chromium	28	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-04-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-04-3.5	Soil	EPA 6010B	Chromium	24	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-06-1.5	Soil	EPA 6010B	Antimony	2.8	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-06-1.5	Soil	EPA 6010B	Chromium	29	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-06-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-06-3.5	Soil	EPA 6010B	Chromium	39	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A02-06-3.5	Soil	EPA 8260A	1,4-Dichlorobenzene	4.3	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-11	Water	EPA 6010B	Silver	5	µg/l	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-11-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-11-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-12	Water	EPA 6010B	Silver	5	ug/L	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-12	Water	EPA 8080	4,4'-DDD	0.1	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	4,4'-DDE	0.1	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	4,4'-DDT	0.1	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Aldrin	0.05	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	alpha-BHC	0.05	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Aroclor-1016	0.5	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Aroclor-1221	1	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Aroclor-1232	0.5	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141305	A06-12	Water	EPA 8080	Aroclor-1242	0.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Aroclor-1248	0.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Aroclor-1254	0.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Aroclor-1260	0.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	beta-BHC	0.05	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Chlordane	0.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	dieldrin-BHC	0.05	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Dieldrin	0.1	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Endosulfan I	0.05	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Endosulfan II	0.1	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Endosulfan sulfate	0.1	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Endrin	0.1	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Endrin aldehyde	0.1	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	gamma-BHC	0.05	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Heptachlor	0.05	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Heptachlor epoxide A	0.05	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Heptachlor epoxide B	0.05	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Methoxychlor	0.5	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12	Water	EPA 8080	Toxaphene	1	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141305	A06-12-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-12-1.5	Soil	EPA 6010B	Chromium	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-12-1.5	Soil	EPA 8080	Dieldrin	58	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-12-1.5	Soil	EPA 8080	Endosulfan II	44	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-12-1.5	Soil	EPA 8080	Endrin aldehyde	47	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-12-1.5	Soil	EPA 8260A	1,2-Dichlorobenzene	2.5	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-12-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-12-3.5	Soil	EPA 6010B	Chromium	19	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-12-3.5	Soil	EPA 8080	4,4'-DDE	35	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-13-1.5	Soil	EPA 6010B	Antimony	4.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-13-1.5	Soil	EPA 6010B	Chromium	37	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-13-1.5	Soil	EPA 8270B	Benzo(a)anthracene	840	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-13-1.5	Soil	EPA 8270B	Benzo(a)pyrene	910	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-13-1.5	Soil	EPA 8270B	Benzo(b,k)fluoranthene	1600	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-13-1.5	Soil	EPA 8270B	Chrysene	1300	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-13-3.5	Soil	EPA 6010B	Antimony	5.9	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-13-3.5	Soil	EPA 6010B	Chromium	33	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-13-3.5	Soil	EPA 8080	4,4'-DDE	1000	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-13-3.5	Soil	EPA 8270B	Pyrene	5100	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141305	A06-16-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141305	A06-16-1.5	Soil	EPA 8080	4,4'-DDE	3.9	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-16-1.5	Soil	EPA 8080	Endrin	3.2	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-16-1.5	Soil	EPA 8260A	m,p-Xylenes	4.4	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-16-1.5	Soil	EPA 8270B	Pyrene	190	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-16-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-18-3.5	Soil	EPA 6010B	Antimony	3.8	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141305	A06-18-3.5	Soil	EPA 8080	4,4'-DDD	46	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-18-3.5	Soil	EPA 8080	4,4'-DDE	36	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-18-3.5	Soil	EPA 8270B	Benzo(b,k)fluoranthene	460	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-18-3.5	Soil	EPA 8270B	Chrysene	390	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-18-3.5	Soil	EPA 8270B	Fluoranthene	440	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-18-3.5	Soil	EPA 8270B	Phenanthrene	380	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141305	A06-18-3.5	Soil	EPA 8270B	Pyrene	390	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-05-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A02-05-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A02-07-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A02-07-1.5	Soil	EPA 8080	gamma-BHC	1.5	mg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-07-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A02-08-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A02-08-1.5	Soil	EPA 8080	Endosulfan I	1.7	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-08-1.5	Soil	EPA 8080	Endosulfan II	3.2	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-08-1.5	Soil	EPA 8080	Endrin aldehyde	3.8	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-08-1.5	Soil	EPA 8260A	1,2-Dichlorobenzene	2.7	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-08-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A02-08-3.5	Soil	EPA 8080	4,4'-DDD	5	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-08-3.5	Soil	EPA 8080	4,4'-DDE	3.8	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-09-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A02-09-1.5	Soil	EPA 8080	4,4'-DDT	5.8	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A02-09-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-04-1.5	Soil	EPA 6010B	Antimony	3.7	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-04-1.5	Soil	EPA 8270B	Benzo(g,h,i)perylene	310	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-04-1.5	Soil	EPA 8270B	Indeno(1,2,3-cd)pyrene	270	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-04-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-05-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-05-1.5	Soil	EPA 8260A	Carbon Tetrachloride	3.1	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-05-1.5	Soil	EPA 8260A	Naphthalene	4.6	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-05-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detect value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-05-3.5	Soil	EPA 8260A	Tetrachloroethene	65	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-05-3.5	Soil	EPA 8270B	Benzo(a)anthracene	1400	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit



**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141345	A04-05-3.5	Soil	EPA 8270B	Benzo(a)pyrene	1200	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-06-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-06-6.5	Soil	EPA 6010B	Antimony	2.8	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-06-6.5	Soil	EPA 8260A	1,4-Dichlorobenzene	100	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-06-6.5	Soil	EPA 8270B	2-Chlorophenol	260	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-06-6.5	Soil	EPA 8270B	Naphthalene	210	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-07-1.0	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-07-1.0	Soil	EPA 8080	4,4'-DDD	57	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-07-1.0	Soil	EPA 8080	4,4'-DDT	47	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-07-3.0	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-08-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-08-1.5	Soil	EPA 8080	4,4'-DDD	99	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-08-1.5	Soil	EPA 8270B	Benzo(a)anthracene	320	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-08-1.5	Soil	EPA 8270B	Benzo(a)pyrene	260	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-08-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-08-3.5	Soil	EPA 8080	4,4'-DDT	4.7	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141345	A04-09-1.5	Soil	EPA 8260A	Tetrachloroethene	3.6	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-1.5	Soil	EPA 8270B	Benzo(a)anthracene	220	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-1.5	Soil	EPA 8270B	Benzo(a)pyrene	190	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-1.5	Soil	EPA 8270B	Benzo(b,k)fluoranthene	290	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-1.5	Soil	EPA 8270B	Chrysene	280	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-1.5	Soil	EPA 8270B	Phenanthrene	290	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-3.5	Soil	EPA 6010B	Antimony	6.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-09-3.5	Soil	EPA 6010B	Barium	430	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-09-3.5	Soil	EPA 6010B	Cadmium	2.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-09-3.5	Soil	EPA 6010B	Molybdenum	1.7	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-09-3.5	Soil	EPA 6010B	Nickel	9	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-09-3.5	Soil	EPA 6010B	Selenium	500	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-09-3.5	Soil	EPA 6010B	Silver	8.7	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-09-3.5	Soil	EPA 8260A	m,p-Xylenes	2.8	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-3.5	Soil	EPA 8260A	Trichloroethene	4.1	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-3.5	Soil	EPA 8270B	Benzo(b,k)fluoranthene	2300	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-3.5	Soil	EPA 8270B	Chrysene	1900	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-09-3.5	Soil	EPA 8270B	Pyrene	1900	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A04-10-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-1.5	Soil	EPA 6010B	Barium	160	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-1.5	Soil	EPA 6010B	Cadmium	0.68	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-1.5	Soil	EPA 6010B	Molybdenum	29	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.



**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141345	A04-10-1.5	Soil	EPA 6010B	Nickel	21	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-1.5	Soil	EPA 6010B	Selenium	0.87	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-1.5	Soil	EPA 6010B	Silver	1.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-3.5	Soil	EPA 6010B	Barium	67	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-3.5	Soil	EPA 6010B	Cadmium	0.39	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-3.5	Soil	EPA 6010B	Molybdenum	1	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-3.5	Soil	EPA 6010B	Nickel	24	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-3.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-3.5	Soil	EPA 6010B	Silver	0.5	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A04-10-3.5	Soil	EPA 8260A	Chlorobenzene	400	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141345	A06-13	Water	EPA 6010B	Silver	5	µg/l	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	4,4'-DDD	0.1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	4,4'-DDE	0.1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	4,4'-DDT	0.1	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Aldrin	0.05	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	alpha-BHC	0.08	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Aroclor-1016	0.5	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Aroclor-1221	1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Aroclor-1232	0.5	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Aroclor-1242	0.5	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Aroclor-1248	0.5	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Aroclor-1254	0.5	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Aroclor-1260	0.5	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	beta-BHC	0.05	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Chlordane	0.5	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	delta-BHC	0.04	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Dieldrin	0.1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Endosulfan I	0.05	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Endosulfan II	0.1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Endosulfan sulfate	0.1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Endrin	0.1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Endrin aldehyde	0.1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	gamma-BHC	0.05	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Heptachlor	0.05	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Heptachlor epoxide A	0.05	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Heptachlor epoxide B	0.05	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Metoxychlor	0.5	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141345	A06-13	Water	EPA 8080	Toxaphene	1	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141345	A06-17-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-1.5	Soil	EPA 6010B	Barium	79	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-1.5	Soil	EPA 6010B	Cadmium	6.7	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-1.5	Soil	EPA 6010B	Molybdenum	0.97	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-1.5	Soil	EPA 6010B	Nickel	57	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-1.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-1.5	Soil	EPA 6010B	Silver	0.49	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-1.5	Soil	EPA 8270B	Phenol	200	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141345	A06-17-4.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-4.5	Soil	EPA 6010B	Barium	68	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-4.5	Soil	EPA 6010B	Cadmium	1.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-4.5	Soil	EPA 6010B	Molybdenum	1	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-4.5	Soil	EPA 6010B	Nickel	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-4.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-4.5	Soil	EPA 6010B	Silver	0.5	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141345	A06-17-4.5	Soil	EPA 8270B	Phenol	180	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-03-2.5	Soil	EPA 6010B	Antimony	2.8	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 6010B	Barium	270	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 6010B	Cadmium	1.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 6010B	Molybdenum	2.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 6010B	Nickel	25	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 6010B	Selenium	0.24	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 6010B	Silver	2.9	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	4,4'-DDD	30	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	4,4'-DDE	18	µg/kg	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	4,4'-DDT	210	µg/kg	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Aldrin	15	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	alpha-BHC	15	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Aroclor-1016	60	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Aroclor-1221	120	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Aroclor-1232	60	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Aroclor-1242	60	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Aroclor-1248	60	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Aroclor-1254	60	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Aroclor-1260	60	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	beta-BHC	15	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Chlordane	150	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	delta-BHC	15	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Dieldrin	30	µg/kg	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141376	A03-03-2.5	Soil	EPA 8080	Endosulfan I	15	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Endosulfan II	30	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Endosulfan sulfate	30	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Endrin	30	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Endrin aldehyde	30	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	gamma-BHC	15	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Heptachlor	15	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Heptachlor epoxide A	15	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Heptachlor epoxide B	15	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Methoxychlor	150	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8080	Toxaphene	300	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-03-2.5	Soil	EPA 8260A	Tetrachloroethene	2.7	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-03-4.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-4.5	Soil	EPA 6010B	Barium	320	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-4.5	Soil	EPA 6010B	Cadmium	0.53	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-4.5	Soil	EPA 6010B	Molybdenum	2.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-4.5	Soil	EPA 6010B	Nickel	23	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-4.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-4.5	Soil	EPA 6010B	Silver	1.8	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-4.5	Soil	EPA 8080	4,4'-DDD	58	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-03-4.5	Soil	EPA 8080	4,4'-DDE	31	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-03-7	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-7	Soil	EPA 6010B	Barium	120	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-7	Soil	EPA 6010B	Cadmium	0.4	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-7	Soil	EPA 6010B	Molybdenum	3.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-7	Soil	EPA 6010B	Nickel	12	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-7	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-7	Soil	EPA 6010B	Silver	1.6	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-03-7	Soil	EPA 8080	4,4'-DDE	5.9	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-03-7	Soil	EPA 8270B	2-Chlorophenol	220	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-04-2.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-2.5	Soil	EPA 6010B	Barium	150	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-2.5	Soil	EPA 6010B	Cadmium	0.36	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-2.5	Soil	EPA 6010B	Molybdenum	3.6	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-2.5	Soil	EPA 6010B	Nickel	19	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-2.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-2.5	Soil	EPA 6010B	Silver	2.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-2.5	Soil	EPA 8080	Dieldrin	5	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-04-2.5	Soil	EPA 8080	gamma-BHC	2	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141376	A03-04-4.5	Soil	EPA 6010B	Antimony	3.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-4.5	Soil	EPA 6010B	Barium	310	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-4.5	Soil	EPA 6010B	Cadmium	0.76	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-4.5	Soil	EPA 6010B	Molybdenum	4.8	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-4.5	Soil	EPA 6010B	Nickel	10	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-4.5	Soil	EPA 6010B	Selenium	0.47	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-4.5	Soil	EPA 6010B	Silver	4.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-4.5	Soil	EPA 8080	gamma-BHC	2	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-04-7	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 6010B	Barium	200	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 6010B	Cadmium	1.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 6010B	Molybdenum	1.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 6010B	Nickel	18	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 6010B	Silver	1.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 8080	4,4'-DDD	64	µg/kg	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 8080	4,4'-DDT	24	µg/kg	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 8080	alpha-BHC	21	µg/kg	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 8080	gamma-BHC	6.2	µg/kg	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141376	A03-04-7	Soil	EPA 8260A	Tetrachloroethene	2100	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-05-2.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-2.5	Soil	EPA 6010B	Barium	74	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-2.5	Soil	EPA 6010B	Cadmium	2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-2.5	Soil	EPA 6010B	Molybdenum	1.4	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-2.5	Soil	EPA 6010B	Nickel	26	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-2.5	Soil	EPA 6010B	Selenium	0.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-2.5	Soil	EPA 6010B	Silver	1.4	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-2.5	Soil	EPA 8080	4,4'-DDT	9200	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-05-2.5	Soil	EPA 8260A	Benzene	4	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-05-2.5	Soil	EPA 8260A	Toluene	2.9	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-05-4.5	Soil	EPA 6010B	Antimony	3.9	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-4.5	Soil	EPA 6010B	Barium	150	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-4.5	Soil	EPA 6010B	Cadmium	10	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-4.5	Soil	EPA 6010B	Molybdenum	8.9	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-4.5	Soil	EPA 6010B	Nickel	26	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-4.5	Soil	EPA 6010B	Selenium	2.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-4.5	Soil	EPA 6010B	Silver	5.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-4.5	Soil	EPA 8260A	Tetrachloroethene	220	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-05-7	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141376	A03-05-7	Soil	EPA 6010B	Barium	170	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-7	Soil	EPA 6010B	Cadmium	0.69	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-7	Soil	EPA 6010B	Molybdenum	1	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-7	Soil	EPA 6010B	Nickel	11	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-7	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-7	Soil	EPA 6010B	Silver	0.5	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-05-7	Soil	EPA 8270B	1,2-Dichlorobenzene	180	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-2.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-2.5	Soil	EPA 6010B	Barium	110	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-2.5	Soil	EPA 6010B	Cadmium	0.43	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-2.5	Soil	EPA 6010B	Molybdenum	5.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-2.5	Soil	EPA 6010B	Nickel	25	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-2.5	Soil	EPA 6010B	Selenium	2.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-2.5	Soil	EPA 6010B	Silver	3.7	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-2.5	Soil	EPA 8270B	Benzo(b,k)fluoranthene	180	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-2.5	Soil	EPA 8270B	Chrysene	190	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-2.5	Soil	EPA 8270B	Fluoranthene	170	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-2.5	Soil	EPA 8270B	Pyrene	230	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-4.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-4.5	Soil	EPA 6010B	Barium	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-4.5	Soil	EPA 6010B	Cadmium	2.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-4.5	Soil	EPA 6010B	Molybdenum	1.4	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-4.5	Soil	EPA 6010B	Nickel	72	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-4.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-4.5	Soil	EPA 6010B	Silver	1.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-4.5	Soil	EPA 8080	4,4'-DDT	12	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-4.5	Soil	EPA 8260A	Chlorobenzene	3.2	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-7	Soil	EPA 6010B	Antimony	4.4	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-7	Soil	EPA 6010B	Barium	86	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-7	Soil	EPA 6010B	Cadmium	7.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-7	Soil	EPA 6010B	Molybdenum	11	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-7	Soil	EPA 6010B	Nickel	36	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-7	Soil	EPA 6010B	Selenium	1.8	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-7	Soil	EPA 6010B	Silver	6.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A03-06-7	Soil	EPA 8080	alpha-BHC	2.5	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-7	Soil	EPA 8260A	1,2-Dichlorobenzene	3.4	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A03-06-7	Soil	EPA 8260A	Carbon Disulfide	2.9	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A04-11-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-1.5	Soil	EPA 6010B	Barium	120	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141376	A04-11-1.5	Soil	EPA 6010B	Cadmium	2.1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-1.5	Soil	EPA 6010B	Molybdenum	0.99	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-1.5	Soil	EPA 6010B	Nickel	22	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-1.5	Soil	EPA 6010B	Selenium	5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-1.5	Soil	EPA 6010B	Silver	0.93	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-1.5	Soil	EPA 8270B	Anthracene	380	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A04-11-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect. value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-3.5	Soil	EPA 6010B	Barium	330	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-3.5	Soil	EPA 6010B	Cadmium	0.91	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-3.5	Soil	EPA 6010B	Molybdenum	4.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-3.5	Soil	EPA 6010B	Nickel	23	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-3.5	Soil	EPA 6010B	Selenium	77	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-3.5	Soil	EPA 6010B	Silver	8.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-3.5	Soil	EPA 8080	4,4'-DDD	6	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	4,4'-DDE	3.7	µg/kg	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141376	A04-11-3.5	Soil	EPA 8080	4,4'-DDT	6	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Aldrin	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	alpha-BHC	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	rochlor-1016	12	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	rochlor-1221	24	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	rochlor-1232	12	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	rochlor-1242	12	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	rochlor-1248	12	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	rochlor-1254	12	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	rochlor-1260	12	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	beta-BHC	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Chlordane	30	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	delta-BHC	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Dieldrin	6	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Endosulfan I	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Endosulfan II	6	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Endosulfan sulfate	6	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Endrin	6	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Endrin aldehyde	6	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	gamma-BHC	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Heptachlor	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Heptachlor epoxide A	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Heptachlor epoxide B	3	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8080	Methoxychlor	30	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141376	A04-11-3.5	Soil	EPA 8080	Toxaphene	60	µg/kg	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141376	A04-11-3.5	Soil	EPA 8270B	Phenanthrene	170	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141376	A04-11-6.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-6.5	Soil	EPA 6010B	Barium	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-6.5	Soil	EPA 6010B	Cadmium	0.38	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-6.5	Soil	EPA 6010B	Molybdenum	0.99	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-6.5	Soil	EPA 6010B	Nickel	28	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-6.5	Soil	EPA 6010B	Selenium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141376	A04-11-6.5	Soil	EPA 6010B	Silver	0.5	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	4,4'-DDD	0.20	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	4,4'-DDE	0.11	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	4,4'-DDT	0.29	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Aldrin	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Alpha-BHC	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Beta-BHC	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Chlordane	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Delta-BHC	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Dieldrin	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Endosulfan I	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Endosulfan II	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Endosulfan Sulfate	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Endrin	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Endrin Aldehyde	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Gamma-BHC	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Heptachlor	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Heptachlor Epoxide	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Methoxychlor	0.10	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8081A	Toxaphene	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8082	Aroclor-1016	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8082	Aroclor-1221	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8082	Aroclor-1232	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8082	Aroclor-1242	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8082	Aroclor-1248	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8082	Aroclor-1254	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8082	Aroclor-1260	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141861	WRC-08	Water	EPA 8082	Aroclor-1262	1.0	µg/l	UJ3	Non-detect value is estimated due to surrogate percent recoveries outside of control limits.
141862	WRC-01-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-1.5	Soil	EPA 6010B	Barium	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-1.5	Soil	EPA 6010B	Chromium	7.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141862	WRC-01-1.5	Soil	EPA 6010B	Copper	6.7	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-1.5	Soil	EPA 6010B	Nickel	9.8	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-1.5	Soil	EPA 6010B	Zinc	22	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-3.5	Soil	EPA 6010B	Barium	110	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-3.5	Soil	EPA 6010B	Chromium	34	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-3.5	Soil	EPA 6010B	Copper	10	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-3.5	Soil	EPA 6010B	Nickel	24	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-01-3.5	Soil	EPA 6010B	Zinc	14	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-1.5	Soil	EPA 6010B	Barium	130	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-1.5	Soil	EPA 6010B	Chromium	66	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-1.5	Soil	EPA 6010B	Copper	39	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-1.5	Soil	EPA 6010B	Nickel	130	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-1.5	Soil	EPA 6010B	Zinc	78	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-1.5	Soil	EPA 8270B	2-Methylphenol	530	ug/Kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141862	WRC-02-3.5	Soil	EPA 6010B	Antimony	2.8	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-3.5	Soil	EPA 6010B	Barium	97	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-3.5	Soil	EPA 6010B	Chromium	53	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-3.5	Soil	EPA 6010B	Copper	27	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-3.5	Soil	EPA 6010B	Nickel	55	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-02-3.5	Soil	EPA 6010B	Zinc	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-1.5	Soil	EPA 6010B	Barium	160	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-1.5	Soil	EPA 6010B	Chromium	8.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-1.5	Soil	EPA 6010B	Copper	61	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-1.5	Soil	EPA 6010B	Nickel	17	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-1.5	Soil	EPA 6010B	Zinc	47	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-1.5	Soil	EPA 8270B	2-Methylnaphthalene	1900	ug/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141862	WRC-03-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-3.5	Soil	EPA 6010B	Barium	210	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-3.5	Soil	EPA 6010B	Chromium	35	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-3.5	Soil	EPA 6010B	Copper	38	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-3.5	Soil	EPA 6010B	Nickel	9.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-03-3.5	Soil	EPA 6010B	Zinc	20	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-1.5	Soil	EPA 6010B	Antimony	5.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-1.5	Soil	EPA 6010B	Barium	340	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-1.5	Soil	EPA 6010B	Chromium	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-1.5	Soil	EPA 6010B	Copper	7000	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.



**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141862	WRC-05-1.5	Soil	EPA 6010B	Nickel	130	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-1.5	Soil	EPA 6010B	Zinc	300	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-3.5	Soil	EPA 6010B	Barium	160	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-3.5	Soil	EPA 6010B	Chromium	36	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-3.5	Soil	EPA 6010B	Copper	71	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-3.5	Soil	EPA 6010B	Nickel	19	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-05-3.5	Soil	EPA 6010B	Zinc	40	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-1.5	Soil	EPA 6010B	Barium	110	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-1.5	Soil	EPA 6010B	Chromium	14	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-1.5	Soil	EPA 6010B	Copper	26	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-1.5	Soil	EPA 6010B	Nickel	23	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-1.5	Soil	EPA 6010B	Zinc	47	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-3.5	Soil	EPA 6010B	Barium	170	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-3.5	Soil	EPA 6010B	Chromium	29	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-3.5	Soil	EPA 6010B	Copper	13	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-3.5	Soil	EPA 6010B	Nickel	19	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-07-3.5	Soil	EPA 6010B	Zinc	16	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-1.5	Soil	EPA 6010B	Antimony	2.1	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-1.5	Soil	EPA 6010B	Barium	100	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-1.5	Soil	EPA 6010B	Chromium	160	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-1.5	Soil	EPA 6010B	Copper	120	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-1.5	Soil	EPA 6010B	Nickel	160	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-1.5	Soil	EPA 6010B	Zinc	110	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-3.5	Soil	EPA 6010B	Barium	350	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-3.5	Soil	EPA 6010B	Chromium	51	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-3.5	Soil	EPA 6010B	Copper	340	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-3.5	Soil	EPA 6010B	Nickel	41	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141862	WRC-08-3.5	Soil	EPA 6010B	Zinc	110	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141882	WRC-06	Water	EPA 8270B	1,2,4-Trichlorobenzene	110	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	1,2-Dichlorobenzene	120	µg/l	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-06	Water	EPA 8270B	1,3-Dichlorobenzene	110	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	1,4-Dichlorobenzene	110	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2,4,5-Trichlorophenol	110	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2,4,6-Trichlorophenol	110	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2,4-Dichlorophenol	110	µg/l	UR3	Non-detect value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141882	WRC-06	Water	EPA 8270B	2,4-Dimethylphenol	710	µg/l	I3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-06	Water	EPA 8270B	2,4-Dinitrophenol	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2,4-Dinitrotoluene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2,6-Dinitrotoluene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2-Chloronaphthalene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2-Chlorophenol	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2-Methylnaphthalene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2-Methylphenol	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2-Nitroaniline	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	2-Nitrophenol	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	3,3'-Dichlorobenzidine	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	3,4-Methylphenol	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	3-Nitroaniline	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	4,6-Dinitro-2-methylphenol	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	4-Bromophenyl-phenylether	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	4-Chloro-3-methylphenol	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	4-Chloroaniline	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	4-Chlorophenyl-phenylether	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	4-Nitroaniline	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	4-Nitrophenol	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Acenaphthene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Acenaphthylene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Anthracene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Azobenzene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Benzo(a)anthracene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Benzo(a)pyrene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Benzo(b,k)fluoranthene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Benzo(g,h,i)perylene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Benzoic acid	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Benzyl alcohol	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	bis(2-Chloroethoxy)methane	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	bis(2-Chloroethyl)ether	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	bis(2-Chloroisopropyl) ether	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	bis(2-Ethylhexyl)phthalate	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Butylbenzylphthalate	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Chrysene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Di-n-butylphthalate	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Di-n-octylphthalate	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Di-benz(a,h)anthracene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141882	WRC-06	Water	EPA 8270B	Dibenzofuran	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Diethylphthalate	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Dimethylphthalate	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Fluoranthene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Fluorene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Hexachlorobenzene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Hexachlorobutadiene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Hexachlorocyclopentadiene	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Hexachloroethane	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Indeno(1,2,3-cd)pyrene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Isophorone	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	N-Nitroso-di-n-propylamine	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	N-Nitrosodimethylamine	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	N-Nitrosodiphenylamine	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Naphthalene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Nitrobenzene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Pentachlorophenol	540	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Phenanthrene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Phenol	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-06	Water	EPA 8270B	Pyrene	110	µg/l	UR3	Non-detected value is rejected due to serious deficiencies in the ability to meet surrogate percent recovery control limits.
141882	WRC-21	Water	EPA 8082	Aroclor-1016	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-21	Water	EPA 8082	Aroclor-1221	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-21	Water	EPA 8082	Aroclor-1232	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-21	Water	EPA 8082	Aroclor-1242	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-21	Water	EPA 8082	Aroclor-1248	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-21	Water	EPA 8082	Aroclor-1254	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-21	Water	EPA 8082	Aroclor-1260	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141882	WRC-21	Water	EPA 8082	Aroclor-1262	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141883	WRC-04-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit.
141883	WRC-04-1.5	Soil	EPA 6010B	Cadmium	1	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-04-1.5	Soil	EPA 6010B	Chromium	34	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-04-1.5	Soil	EPA 6010B	Lead	33	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-04-1.5	Soil	EPA 6010B	Nickel	41	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-04-1.5	Soil	EPA 8270B	Phenol	320	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit.
141883	WRC-04-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit.
141883	WRC-04-3.5	Soil	EPA 6010B	Cadmium	0.27	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-04-3.5	Soil	EPA 6010B	Chromium	24	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-04-3.5	Soil	EPA 6010B	Lead	5.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-04-3.5	Soil	EPA 6010B	Nickel	18	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141883	WRC-06-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recoveries outside of control limits.
141883	WRC-06-1.5	Soil	EPA 6010B	Chromium	3.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-06-1.5	Soil	EPA 6010B	Chromium	26	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-06-1.5	Soil	EPA 6010B	Lead	23	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-06-1.5	Soil	EPA 6010B	Nickel	32	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-06-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141883	WRC-06-3.5	Soil	EPA 6010B	Cadmium	1.9	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-06-3.5	Soil	EPA 6010B	Chromium	26	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-06-3.5	Soil	EPA 6010B	Lead	37	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-06-3.5	Soil	EPA 6010B	Nickel	31	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-17-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141883	WRC-17-1.5	Soil	EPA 6010B	Cadmium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-17-1.5	Soil	EPA 6010B	Chromium	7	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-17-1.5	Soil	EPA 6010B	Lead	5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-17-1.5	Soil	EPA 6010B	Nickel	11	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-17-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141883	WRC-17-3.5	Soil	EPA 6010B	Cadmium	0.25	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-17-3.5	Soil	EPA 6010B	Chromium	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-17-3.5	Soil	EPA 6010B	Lead	5.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-17-3.5	Soil	EPA 6010B	Nickel	25	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-19-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141883	WRC-19-3.5	Soil	EPA 6010B	Cadmium	0.24	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-19-3.5	Soil	EPA 6010B	Chromium	27	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-19-3.5	Soil	EPA 6010B	Lead	4.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-19-3.5	Soil	EPA 6010B	Nickel	31	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-1.5	Soil	EPA 6010B	Antimony	18	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-1.5	Soil	EPA 6010B	Cadmium	17	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-1.5	Soil	EPA 6010B	Chromium	0.53	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-1.5	Soil	EPA 6010B	Lead	83	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-1.5	Soil	EPA 6010B	Nickel	2.2	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-1.5	Soil	EPA 8270B	Phenanthrene	2100	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141883	WRC-21-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141883	WRC-21-3.5	Soil	EPA 6010B	Cadmium	0.37	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-3.5	Soil	EPA 6010B	Chromium	21	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-3.5	Soil	EPA 6010B	Lead	4.3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141883	WRC-21-3.5	Soil	EPA 6010B	Nickel	5.9	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141911	WRC-11	Water	EPA 8082	Aroclor-1016	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141911	WRC-11	Water	EPA 8082	Aroclor-1221	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141911	WRC-11	Water	EPA 8082	Aroclor-1232	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.



**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
141945	WRC-14	Water	EPA 8082	Aroclor-1262	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20	Water	EPA 8082	Aroclor-1016	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20	Water	EPA 8082	Aroclor-1221	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20	Water	EPA 8082	Aroclor-1232	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20	Water	EPA 8082	Aroclor-1242	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20	Water	EPA 8082	Aroclor-1248	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20	Water	EPA 8082	Aroclor-1254	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20	Water	EPA 8082	Aroclor-1260	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20	Water	EPA 8082	Aroclor-1262	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
141945	WRC-20-3.5	Soil	EPA 8260A	Tetrachloroethene	3	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141995	A02-12-1.5	Soil	EPA 8081A	4,4'-DDT	500	µg/kg	J9	Concentration is estimated due to surrogate percent recoveries outside of control limits.
141995	H-61-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-61-1.5	Soil	EPA 6010B	Lead	38	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-61-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-61-3.5	Soil	EPA 6010B	Lead	20	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-61-3.5	Soil	EPA 8260A	Chloroform	4.6	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
141995	H-62-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-62-1.5	Soil	EPA 6010B	Lead	400	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-62-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-62-3.5	Soil	EPA 6010B	Lead	130	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-63-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-63-1.5	Soil	EPA 6010B	Lead	23	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-63-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-63-3.5	Soil	EPA 6010B	Lead	40	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-68-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-68-1.5	Soil	EPA 6010B	Lead	45	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-68-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-68-3.5	Soil	EPA 6010B	Lead	5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-69-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-69-1.5	Soil	EPA 6010B	Lead	6.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	H-69-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	H-69-3.5	Soil	EPA 6010B	Lead	140	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	OS-14-5.0	Soil	EPA 6010B	Antimony	3	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	OS-14-5.0	Soil	EPA 6010B	Lead	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
141995	OS-15-4.0	Soil	EPA 6010B	Antimony	2.9	mg/kg	UR9	Non-detected value is rejected due to serious deficiencies in the ability to meet MS and/or MSD percent recovery control limit
141995	OS-15-4.0	Soil	EPA 6010B	Lead	73	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142012	OS-09-5.0	Soil	EPA 8260A	1,2-Dichloroethane	2.7	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142012	OS-18-18.0	Soil	EPA 8260A	Benzene	4.6	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142046	H-64	Water	EPA 8270B	3-,4-Methylphenol	6.4	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
142068	H-63	Water	EPA 8270B	2-Methylnaphthalene	6.2	µg/l	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142071	OS-12-9.5	Soil	EPA 8260A	Carbon Disulfide	3.2	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142098	OS-08	Water	EPA 8081A	4,4'-DDD	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	4,4'-DDE	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	4,4'-DDT	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Aldrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Alpha-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Beta-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Chlordane	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Delta-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Dieldrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Endosulfan I	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Endosulfan II	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Endosulfan Sulfate	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Endrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Endrin Aldehyde	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Gamma-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Heptachlor	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Heptachlor Epoxide	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Methoxychlor	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8081A	Toxaphene	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8082	Aroclor-1016	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8082	Aroclor-1221	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8082	Aroclor-1232	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8082	Aroclor-1242	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8082	Aroclor-1248	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8082	Aroclor-1254	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8082	Aroclor-1260	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-08	Water	EPA 8082	Aroclor-1262	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142098	OS-19-1.5	Soil	EPA 8270B	Benzof(k)fluoranthene	180	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142098	OS-19-1.5	Soil	EPA 8270B	Benzof(g,h,i)perylene	180	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142098	OS-19-1.5	Soil	EPA 8270B	Indeno(1,2,3-cd)pyrene	180	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142119	OS-02-0.5	Soil	EPA 8260A	Carbon Disulfide	2.9	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142119	OS-02-0.5	Soil	EPA 8270B	Pyrene	340	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142119	OS-07-0.5	Soil	EPA 8081/8082	4,4'-DDD	25	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142119	OS-07-0.5	Soil	EPA 8081/8082	4,4'-DDE	49	µg/kg	J3	Concentration is estimated due to surrogate percent recoveries outside of control limits.
142119	OS-07-0.5	Soil	EPA 8081/8082	4,4'-DDT	25	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142119	OS-07-0.5	Soil	EPA 8081/8082	Aldrin	25	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142119	OS-07-0.5	Soil	EPA 8081/8082	Alpha-BHC	25	µg/kg	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.





**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
142139	H-69	Water	EPA 8081/8082	Endosulfan I	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Endosulfan II	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Endosulfan Sulfate	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Endrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Endrin Aldehyde	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Gamma-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Heptachlor	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Heptachlor Epoxide	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Methoxychlor	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142139	H-69	Water	EPA 8081/8082	Toxaphene	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142293	OS-21-0.5	Soil	EPA 6010B	Arimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142293	OS-21-0.5	Soil	EPA 6010B	Chromium	26	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142293	OS-23-0.5	Soil	EPA 6010B	Arimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142293	OS-23-0.5	Soil	EPA 6010B	Chromium	70	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142430	H-71	Water	EPA 6010B	Iron	19000	µg/l	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142430	H-74	Water	EPA 6010B	Iron	11000	µg/l	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142430	H-77	Water	EPA 6010B	Iron	9500	µg/l	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142430	H-78	Water	EPA 6010B	Iron	1800	µg/l	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	4,4'-DDD	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	4,4'-DDE	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	4,4'-DDT	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aldrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Alpha-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aroclor-1016	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aroclor-1221	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aroclor-1232	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aroclor-1242	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aroclor-1248	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aroclor-1254	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aroclor-1260	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Aroclor-1262	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Beta-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Chlordane	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Delta-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Dieldrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Endosulfan I	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Endosulfan II	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Endosulfan Sulfate	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Endrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
142479	H-70	Water	EPA 8081/8082	Endrin Aldehyde	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Gamma-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Heptachlor	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Heptachlor Epoxide	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Methoxychlor	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-70	Water	EPA 8081/8082	Toxaphene	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	4,4'-DDD	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	4,4'-DDE	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	4,4'-DDT	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aldrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Alpha-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aroclor-1016	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aroclor-1221	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aroclor-1232	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aroclor-1242	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aroclor-1248	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aroclor-1254	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aroclor-1260	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Aroclor-1262	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Beta-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Chlordane	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Delta-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Dieldrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Endosulfan I	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Endosulfan II	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Endosulfan Sulfate	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Endrin	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Endrin Aldehyde	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Gamma-BHC	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Heptachlor	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Heptachlor Epoxide	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Methoxychlor	0.10	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142479	H-75	Water	EPA 8081/8082	Toxaphene	1.0	µg/l	UJ3	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142719	WRC-30-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detected value is estimated due to surrogate percent recoveries outside of control limits.
142719	WRC-30-1.5	Soil	EPA 6010B	Chromium	9.5	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-30-1.5	Soil	EPA 6010B	Copper	6.8	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-30-1.5	Soil	EPA 6010B	Vanadium	17	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-30-1.5	Soil	EPA 6010B	Zinc	24	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-30-3.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detected value is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
142719	WRC-30-3.5	Soil	EPA 6010B	Chromium	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-30-3.5	Soil	EPA 6010B	Copper	11	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-30-3.5	Soil	EPA 6010B	Vanadium	21	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-30-3.5	Soil	EPA 6010B	Zinc	17	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-1.5	Soil	EPA 6010B	Chromium	25	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-1.5	Soil	EPA 6010B	Copper	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-1.5	Soil	EPA 6010B	Vanadium	19	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-1.5	Soil	EPA 6010B	Zinc	87	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-4.0	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-4.0	Soil	EPA 6010B	Chromium	53	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-4.0	Soil	EPA 6010B	Copper	19	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-4.0	Soil	EPA 6010B	Vanadium	24	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-31-4.0	Soil	EPA 6010B	Zinc	32	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-1.5	Soil	EPA 6010B	Chromium	30	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-1.5	Soil	EPA 6010B	Copper	23	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-1.5	Soil	EPA 6010B	Vanadium	27	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-1.5	Soil	EPA 6010B	Zinc	36	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-1.5	Soil	EPA 8270B	Benzol(g,h,i)perylene	170	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142719	WRC-32-1.5	Soil	EPA 8270B	Indeno(1,2,3-cd)pyrene	180	µg/kg	J11	Concentration is estimated because it was quantified at a concentration less than the detection limit
142719	WRC-32-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-3.5	Soil	EPA 6010B	Chromium	42	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-3.5	Soil	EPA 6010B	Copper	15	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-3.5	Soil	EPA 6010B	Vanadium	23	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-32-3.5	Soil	EPA 6010B	Zinc	25	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-1.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-1.5	Soil	EPA 6010B	Chromium	32	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-1.5	Soil	EPA 6010B	Copper	18	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-1.5	Soil	EPA 6010B	Vanadium	29	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-1.5	Soil	EPA 6010B	Zinc	39	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-3.5	Soil	EPA 6010B	Chromium	23	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-3.5	Soil	EPA 6010B	Copper	47	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-33-3.5	Soil	EPA 6010B	Vanadium	16	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-1.5	Soil	EPA 6010B	Antimony	2.9	mg/kg	UJ9	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-1.5	Soil	EPA 6010B	Chromium	33	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-1.5	Soil	EPA 6010B	Copper	9	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-1.5	Soil	EPA 6010B	Vanadium	21	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.

**Table B-2**  
**Summary of QA/QC Evaluation Results**  
**Zeneca, Richmond, California**

Sample Delivery Group	Field Sample ID	Matrix	EPA Method	Compound	Result	Units	Validation Qualifier	Rationale
142719	WRC-34-1.5	Soil	EPA 6010B	Zinc	29	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-3.5	Soil	EPA 6010B	Antimony	3	mg/kg	U79	Non-detect value is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-3.5	Soil	EPA 6010B	Chromium	38	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-3.5	Soil	EPA 6010B	Copper	27	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-3.5	Soil	EPA 6010B	Vanadium	28	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142719	WRC-34-3.5	Soil	EPA 6010B	Zinc	54	mg/kg	J9	Concentration is estimated due to MS and/or MSD percent recoveries outside of control limits.
142821	WRC-05-3.5	Soil	EPA 8081A/8082	4,4'-DDD	1600000	µg/kg	J13	Concentration is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	4,4'-DDE	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	4,4'-DDT	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aldrin	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Alpha-BHC	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aroclor-1016	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aroclor-1221	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aroclor-1232	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aroclor-1242	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aroclor-1248	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aroclor-1254	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aroclor-1260	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Aroclor-1262	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Beta-BHC	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Chlordane	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Delta-BHC	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Dieldrin	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Endosulfan I	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Endosulfan II	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Endosulfan Sulfate	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Endrin	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Endrin Aldehyde	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Gamma-BHC	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Heptachlor	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Heptachlor Epoxide	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Methoxychlor	500000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time
142821	WRC-05-3.5	Soil	EPA 8081A/8082	Toxaphene	5000000	µg/kg	U13	Non-detect value is estimated because the sample was extracted outside of holding time

Notes:

mg/kg = milligrams per kilogram  
µg/kg = micrograms per kilogram  
µg/l = micrograms per liter

**Table B-3**  
**Summary of Method Blanks with Detections**  
**Zeneca, Richmond, California**

Sample Delivery Group	Matrix	EPA Method	QC Batch	Compound	Results	Units
141090	Soil	EPA 6010B	50193	Zinc	1.5	mg/kg
141305	Soil	EPA 8260A	50447	Freon 113	3.7 J	µg/kg
141345	Soil	EPA 8260A	50547	1,2,3-Trichlorobenzene	37 J	µg/kg
141345	Soil	EPA 8260A	50547	1,2,4-Trichlorobenzene	25 J	µg/kg
141345	Soil	EPA 8260A	50547	1,2-Dichlorobenzene	13 J	µg/kg
141345	Soil	EPA 8260A	50547	2-Butanone	51 J	µg/kg
141345	Soil	EPA 8260A	50547	Hexachlorobutadiene	30 J	µg/kg
141345	Soil	EPA 8260A	50547	Naphthalene	44 J	µg/kg
141345	Soil	EPA 8260A	50547	1,2,3-Trichlorobenzene	32 J	µg/kg
141345	Soil	EPA 8260A	50547	1,2,3-Trichloropropane	14 J	µg/kg
141345	Soil	EPA 8260A	50547	1,2,4-Trichlorobenzene	19 J	µg/kg
141345	Soil	EPA 8260A	50547	2-Butanone	63 J	µg/kg
141345	Soil	EPA 8260A	50547	4-Methyl-2-Pentanone	16 J	µg/kg
141345	Soil	EPA 8260A	50547	Naphthalene	42 J	µg/kg
141945	Soil	EPA 8260A	51426	Naphthalene	10	µg/kg
141995	Soil	EPA 8260A	51426	Naphthalene	10	µg/kg
141945	Soil	EPA 8260A	51426	Naphthalene	10	µg/kg
141995	Soil	EPA 8260A	51426	Naphthalene	10	µg/kg
141945	Soil	EPA 8260A	51454	Naphthalene	10	µg/kg
141995	Soil	EPA 8260A	51454	Naphthalene	10	µg/kg
141945	Soil	EPA 8260A	51454	Naphthalene	10	µg/kg
141995	Soil	EPA 8260A	51454	Naphthalene	10	µg/kg
141995	Soil	EPA 8260A	51487	Naphthalene	10	µg/kg
141998	Soil	EPA 8260A	51487	Naphthalene	10	µg/kg
141995	Soil	EPA 8260A	51487	Naphthalene	10	µg/kg
141998	Soil	EPA 8260A	51487	Naphthalene	10	µg/kg
141998	Soil	EPA 8260A	51512	Naphthalene	10	µg/kg
142012	Soil	EPA 8260A	51512	Naphthalene	10	µg/kg
142119	Soil	EPA 8260A	51554	1,2,3-Trichlorobenzene	6.6	µg/kg
142119	Soil	EPA 8260A	51554	Naphthalene	12	µg/kg
142119	Soil	EPA 8260A	51572	Naphthalene	10	µg/kg
142119	Soil	EPA 8260A	51572	Naphthalene	11	µg/kg
142293	Soil	EPA 8260B	51814	Naphthalene	10	µg/kg
142293	Soil	EPA 8260B	51814	Naphthalene	10	µg/kg
142046	Water	EPA 6010B	51873	Zinc	32	µg/l
141090	Water	EPA 8260A	50194	Naphthalene	0.9	µg/l
141111	Water	EPA 8260A	50194	Naphthalene	0.9	µg/l
141111	Water	EPA 8260A	50248	Naphthalene	1	µg/l
141137	Water	EPA 8260A	50248	Naphthalene	1	µg/l
141161	Water	EPA 8260A	50248	Naphthalene	1	µg/l
141305	Water	EPA 8260A	50576	2-Butanone	48 J	µg/l
141305	Water	EPA 8260A	50576	Acetone	92 J	µg/l

**Table B-3**  
**Summary of Method Blanks with Detections**  
**Zeneca, Richmond, California**

Sample Delivery Group	Matrix	EPA Method	QC Batch	Compound	Results	Units
141305	Water	EPA 8260A	50576	Methylene Chloride	440 J	µg/l
141305	Water	EPA 8260A	50576	Naphthalene	15 J	µg/l
141345	Water	EPA 8260A	50576	2-Butanone	48 J	µg/l
141345	Water	EPA 8260A	50576	Acetone	92 J	µg/l
141345	Water	EPA 8260A	50576	Methylene Chloride	440 J	µg/l
141345	Water	EPA 8260A	50576	Naphthalene	15 J	µg/l
141376	Water	EPA 8260A	50576	2-Butanone	48 J	µg/l
141376	Water	EPA 8260A	50576	Acetone	92 J	µg/l
141376	Water	EPA 8260A	50576	Methylene Chloride	440 J	µg/l
141376	Water	EPA 8260A	50576	Naphthalene	15 J	µg/l
141305	Water	EPA 8260A	50576	1,2,3-Trichlorobenzene	63 J	µg/l
141305	Water	EPA 8260A	50576	1,2,3-Trichloropropane	15 J	µg/l
141305	Water	EPA 8260A	50576	1,2,4-Trichlorobenzene	28 J	µg/l
141305	Water	EPA 8260A	50576	1,2-Dibromo-3-Chloropropane	13 J	µg/l
141305	Water	EPA 8260A	50576	1,2-Dichlorobenzene	20 J	µg/l
141305	Water	EPA 8260A	50576	1,3-Dichlorobenzene	13 J	µg/l
141305	Water	EPA 8260A	50576	1,4-Dichlorobenzene	17 J	µg/l
141305	Water	EPA 8260A	50576	2-Butanone	71 J	µg/l
141305	Water	EPA 8260A	50576	4-Methyl-2-Pentanone	18 J	µg/l
141305	Water	EPA 8260A	50576	Hexachlorobutadiene	32 J	µg/l
141305	Water	EPA 8260A	50576	n-Butylbenzene	15 J	µg/l
141305	Water	EPA 8260A	50576	Naphthalene	180	µg/l
141305	Water	EPA 8260A	50576	para-Isopropyl Toluene	16 J	µg/l
141345	Water	EPA 8260A	50576	1,2,3-Trichlorobenzene	63 J	µg/l
141345	Water	EPA 8260A	50576	1,2,3-Trichloropropane	15 J	µg/l
141345	Water	EPA 8260A	50576	1,2,4-Trichlorobenzene	28 J	µg/l
141345	Water	EPA 8260A	50576	1,2-Dibromo-3-Chloropropane	13 J	µg/l
141345	Water	EPA 8260A	50576	1,2-Dichlorobenzene	20 J	µg/l
141345	Water	EPA 8260A	50576	1,3-Dichlorobenzene	13 J	µg/l
141345	Water	EPA 8260A	50576	1,4-Dichlorobenzene	17 J	µg/l
141345	Water	EPA 8260A	50576	2-Butanone	71 J	µg/l
141345	Water	EPA 8260A	50576	4-Methyl-2-Pentanone	18 J	µg/l
141345	Water	EPA 8260A	50576	Hexachlorobutadiene	32 J	µg/l
141345	Water	EPA 8260A	50576	n-Butylbenzene	15 J	µg/l
141345	Water	EPA 8260A	50576	Naphthalene	180	µg/l
141345	Water	EPA 8260A	50576	para-Isopropyl Toluene	16 J	µg/l
141376	Water	EPA 8260A	50576	1,2,3-Trichlorobenzene	63 J	µg/l
141376	Water	EPA 8260A	50576	1,2,3-Trichloropropane	15 J	µg/l
141376	Water	EPA 8260A	50576	1,2,4-Trichlorobenzene	28 J	µg/l
141376	Water	EPA 8260A	50576	1,2-Dibromo-3-Chloropropane	13 J	µg/l
141376	Water	EPA 8260A	50576	1,2-Dichlorobenzene	20 J	µg/l
141376	Water	EPA 8260A	50576	1,3-Dichlorobenzene	13 J	µg/l

**Table B-3**  
**Summary of Method Blanks with Detections**  
**Zeneca, Richmond, California**

Sample Delivery Group	Matrix	EPA Method	QC Batch	Compound	Results	Units
141376	Water	EPA 8260A	50576	1,4-Dichlorobenzene	17 J	µg/l
141376	Water	EPA 8260A	50576	2-Butanone	71 J	µg/l
141376	Water	EPA 8260A	50576	4-Methyl-2-Pentanone	18 J	µg/l
141376	Water	EPA 8260A	50576	Hexachlorobutadiene	32 J	µg/l
141376	Water	EPA 8260A	50576	n-Butylbenzene	15 J	µg/l
141376	Water	EPA 8260A	50576	Naphthalene	180	µg/l
141376	Water	EPA 8260A	50576	para-Isopropyl Toluene	16 J	µg/l
141345	Water	EPA 8260A	50619	2-Butanone	2.7 J	µg/l
141376	Water	EPA 8260A	50619	2-Butanone	2.7 J	µg/l
141345	Water	EPA 8260A	50619	2-Butanone	1.5 J	µg/l
141376	Water	EPA 8260A	50619	2-Butanone	1.5 J	µg/l
141345	Water	EPA 8260A	50619	2-Butanone	1.3 J	µg/l
141345	Water	EPA 8260A	50619	Freon 113	0.6 J	µg/l
141345	Water	EPA 8260A	50619	Methylene Chloride	2.1 J	µg/l
141376	Water	EPA 8260A	50619	2-Butanone	1.3 J	µg/l
141376	Water	EPA 8260A	50619	Freon 113	0.6 J	µg/l
141376	Water	EPA 8260A	50619	Methylene Chloride	2.1 J	µg/l
141345	Water	EPA 8260A	50638	2-Butanone	0.7 J	µg/l
141861	Water	EPA 8260A	51201	Methylene Chloride	18 J	µg/l
141861	Water	EPA 8260A	51201	Bromomethane	5.1 J	µg/l
141861	Water	EPA 8260A	51201	Methylene Chloride	14 J	µg/l
142046	Water	EPA 8260A	51581	Carbon Disulfide	1.7	µg/l

**Notes:**

mg/kg = milligrams per kilogram

µg/l = micrograms per liter

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141090	141090-005	A03-01-4	EPA 8080	Decachlorobiphenyl	DO	38	141
141090	141090-005	A03-01-4	EPA 8080	TCMX	DO	57	126
141090	141090-006	A03-01-7	EPA 8080	Decachlorobiphenyl	DO	38	141
141090	141090-006	A03-01-7	EPA 8080	TCMX	DO	57	126
141305	141305-003	A06-14-3.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141305	141305-003	A06-14-3.5	EPA 8080	TCMX	DO	57	126
141296	141296-008	A05-07-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141296	141296-008	A05-07-1.5	EPA 8080	TCMX	DO	57	126
141296	141296-011	A05-08-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141296	141296-011	A05-08-1.5	EPA 8080	TCMX	DO	57	126
141296	141296-013	A05-04-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141296	141296-013	A05-04-1.5	EPA 8080	TCMX	DO	57	126
141296	141296-020	A06-08-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141296	141296-020	A06-08-1.5	EPA 8080	TCMX	DO	57	126
141296	141296-021	A05-05-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141296	141296-021	A05-05-1.5	EPA 8080	TCMX	DO	57	126
141296	141296-024	A06-09-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141296	141296-024	A06-09-1.5	EPA 8080	TCMX	DO	57	126
141296	141296-025	A06-14-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141296	141296-025	A06-14-1.5	EPA 8080	TCMX	DO	57	126
141305	141305-011	A06-12-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141305	141305-011	A06-12-1.5	EPA 8080	TCMX	DO	57	126
141305	141305-012	A06-12-3.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141305	141305-012	A06-12-3.5	EPA 8080	TCMX	DO	57	126
141305	141305-017	A01-07-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141



**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141305	141305-017	A01-07-1.5	EPA 8080	TCMX	DO	57	126
141305	141305-020	A01-04-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141305	141305-020	A01-04-1.5	EPA 8080	TCMX	DO	57	126
141305	141305-029	A06-13-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141305	141305-029	A06-13-1.5	EPA 8080	TCMX	DO	57	126
141305	141305-030	A06-13-3.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141305	141305-030	A06-13-3.5	EPA 8080	TCMX	DO	57	126
141305	141305-032	A02-06-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141305	141305-032	A02-06-1.5	EPA 8080	TCMX	DO	57	126
141345	141345-013	A04-04-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141345	141345-016	A04-05-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141345	141345-016	A04-05-1.5	EPA 8080	TCMX	DO	57	126
141345	141345-017	A04-05-3.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141345	141345-017	A04-05-3.5	EPA 8080	TCMX	DO	57	126
141345	141345-020	A04-06-6.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141345	141345-020	A04-06-6.5	EPA 8080	TCMX	DO	57	126
141345	141345-021	A04-07-1.0	EPA 8080	Decachlorobiphenyl	DO	38	141
141345	141345-021	A04-07-1.0	EPA 8080	TCMX	DO	57	126
141345	141345-025	A04-08-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141345	141345-025	A04-08-1.5	EPA 8080	TCMX	DO	57	126
141345	141345-029	A04-09-3.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141345	141345-029	A04-09-3.5	EPA 8080	TCMX	DO	57	126
141345	141345-031	A04-10-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141345	141345-031	A04-10-1.5	EPA 8080	TCMX	DO	57	126

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141376	141376-001	A04-11-1.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141376	141376-001	A04-11-1.5	EPA 8080	TCMX	DO	57	126
141376	141376-005	A03-03-4.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141376	141376-005	A03-03-4.5	EPA 8080	TCMX	DO	57	126
141376	141376-009	A03-04-7	EPA 8080	Decachlorobiphenyl	160	38	141
141376	141376-010	A03-05-2.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141376	141376-010	A03-05-2.5	EPA 8080	TCMX	DO	57	126
141376	141376-011	A03-05-4.5	EPA 8080	Decachlorobiphenyl	DO	38	141
141376	141376-011	A03-05-4.5	EPA 8080	TCMX	DO	57	126
141376	141376-012	A03-05-7	EPA 8080	Decachlorobiphenyl	DO	38	141
141376	141376-012	A03-05-7	EPA 8080	TCMX	DO	57	126
142293	142293-001	OS-23-0.5	EPA 8080	Decachlorobiphenyl	DO	38	141
142293	142293-001	OS-23-0.5	EPA 8080	TCMX	DO	57	126
142293	142293-002	OS-21-0.5	EPA 8080	Decachlorobiphenyl	DO	38	141
142293	142293-002	OS-21-0.5	EPA 8080	TCMX	DO	57	126
142119	142119-OS-2-0.5	OS-2-0.5	EPA 8081/8082	2,4,5,6-Tetrachloro-m-Xylene	0	50	130
142119	142119-OS-2-0.5	OS-2-0.5	EPA 8081/8082	Decachlorobiphenyl	0	50	130
142119	142119-OS-7-0.5	OS-7-0.5	EPA 8081A	Decachlorobiphenyl	39	50	130
141862	141862-WRC-02-1.5	WRC-02-1.5	EPA 8081A	2,4,5,6-Tetrachloro-m-Xylene	0	50	130
141862	141862-WRC-02-1.5	WRC-02-1.5	EPA 8081A	Decachlorobiphenyl	0	50	130
141862	141862-WRC-05-1.5	WRC-05-1.5	EPA 8081A	2,4,5,6-Tetrachloro-m-Xylene	0	50	130
141862	141862-WRC-05-1.5	WRC-05-1.5	EPA 8081A	Decachlorobiphenyl	0	50	130
141995	141995-A02-12-1.5	A02-12-1.5	EPA 8081A	2,4,5,6-Tetrachloro-m-Xylene	283	50	130
142821	142821-WRC-05-3.5	WRC-05-3.5	EPA 8081A/8082	2,4,5,6-Tetrachloro-m-Xylene	0	50	130
142821	142821-WRC-05-3.5	WRC-05-3.5	EPA 8081A/8082	Decachlorobiphenyl	0	50	130

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141376	141376-004	A03-03-2.5	EPA 8260A	Toluene-d8	87	88	111
141345	141345-025	A04-08-1.5	EPA 8260A	Dibromofluoromethane	42	67	140
141305	141305-003	A06-14-3.5	EPA 8270B	2,4,6-Tribromophenol	8	23	144
141296	141296-008	A05-07-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-008	A05-07-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-008	A05-07-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-008	A05-07-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-008	A05-07-1.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-008	A05-07-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-009	A05-07-3.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-009	A05-07-3.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-009	A05-07-3.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-009	A05-07-3.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-009	A05-07-3.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-009	A05-07-3.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-011	A05-08-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-011	A05-08-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-011	A05-08-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-011	A05-08-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-011	A05-08-1.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-011	A05-08-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-013	A05-04-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-013	A05-04-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-013	A05-04-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-013	A05-04-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141296	141296-013	A05-04-1.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-013	A05-04-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-014	A06-10-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-014	A06-10-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-014	A06-10-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-014	A06-10-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-014	A06-10-1.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-014	A06-10-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-015	A06-10-3.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-015	A06-10-3.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-015	A06-10-3.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-015	A06-10-3.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-015	A06-10-3.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-015	A06-10-3.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-020	A06-08-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-020	A06-08-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-020	A06-08-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-020	A06-08-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-020	A06-08-1.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-020	A06-08-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-021	A05-05-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-021	A05-05-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-021	A05-05-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-021	A05-05-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-021	A05-05-1.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-021	A05-05-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-021	A05-05-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-021	A05-05-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-021	A05-05-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-021	A05-05-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-021	A05-05-1.5	EPA 8270B	Phenol-d5	DO	38	132

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141296	141296-021	A05-05-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-024	A06-09-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-024	A06-09-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-024	A06-09-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-024	A06-09-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-024	A06-09-1.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-024	A06-09-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141296	141296-025	A06-14-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141296	141296-025	A06-14-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141296	141296-025	A06-14-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141296	141296-025	A06-14-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141296	141296-025	A06-14-1.5	EPA 8270B	Phenol-d5	DO	38	132
141296	141296-025	A06-14-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141305	141305-011	A06-12-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141305	141305-011	A06-12-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141305	141305-011	A06-12-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141305	141305-011	A06-12-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141305	141305-011	A06-12-1.5	EPA 8270B	Phenol-d5	DO	38	132
141305	141305-011	A06-12-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141305	141305-020	A01-04-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141305	141305-020	A01-04-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141305	141305-020	A01-04-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141305	141305-020	A01-04-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141305	141305-020	A01-04-1.5	EPA 8270B	Phenol-d5	DO	38	132
141305	141305-020	A01-04-1.5	EPA 8270B	Terphenyl-d14	DO	22	149

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141305	141305-030	A06-13-3.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141305	141305-030	A06-13-3.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141305	141305-030	A06-13-3.5	EPA 8270B	2-Fluorophenol	DO	15	129
141305	141305-030	A06-13-3.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141305	141305-030	A06-13-3.5	EPA 8270B	Phenol-d5	DO	38	132
141305	141305-030	A06-13-3.5	EPA 8270B	Terphenyl-d14	DO	22	149
141345	141345-021	A04-07-1.0	EPA 8270B	2,4,6-Tribromophenol	12	23	144
141862	141862-010	WRC-03-1.5	EPA 8270B	Nitrobenzene-d5	246	22	132
141862	141862-010	WRC-03-1.5	EPA 8270B	Phenol-d5	28	38	132
141862	141862-013	WRC-05-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141862	141862-013	WRC-05-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141862	141862-013	WRC-05-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141862	141862-013	WRC-05-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141862	141862-013	WRC-05-1.5	EPA 8270B	Phenol-d5	DO	38	132
141862	141862-013	WRC-05-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141995	141995-026	H-68-1.5	EPA 8270B	2,4,6-Tribromophenol	DO	23	144
141995	141995-026	H-68-1.5	EPA 8270B	2-Fluorobiphenyl	DO	26	137
141995	141995-026	H-68-1.5	EPA 8270B	2-Fluorophenol	DO	15	129
141995	141995-026	H-68-1.5	EPA 8270B	Nitrobenzene-d5	DO	22	132
141995	141995-026	H-68-1.5	EPA 8270B	Phenol-d5	DO	38	132
141995	141995-026	H-68-1.5	EPA 8270B	Terphenyl-d14	DO	22	149
141090	141090-001	A06-03	EPA 8080	Decachlorobiphenyl	DO	15	147
141090	141090-001	A06-03	EPA 8080	TCMX	DO	25	140
141090	141090-002	A06-02	EPA 8080	Decachlorobiphenyl	5	15	147
141090	141090-003	A03-01	EPA 8080	Decachlorobiphenyl	DO	15	147

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141090	141090-003	A03-01	EPA 8080	TCMX	DO	25	140
141090	141090-004	A03-02	EPA 8080	Decachlorobiphenyl	DO	15	147
141090	141090-004	A03-02	EPA 8080	TCMX	DO	25	140
141111	141111-002	A06-04	EPA 8080	Decachlorobiphenyl	DO	15	147
141111	141111-002	A06-04	EPA 8080	TCMX	DO	25	140
141111	141111-003	A05-02	EPA 8080	Decachlorobiphenyl	DO	15	147
141111	141111-003	A05-02	EPA 8080	TCMX	DO	25	140
141137	141137-001	A04-02	EPA 8080	Decachlorobiphenyl	DO	15	147
141137	141137-001	A04-02	EPA 8080	TCMX	DO	25	140
141137	141137-002	A02-03	EPA 8080	Decachlorobiphenyl	DO	15	147
141137	141137-002	A02-03	EPA 8080	TCMX	DO	25	140
141137	141137-004	A02-01	EPA 8080	Decachlorobiphenyl	DO	15	147
141137	141137-004	A02-01	EPA 8080	TCMX	DO	25	140
141137	141137-006	A01-01	EPA 8080	Decachlorobiphenyl	DO	15	147
141137	141137-006	A01-01	EPA 8080	TCMX	DO	25	140
141161	141161-002	H-54	EPA 8080	Decachlorobiphenyl	DO	15	147
141161	141161-002	H-54	EPA 8080	TCMX	DO	25	140
141161	141161-003	A04-03	EPA 8080	Decachlorobiphenyl	DO	15	147
141161	141161-003	A04-03	EPA 8080	TCMX	DO	25	140
141161	141161-004	A04-01	EPA 8080	Decachlorobiphenyl	DO	15	147
141161	141161-004	A04-01	EPA 8080	TCMX	DO	25	140
141161	141161-005	H-53	EPA 8080	Decachlorobiphenyl	DO	15	147
141161	141161-005	H-53	EPA 8080	TCMX	DO	25	140
141161	141161-006	A06-05	EPA 8080	Decachlorobiphenyl	DO	15	147
141161	141161-006	A06-05	EPA 8080	TCMX	DO	25	140

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141161	141161-007	A02-02	EPA 8080	Decachlorobiphenyl	DO	15	147
141161	141161-007	A02-02	EPA 8080	TCMX	DO	25	140
141161	141161-008	A05-03	EPA 8080	Decachlorobiphenyl	DO	15	147
141161	141161-008	A05-03	EPA 8080	TCMX	DO	25	140
141164	141164-001	A06-01	EPA 8080	Decachlorobiphenyl	DO	15	147
141164	141164-001	A06-01	EPA 8080	TCMX	DO	25	140
141182	141182-001	BLDG55-082799	EPA 8080	Decachlorobiphenyl	DO	15	147
141182	141182-001	BLDG55-082799	EPA 8080	TCMX	DO	25	140
141183	141183-001	A06-06	EPA 8080	Decachlorobiphenyl	DO	15	147
141183	141183-001	A06-06	EPA 8080	TCMX	DO	25	140
141183	141183-002	A05-01	EPA 8080	Decachlorobiphenyl	DO	15	147
141183	141183-002	A05-01	EPA 8080	TCMX	DO	25	140
141305	141305-001	A06-11	EPA 8080	Decachlorobiphenyl	DO	15	147
141305	141305-001	A06-11	EPA 8080	TCMX	DO	25	140
141305	141305-002	A06-12	EPA 8080	Decachlorobiphenyl	7	15	147
141345	141345-037	A06-13	EPA 8080	Decachlorobiphenyl	14	15	147
142139	142139-H-69	H-69	EPA 8081/8082	Decachlorobiphenyl	34	50	135
142430	142430-H-71	H-71	EPA 8081/8082	2,4,5,6-Tetrachloro-m-Xylene	147	50	135
142430	142430-H-77	H-77	EPA 8081/8082	2,4,5,6-Tetrachloro-m-Xylene	150	50	135
142479	142479-H-70	H-70	EPA 8081/8082	Decachlorobiphenyl	49	50	135
142479	142479-H-75	H-75	EPA 8081/8082	Decachlorobiphenyl	22	50	135
141861	141861-WRC-08	WRC-08	EPA 8081A	2,4,5,6-Tetrachloro-m-Xylene	42	50	135
142012	142012-OS-09	OS-09	EPA 8081A	2,4,5,6-Tetrachloro-m-Xylene	0	50	135
142012	142012-OS-09	OS-09	EPA 8081A	Decachlorobiphenyl	0	50	135
142098	142098-OS-8-GW	OS-8-GW	EPA 8081A	Decachlorobiphenyl	49	50	135



**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141861	141861-WRC-08	WRC-08	EPA 8082	2,4,5,6-Tetrachloro-m-Xylene	42	50	135
141882	141882-A06-21	A06-21	EPA 8082	Decachlorobiphenyl	43	50	135
141911	141911-WRC-11	WRC-11	EPA 8082	Decachlorobiphenyl	40	50	135
141911	141911-WRC-16	WRC-16	EPA 8082	Decachlorobiphenyl	45	50	135
141945	141945-A06-20	A06-20	EPA 8082	Decachlorobiphenyl	40	50	135
141945	141945-WRC-06	WRC-06	EPA 8082	Decachlorobiphenyl	28	50	135
141945	141945-WRC-14	WRC-14	EPA 8082	Decachlorobiphenyl	47	50	135
141861	141861-WRC-01	WRC-01	EPA 8082	Decachlorobiphenyl	46	50	135
142098	142098-OS-8-GW	OS-8-GW	EPA 8082	Decachlorobiphenyl	49	50	135
141090	141090-001	A06-03	EPA 8270B	2-Fluorobiphenyl	20	35	116
141090	141090-001	A06-03	EPA 8270B	Terphenyl-d14	3	16	139
141090	141090-002	A06-02	EPA 8270B	2-Fluorobiphenyl	24	35	116
141090	141090-002	A06-02	EPA 8270B	Terphenyl-d14	2	16	139
141090	141090-003	A03-01	EPA 8270B	2-Fluorobiphenyl	24	35	116
141090	141090-003	A03-01	EPA 8270B	Terphenyl-d14	2	16	139
141090	141090-004	A03-02	EPA 8270B	2-Fluorobiphenyl	27	35	116
141090	141090-004	A03-02	EPA 8270B	Terphenyl-d14	3	16	139
141111	141111-002	A06-04	EPA 8270B	2-Fluorobiphenyl	19	35	116
141111	141111-002	A06-04	EPA 8270B	Terphenyl-d14	9	16	139
141137	141137-001	A04-02	EPA 8270B	Terphenyl-d14	13	16	139
141137	141137-002	A02-03	EPA 8270B	2,4,6-Tribromophenol	DO	31	140
141137	141137-002	A02-03	EPA 8270B	2-Fluorobiphenyl	DO	35	116
141137	141137-002	A02-03	EPA 8270B	2-Fluorophenol	DO	30	136
141137	141137-002	A02-03	EPA 8270B	Nitrobenzene-d5	DO	24	128
141137	141137-002	A02-03	EPA 8270B	Phenol-d5	DO	33	140

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141137	141137-002	A02-03	EPA 8270B	Terphenyl-d14	DO	16	139
141161	141161-003	A04-03	EPA 8270B	Terphenyl-d14	6	16	139
141161	141161-008	A05-03	EPA 8270B	Terphenyl-d14	7	16	139
141183	141183-001	A06-06	EPA 8270B	Terphenyl-d14	9	16	139
141183	141183-002	A05-01	EPA 8270B	2-Fluorobiphenyl	14	35	116
141183	141183-002	A05-01	EPA 8270B	Terphenyl-d14	2	16	139
141305	141305-001	A06-11	EPA 8270B	Terphenyl-d14	11	16	139
141305	141305-002	A06-12	EPA 8270B	Terphenyl-d14	10	16	139
141861	141861-004	WRC-01	EPA 8270B	2,4,6-Tribromophenol	DO	31	140
141861	141861-004	WRC-01	EPA 8270B	2-Fluorobiphenyl	DO	35	116
141861	141861-004	WRC-01	EPA 8270B	2-Fluorophenol	DO	30	136
141861	141861-004	WRC-01	EPA 8270B	Nitrobenzene-d5	DO	24	128
141861	141861-004	WRC-01	EPA 8270B	Phenol-d5	DO	33	140
141861	141861-004	WRC-01	EPA 8270B	Terphenyl-d14	DO	16	139
141861	141861-006	WRC-05	EPA 8270B	2,4,6-Tribromophenol	DO	31	140
141861	141861-006	WRC-05	EPA 8270B	2-Fluorobiphenyl	DO	35	116
141861	141861-006	WRC-05	EPA 8270B	2-Fluorophenol	DO	30	136
141861	141861-006	WRC-05	EPA 8270B	Nitrobenzene-d5	DO	24	128
141861	141861-006	WRC-05	EPA 8270B	Phenol-d5	DO	33	140
141861	141861-006	WRC-05	EPA 8270B	Terphenyl-d14	DO	16	139
141882	141882-002	WRC-06	EPA 8270B	2-Fluorobiphenyl	11	35	116
141882	141882-002	WRC-06	EPA 8270B	Terphenyl-d14	3	16	139
141882	141882-004	WRC-17	EPA 8270B	2,4,6-Tribromophenol	24	31	140
141911	141911-001	A06-19	EPA 8270B	2,4,6-Tribromophenol	29	31	140
141911	141911-006	WRC-16	EPA 8270B	Terphenyl-d14	14	16	139

**Table B-4**  
**Summary of Surrogate Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Lab Sample Id.	Field Sample ID	EPA Method	Surrogate Compound	Spike Percent Recovery	Lower QC Limit	Upper QC Limit
141945	141945-011	WRC-14	EPA 8270B	Terphenyl-d14	11	16	139
141998	141998-012	H-60	EPA 8270B	Phenol-d5	28	33	140
142012	142012-007	OS-09	EPA 8270B	Terphenyl-d14	8	16	139
142098	142098-006	OS-22	EPA 8270B	Terphenyl-d14	13	16	139
142098	142098-009	OS-8-GW	EPA 8270B	Terphenyl-d14	6	16	139

**Notes:**

- QC = Quality Control
- DO = Diluted Out of the Sample
- TCMX = Tetrachloro-m-xylene

**Table B-5**  
**Summary of MS/MSD Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Matrix	EPA Method	QC Batch	Spike Compound	MS SPR	MSD SPR	Lower Control Limit	Upper Control Limit	RPD	RPD Limit
141090	Soil	EPA 6010B	50193	Antimony	57	NA	65	135		
141090	Soil	EPA 6010B	50193	Copper	-41	NA	65	135		
141090	Soil	EPA 6010B	50193	Lead	23	NA	65	135		
141090	Soil	EPA 6010B	50193	Molybdenum	39	NA	65	135		
141090	Soil	EPA 6010B	50193	Zinc	35	NA	65	135		
141296	Soil	EPA 6010B	50565	Antimony	50	*	65	135		
141296	Soil	EPA 6010B	50565	Barium	63	*	65	135		
141296	Soil	EPA 6010B	50565	Copper	-58	NM	65	135		
141296	Soil	EPA 6010B	50565	Lead	172	*	65	135		
141296	Soil	EPA 6010B	50565	Selenium	64	*	65	135		
141296	Soil	EPA 6010B	50565	Zinc	9	*	65	135		
141305	Soil	EPA 6010B	50589	Antimony	34	*	65	135		
141305	Soil	EPA 6010B	50589	Copper	-2	NM	65	135		
141305	Soil	EPA 6010B	50589	Lead	147	NM	65	135		
141305	Soil	EPA 6010B	50589	Zinc	179	NM	65	135		
141305	Soil	EPA 6010B	50590	Antimony	56	*	65	135		
141305	Soil	EPA 6010B	50590	Chromium	58	*	65	135		
141345	Soil	EPA 6010B	50624	Antimony	35	*	65	135		
141345	Soil	EPA 6010B	50624	Barium	149	*	65	135		
141345	Soil	EPA 6010B	50624	Cadmium	31	*	65	135		
141345	Soil	EPA 6010B	50624	Copper	-95308	NM	65	135		
141345	Soil	EPA 6010B	50624	Molybdenum	62	*	65	135		
141345	Soil	EPA 6010B	50624	Nickel	37	*	65	135		
141345	Soil	EPA 6010B	50624	Selenium	52	*	65	135		
141345	Soil	EPA 6010B	50624	Silver	54	*	65	135		
141345	Soil	EPA 6010B	50624	Zinc	-1211	NM	65	135		

Table B-5  
 Summary of MS/MSD Spike Percent Recovery Exceedances  
 Zeneca, Richmond, California

Sample Delivery Group	Matrix	EPA Method	QC Batch	Spike Compound	MS SPR	MSD SPR	Lower Control Limit	Upper Control Limit	RPD	RPD Limit
141376	Soil	EPA 6010B	50624	Antimony	35 *		65	135		
141376	Soil	EPA 6010B	50624	Barium	149 *		65	135		
141376	Soil	EPA 6010B	50624	Cadmium	31 *		65	135		
141376	Soil	EPA 6010B	50624	Copper	-95308 NM		65	135		
141376	Soil	EPA 6010B	50624	Molybdenum	62 *		65	135		
141376	Soil	EPA 6010B	50624	Nickel	37 *		65	135		
141376	Soil	EPA 6010B	50624	Selenium	52 *		65	135		
141376	Soil	EPA 6010B	50624	Silver	54 *		65	135		
141376	Soil	EPA 6010B	50624	Zinc	-1211 NM		65	135		
141345	Soil	EPA 6010B	50654	Antimony	21 *		65	135		
141345	Soil	EPA 6010B	50654	Copper	172 NM		65	135		
141862	Soil	EPA 6010B	51190	Antimony	49 *		65	135		
141862	Soil	EPA 6010B	51190	Barium	48 *		65	135		
141862	Soil	EPA 6010B	51190	Chromium	62 *		65	135		
141862	Soil	EPA 6010B	51190	Copper	56 *		65	135		
141862	Soil	EPA 6010B	51190	Nickel	64 *		65	135		
141862	Soil	EPA 6010B	51190	Zinc	59 *		65	135		
141883	Soil	EPA 6010B	51254	Antimony	14 *		65	135		
141883	Soil	EPA 6010B	51254	Cadmium	35 *		65	135		
141883	Soil	EPA 6010B	51254	Chromium	52 *		65	135		
141883	Soil	EPA 6010B	51254	Copper	583 NM		65	135		
141883	Soil	EPA 6010B	51254	Lead	59 *		65	135		
141883	Soil	EPA 6010B	51254	Nickel	51 *		65	135		
141883	Soil	EPA 6010B	51254	Zinc	-480 NM		65	135		
141918	Soil	EPA 6010B	51353	Antimony	53 *		65	135		
141918	Soil	EPA 6010B	51353	Zinc	347 NM		65	135		

**Table B-5**  
**Summary of MS/MSD Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Matrix	EPA Method	QC Batch	Spike Compound	MS SPR	MSD SPR	Lower Control Limit	Upper Control Limit	RPD	RPD Limit
141922	Soil	EPA 6010B	51391	Antimony	27	NA	65	135		
141922	Soil	EPA 6010B	51391	Barium	-33	NA	65	135		
141922	Soil	EPA 6010B	51391	Cobalt	62	NA	65	135		
141922	Soil	EPA 6010B	51391	Copper	6	NA	65	135		
141922	Soil	EPA 6010B	51391	Zinc	-1313	NA	65	135		
141945	Soil	EPA 6010B	51391	Antimony	27	NA	65	135		
141945	Soil	EPA 6010B	51391	Barium	-33	NA	65	135		
141945	Soil	EPA 6010B	51391	Cobalt	62	NA	65	135		
141945	Soil	EPA 6010B	51391	Copper	6	NA	65	135		
141945	Soil	EPA 6010B	51391	Zinc	-1313	NA	65	135		
141995	Soil	EPA 6010B	51440	Antimony	27	*	65	135		
141995	Soil	EPA 6010B	51440	Copper	323	NM	65	135		
141995	Soil	EPA 6010B	51440	Lead	213	*	65	135		
141995	Soil	EPA 6010B	51440	Zinc	182	NM	65	135		
141998	Soil	EPA 6010B	51472	Antimony	31	NA	65	135	1	35
141998	Soil	EPA 6010B	51472	Barium	3	NA	65	135	6	35
141998	Soil	EPA 6010B	51472	Chromium	45	NA	65	135	10	35
141998	Soil	EPA 6010B	51472	Nickel	54	NA	65	135	5	35
141998	Soil	EPA 6010B	51472	Selenium	61	NA	65	135	9	35
141998	Soil	EPA 6010B	51472	Vanadium	50	NA	65	135	9	35
142012	Soil	EPA 6010B	51500	Antimony	24	NA	65	135		
142012	Soil	EPA 6010B	51500	Nickel	212	NA	65	135		
142071	Soil	EPA 6010B	51500	Antimony	24	NA	65	135		
142071	Soil	EPA 6010B	51500	Nickel	212	NA	65	135		
142119	Soil	EPA 6010B	51561	Antimony	0	NA	65	135		
142119	Soil	EPA 6010B	51561	Barium	427	NA	65	135		

Table B-5  
 Summary of MS/MSD Spike Percent Recovery Exceedances  
 Zeneca, Richmond, California

Sample Delivery Group	Matrix	EPA Method	QC Batch	Spike Compound	MS SPR	MSD SPR	Lower Control Limit	Upper Control Limit	RPD	RPD Limit
142119	Soil	EPA 6010B	51561	Beryllium	0	NA	65	135		
142119	Soil	EPA 6010B	51561	Cadmium	0	NA	65	135		
142119	Soil	EPA 6010B	51561	Cobalt	0	NA	65	135		
142119	Soil	EPA 6010B	51561	Selenium	64	NA	65	135		
142119	Soil	EPA 6010B	51561	Thallium	62	NA	65	135		
142119	Soil	EPA 6010B	51561	Zinc	-214	NA	65	135		
142098	Soil	EPA 6010B	51626	Antimony	0	NA	65	135		
142098	Soil	EPA 6010B	51626	Chromium	156	NA	65	135		
142098	Soil	EPA 6010B	51626	Copper	-32	NA	65	135		
142098	Soil	EPA 6010B	51626	Lead	58	NA	65	135		
142098	Soil	EPA 6010B	51626	Molybdenum	54	NA	65	135		
142098	Soil	EPA 6010B	51626	Zinc	52	NA	65	135		
142293	SOIL	EPA 6010B	51857	Antimony	34	*	65	135		
142293	SOIL	EPA 6010B	51857	Chromium	179	*	65	135		
142719	SOIL	EPA 6010B	52312	Antimony	43	*	65	135		
142719	SOIL	EPA 6010B	52312	Chromium	53	*	65	135		
142719	SOIL	EPA 6010B	52312	Copper	59	*	65	135		
142719	SOIL	EPA 6010B	52312	Vanadium	59	*	65	135		
142719	SOIL	EPA 6010B	52312	Zinc	59	*	65	135		
141296	Soil	EPA 8080	50488	4,4'-DDT	DO	*	22	157	NC	29
141296	Soil	EPA 8080	50488	Aldrin	DO	*	29	147	NC	24
141296	Soil	EPA 8080	50488	Dieldrin	DO	*	44	142	NC	19
141296	Soil	EPA 8080	50488	Endrin	DO	*	55	144	NC	21
141296	Soil	EPA 8080	50488	gamma-BHC	DO	*	58	120	NC	23
141296	Soil	EPA 8080	50488	Heptachlor	DO	*	57	125	NC	24
141305	Soil	EPA 8080	50488	4,4'-DDT	DO	*	22	157	NC	29

**Table B-5**  
**Summary of MS/MSD Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Matrix	EPA Method	QC Batch	Spike Compound	MS SPR	MSD SPR	Lower Control Limit	Upper Control Limit	RPD	RPD Limit
141305	Soil	EPA 8080	50488	Aldrin	DO *	DO *	29	147	NC	24
141305	Soil	EPA 8080	50488	Dieldrin	DO *	DO *	44	142	NC	19
141305	Soil	EPA 8080	50488	Endrin	DO *	DO *	55	144	NC	21
141305	Soil	EPA 8080	50488	gamma-BHC	DO *	DO *	58	120	NC	23
141305	Soil	EPA 8080	50488	Heptachlor	DO *	DO *	57	125	NC	24
141305	Soil	EPA 8080	50557	Heptachlor	52 *	56 *	57	125	8	24
141345	Soil	EPA 8080	50557	Heptachlor	52 *	56 *	57	125	8	24
142293	Soil	EPA 8080	51898	4,4'-DDT	DO *	DO *	22	157	NC	29
142293	Soil	EPA 8080	51898	Aldrin	DO *	DO *	29	147	NC	24
142293	Soil	EPA 8080	51898	Dieldrin	DO *	DO *	44	142	NC	19
142293	Soil	EPA 8080	51898	Endrin	DO *	DO *	55	144	NC	21
142293	Soil	EPA 8080	51898	gamma-BHC	DO *	DO *	58	120	NC	23
142293	Soil	EPA 8080	51898	Heptachlor	DO *	DO *	57	125	NC	24
142119	Soil	EPA 8081/8082	S-8081/8082-10/28/99	4,4'-DDT	37 *	32 *	50	135	15	25
142119	Soil	EPA 8081/8082	S-8081/8082-10/28/99	Dieldrin	594 *	521 *	50	135	12	25
142119	Soil	EPA 8081/8082	S-8081/8082-10/28/99	Endrin	197 *	142 *	50	135	33 *	25
142119	Soil	EPA 8081/8082	S-8081/8082-10/28/99	Heptachlor	55	48 *	50	135	15	25
141995	Soil	EPA 8081A	S-8081A-10/20/99	4,4'-DDT	45 *	45 *	50	135	0	25
141998	Soil	EPA 8081A	S-8081A-10/20/99	4,4'-DDT	45 *	45 *	50	135	0	25
141345	Soil	EPA 8260A	50573	Chlorobenzene	133 *	105	39	132	10	47
141376	Soil	EPA 8260A	50573	Chlorobenzene	133 *	105	39	132	10	47
141305	Soil	EPA 8270B	50478	Pyrene	23 *	-10 *	29	127	20	45
141376	Soil	EPA 8270B	50578	Pyrene	161 *	126	29	127	18	45
141862	Soil	EPA 8270B	51383	Pyrene	138 *	141 *	29	127	1	45
141883	Soil	EPA 8270B	51383	Pyrene	138 *	141 *	29	127	1	45
141918	Soil	EPA 8270B	51383	Pyrene	138 *	141 *	29	127	1	45



Table B-5  
 Summary of MS/MSD Spike Percent Recovery Exceedances  
 Zeneca, Richmond, California

Sample Delivery Group	Matrix	EPA Method	QC Batch	Spike Compound	MS SPR	MSD SPR	Lower Control Limit	Upper Control Limit	RPD	RPD Limit
141945	Soil	EPA 8270B	51383	Pyrene	138 *	141 *	29	127	1	45
141995	Soil	EPA 8270B	51428	Pentachlorophenol	21	7 *	15	119	106 *	50
141998	Soil	EPA 8270B	51428	Pentachlorophenol	21	7 *	15	119	106 *	50
142012	Soil	EPA 8270B	51428	Pentachlorophenol	21	7 *	15	119	106 *	50
142119	Soil	EPA 8270B	51648	N-Nitroso-di-n-propylamin	97	119 *	18	116	20	27
142139	Water	EPA 300.0	51544	Sulfate	79	68 *	75	125	1	35
141090	Water	EPA 6010B	50116	Copper	64	NM	65	135		
141090	Water	EPA 6010B	50116	Zinc	40	NM	65	135		
141305	Water	EPA 6010B	50593	Silver	57 *		65	135		
141305	Water	EPA 6010B	50593	Zinc	40	NM	65	135		
141345	Water	EPA 6010B	50593	Silver	57 *		65	135		
141345	Water	EPA 6010B	50593	Zinc	40 *		65	135		
141998	Water	EPA 6010B	51363	Zinc	-20	NM	65	135		
142012	Water	EPA 6010B	51363	Zinc	-20	NM	65	135		
141998	Water	EPA 6010B	51471	Cadmium	62	NA	65	135	1	20
141998	Water	EPA 6010B	51471	Cobalt	63	NA	65	135	0	20
141998	Water	EPA 6010B	51471	Lead	63	NA	65	135	1	20
141998	Water	EPA 6010B	51471	Nickel	59	NA	65	135	1	20
142068	Water	EPA 6010B	51471	Calcium	35	NA	65	135	6	20
142068	Water	EPA 6010B	51471	Iron	31	NA	65	135	12	20
142068	Water	EPA 6010B	51471	Magnesium	72		65	135	7	20
142068	Water	EPA 6010B	51471	Sodium	215	NA	65	135	3	20
142046	Water	EPA 6010B	51499	Sodium	63	NM	65	135		
142139	Water	EPA 6010B	51627	Copper	-280	NM	65	135		
142139	Water	EPA 6010B	51627	Zinc	-40	NM	65	135		
142139	Water	EPA 6010B	51729	Iron	63	NA	65	135		

**Table B-5**  
**Summary of MS/MSD Spike Percent Recovery Exceedances**  
**Zeneca, Richmond, California**

Sample Delivery Group	Matrix	EPA Method	QC Batch	Spike Compound	MS SPR	MSD SPR	Lower Control Limit	Upper Control Limit	RPD	RPD Limit
142139	Water	EPA 6010B	51729	Manganese	60	NA	65	135		
142046	Water	EPA 6010B	51873	Copper	152	NM	65	135		
142046	Water	EPA 6010B	51873	Zinc	222	NM	65	135		
142430	Water	EPA 6010B	51893	Calcium	-115	NM	65	135		
142430	Water	EPA 6010B	51893	Iron	619	*	65	135		
142430	Water	EPA 6010B	51893	Magnesium	-1	NM	65	135		
142430	Water	EPA 6010B	51893	Sodium	435	NM	65	135		
142479	Water	EPA 6010B	52013	Iron	-210	NM	65	135		

**Notes:**

MS = Matrix Spike

MSD = Matrix Spike Duplicate

SPR = Spike Percent Recovery

RPD = Relative Percent Difference

NA = Not Applicable; sample spiked was not a representative site sample.

NM = Not Meaningful; concentration in sample is greater than four times the spike concentration.

DO = Diluted Out

NC = Not Calculated