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SEDIMENT CHEMISTRY, TOXICITY, AND BENTHIC COMMUNITY CONDITIONS IN SELECTED WATER BODIES OF THE LOS ANGELES REGION

FINAL REPORT

California State Water Resources Control Board
Division of Water Quality
Bay Protection and Toxic Cleanup Program

California Regional Water Quality Control Board
Los Angeles Region

California Department of Fish and Game
Marine Pollution Studies Laboratory

University of California, Santa Cruz
Institute of Marine Sciences

San Jose State University
Moss Landing Marine Laboratories

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EXECUTIVE SUMMARY

Study Objectives

The Bay Protection and Toxic Cleanup Program (BPTCP) was established by the California State Legislature in 1989 with four major goals:

1) To provide protection of present and future beneficial uses of the bay and estuarine waters of California;
2) To identify and characterize toxic hot spots
3) To plan for toxic hot spot cleanup or other remedial or mitigation actions; and
4) To develop prevention and control strategies for toxic pollutants that will prevent creation of new toxic hot spots or the perpetuation of existing ones within the bays and estuaries of the State.

These goals are being addressed through activities in each of the coastal Water Quality Control Board Regions, including the Los Angeles Region (Region 4). As part of the legislative mandate, the BPTCP has implemented regional monitoring studies to identify toxic hot spots. The assessment strategy has generally relied upon application of various components of the Sediment Quality Triad in a weight-of-evidence approach to hot spot determination (Chapman et al., 1987). In 1992, the Los Angeles Regional Water Quality Control Board (LARWQCB), in cooperation with the State Water Resources Control Board (SWRCB), began BPTCP sediment monitoring in the Los Angeles Region. Initial monitoring activities were conducted in the Los Angeles and Long Beach Harbor areas as part of a three-year cooperative agreement between the National Oceanic and Atmospheric Administration (NOAA) and the SWRCB. The NOAA/SWRCB studies were designed to investigate sediment conditions in Southern California bays and estuaries (Fairey et al., 1995; Anderson et al., 1997). In addition to results from this cooperative agreement study, this report contains results of subsequent LARWQCB/BPTCP investigations conducted throughout the Los Angeles Region.

Studies were performed in inner and outer Los Angeles and Long Beach Harbors, Palos Verdes, Shoreline Marina, Los Alamitos Bay, King Harbor, Marina Del Rey, Ballona Creek, Channel Islands Harbor, Ventura Harbor, Port Hueneme, Malibu Lagoon, Mugu Lagoon, Santa Clara and Ventura River Estuaries, Colorado Lagoon/Simm's Pond, and McGrath Lake in the Los Angeles region.

The objectives of the study were as follows:

Characterize the magnitude and relative spatial distribution of pollution-associated bioeffects in the above-listed water bodies.

Determine relationships between concentrations and mixtures of sediment-associated chemicals and the occurrence and severity of bioeffects.

Distinguish more severely impacted sediments from less severely impacted sediments.

Use a weight-of-evidence approach based on the Sediment Quality Triad to categorize stations for future work.

Major Findings

Through a cooperative agreement this study achieved the combined program objectives of the Los Angeles Regional Water Quality Control Board, the State Water Resources Control Board's Bay Protection and Toxic Cleanup Program, and the National Oceanic and Atmospheric Administration's Status and Trends Program. Using a weight-of-evidence approach based on the Sediment Quality Triad, measures of chemical pollution, toxicity, benthic community structure, and bioaccumulation were completed on 267 samples collected from 138 stations. Stations in Industrial Harbors, Marinas, and Lagoons were sampled over a five year period to determine relative degradation in selected water bodies in the Los Angeles Region. When combined with measures of other sediment characteristics such as grain size, TOC, unionized ammonia, and hydrogen sulfide, these measures were useful for determining the relative level of pollution and biological impacts at a wide range of stations.

Degree of chemical contamination was assessed using two sets of sediment quality guidelines: the ERL/ERM guidelines developed by NOAA (Long et al., 1995), and the TEL/PEL guidelines developed for the State of Florida (MacDonald, 1996). In addition, non-guideline chemicals were compared to the BPTCP database to compare relative concentrations with those measured statewide. Copper, mercury, zinc, TBT, total chlordane, total PCBs, and high molecular weight PAHs were found to be the chemicals or chemical groups of greatest concern at the Industrial Harbor stations. Copper, lead, mercury, zinc, total chlordane, and total PCBs were found to be the chemicals or chemical groups of greatest concern at the Marina stations. PCBs, and a number of pesticides, including chlordane, dieldrin, endosulfan, and DDT, were the chemicals of greatest concern in the Lagoon stations.

Of the 192 Industrial Harbor stations where toxicity was assessed, 29 % showed significant toxicity to amphipods. Toxicity was highest in the inner Industrial Harbor sediment samples. Pore water samples demonstrated higher toxicity than sediment samples; 79% of the Industrial Harbor stations were toxic to abalone embryos exposed to sediment pore water. Of the 35 Marina stations tested for amphipod toxicity, sediment samples were toxic to amphipods at 31% of the stations. Of the 33 Lagoon station sediment samples tested, 58% were significantly toxic.

Many of the chemicals that correlated with toxicity also exceeded the sediment quality guideline values. Amphipod survival in Industrial Harbor stations was negatively correlated with a number of chemicals or chemical groups, including copper, mercury, nickel, lead, zinc, chlordane, total PCBs, low and high molecular weight, and total PAHs, the ERM Quotient, and the number of ERM Exceedances in the samples. In addition amphipod survival in the Industrial Harbor samples was negatively correlated with sediment grain size and TOC. Because chemicals bind to TOC and fine-grained sediments, it is not possible without further study to separate bioeffects due to these binding phases from those due to pollutants. Abalone development in Industrial Harbor pore water samples was negatively correlated with tin, total chlordane, two PCB congeners, the ERM Quotient value, and the number of ERM Exceedances in these samples. Amphipod survival in Marina sediments was negatively correlated primarily with metals (As, Cu, Pb, Hg, Ni, and zinc), as well as TBT. Amphipod survival in these samples was also negatively correlated with the PEL Quotient, the number of ERM Exceedances, and percent clay

in the samples. Amphipod survival in Lagoon sediment samples was negatively correlated with metals (Cu, Hg, Ag, Zn), pesticides such as chlordane, DDT, and dieldrin, and a number of PCB congeners and PAH compounds. In addition, amphipod survival in Lagoons was negatively correlated with the ERM Quotient and the number of ERM Exceedances in these samples.

Of the 102 Industrial Harbor stations where benthic community structure was characterized, 13% were considered to be degraded. The Relative Benthic Index (RBI), derived to characterize benthic community structure, was negatively correlated with a number of metals, pesticides, PCBs and PAHs. In addition, the RBI was negatively correlated with sediment TOC, the ERM Quotient, and the number of ERM Exceedances. Multivariate and univariate correlations between toxicity test results and benthic community metrics indicated that amphipod survival in toxicity tests was positively correlated with the total number of crustacean individuals and species at these stations. Abalone development in toxicity tests was positively correlated with the number of mollusc individual and species. Only one of 22 Marina samples had significantly degraded benthic community structure (RBI $\leq$ 0.30). Benthic community structure at the Marina stations was negatively correlated with metals, pesticides, PCBs, grain size, TOC, and the ERM Quotient and number of ERM Exceedances. All 6 of the Lagoon samples assessed in Mugu Lagoon had degraded benthos.

Bioaccumulation measured in field collected fish and laboratory exposed bivalves (*Macoma nasuta*) indicated that field collected fish in the West Basin and Cabrillo Beach Pier areas of Los Angeles Harbor contained DDT and PCB tissue concentrations that exceeded EPA screening values (U.S. EPA, 1990; U.S. EPA, 1995a). Bivalves exposed to sediments from the Cabrillo Beach Pier area accumulated significantly higher concentrations of DDT and PCBs than clams exposed to control sediment. Fish collected from one station in Mugu Lagoon also had elevated levels of PCBs compared to EPA screening values.

The results of these studies were consolidated into weight-of-evidence categorization tables. Stations were grouped based on chemical and ecotoxicological results into 9 possible categories that considered the magnitude of contamination by chemicals of concern, occurrence of toxicity using multiple toxicity test protocols, benthic community degradation, and in some cases, tissue bioaccumulation. Specific thresholds were established for each measure, beyond which stations were considered to have elevated chemistry, significant toxicity, degraded benthic community structure, or elevated tissue concentrations.

The Industrial Harbor stations that met all the criteria for Category 1 were located in the Consolidated Slip area. Samples from these stations had elevated chemistry, recurrent toxicity, and degraded benthic community structure. A majority of the Industrial Harbor stations met the criteria for Categories 5 or 6. These were stations with either, elevated chemistry and mixed results from biological measures (Cat. 5), or with measured biological impact but chemistry values below thresholds or not measured (Cat. 6).

The majority of Marina stations met the criteria for Categories 5 and 6. Some stations in Marina Del Rey had sediments with elevated chemistry; these stations were also significantly toxic to amphipods. The RBI at some of these stations was relatively low, but did not exceed the threshold for significant benthic community degradation.

The majority of Lagoon stations also met the criteria for Categories 5 and 6. Stations in Colorado Lagoon, Ballona Creek, and McGrath Lake had elevated chemistry and were significantly toxic to amphipods, but benthic community structure was not characterized at these stations. Stations in Mugu Lagoon all met the criteria for Category 6. Individual pesticides exceeded some guideline values in Mugu Lagoon, and amphipod survival was variable. Benthic community structure was degraded at all of the 6 Mugu Lagoon stations analyzed.

Results of these analyses will be combined with existing knowledge of chemicals of concern, biological effects, and site characteristics from previous studies to aid in development of hot spot cleanup plans. In addition, these investigations provide an initial step for identification of reference sites to be used in future monitoring studies.

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LIST OF ABBREVIATIONS

AA	Atomic Absorption
ASTM	American Society for Testing Materials
BPTCP	Bay Protection and Toxic Cleanup Program
CDF	Cumulative Distribution Frequencies
CDFG	California Department of Fish and Game
CH	Chlorinated Hydrocarbon
COC	Chain of Custody
COR	Chain of Records
EDTA	Ethylenediaminetetraacetic Acid
EMAP	Environmental Monitoring and Assessment Program
EPA	U.S. Environmental Protection Agency
ERL	Effects Range Low
ERM	Effects Range Median
ERMQ	Effects Range Median Quotient (Mean)
EqP	Equilibrium Partitioning Coefficient
FAAS	Flame Atomic Absorption Spectroscopy
GC/ECD	Gas Chromatograph Electron Capture Detection
GFAAS	Graphite Furnace Atomic Absorption Spectroscopy
HCl	Hydrochloric Acid
HDPE	High-density Polyethylene
HMW PAH	High Molecular Weight Polynuclear Aromatic Hydrocarbons
HNO_3	Nitric Acid
HPLC/SEC	High Performance Liquid Chromatography Size Exclusion
H_2S	Hydrogen Sulfide
IDORG	Identification and Organizational Number
KCL	Potassium Chloride
LARWQCB	Los Angeles Regional Water Quality Control Board
LC_{50}	Lethal Concentration (to 50 percent of test organisms)
LMW PAH	Low Molecular Weight Polynuclear Aromatic Hydrocarbons
MDL	Method Detection Limit
MDS	Multi-Dimensional Scaling
MLML	Moss Landing Marine Laboratories
MPSL	Marine Pollution Studies Laboratory
NH_3	Ammonia
NOAA	National Oceanic and Atmospheric Administration
NOEC	No Observed Effect Concentration
NS&T	National Status and Trends Program
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PEL	Probable Effects Level
PELQ	Probable Effects Level Quotient (Mean)

LIST OF ABBREVIATIONS cont.

PPE	Porous Polyethylene
PPT	Parts Per Thousand
PVC	Polyvinyl Chloride
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
REF	Reference
RWQCB	Regional Water Quality Control Board
SEM-AVS	Simultaneously Extracted Metals-Acid Volatile Sulfide
SJSUF	San Jose State University Foundation
SCCWRP	Southern Calif. Coastal Waters Research Project
SPARC	Scientific Planning and Review Committee
SQC	Sediment Quality Criteria
SWRCB	State Water Resources Control Board
T	Temperature
TBT	Tributyltin
TFE	Tefzel Teflon
TEL	Threshold Effects Level
TIE	Toxicity Identification Evaluation
TOC	Total Organic Carbon
TOF	Trace Organics Facility
UCSC	University of California Santa Cruz
USEPA	U.S. Environmental Protection Agency
WCS	Whole core squeezing

Units

1 part per thousand (ppt) = 1 mg/g
1 part per million (ppm) = 1 mg/kg, 1 μg/g sed
1 part per billion (ppb) = 1 μg/kg, 1 ng/g sed

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INTRODUCTION

In 1989, the California State legislature established the Bay Protection and Toxic Cleanup Program (BPTCP). One of the primary activities of the BPTCP is monitoring and assessment of sediments in selected California bays and estuaries. The assessment strategy has generally relied upon application of various components of the Sediment Quality Triad in a weight-of-evidence approach to hot spot determination (Chapman et al., 1987).

In 1992, the Los Angeles Regional Water Quality Control Board (LARWQCB), in cooperation with the State Water Resources Control Board (SWRCB), began BPTCP sediment monitoring in the Los Angeles Region. Initial monitoring activities were conducted in the Los Angeles and Long Beach Harbor areas as part of a three-year cooperative agreement between the National Oceanic and Atmospheric Administration (NOAA) and the SWRCB. The NOAA/SWRCB studies were designed to investigate sediment conditions in Southern California bays and estuaries (Fairey et al., 1995; Anderson et al., 1996). In addition to results of the first year of this cooperative agreement, this report contains results of subsequent LARWQCB/BPTCP investigations conducted throughout the Los Angeles Region.

Purpose

Studies were performed in inner and outer Los Angeles and Long Beach Harbors, Palos Verdes, Shoreline Marina, Los Alamitos Bay, King Harbor, Marina Del Rey, Ballona Creek, Channel Islands Harbor, Ventura Harbor, Port Hueneme, Malibu Lagoon, Mugu Lagoon, Santa Clara and Ventura River Estuaries, Colorado Lagoon/Simm's Pond, and McGrath Lake in the Los Angeles region.

The objectives of the study were as follows:

1.) Characterize the magnitude and relative spatial distribution of pollution-associated bioeffects in the above-listed water bodies.

2.) Determine relationships between concentrations and mixtures of sediment-associated chemicals and the occurrence and severity of bioeffects.

3.) Distinguish more severely impacted sediments from less severely impacted sediments.

4.) Use a weight-of-evidence approach based on the Sediment Quality Triad to categorize stations for future work.

Results of these analyses are intended to be combined with existing knowledge of chemicals of concern, biological effects, and site characteristics to aid in development of

hot spot cleanup plans. In addition, these investigations provide an initial step for identification of reference sites to be used in future monitoring studies.

A Proposed Regional Toxic Hot Spot Cleanup Plan was published by the LARWQCB in December 1997. Conclusions presented in this document were partly based on results of initial BPTCP studies (LARWQCB, 1997). Much of the data collected as part of the BPTCP had not been reported at the time this document was produced. Consequently, the Cleanup Plan may be revised using results from more recent BPTCP studies presented in this report. In particular, in future versions of the Plan there is an expectation that (1) other sites may be identified as candidate toxic hot spots; (2) potential toxic hot spots will be addressed; (3) cleanup levels may be added to the Cleanup Plan; (4) site rankings may change as new information becomes available. The proposed Regional Toxic Hot Spot Cleanup Plan will be revised and presented to the Regional Water Quality Control Board during late 1998 or early 1999.

Programmatic Background And Needs

This study was implemented through the Bay Protection and Toxic Cleanup Program (BPTCP). Studies were designed, managed, and coordinated by the LARWQCB, and by the SWRCB's Bays and Estuaries Unit as a cooperative effort with the California Department of Fish and Game's (CDFG) Marine Pollution Studies Laboratory. Initial studies in the LA/Long Beach Harbor area were conducted in cooperation with NOAA's Bioeffects Assessment Branch, and funding in these studies was provided by the SWRCB and NOAA's Coastal Ocean Program.

Although the State Water Board and NOAA have common programmatic needs, they are not identical. NOAA is mandated by Congress to conduct a program of research and monitoring on marine pollution. Much of this research is being conducted through the National Status and Trends (NS&T) Program and the Coastal Ocean Program. The NS&T Program performs regional intensive studies of the magnitude and extent of chemical-associated bioeffects in selected coastal embayments and estuaries. The areas chosen for these regional studies are those in which the pollutant concentrations indicate the greatest potential for biological effects. These biological studies augment the regular chemical monitoring activities of the Program, and provide a means of estimating the toxicity associated with measured concentrations of sediment pollutants.

The California Water Code, Division 7, Chapter 5.6, Section 13390, mandates the SWRCB and the LARWQCB to provide the maximum protection of existing and future beneficial uses of bays and estuarine waters and to plan for remedial actions at those identified toxic hot spots where the beneficial uses are being threatened by toxic pollutants. The BPTCP has four major goals: (1) provide protection of present and future beneficial uses of the bay and estuarine waters of California; (2) identify and characterize toxic hot spots; (3) plan for toxic hot spot cleanup or other remedial or mitigation actions; (4) develop prevention and control strategies for toxic pollutants that will prevent creation

of new toxic hot spots or the perpetuation of existing ones within the bays and estuaries of the State.

Field and laboratory work was accomplished under interagency agreement with, and under the direction of, the CDFG. Sample collection, sample processing, and data management were performed by staff of the San Jose State University Foundation at Moss Landing Marine Laboratories (MLML). MLML staff also performed total organic carbon (TOC) and grain size analyses, as well as benthic community analyses. Toxicity testing was conducted by the University of California at Santa Cruz (UCSC) staff at the CDFG toxicity testing laboratory at Granite Canyon, Monterey County. Trace metals analyses were performed by CDFG personnel at the trace metal analytical facility at MLML. Synthetic organic pesticides, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs) were analyzed at the UCSC trace organics analytical facility at Long Marine Laboratory in Santa Cruz.

Study Area

The Los Angeles Region encompasses all coastal drainages flowing to the Pacific Ocean between Rincon Point on the coast of western Ventura County, and the eastern Los Angeles County Line, south to the Orange County Line, as well as drainages of the five coastal islands (Anacapa, San Nocolas, Santa Barbara, Santa Catalina, and Santa Cruz). In addition, the region includes all coastal waters within three miles of the continental and coastal island coastlines.

The enclosed bays, estuaries and coastal waters included in this study are shown in Figure 1. The region contains two large deepwater harbors (Los Angeles and Long Beach Harbors) and one smaller deepwater harbor (Port Hueneme). There are small craft marinas within the harbors, as well as tank farms, naval facilities, fish processing plants, boatyards, and container terminals. Several small craft marinas also occur along the coast (Shoreline Marina, Los Alamitos Bay, Marina del Rey, King Harbor, Channel Islands Harbor, and Ventura Harbor).

Several large, primarily concrete-lined rivers lead to tidal prisms influenced by marine waters (eg., Los Angeles River, San Gabriel River). These seasonal rivers drain large urban areas composed primarily of impermeable surfaces. In addition, several of these tidal prisms receive a considerable amount of freshwater throughout the year from publicly-owned treatment plants. Lagoons are located at the mouths of other rivers and creeks draining relatively undeveloped areas (eg., Mugu Lagoon, Malibu Lagoon, Ventura and Santa Clara River estuaries). There are also a few isolated coastal fresh or brackish water bodies receiving runoff from agricultural or residential areas (eg., McGrath Lake, Colorado Lagoon, Sim's Pond).

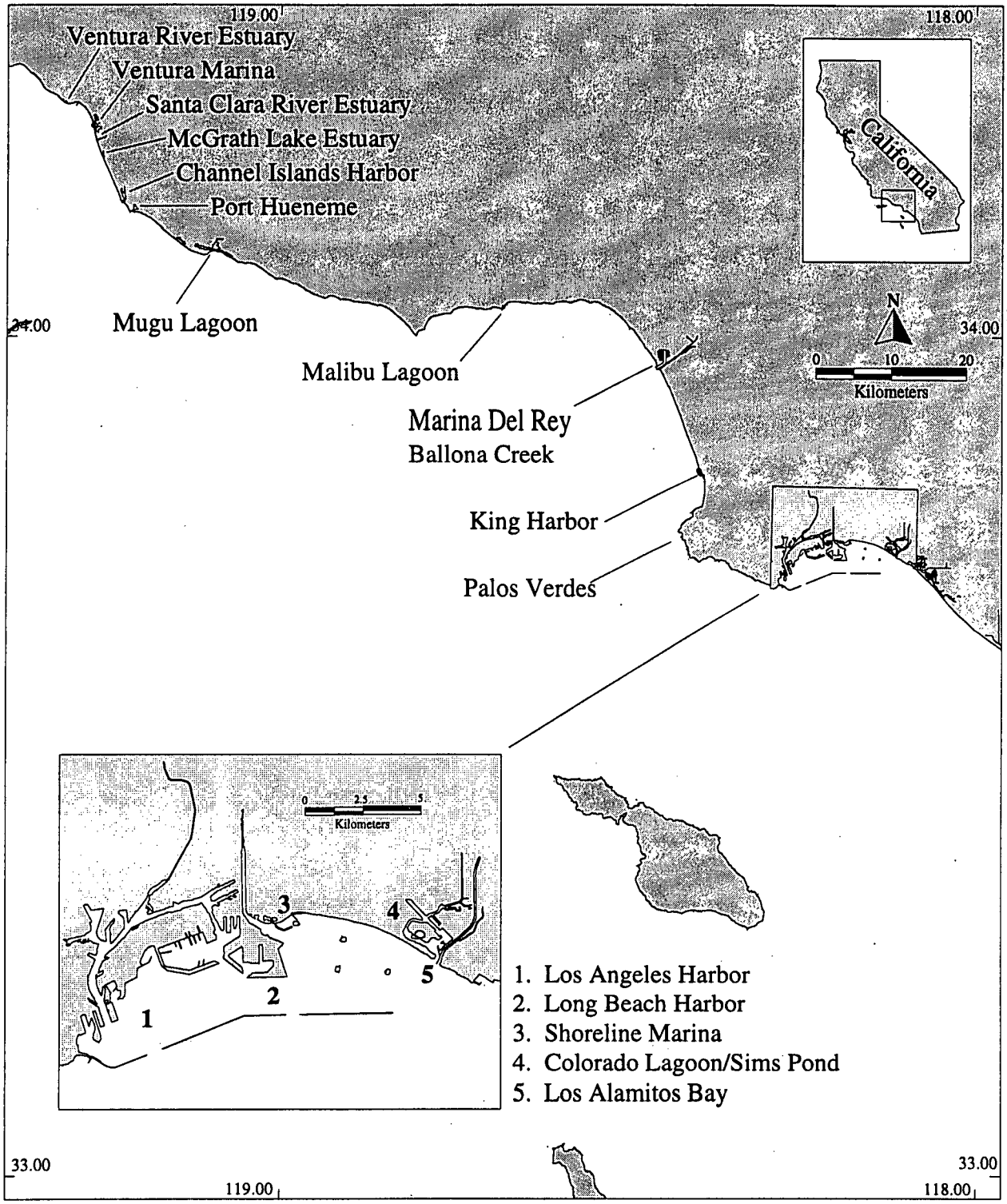


Figure 1. Los Angeles Region Study Area.

Industrial Harbors

Los Angeles and Long Beach Harbors

The Los Angeles and Long Beach Harbors are located in the southeastern portion of the Los Angeles basin. Along the northern portion of San Pedro Bay is a natural embayment formed by a westerly extension of the coastline that contains both harbors, with the Palos Verdes hills the dominant onshore feature. Offshore, a generally low topographic ridge is associated with the eastern flank of the Palos Verdes uplift and adjacent Palos Verdes fault zone, and extends northwest across the San Pedro shelf nearly to the breakwater of the Los Angeles Harbor.

The port and harbor have been modified over the course of more than one hundred years to include construction of breakwaters, landfills, slips and wharves, along with channelization of drainages, dredging of navigation channels, and reclamation of marshland. The inner harbor includes the Main Channel, the East and West Basins, and the East Channel Basin. The outer harbor is the basin area located between Terminal Island and the San Pedro and Middle Breakwaters. Both harbors are considered to be one oceanographic unit, and have a common breakwater across the mouth of San Pedro Bay. The inner harbors are of estuarine character with regards to aquatic life, while the outer harbors reflect the conditions of the coastal marine waters of the Southern California Bight. Ecological preserves in the area include Point Fermin Marine Life Refuge and Seal Beach National Wildlife Refuge (Port of Los Angeles, 1992).

Beneficial uses for outer Los Angeles and Long Beach Harbors listed by the LARWQCB include contact and non-contact water recreation, Navigation, sport fishing, shellfish harvesting, marine habitat, and preservation of rare and endangered species. Beneficial uses for inner Los Angeles and Long Beach Harbors listed by the LARWQCB include contact and non-contact water recreation, navigation, sport fishing, shellfish harvesting, marine habitat, industrial service supply, and rare and endangered species habitat.

Circulation in the outer harbors results from tidal currents, with the general influx through Angels and Queens Gates, the two vessel traffic openings, and outflux at the east end of Long Beach Harbor. Studies have indicated the existence of a large clockwise eddy, or circular current extending east from the Los Angeles Main Channel to the Navy Mole, and another counter clockwise eddy at a depth of 20 feet. These and other minor eddy currents are considered to be partly responsible for relatively good quality water in the outer harbor (Port of Los Angeles, 1992).

Inner harbor circulation fluctuates with tidal flow, with less mixing than in the outer harbor. These patterns result in the greatest flushing rates due to tides occurring at the harbor entrances, Angels Gate, Queens Gate, and east of Freeman Island. The lowest flushing rates are in the Cerritos Channel, Middle Harbor, and Main Channel (Port of Los Angeles, 1992).

Under the influence of the strong currents and rocky habitat of the outer harbor, aquatic life resembles that of the nearby coast, with the inner harbor having biota such as that generally found in bays and estuaries. The inner harbor has a mostly soft bottom character, and supports the expected assortment of infaunal worms, molluscs, and crustacea, epifaunal starfish and sea urchins, and bottom dwelling fish such as halibut. Species common to the hard substrate of the outer harbor, which include the rocky riprap areas, are the blacksmith, kelp bass, señorita, and various surfperches. Both pelagic and epibenthic-demersal fish are common in both the inner and outer harbors, and include anchovy, white croaker, sardine, and queenfish (Port of Los Angeles, 1992).

In general, the outer harbor areas have a greater species diversity and lower density than inner harbor areas, with inner harbor species being more abundant than those in the outer harbor. The changes to the physical environment in the harbor areas have altered the makeup of the biological communities present, with water quality conditions in the inner harbor improving over the last ten years (Port of Los Angeles, 1992). There is currently an extensive stand of giant kelp (*Macrocystis pyrifera*) along both sides of the San Pedro Breakwater, with large brown algae (*Sargassum muticum*) and ribbon kelp (*Egregia menziesii*) also represented. Kelp is an important source of primary production in these waters, and provides both food and habitat for nearshore fish and invertebrates.

The major surface drainages in the area include the Los Angeles River, which flows in a channel and drains parts of the San Fernando Valley into eastern San Pedro Bay at Long Beach. The Dominguez Channel drains the intensely urbanized area west of the Los Angeles River into the Consolidated Slip of the Los Angeles inner harbor, carrying with it mostly urban runoff and nonprocess industrial waste discharges. A major source of both freshwater and waste in the outer harbor is secondary effluent from the Terminal Island Treatment Plant (Port of Los Angeles, 1992). Waste discharges to the inner harbor area of Los Angeles Harbor consist of contact and non-contact industrial cooling waste water, stormwater runoff, fuel spills and oil spills from marine vessel traffic or docking facilities, and drainage from several industrial sites. Several areas of the Los Angeles/Long Beach Harbor complex have been put on the U.S. EPA 303(d) list of impaired water bodies by the LARWQCB: the Dominguez Channel Estuary was listed because beneficial uses are not supported for aquatic life due to sediment pollution and benthic community impairment; Consolidated Slip was listed because beneficial uses are not supported for aquatic life due to sediment pollution and toxicity, benthic community impairment, and bioaccumulation; Southwest Slip was listed due to sediment toxicity; and the Cabrillo Pier area was listed because beneficial uses are not supported for aquatic life due to sediment pollution, sediment toxicity, and bioacummulation of organic chemicals in fish and shellfish tissues.

Sediment studies conducted in the inner and outer LA and Long Beach Harbors include ongoing monitoring of chemistry and benthic community structure at the Terminal Island Sewage Treatment Plant. Sediment chemistry is monitored by the Ports of Los Angeles and Long Beach as part of channel deepening projects, maintenance dredging, and construction of new facilities. In addition to these monitoring programs, the State Mussel

Watch Program conducts routine bioaccumulation monitoring studies at selected stations in the LA and Long Beach Harbors.

Port Hueneme

Port Hueneme is a medium-sized deepwater harbor located in Ventura County, north of Mugu Lagoon. The total size of the harbor is 121 acres. Part of it was operated by a U.S. Navy Construction Battalion, which is now closed, while the rest of the harbor serves as a commercial port operated by the Oxnard Harbor District. The construction of a majority of the harbor was completed in 1975. The commercial side generally serves ocean-going cargo vessels and oil supply boats; the latter serves the oil platforms in the Santa Barbara Channel. The LARWQCB listed the harbor's beneficial uses as process water supply, contact and noncontact water recreation, navigation, marine habitat, and commercial fishing. Two endangered bird species may use the harbor, the California brown pelican and the California least tern.

Sediment core samples analyzed in 1985 as part of a proposed dredge project indicated relatively low levels of metals, with pesticides below the analytical detection limits (LARWQCB, 1995). Few other sources of information exist on water quality in the port outside of work conducted by the State Mussel Watch (SMW). Recent PAH analyses of transplanted mussels conducted by the SMW program have indicated high levels on both the commercial and Navy sides of the harbor. In addition, this study detected elevated zinc and PCBs on the commercial and Navy sides of the port, respectively. A 1988 SMW TBT study revealed elevated levels of TBT in oyster and mussel tissue, moderately high water column levels, and low mortality with some chambering or stunting. In terms of pollutant concentrations and their effects, this harbor is the least well studied in the Los Angeles Region (LARWQCB, 1995). Port Hueneme has been put on the U.S. EPA 303(d) list of impaired water bodies by the LARWQCB because beneficial uses are not supported for aquatic life due to sediment pollution and toxicity.

Marinas

Shoreline Marina

Shoreline Marina was constructed in the late 1970s near the entrance of Queensway Bay, just east of the Port of Long Beach. The marina is primarily a small craft harbor. It also serves as a fish nursery and bird foraging area.

Limited sediment quality data are available from Regional Board sediment sampling in 1988, and a State Board report on TBT pollution. Regional Board sediment sampling indicated levels of lead and zinc were somewhat elevated (up to 91 and 130 ppm, respectively). This is likely a reflection of the proximity of the marina to the mouth of the Los Angeles River which drains into Queensway Bay. The State Board report indicated elevated water levels of TBT (up to 150 PPT), but only trace amounts of TBT were in the sediment. DBT and MBT, however, were found at high levels in the sediment. There are a

large number of recreational craft berthed in the marina and leaching of their antifouling paints are the likely source of the TBT.

The beneficial uses of the marina are: noncontact water recreation, preservation of rare and endangered species, and marine habitat. The toxic hot spot status of Shoreline Marina is currently unknown due to scarcity of available data. The marina is not listed separately in the Water Quality Assessment and may be considered part of Queensway Bay.

Alamitos Bay

Alamitos Bay is composed of a variety of subareas: the Marine Stadium, a recreation facility built in 1932 and used for boating, water skiing, and jet skiing; Long Beach Marina, which contains five smaller basins for recreational craft and a boatyard; a variety of public and private berths; and the Bay proper which includes several small canals, a bathing beach, and several popular clamming areas. The Bay and marina serve as a fish nursery and bird foraging area. Additional beneficial uses identified by the LARWQCB include contact and noncontact water recreation, commercial and sportfishing for fish and shellfish, and habitat for rare and endangered species. The total acreage of Alamitos Bay is 285 acres.

The Bay receives nonpoint source runoff from a number of storm drains in addition to leaching of boat paint (LARWQCB, 1995). The Bay receives flow via the Marine Stadium, from Los Cerritos Channel, and a flood control structure that drains a large portion of the adjacent cities of east Long Beach, Lakewood, and Bellflower.

A limited amount of recent contamination data is available for the Bay. State Mussel Watch stations sampled in the mid-1980s revealed slightly elevated levels of zinc, cadmium, TBT, and PCBs. A 1986 statewide study found moderately elevated levels of TBT in the water column (as high as 93 ppt) as well as moderately elevated levels in the sediment (up to 540 ppb; LARWQCB, 1995). Regional Board sediment sampling conducted in 1988 found moderately elevated levels of lead and zinc (up to 59 and 110 ppm, respectively) in the Long Beach Marina portion of the Bay (LARWQCB, 1995).

The Los Cerritos Channel tidal prism starts at Anaheim Road and connects with Alamitos Bay through the Marine Stadium; the wetland connects to the Channel a short distance from the lower end of the Channel. The wetlands, and portion of the channel near the wetlands, is an overwintering site for a great diversity of birds (up to 50 species) despite its small size. An endangered bird species, the Belding's Savannah Sparrow, may nest there and an area adjacent to the wetlands is a historic least tern colony site. One small marina is located in the channel that is also used by rowing teams and is a popular fishing area.

State Mussel Watch stations surveyed in the mid-1980s in Los Cerritos Channel showed somewhat elevated levels of chlordane and PCBs, and sediment analyses from dredging projects indicated moderately elevated levels of arsenic, chromium, copper, and zinc (LARWQCB, 1995). The Los Cerritos Channel has been put on the U.S. EPA 303(d) list

of impaired water bodies by the LARWQCB due to elevated ammonia, sediment contamination, and elevated coliform levels.

King Harbor

King Harbor is located in southern Santa Monica Bay in the city of Redondo Beach. Construction of the harbor initially began in 1937; however, an effective breakwater was not built until the 1950s and inner harbor areas were not developed into their current basin formation until the 1960s. It is primarily a small craft harbor approximately 90 acres in size.

The harbor is utilized by a diverse array of marine flora and fauna and is also a resting and feeding habitat for many species of marine birds. A generating station located near the harbor both takes in and discharges water at the harbor, thus providing some cycling within the waterbody. The harbor's location at the mouth of the Redondo Submarine Canyon creates upwelling of nutrient-rich water into the harbor during the summer. The beneficial uses of the harbor listed by the LARWQCB include industrial service supply, noncontact water recreation, commercial and sportfishing, protection of rare and endangered species, and marine habitat.

As part of biennial surveys conducted by the Southern California Edison-Redondo Beach Generating Station (SCE), data on sediment chemistry (metals Cr, Cu, Ni, and Zn), benthic community structure, and bioaccumulation are collected. Most of the SCE monitoring stations are concentrated in what might be considered the "outer harbor" where the discharge occurs. Sediment chemistry concentrations were relatively low in 1990. Tissue concentrations of these metals were also quite low with the exception of slightly elevated zinc levels. Infaunal and nekton communities were found to be undegraded (LARWQCB, 1995).

LARWQCB sediment sampling conducted in 1988 in Basins 1 and 2 found moderately elevated copper and zinc levels. SMW sampling conducted in 1987 found elevated levels of both copper and zinc (172 and 682 ppm, respectively) at a station located near the boatyard in Basin 1. Low levels of organic chemical compounds were found in the 1987 SMW survey.

The surface water microlayer was sampled and analyzed by Southern California Coastal Water Research Project (SCCWRP) in 1986, and low concentrations of most metals were found in both the dissolved and particulate fractions of the samples. Both copper and zinc, however, were found at over 1 ppm in the dissolved fraction. DDE was found at 26 ppb, along with moderately elevated levels of PAHs (dominated by high molecular weight PAHs, indicating combustion as the major source). Results of a microlayer toxicity test indicated about one-third of the larval kelp bass experienced mortality in the sample and about 50% showed various abnormalities. The toxicity and abnormalities, however, did not appear to be linked to any measured pollutant concentration (Cross et al., 1987).

In a 1988 TBT study conducted by Fish and Game, moderate oyster mortality was discovered in oysters transplanted into Basin 1; those that survived showed stunted shell growth (LARWQCB, 1995). TBT water levels ranged from moderate to high (up to 140 ppt). Oyster tissue levels (420 ppb) were an order of magnitude lower than the mussel tissue levels (6.2 ppm).

Marina Del Rey

Marina Del Rey harbor was created in the early 1960s from part of Ballona Wetlands. The present Mother's Beach in Basin D was created on the site of the former Lake Los Angeles. Flushing and circulation in the 354-acre harbor tends to be poor. The harbor is considered a fish nursery and a likely least tern foraging site for the Venice Beach nesting colony. The harbor contains many species common to shallow-water embayments (Soule et al., 1997). The beneficial uses of most of the harbor include contact and noncontact water recreation, commercial fishing, preservation of rare and endangered species, marine habitat, and shellfish harvesting.

Several storm drains lead into the back basins, and a large flood control channel, Ballona Creek, drains near the harbor mouth. Approximately 6000 pleasure craft are berthed in the harbor at any one time, the majority of which are scraped or sanded while in the water to remove fouling organisms and renew bottom paint. One large and one small boatyard are located in the harbor. The former Ballona wetland was apparently the site of occasional dumping and some of the effects of this practice may still persist. The former Dow Chemical plant site may also be leaching some contaminants into the Venice Canals that drain into the entrance channel.

A considerable number of studies have been conducted in the harbor, mainly by the SMW program, and Dr. Dorothy Soule, who is associated with USC. The latest report on harbor monitoring (1997) indicates some increased PCB inputs may be occurring, possibly from release of historic polluted soil from construction sites during storms (Soule et al., 1997). Earlier investigations into sediment contamination suggested that Ballona Creek is a major source of pollutants to the harbor; however, the heaviest pollution within the marina proper was in the back basins. Metals pollution was increasing, and some pesticide concentrations were also increasing. Studies conducted in 1987 included investigation of sediment toxicity (Soule et al., 1997). No acute toxicity was found but there was some indication of chronic toxicity. Parts of the marina water column were found to be highly polluted with TBT. Levels of sediment pollutants were correlated with benthic impacts (Soule et al., 1997). There are likely a variety of sources of pollutants in Marina Del Rey including storm drains and anti-fouling paints. SMW results show a gradient in pollution with concentrations increasing towards the back of the marina. Both Cu and Zn concentrations tend to be high in the back basins (LARWQCB, 1995). A SWRCB-CDFG TBT study conducted in 1988 found high levels of TBT in oysters and mussels, high levels in the water column particularly in the back basins, and high mortality or stunting of growth in transplanted oysters (LARWQCB, 1995). Marina Del Rey has been put on the U.S. EPA 303(d) list of

impaired water bodies by the LARWQCB due to sediment pollution and toxicity, and bioaccumulation of chemicals in shellfish tissue.

Ventura Marina:

Ventura Marina is a small craft harbor located between the mouths of the Ventura and Santa Clara Rivers. It is home to numerous small boats and two boatyards. The "Ventura Keys" area of the marina is a residential area situated along three canals. The marina is surrounded by agricultural land and a large unlined ditch drains into the Keys area. Since the marina is between the mouths of two rivers which discharge large sediment loads from their relatively undeveloped watersheds, the marina has a constant problem with sedimentation in the entrance.

The marina's beneficial uses are: industrial service supply, navigation, contact and noncontact water recreation, commercial and sportfishing, marine habitat, wildlife habitat, and shellfish harvesting. The Keys beneficial uses are the same with the exception of shellfish harvesting and industrial service supply.

The Ventura Harbor complex includes approximately 50 acres of open water area and approximately 70 acres of mooring areas. Approximately 1500 craft, including 10 sport fishing and 73 commercial fishing vessels, are moored in Ventura Harbor. A commercial fish processing facility, offshore oil drilling support facility and headquarters for the Channel Islands National Park are based at Ventura Harbor. Two boat launching ramps for public use are provided in the harbor.

Ventura Harbor has been put on the U.S. EPA 303(d) list of impaired water bodies by the LARWQCB due to elevated coliform concentrations.

Channel Islands Harbor

Channel Islands Harbor is a recreational boating marina located south of the Santa Clara River. Beneficial uses of the harbor include contact and noncontact water recreation, navigation, commercial and sportfishing, and marine habitat, and industrial service supply. Adjacent land uses include urban developments and agriculture land. The inlet canal to the Southern California Edison Ormond Beach power plant is located at the north end of the harbor.

SMW surveys from the early and mid-1980s revealed low to intermediate levels of metals and organic chemical compounds (LARWQCB, 1995). One exception occurred in 1986 when transplanted mussels accumulated 2 ppm of total DDT. Sediment sampling for metals conducted by Regional Board staff in 1988 revealed slightly to moderately elevated levels (LARWQCB, 1995). A 1986 State Board-CDFG study of TBT contamination in harbors revealed elevated levels of TBT in the water column and moderately elevated levels in the sediment (LARWQCB, 1995).

Lagoons and River Mouths

Malibu Lagoon

Malibu Lagoon is a coastal wetland located on the northern end of Santa Monica Bay. Total acreage of estuarine open water, tidal channels and wetlands is estimated to be 29 acres. Owned by the California Department of Parks and Recreation, the lagoon is operated as a state park for wildlife habitat and passive recreation. Like most coastal wetlands, the lagoon provides habitat for several threatened or endangered bird species, as well as spawning and nursery ground habitat for marine and estuarine vertebrate and invertebrate species. Freshwater flow into the lagoon is dominated by Malibu Creek and treated wastewater discharges. Malibu Creek is considered to be the southernmost range of the endangered steelhead trout. The watershed area is approximately 109 square miles (CERES, 1998). In addition to Malibu Creek, inputs include runoff from residential development of Malibu Colony, a golf course, the Pacific Coast Highway, and commercial developments to the north. Malibu Lagoon has been put on the U.S. EPA 303(d) list of impaired water bodies by the LARWQCB due to bioaccumulation of chemicals in shellfish tissue, degraded benthic community, elevated coliforms, and excessive fresh water.

Mugu Lagoon

Mugu Lagoon is a 1500-acre coastal lagoon located approximately 40 miles north of Santa Monica Bay. This lagoon is one of the few remaining salt marshes in southern California along the Pacific Flyway. The peregrine falcon, least tern, light-footed clapper rail, and brown pelican are examples of threatened and endangered species that are supported by habitats within Mugu Lagoon. In addition to providing one of the few remaining habitats on the mainland for harbor seals to pup, Mugu Lagoon is a nursery ground for many marine fish and mammals.

Mugu Lagoon is the receiving water body for the Calleguas Creek watershed as well as the agricultural fields of the Oxnard plain. The lagoon borders on an Area of Special Biological Significance and supports a great diversity of wildlife. The Point Mugu Naval Air Base is also located in the immediate vicinity of the lagoon. Calleguas Creek and its major tributaries (Revolon Slough, Conejo Creek, Arroyo Creek, Arroyo Santa Rosa, and Arroyo Simi) drain an area of 343 square miles in southern Ventura County and a small portion of western Los Angeles County. Due to high erosion rates in the watershed and considerable channelization of Calleguas Creek, sedimentation rates are high enough in the watershed that the lagoon could be filled with sediment within 50 years (LARWQCB, 1997).

The Eastern Arm of the lagoon is somewhat removed from the rest of the lagoon and tends to receive water from and drain directly into the lagoon mouth. The water tends to be marine in character the majority of time. The western arm has slower water flow and has the most widespread freshwater influence during wet weather, receiving water from

several drains. The Main lagoon is affected primarily by Calleguas Creek, which carries a considerable amount of water during storms, although this flow is generally funneled into a channel that flows to the lagoon mouth.

Previous monitoring of Mugu Lagoon has identified the following problems: (1) impaired reproduction in the light-footed clapper rail due to elevated levels of DDT and PCBs; (2) fish and shell fishtissue levels which exceeded the National Academy of Sciences guidelines for several pesticides; (3) possible exceedances of U.S. EPA water quality criteria for several metals (nickel, copper, and zinc); (4) possible impacts to sediment and water quality, as well as aquatic community health, from operations at the Naval Air Base. Several banned pesticides continue to be found in high concentrations in the lagoon's sediments and biota (LARWQCB, 1997). Mugu Lagoon has been put on the U.S. EPA 303(d) list of impaired water bodies by the LARWQCB due to sediment pollution, bioaccumulation of chemicals in shellfish tissue, impaired bird reproduction, and excessive sediment. The Calleguas Creek Estuary has been listed due to sediment pollution, water column toxicity, and excessive nitrates, ammonia, and turbidity.

McGrath Lake

McGrath Lake is a 40-acre lake within McGrath State Beach and is owned by the California State Parks and Recreation Department. The area is managed for low intensity uses such as hiking and nature observation. Adjacent uses include oil-related facilities to the north and a power plant to the south. To the east are park land and agricultural fields. A public beach is immediately adjacent to the west end of the lake. There is no ocean outlet to the lake but waves occasionally overwash the beach berm. Water is pumped from the lake to the ocean throughout most of the year to maintain a lower lake level and avoid flooding of upstream agriculture fields. In addition, the Lake is breeched intermittently at the southern edge during the wet season to prevent flooding of adjacent agriculture fields. Water sources to the lake include fresh and seawater groundwater seepage, and irrigation water runoff. McGrath Lake was included in the LARWQCB 1996 list of 303(d) impaired water bodies due to sediment pollution (elevated pesticides) and toxicity. The site was polluted in 1993 when a ruptured pipeline released nearly 80,000 gallons of crude oil into an agricultural ditch that drains into the lake. The McGrath Lake Trustee Council currently is developing a management plan for remediation and restoration of the lake habitat and beneficial uses.

Ventura River Estuary

Ventura River Estuary lies directly to the west of the city of Ventura and is owned by the city and the California Department of Parks and Recreation. The estuary comprises approximately 10 acres. The total area of the Ventura River watershed is 226 square miles. The site is crossed by Highway 101, a city street, Southern Pacific Railroad tracks, and oil and gas pipelines. In addition to the river and its tributaries, inputs into the estuary include urban and agricultural runoff. Adjacent land uses include the Ventura County Fairgrounds, the city of Ventura, and agricultural lands to the northwest. There is

also an RV park and State Park to the west of the estuary. The estuary is normally subject to tidal influence but in low flow periods a beach berm restricts tidal flow for short periods of time. The LARWQCB listed this site as an impaired water body under Section 303 (d) due to eutrophication and elevated levels of DDT in fish and shellfish tissue.

Colorado Lagoon

Colorado Lagoon is a 13-acre saltwater influenced man-made water body created by dredging a mudflat. The lagoon is connected by a tidegate to Alamitos Bay through the Marine Stadium. The gate is left open during the winter and is closed at times during the summer to retain enough water in the Lagoon for swimming, which is allowed in the west arm of the Lagoon. Nonpoint source runoff enters the Lagoon from six storm drains. The Lagoon was once a popular clamming site and apparently still supports a considerable number of cherrystone clams. Additional beneficial uses listed by the LARWQCB include contact and noncontact water recreation, commercial and sportfishing, habitat for rare and endangered species, and marine habitat.

SMW data from the mid-1980s and tissue sampling of clams and mussels conducted by the Long Beach Health Department indicated lead levels were as high as 15.8 ppm in resident clams, presumably from street runoff. Resident mussels collected in 1985 contained 19 ppm lead while mussels transplanted into the Lagoon during 1986 accumulated 18 ppm lead. No other metals were elevated. Total chlordane and DDT were initially high but by 1986 had dropped (~300 ppb for each; LARWQCB, 1995). Colorado Lagoon has been put on the U.S. EPA 303(d) list of impaired water bodies by the LARWQCB due to sediment pollution and toxicity, and bioaccumulation of chemicals in shellfish tissue.

METHODS

Sampling for the Los Angeles Region Bay Protection and Toxic Cleanup Program was conducted in 20 separate sampling periods (called Legs) conducted over a five year period from July 30, 1992 through August 22, 1997 (Table 1). In general, the BPTCP monitoring strategy was designed to proceed in two phases with an initial screening phase followed by confirmation studies. Screening studies typically consisted of some component(s) of the Sediment Quality Triad (Toxicity, Chemistry, and/or Benthic Analyses after Chapman et al., 1987), and confirmation studies were designed to include all components of the Triad, as warranted. Confirmation studies also included bioaccumulation studies at particular stations where the chemicals of concern warranted these analyses. The initial Legs of the Los Angeles Region monitoring (Legs 1-4) were conducted as a cooperative monitoring study between the BPTCP and the NOAA Status and Trends program, as described above. Several of the Los Angeles Region sampling Legs consisted solely of toxicity monitoring at reference sites in Los Angeles and Long Beach Harbors for comparison to toxicity of San Diego Bay sediments (eg., Legs 19, 20, 22, and 23). Later Legs combined screening surveys in water bodies not recently monitored, confirmation studies at stations previously demonstrating toxicity or high chemistry, and in some cases, surveys to locate appropriate reference sites for inclusion in reference envelope determinations (as discussed below).

Sample Site Selection

The Magellan Global Positioning System and reference photographs were used to precisely locate sampling stations. In general, individual sampling locations consisted of three field replicates, referred to as stations, with each station located approximately 100 to 200 meters apart at the points of a triangle centered over the site. In some cases, more detailed information on spatial distributions of chemical pollution and toxicity were required for individual stations. In this case, additional field replicates were sampled around one of the points of the triangle. These were located 50 meters apart.

More intensive sampling was conducted in the Consolidated Slip area in order to determine both the horizontal and vertical extent of chemical contamination and associated toxicity. Thus, in addition to multiple field replicates at several stations in this area, samples were also collected at deeper sediment depths in addition to the 2 cm surficial samples collected at the majority of BPTCP sampling sites. The collection methods for these deeper samples are described in the following section.

In some cases, particularly in later sampling Legs, no field replication was included in the sampling design. In this report, unless otherwise stated, all stations are treated separately for discussion of spatial distribution of chemical pollution and bioeffects. Areal extent of pollution and bioeffects around a particular site are inferred from field replicate data only when sufficient information is available.

The sampling sites were selected to provide a broad representation of conditions and general trends throughout the study area resulting from various pollution sources. Only areas having relatively fine-grained (greater than 30 percent fines) sediments were sampled. Potential reference sites were interspersed in the inner and outer industrial harbors, marinas, and lagoons. Stations sampled in the Industrial Harbors, Marinas, and Lagoons are shown in Figures 2-9.

Sampling Methods

Summary of Methods

This section describes specific techniques used for collecting and processing samples. Because collection of sediments influences the results of all subsequent laboratory and data analyses, it is important that samples be collected in a consistent and conventionally acceptable manner. Field and laboratory technicians were trained to conduct a wide variety of activities using the accepted procedures of EMAP (Weisberg, 1990), NS&T (NOAA, 1991), and ASTM (1992) to ensure comparability in sample collection among crews and across geographic areas.

Cleaning Procedures

All sampling equipment (i.e., containers, container liners, scoops, water collection bottles) was made from non-contaminating materials and was precleaned and packaged protectively prior to entering the field. Sample collection gear and samples were handled only by personnel wearing non-contaminating polyethylene gloves. All sample collection equipment (excluding the sediment sampler) was cleaned by using the following sequential process: two-day soak and wash in Micro detergent, three tap-water rinses, three deionized water rinses, a three-day soak in 10% HCl, three ASTM Type II Milli-Q water rinses, air dry, three petroleum ether rinses, and air dry.

All cleaning after the Micro detergent step was performed in a positive pressure "clean" room to prevent airborne contaminants from contacting sample collection equipment. Air supplied to the clean room was filtered.

The sediment sampler was cleaned prior to entering the field, and between sampling stations, using the following steps: a vigorous Micro detergent wash and scrub, a sea-water rinse, a 10% HCl rinse, and a methanol rinse. The sediment sampler was scrubbed with seawater between successive deployments at the same station to remove adhering sediments from contact surfaces possibly originating below the sampled layer.
Sample storage containers were cleaned in accordance with the type of analysis to be performed upon its contents. All containers were cleaned in a positive pressure "clean" room with filtered air to prevent airborne contaminants from contacting sample storage containers.

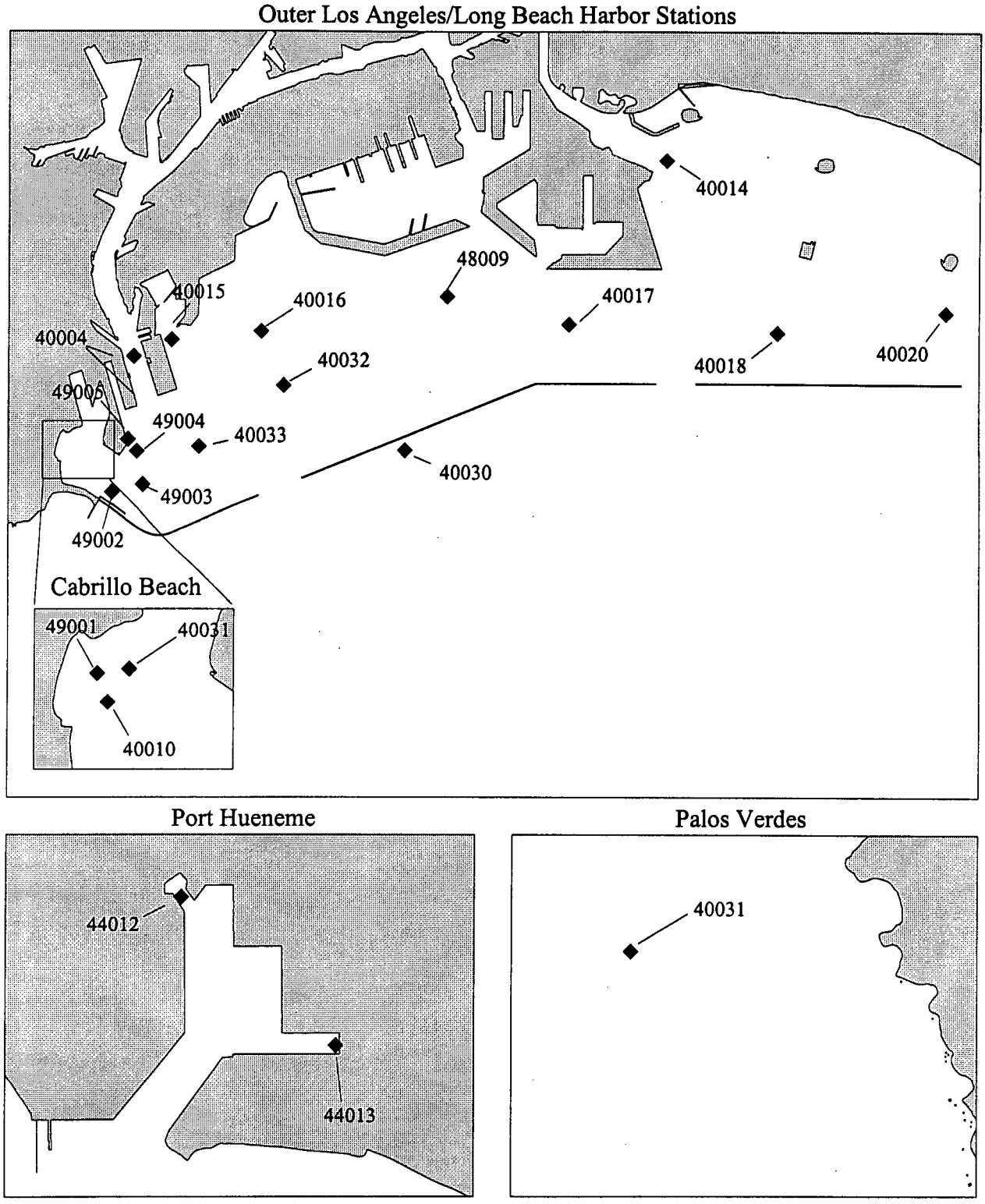
Plastic containers (HDPE or TFE) for trace metal analysis media (sediment, archive

sediment, pore water) were cleaned by: a two-day Micro detergent soak, three tap-water rinses, three deionized water rinses, a three-day soak in 10% HCl or HNO, three Type II Milli-Q water rinses, and air dried.

Glass containers for total organic carbon, grain size or synthetic organic analysis media (sediment, archive sediment, pore water, and subsurface water) and additional teflon sheeting cap-liners were cleaned by: a two-day Micro detergent soak, three tap-water rinses, three deionized water rinses, a three-day soak in 10% HCl or HNO, three Type II Milli-Q water rinses, air dry, three petroleum ether rinses, and air dry.

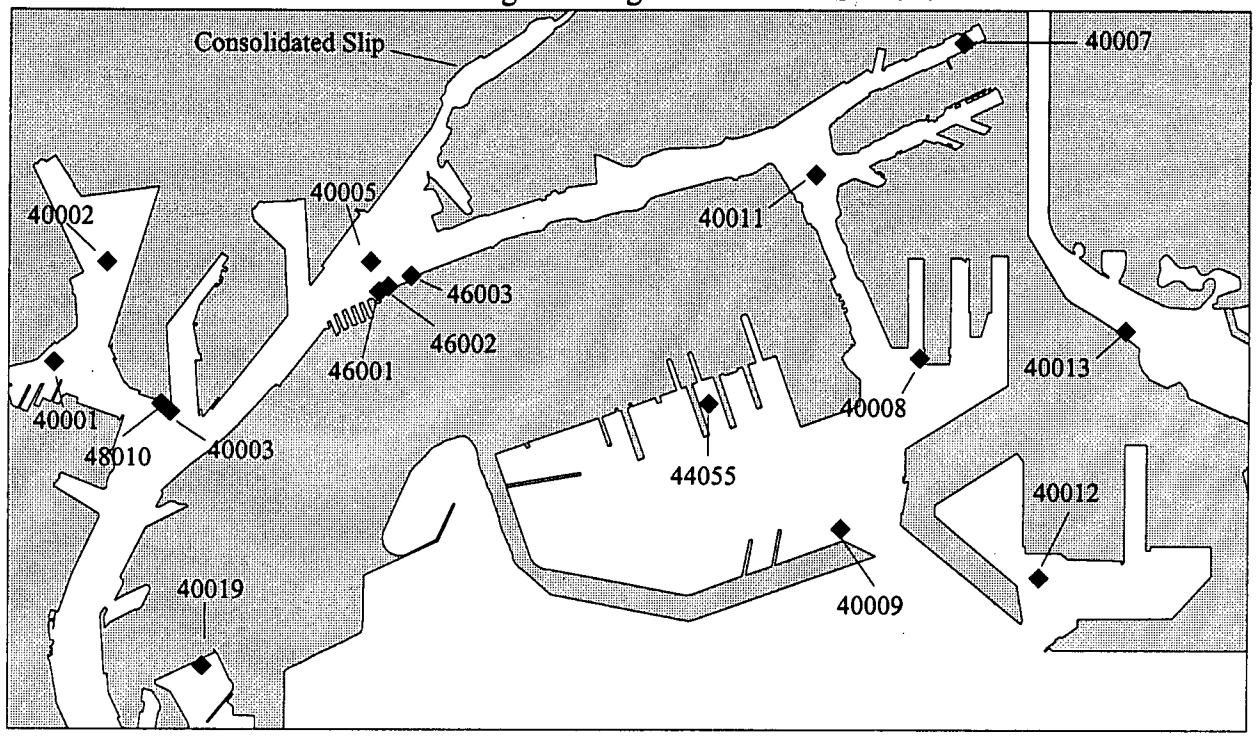
Table 1. Descriptions of samples collected as part of BPTCP/NOAA monitoring in the Los Angeles Region.

Sampling Leg	Sampling Date	Sampling Locations and Descriptions
1	7/30/92	LA and Long Beach Harbors and vicinity screening
2	8/19/92	LA and Long Beach Harbors and vicinity screening
3	9/10/92	LA and Long Beach Harbors and vicinity screening
4	9/15/92	LA and Long Beach Harbors and vicinity screening
11	1/15/93	Northern LA County sites screening
13	2/10/93	Ventura River Lagoon screening
18	5/7/93	LA Harbor screening
19	5/28/93	LA Harbor Reference stations for San Diego Bay study
20	6/18/93	LA Harbor Reference stations for San Diego Bay study
22	8/3-5/93	LA Harbor Reference stations for San Diego Bay study
23	8/17-19/93	LA Harbor Reference stations for San Diego Bay study
25	2/3/94	LA and Long Beach Harbors and vicinity confirmation
26	2/14/94	LA and Long Beach Harbors and vicinity confirmation
30	4/18/94	LA Harbor confirmation, Mugu Lagoon, McGrath Lake screening
32	5/22/94	LA Harbor Reference stations for San Diego Bay study
45	6/24/96	LA Harbor confirmation, Mugu Lagoon, McGrath Lake confirmation Port Hueneme, Shoreline Marina, Marina Del Rey Screening
46	7/22/96	Consolidated Slip confirmation and areal extent
48	2/10/97	LA, Long Beach Harbor and marina reference stations survey #1. Marina Del Rey, Shoreline Marina, King Harbor, Mugu Lagoon confirmation
53	5/12/97	LA, Long Beach Harbor and marina reference stations survey #2. Cabrillo Pier confirmation and bioaccumulation study.
54	8/22/97	Kaiser Pier screening

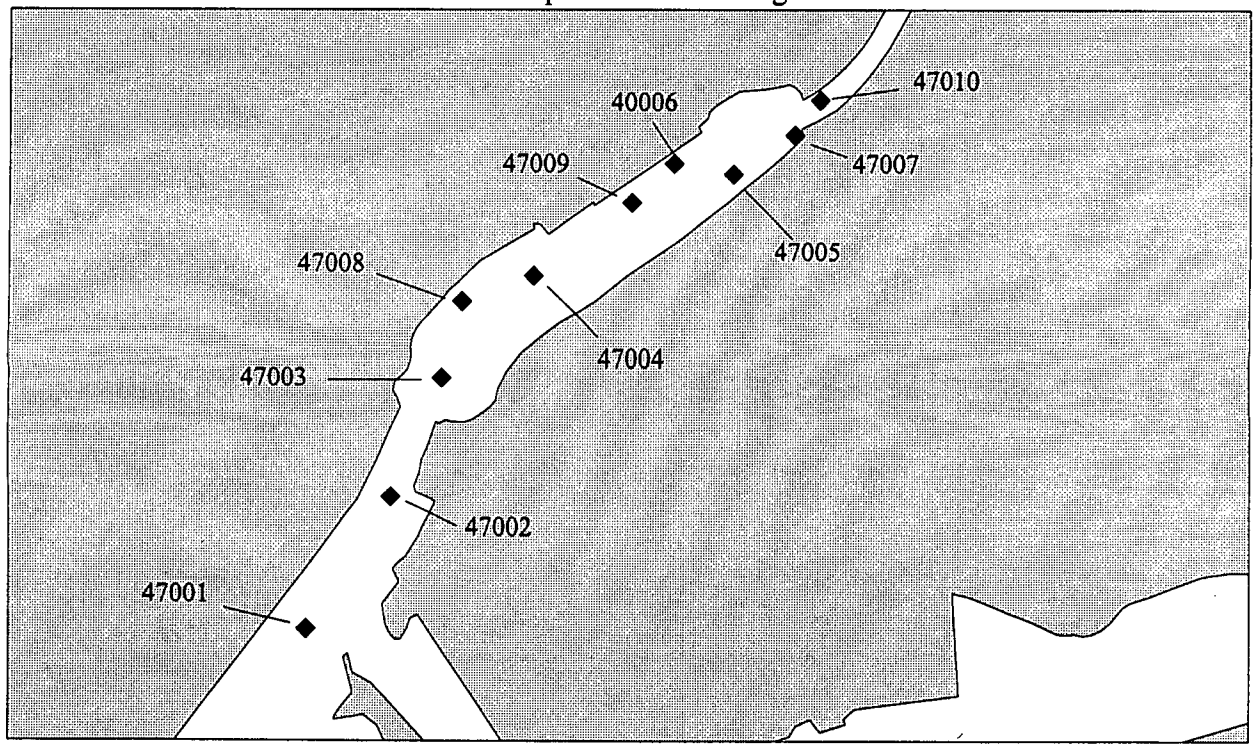


Figures 2a, 2b, and 2c. Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c) Sampling Stations.

Inner Los Angeles/Long Beach Harbor Stations

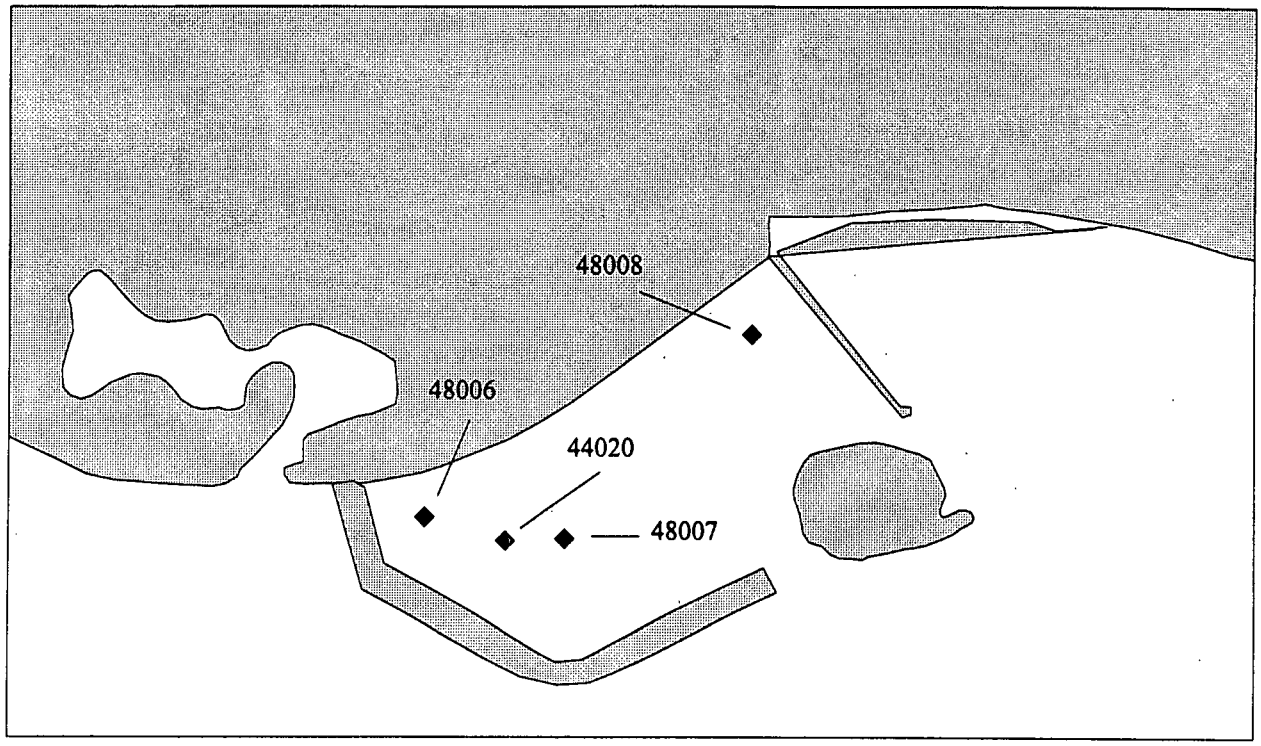


Consolidated Slip of Inner Los Angeles Harbor

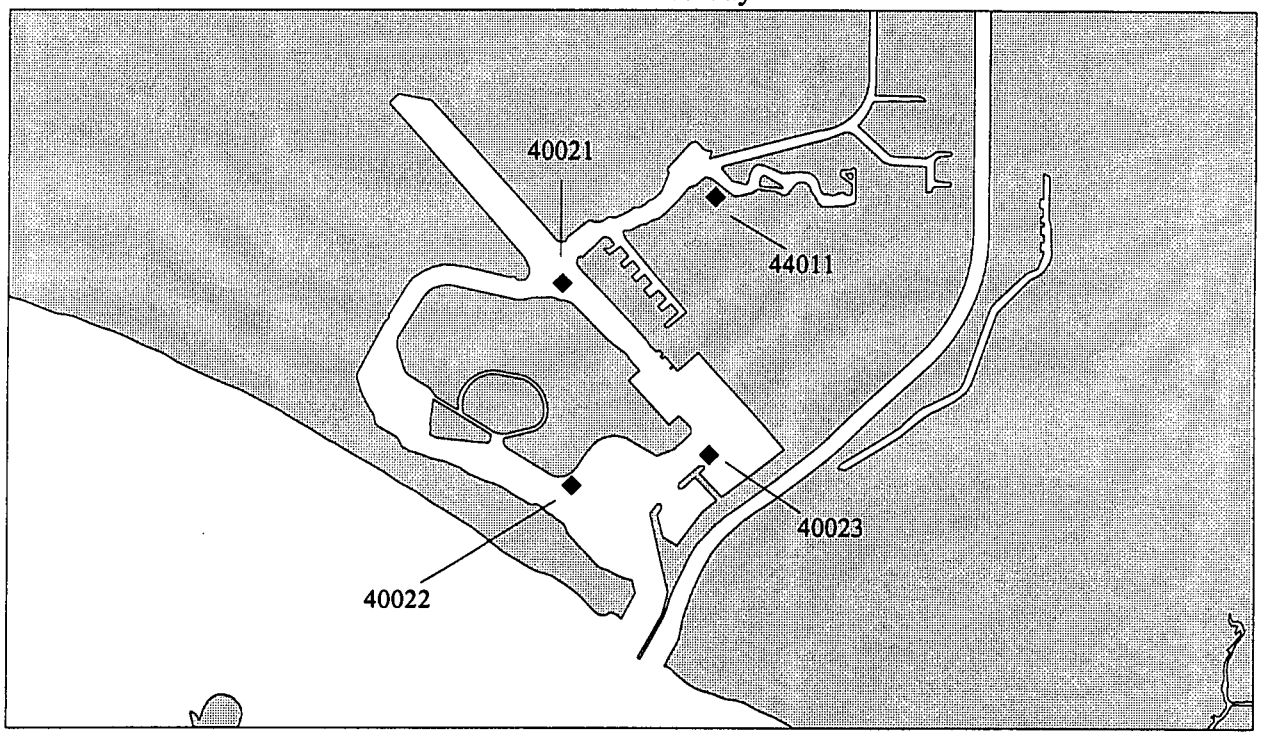


Figures 3a and 3b. Inner Los Angeles and Long Beach Harbor (a) and Consolidated Slip (b) Sampling Stations.

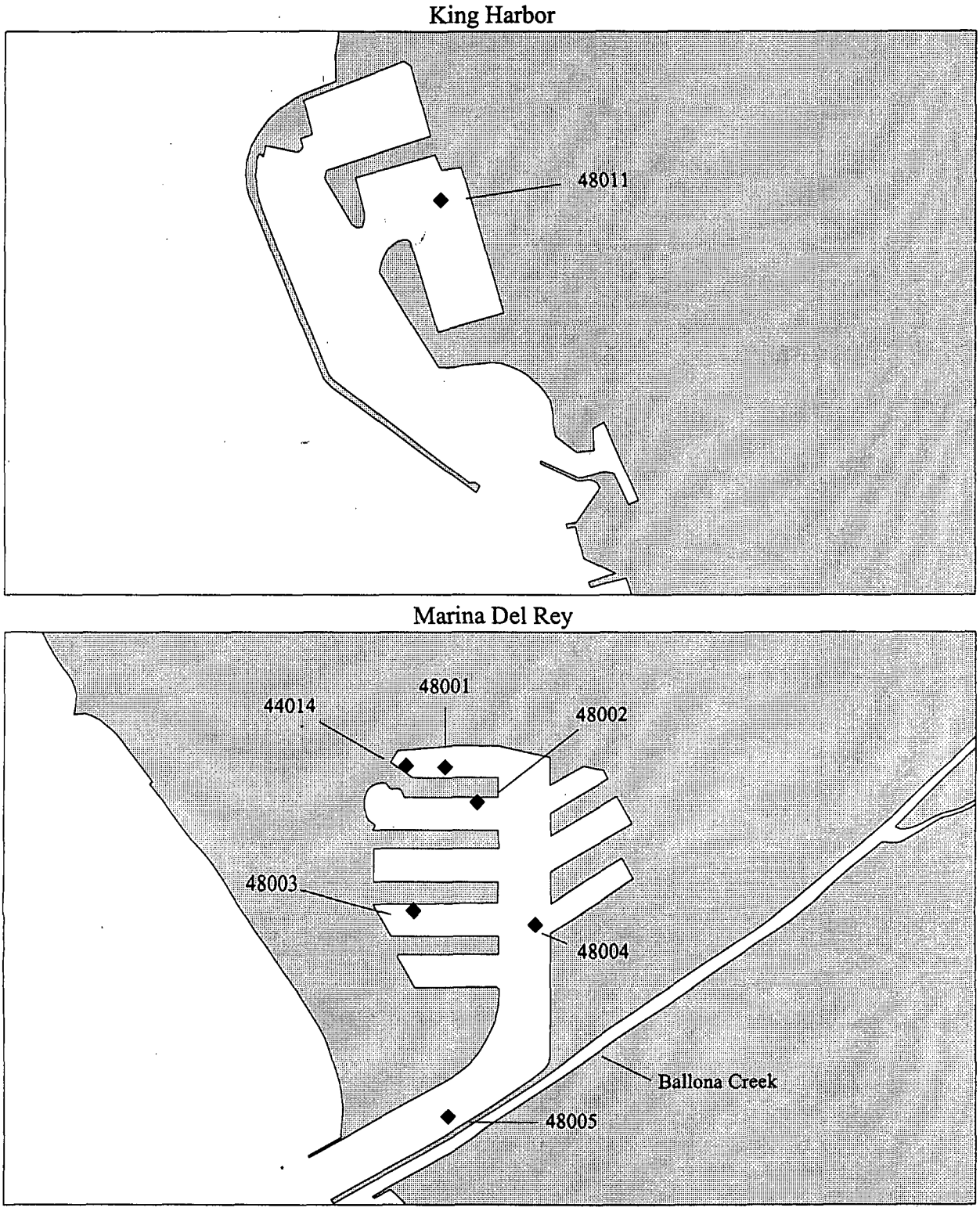
Shoreline Marina



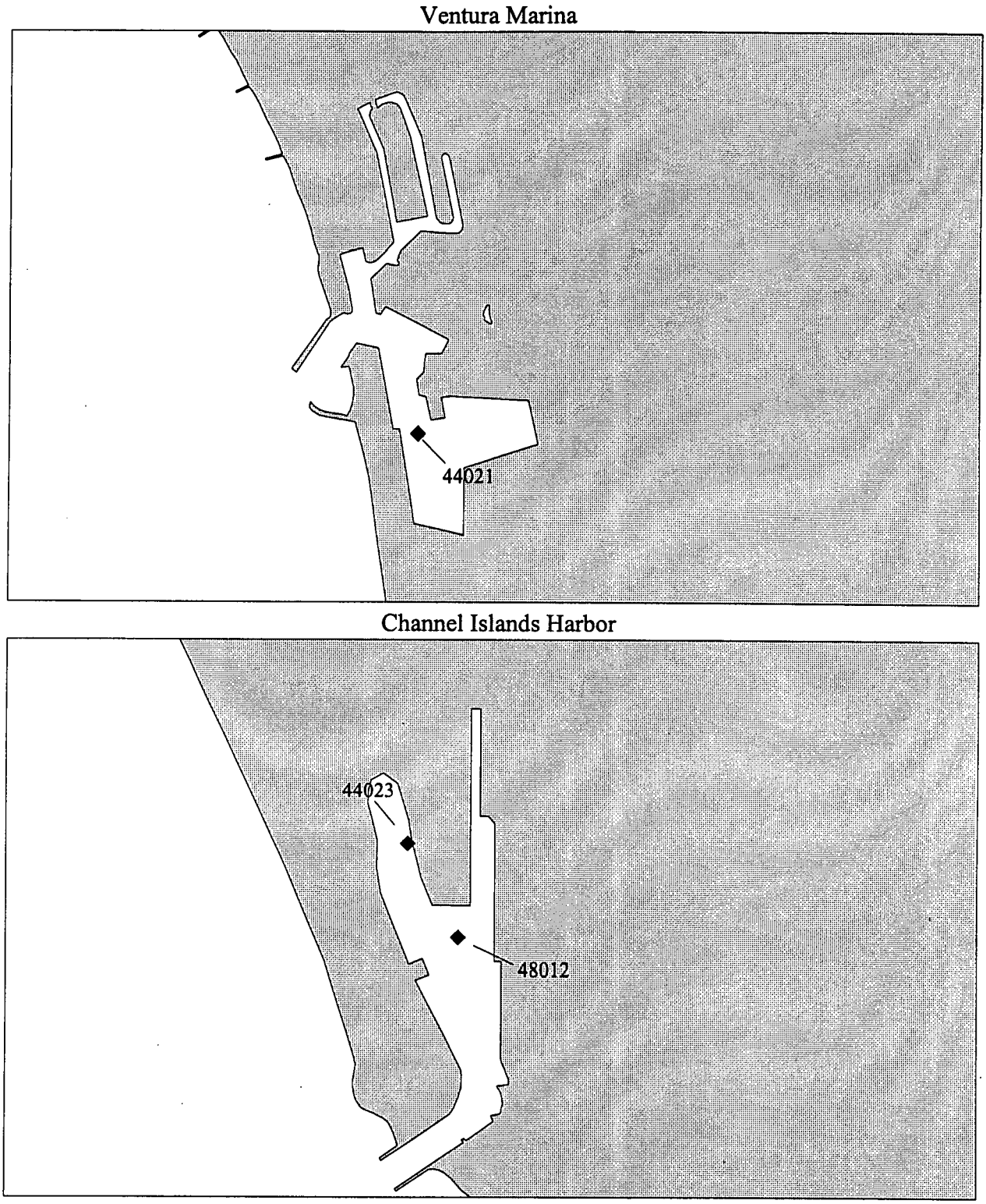
Los Alamitos Bay



Figures 4a and 4b. Shoreline Marina (a) and Los Alamitos Bay (b) Sampling Stations.



Figures 5a and 5b. King Harbor (a) and Marina Del Rey (b) Sampling Stations.



Figures 6a and 6b. Ventura Marina (a) and Channel Islands Harbor (b) Sampling Stations.

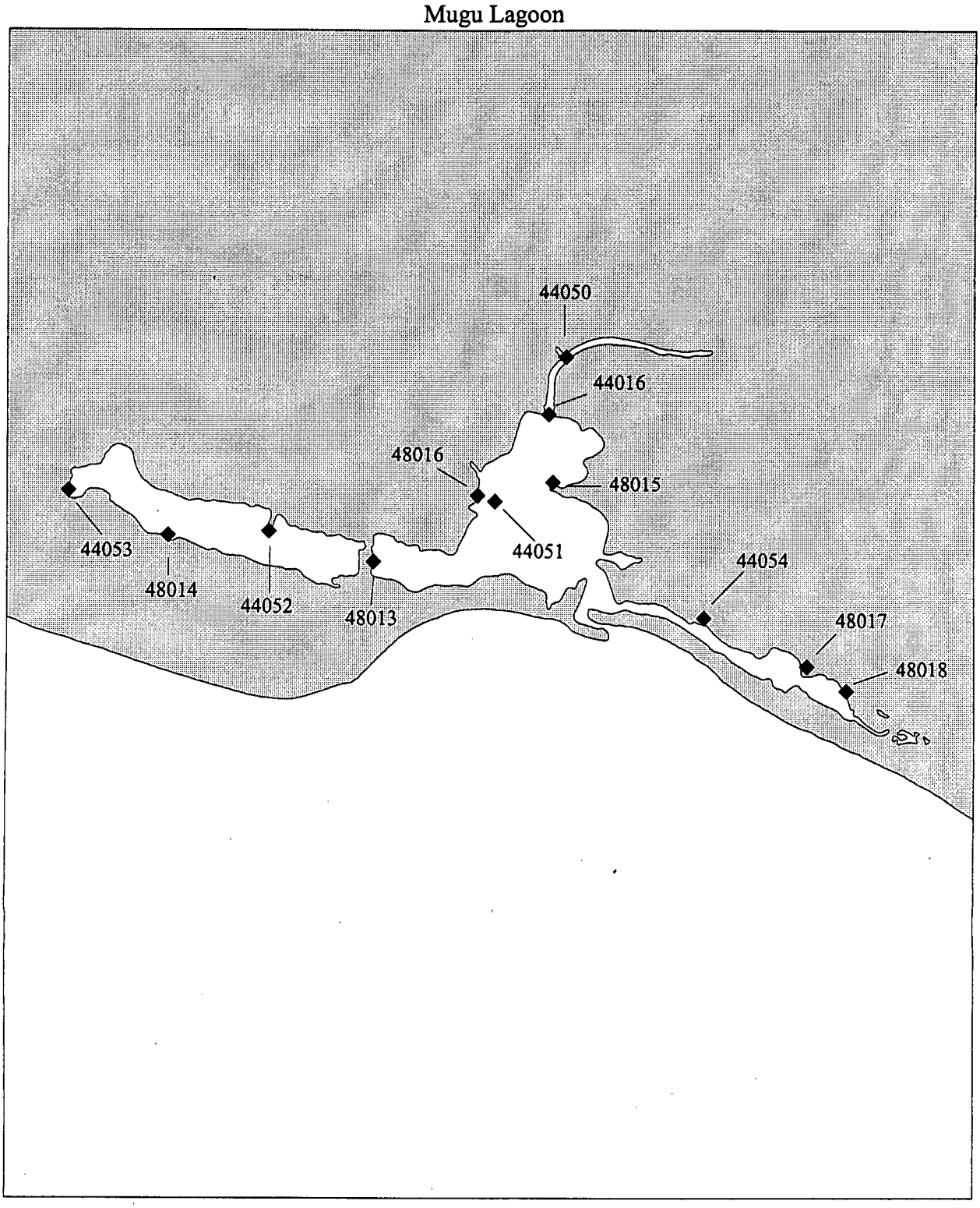
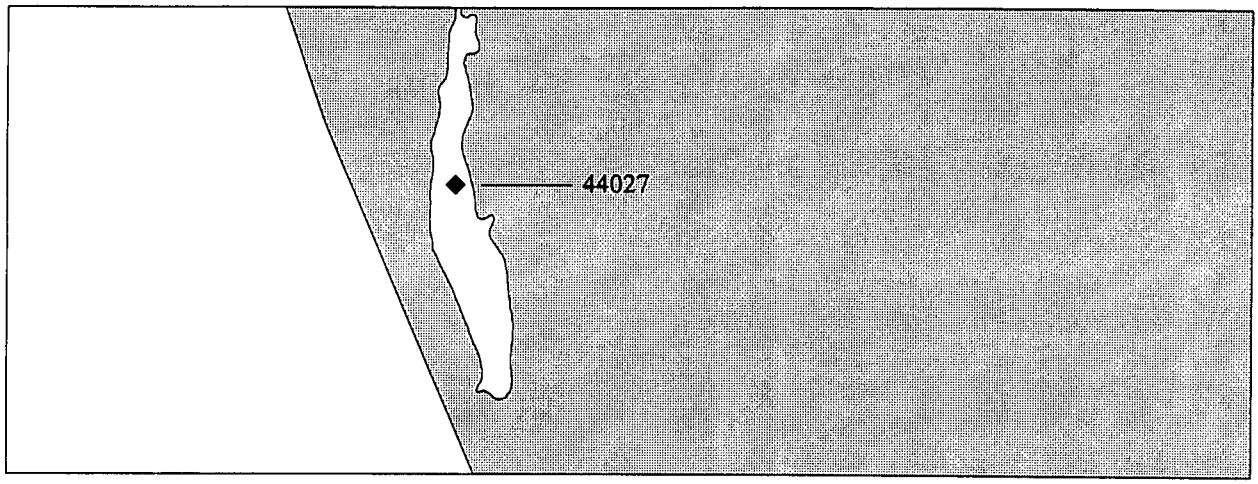
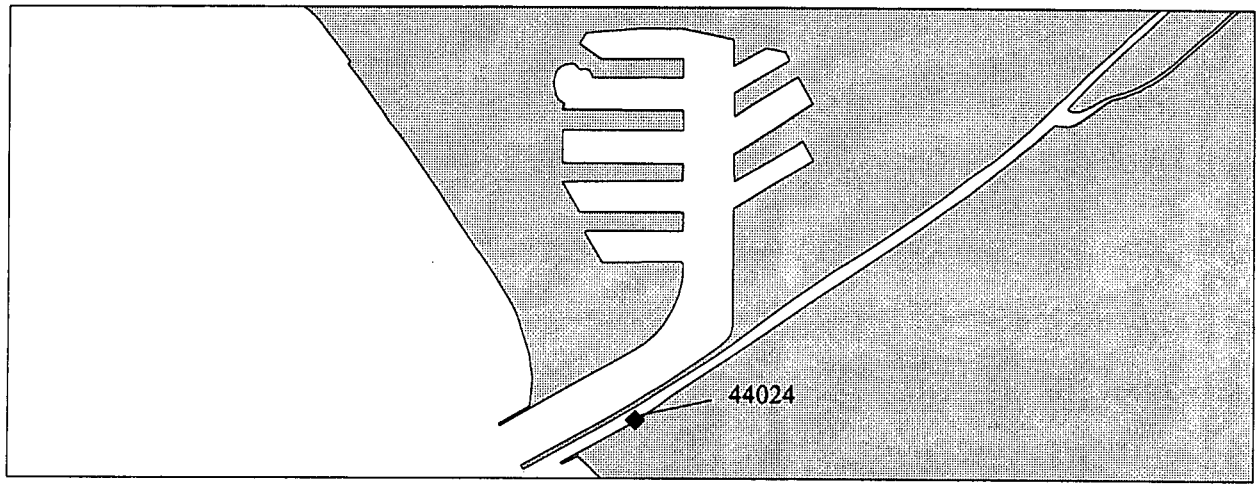


Figure 7. Mugu Lagoon Sampling Stations.

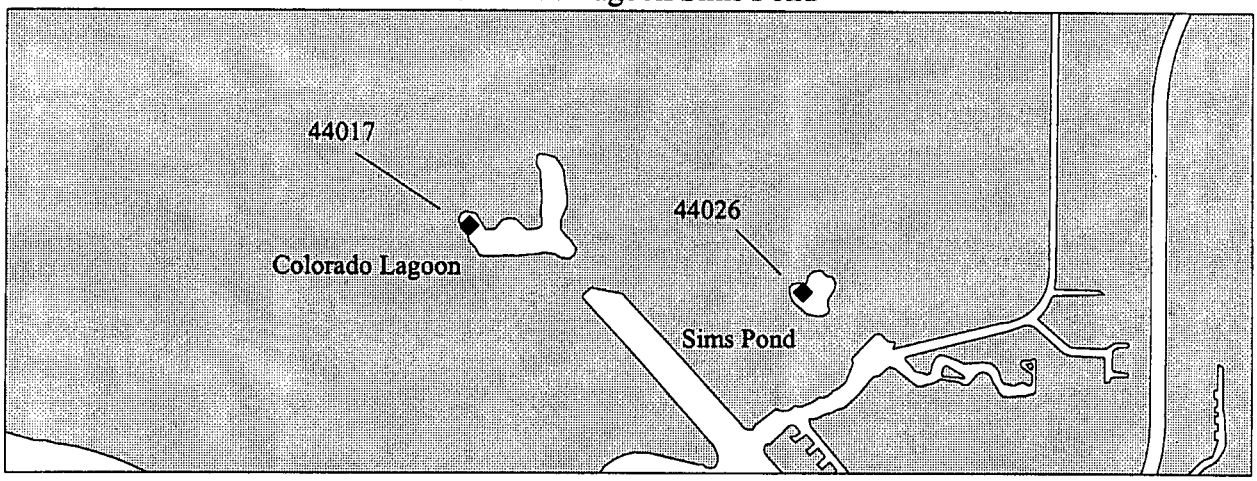
McGrath Lake



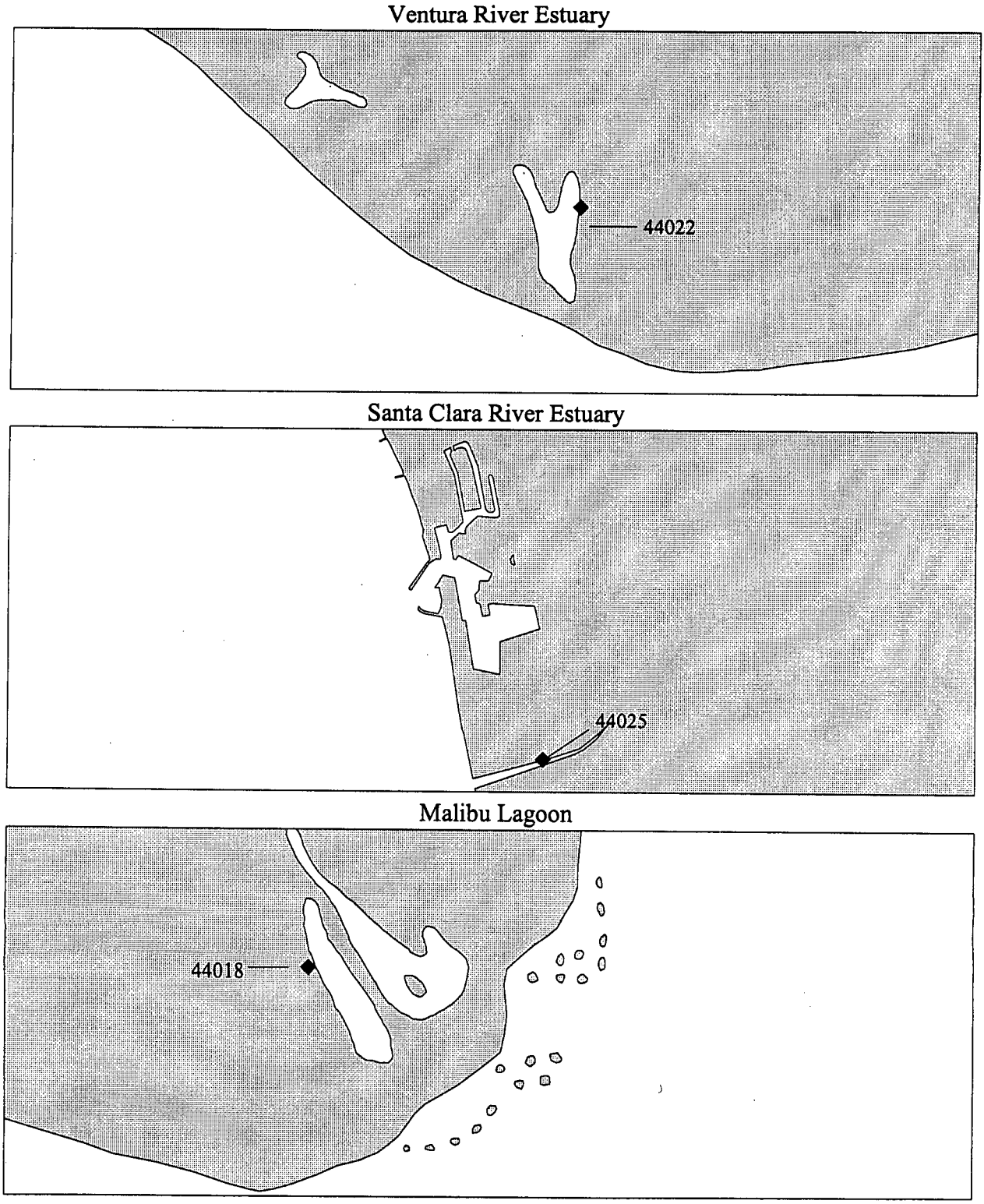
Ballona Creek



Colorado Lagoon/Sims Pond



Figures 8a, 8b, and 8c. McGrath Lake (a), Ballona Creek (b), and Colorado Lagoon/Sims Pond (c) Sampling Stations.



Figures 9a, 9b, and 9c. Ventura River Estuary (a), Santa Clara River Estuary (b), and Malibu Lagoon (c) Sampling Stations.

Sediment Sample Collection

All sampling locations (latitude & longitude), whether altered in the field or predetermined, were verified using a Magellan NAV 5000 Global Positioning System receiver, and recorded in the field logbook.

The primary method of sediment collection was by use of a $0.1m^2$ Young-modified Van Veen grab aboard a sampling vessel. Modifications include a non-contaminating Kynar coating which covered the grab's sample box and jaws. After the filled grab sampler was secured on the boat gunnel, the sediment sample was inspected carefully. The following acceptability criteria were met prior to taking sediment samples:

1. Sampler was not over-filled (i.e., the sediment surface was not pressed against the top of the sampler).
2. Overlying water was present, indicating minimal leakage.
3. Overlying water was not excessively turbid, indicating minimal sample disturbance.
4. Sediment surface was relatively flat, indicating minimal sample disturbance.
5. Sediment sample was not washed out due to an obstruction in the sampler jaws.
6. Desired penetration depth was achieved (i.e., 10 cm).
7. Sample was muddy (approx. >30% fines), not sandy or gravelly.
8. Sample did not include excessive shell, organic or man-made debris.

If a sample did not meet all the above criteria, it was rejected, dumped into the bay, and the sampler was re-deployed until a sufficient amount of material was obtained.

It was critical that sample contamination be avoided during sample collection. All sampling equipment (i.e., siphon hoses, scoops, containers) was made of non-contaminating material and was cleaned appropriately before use. Samples were not touched with un-gloved fingers. In addition, potential airborne contamination (e.g., from engine exhaust, cigarette smoke) was avoided. Before sub-samples from the grab sampler were taken, the overlying water was removed by slightly opening the sampler, being careful to minimize disturbance or loss of fine-grained surficial sediment. Once overlying water was removed, the top 2 cm of surficial sediment was sub-sampled from the grab. Subsamples were taken using a precleaned flat bottom scoop. This device allowed a relatively large sub-sample to be taken from a consistent depth. When subsampling surficial sediments, unrepresentative material (e.g., large stones or vegetative material) was removed from the sample in the field. Small rocks and other small foreign material remained in the sample. Determination of overall sample quality was determined by the chief scientist in the field. Such removals were noted on the field data sheet. For the sediment sample, the top 2 cm was removed from the grab and placed in a pre-labeled polycarbonate container. Between grabs or cores, the sediment sample in the container

was covered with a teflon sheet, and the container covered with a lid and kept cool. When a sufficient amount of sediment was collected, the sample was covered with a teflon sheet assuring no air bubbles. A second, larger teflon sheet was placed over the top of the container to ensure an air tight seal, and nitrogen was vented into the container to purge it of oxygen.

If water depth did not permit boat entrance to a site (e.g. <1 meter), divers sampled that site using sediment cores (diver cores). Cores consisted of a 10 cm diameter polycarbonate tube, 30 cm in length, including plastic end caps to aid in transport. Divers entered a study site from one end and sampled in one direction, so as to not disturb the sediment with feet or fins. Cores were taken to a depth of at least 15 centimeters. Sediment was extruded out of the top end of the core to the prescribed depth of 2-cm, removed with a polycarbonate spatula and deposited into a cleaned polycarbonate tub. Additional samples were taken with the same seawater rinsed core tube until the required total sample volume was attained. Diver core samples were treated the same as grab samples, with teflon sheets covering the sample and nitrogen purging. All sample acceptability criteria were met as with the grab sampler.

As discussed above, more intensive sampling was conducted in the Consolidated Slip/Dominguez Channel tidal prism area of inner Los Angeles Harbor in order to investigate the horizontal and vertical distribution of chemical pollution and associated bioeffects in this area. The horizontal distribution of pollution and toxicity was determined by collecting multiple field replicates at several stations along a gradient leading from Henry Ford Bridge and out Dominguez Channel. Samples were collected along two transects, each having four sample locations. The first transect was located in the upper channel and ran from Dominguez Channel to the east end of Consolidated Slip. The second transect was located in the mid to west end of end of Consolidated Slip leading to the east end of East Basin. Both transects were located based on past monitoring data to define the east and west boundaries of sediment pollution in Consolidated Slip.

In order to determine the vertical distribution of pollution and bioeffects, samples at several stations were collected at multiple depths. In addition to the surficial samples collected at the top 2 cm, samples were collected at three additional depths: surface (top30 cm), Depth 2 (from 30 cm to 90 cm), and Depth 3 (from 90 cm to 150 cm). In most cases, a hard clay layer below 90 cm prevented collection of the third sample depth.

Samples for the vertical distribution study were collected with a gravity coring device deployed from a boat. The corer was lined with a 7-cm diameter polybutyrate liner, which was changed between samples. Once collected, core samples were cut with a stainless steel saw into the three sections, the end of each sediment core adjacent to the saw cut was discarded, and samples were aliquoted as described above.

Replicate benthic samples (n=3) were obtained at predetermined sites from separate deployments of the Van Veen sampler. The three replicates were positioned according to

the BPTCP sampling protocol (e.g., located by previously assigned lat/long coordinates). The coring device was 10 cm in diameter and 14 cm in height, enclosing a 0.0075-m^2 area. Corers were placed into sediment with minimum disruption of the surface sediments, capturing essentially all surface-active fauna as well as species living deeper in the sediment. Corers were pushed about 12 cm into the sediment and retrieved by digging along one side, removing the corer and placing the intact sediment core into a pvc screening device. Sediment cores were carefully sieved through a 0.5-mm screen and residues (e.g., organisms and remaining sediments) were rinsed into pre-labeled storage bags and preserved with a 10% formalin solution. After 3 to 4 days, samples were rinsed and transferred into 70% isopropyl alcohol and stored for future taxonomy and enumeration.

Analysis of Contaminants in Fish Tissue

Fish species targeted for collection were selected and prioritized based on relative abundance of species of interest; species behavior (eg., feeding behavior); and habitat range; frequency of consumption by anglers; likelihood of contaminant accumulation based on tissue lipid content. Composite tissue samples were necessary to maximize the number of stations and fish species on which chemical analysis could be performed. The number of fish required to complete a composite was five for larger fish and fifteen for smaller fish. Fish species collected and number of fish needed to complete a composite were as follows:

1. White Croaker *(Genyonemus lineatus)* (5 per composite)
2. White Surfperch *(Phanerdon furcatus)* (5 per composite)
3. Shiner Surfperch *(Cymatogaster aggregata)* (15 per composite)
4. Topsmelt *(Atherinopsis affinis)* (15 per composite)

Fish were collected from Point Mugu Lagoon October 5, 1992, using a 50' beach seine. Size of topsmelt ranged from 16.5-22 cm (total length) and 10-12.4 cm for shiner surfperch. Fish were collected from Los Angeles Harbor May 14-15, 1997, using a 25' otter trawl. Size of white croaker ranged from 20-28 cm (total length) and 14-19 cm for white surfperch. Collected samples were wrapped in chemically cleaned Teflon® sheeting, to prevent trace metal and trace organic contamination, and frozen for transportation to the laboratory. Dissections and muscle tissue sample preparations were performed using non-contaminating methods in a clean room environment (Stephenson et al., 1994). Equal weight samples were taken from each fish using Teflon® forceps to provide a composite total of approximately 125 grams. All composites were homogenized and homogenate splits were taken for each chemical analysis.

Muscle tissue (i.e., fillets) of white croaker were analyzed with skin on, while topsmelt and perch were analyzed whole body (i.e., head, guts, tail removed). The decision to analyze tissue fillets or whole body was based on the manner in which the particular fish was most commonly cooked and eaten.

All sample composites were analyzed for PAHs, PCB congeners, pesticides, percent moisture and percent lipid. A more detailed description of these methods can be found in the California State Mussel Watch Program Ten Year Data Summary Report (1988) and the California Bay Protection and Toxic Cleanup Program Quality Assurance Project Plan (Stephenson et al., 1994).

The U.S. EPA document used to design the study, *Guidance For Assessing Chemical Contaminant Data For Use In Fish Advisories-Volume 1-Fish Sampling and Analysis* (U.S. EPA, 1995a), was also used to develop the contaminant screening values used in this study. In developing the screening values (SVs) for a number of noncarcinogenic and carcinogenic compounds, risk-based dose response variables were used. These variables were used in the following equations to calculate the SVs used in this study:

For Noncarcinogens: $SV = (RfD * BW)/CR$
For Carcinogens: $SV = [(RL/SF)*BW]/CR$

where SV = Screening Value (μg/g)
RfD = Oral reference dose (μg/g/d)
RL = Maximum acceptable risk level (dimensionless)
SF = Oral slope factor $(\mu g/g/d)^{-1}$
BW = Body Weight (kg)
CR = Consumption rate of tissue(g/d)

Body weight (BW), consumption rate (CR) and risk level (RL) have been held constant for all calculations in this document. Body weight was chosen at 70 kg, which is the mean body weight for the average male adult population (U.S. EPA, 1990). Consumption rate was chosen at 6.5 grams per day (one meal a month), which is the estimate of the average consumption of fish and shellfish from marine, estuarine and fresh waters by the general adult population (U.S. EPA, 1990). The risk level (RL) was chosen at 10^{-5} as recommended by the EPA Office of Water for the calculation of screening values. In simple terms, this means that if a person weighing 70 kg consumed 6.5 grams of fish per day with the same concentration of contaminant, for 70 years, the increased risk would be at most one additional cancer death per 100,000 persons. Values used for oral RfD and SF were those suggested for use by the EPA (U.S. EPA, 1993). Screening values could not be calculated for all chemicals analyzed in this study since reliable information on the toxicity or carcinogenic potency of chemicals is not available for all analytes. RfD and SF information that has been developed to date is available in the EPA's Integrated Risk Information System (IRIS, 1992). This system is continuously updated, as information becomes available, so calculations of screening values for additional chemicals may be possible in the future. Calculated screening values and comparative screening values from other selected sources are presented in Tables 21 and 34.

The screening values calculated from the constants selected above are used to help identify potential chemicals of concern and should not be treated as health risk thresholds. Comparisons of sample tissue levels with screening values are meant to provide guidance to further investigations of contaminant levels in southern California fish tissues. They should not be construed as regulatory action levels or be used as definitive answers to questions concerning the safety of fish consumption. Health risk concerns will be reviewed and, if necessary, warnings issued, by the California Office of Environmental Health Hazard Assessment (OEHHA).

Transport of Samples

Six-liter polycarbonate sample containers for chemistry and toxicity and benthic cores were packed in ice chests with enough ice to keep them cool for 48 hours. Each container was sealed in precleaned, large plastic bags closed with a cable tie to prevent contact with other samples or ice or water. Ice chests were driven back to the laboratory by the sampling crew or flown by air freight within 24 hours of collection.

Homogenization and Aliquoting of Samples

Samples remained in ice chests (on ice, in double-wrapped plastic bags) until the containers were brought back to the laboratory for homogenization. All sample identification information (station numbers, etc.) was recorded on Chain of Custody (COC) and Chain of Record (COR) forms prior to homogenizing and aliquoting. A single container was placed on plastic sheeting while also remaining in original plastic bags. The sample was stirred with a polycarbonate stirring rod until mud appeared homogeneous.

All prelabeled jars were filled using a clean Teflon or polycarbonate scoop and stored in freezer/refrigerator (according to media/analysis) until analysis. The sediment sample was aliquoted into appropriate containers for trace metal analysis, organic analysis, pore water extraction, and bioassay testing. Samples were placed in boxes sorted by analysis type and leg number. Sample containers for sediment bioassays were placed in a refrigerator (4°C) while sample containers for sediment chemistry (metals, organics, TOC and grain size) were stored in a freezer (-20°C).

Procedures for the Extraction of Pore Water

Whole Core Squeezing

In sampling Legs 1 through 23 (Table 1) pore water was extracted from refrigerated (4°C) sediment samples using the whole core squeezing (WCS) method developed by Bender et al. (1987). This method employed mechanical force to squeeze pore water from interstitial spaces. The squeezing technique was a modification of the original Bender design, with some adaptations made based on the work of Carr et al. (1989) and Carr and

Chapman (1991). This WCS method was developed for laboratory or field use in conjunction with standard coring techniques.

The major features of the squeezer consisted of an aluminum support framework, 10-cm i.d. acrylic core tubes with sampling ports, a pressure regulated pneumatic ram with air supply valves, and pH and oxygen electrodes placed in-line with sample effluent. Trace metal contamination was avoided by ensuring that all sample containers, filters and WCS surfaces in contact with the sample were plastics (acrylic, PVC, and TFE) and cleaned with Micro, 10% HCl, Type II Milli-Q® brand water and methanol.

One to two liters of homogenized sediment sample were placed in the squeezer tube for pore water extractions. The tubes were placed in the support framework and pressure was applied to the top piston by adjusting the air supply to the pneumatic ram. An initial air pressure of ~20 psi was sufficient to maintain a steady flow of sample effluent through the top piston, and at no time during squeezing did air pressure exceed 200 psi.

A porous pre-filter (PPE or TFE) was inserted in the top of the piston and used to screen large (> 70 microns) sediment particles. Further filtration was accomplished with disposable TFE filters of 5 microns and 0.45 microns in-line with sample effluent. To compensate for filter clogging and sediment compaction during the course of squeezing, effluent flow was maintained by fine adjustment of the pressure regulator on the air supply to increase the air pressure to the ram.

Sample effluent of the required volume was collected in TFE containers under refrigeration. Pore water was then subsampled in the volumes and specific containers required for archiving and chemical or toxicological analysis. Samples to be analyzed for trace metals were acidified to an approximate pH of 2-3 to minimize oxidation of the metal and adsorption to sample container walls. Other subsamples were either refrigerated or frozen as required under normal holding time criteria for each specific analysis.

Upon completion of a sediment squeezing run, all squeezer surfaces in contact with sample were thoroughly cleaned to minimize metal or organic cross-contamination between samples. Blanks of Type II Milli-Q® brand water were substituted for sample and squeezed prior to and after the core tubes used for sample extractions. This squeezer blank was used as a quality control step to test for possible contaminations. Pore water samples were frozen until needed for testing.

Centrifugation Extraction

In sampling Legs 25 through 54 (Table 1), pore water was extracted using centrifugation. All procedures for the centrifugation extraction of pore water were performed using trace metal and trace organic clean techniques. Operations were performed in a positive pressure clean room with filtered air to prevent airborne contamination.

All sample containers or sampling equipment in contact with sediment or porewater received a scrub and 2 day soak in MICRO® detergent, followed by triple fresh and deionized water rinses. Equipment was then immersed in 10% HCl for 3 days, triple rinsed in MILLI-Q® Type II water, air dried, and triple rinsed with petroleum ether.

Samples were stored on ice at 4°C prior to centrifugation. Pre-cleaned Teflon scoops were used to transfer sediment from sample containers to centrifuge jars. High speed one-liter polycarbonate centrifuge jars were used for extraction of pore water. Samples were spun at 2500 G for 30 minutes at 4°C in a Beckman J-6B refrigerated centrifuge.

Porewater was transferred from each centrifuge jar into final sample containers (250 pre-cleaned borosilicate glass jars) using pre-cleaned polyethylene siphons. While decanting, care was used to avoid floating debris, fauna, shell fragments or other solid material. After transfer into final sample containers, porewater was immediately refrigerated at 4°C. Samples were refrigerated, not frozen, and testing was initiated within 24 hours of extraction of the final samples.

Subsurface Water Collection

Subsurface water was collected at selected stations to assess site water toxicity. A polyethylene water sample bottle was attached to the frame of the Van Veen grab sampler and a stopper was pulled as the jaws of the grab closed for a sediment sample. The water sample was consequently collected approximately 0.5 meters above the sediment surface. Subsurface water samples were transferred to acid and solvent rinsed 1 liter amber bottles and held in the dark at 4°C until testing.

Collection of Intact Sediment Cores for Sediment-Water Interface Tests

Intact sediment cores were sampled directly from the Van-Veen grab sampler at selected stations for later sediment-water interface toxicity tests. Cores were 7.5 cm in diameter polycarbonate tubes sampled to a depth of 5 cm. Cores were removed from the sampler by sealing the bottom of the core with polyethylene-gloved hands, and quickly sealing first the bottom, then the top with polyethylene caps. The bottom caps were then wrapped with parafilm™ to prevent leakage, stored upright in an ice chest, and transported to the toxicity testing laboratory via overnight courier. Intact cores were refrigerated in the dark until used in toxicity tests. Sediment-water interface test methods are described below.

Sample Chain of Records & Custody

Chain-of-records documents were maintained for each station. Each form was a record of all sub-samples taken from each sample. IDORG (a unique identification number for only that sample), DFG station numbers and station names, leg number (sample

collection trip batch number), and date collected were included on each sheet. A Chain-of-Custody form accompanies every sample so that each person releasing or receiving a subsample signs and dates the form.

Authorization/Instructions to Process Samples

Standardized forms entitled "Authorization/Instructions to Process Samples" accompanied the receipt of any samples by any participating laboratory. These forms were completed by DFG personnel, or its authorized designee, and were signed and accepted by both the DFG authorized staff and the staff accepting samples on behalf of the particular laboratory. The forms contain all pertinent information necessary for the laboratory to process the samples, such as the exact type and number of tests to run, number of laboratory replicates, dilutions, exact eligible cost, deliverable products (including hard and soft copy specifications and formats), filenames for soft copy files, expected date of submission of deliverable products to DFG, and other information specific to the lab/analyses being performed.

Trace Metals Analysis of Sediments

Trace metal analyses were conducted at the California Department of Fish and Game's (CDFG) Trace Metals Facility at Moss Landing, CA. Table 2 indicates the trace metals analyzed and lists method detection limits for sediments. These methods were modifications of those described by Evans and Hanson (1993) as well as those developed by the CDFG (California Department of Fish and Game, 1990). Samples were selected for chemical analyses by SWRCB staff based on results from toxicity tests.

Analytes and Detection Limits

Table 2. Dry Weight Trace Metal Minimum Detection Limits (MDL). ***Note that all tissue MDLs are reported in dry weight units because wet weight MDLs are based on percent moisture of the sample.

Analytes	MDL µg/g dry	MDL µg/g dry	MDL µg/L
	Sediment	Tissue	Water
Silver	0.002	0.01	0.001
Aluminum	1	1	NA
Arsenic	0.1	0.25	0.1
Cadmium	0.002	0.01	0.002
Copper	0.003	0.1	0.04
Chromium	0.02	0.1	0.05
Iron	0.1	0.1	0.1
Mercury	0.03	0.03	NA
Manganese	0.05	0.05	NA

Nickel	0.1	0.1	0.1
Lead	0.03	0.1	0.01
Antimony	0.1	0.1	NA
Tin	0.02	0.02	NA
Selenium	0.1	0.1	NA
Zinc	0.05	0.05	0.02

Sediment Digestion Procedures

One gram aliquot of sediment was placed in a pre-weighed Teflon vessel, and one ml concentrated 4:1 nitric:perchloric acid mixture was added. The vessel was capped and heated in a vented oven at 130°C for four hours. Three mL hydrofluoric acid was added to the vessel, recapped and returned to oven overnight. Twenty mL of 2.5% boric acid were added to vessel and placed in oven for an additional 8 hours. Weights of vessel and solution were recorded, and solution transferred to 30-mL polyethylene bottles.

Tissue Digestion Procedures

A three gram aliquot of tissue was placed in a pre-weighed Teflon vessel, and three mls of concentrated 4:1 nitric:perchloric acid mixture was added. Samples then were capped and heated on hot plates for five hours. Caps were tightened and heated in a vented oven at 130°C for four hours. Samples were allowed to cool and 15 mls of Type II water was added to the vessels. The solution was then quatitatively transferred to a pre weighed 30 ml polyethylene (HDPE) bottle and taken up to a final weight of 20 g with Type II water.

Atomic Absorption Methods

Samples were analyzed by furnace AA on a Perkin-Elmer Zeeman 3030 Atomic Absorption Spectrophotometer, with an AS60 auto sampler, or a flame AA Perkin Elmer Model 2280. Samples, blanks, matrix modifiers, and standards were prepared using clean techniques inside a clean laboratory. ASTM Type II water and ultra clean chemicals were used for all standard preparations. All elements were analyzed with platforms for stabilization of temperatures. Matrix modifiers were used when components of the matrix interferes with adsorption. The matrix modifier was used for Sn, Sb and Pb. Continuing calibration check standards (CLC) were analyzed with each furnace sheet, and calibration curves were run with three concentrations after every 10 samples. Blanks and standard reference materials, MESS1, PACS, BCSS1 or 1646 were analyzed with each set of samples for sediments.

Acid Volatile Sulfide and Simultaneously Extracted Metals – AVS-SEM

This procedure determines the concentration of acid volatile sulfide (AVS) and the concentrations of selected metals that are solubilized during the acidification process (simultaneously extracted metal, SEM). The AVS/SEM procedure followed methods

described by Allen et al. (1993). AVS in the samples was first converted to hydrogen sulfide by acidification with hydrochloric acid at room temperature. The hydrogen sulfide was purged from the samples and trapped in an aqueous solution of sodium hydroxide. Sulfide concentrations were then determined spectrophotometrically by reaction with amine sulfuric acid and ferric chloride reagents to form methylene blue. The SEM are selected metals liberated from the sediment during the acidification. The concentrations of these metals were measured in the remaining acid after filtration of the sample.

Trace Organic Analysis of Sediments (PCBs, Pesticides, and PAHs)

Analytes and Detection Limits

Analytical sets of 12 samples were scheduled such that extraction and analysis occurred within a 40-day window. The methods employed by the UCSC-TOF were modifications of those described by Sloan et al. (1993). Tables 3-8 indicate the pesticides, PCBs, and PAHs currently analyzed and list method detection limits for sediments on a dry weight basis.

Table 3: Dry Weight Minimum Detection Limits of Chlorinated Pesticides

Analytes †	Database Abbreviation	MDL ng/g dry Sediment	MDL ng/g dry Tissue	MDL ng/L Water
Fraction #1 Analytes †				
Aldrin	ALDRIN	0.5	1.0	2.0
alpha-Chlordene	ACDEN	0.5	1.0	1.0
gamma-Chlordene	GCDEN	0.5	1.0	1.0
o,p'-DDE	OPDDE	1.0	3.0	1.0
o,p'-DDT	OPDDT	1.0	4.0	2.0
Heptachlor	HEPTACHLOR	0.5	1.0	2.0
Hexachlorobenzene	HCB	0.2	1.0	1.0
Mirex	MIREX	0.5	1.0	1.0
Fraction #1 & #2 Analytes †,‡				
p,p'-DDE	PPDDE	1.0	1.0	0.5
p,p'-DDT	PPDDT	1.0	4.0	2.0
p,p'-DDMU	PPDDMU	2.0	5.0	5.0
trans-Nonachlor	TNONA	0.5	1.0	1.0
Fraction #2 Analytes ‡				
cis-Chlordane	CCHLOR	0.5	1.0	1.0
trans-Chlordane	TCHLOR	0.5	1.0	1.0
Chlorpyrifos	CLPYR	1.0	4.0	4.0
Dacthal	DACTH	0.2	2.0	2.0
o,p'-DDD	OPDDD	1.0	5.0	5.0
p,p'-DDD	PPDDD	0.4	3.0	3.0
p,p'-DDMS	PPDDMS	3.0	20	20
p,p'-Dichlorobenzophenone	DICLB	3.0	25	25
Methoxychlor	METHOXY	1.5	15	15
Dieldrin	DIELDRIN	0.5	1.0	1.0

Endosulfan I	ENDO_I	0.5	1.0	1.0
Endosulfan II	ENDO_II	1.0	3.0	3.0
Endosulfan sulfate	ESO4	2.0	5.0	5.0
Endrin	ENDRIN	2.0	6.0	6.0
Ethion	ETHION	2.0	NA	NA
alpha-HCH	HCHA	0.2	1.0	1.0
beta-HCH	HCHB	1.0	3.0	3.0
gamma-HCH	HCHG	0.2	0.8	1.0
delta-HCH	HCHD	0.5	2.0	2.0
Heptachlor Epoxide	HE	0.5	1.0	1.0
cis-Nonachlor	CNONA	0.5	1.0	1.0
Oxadiazon	OXAD	6	NA	NA
Oxychlordane	OCDAN	0.5	0.2	1.0

† The quantitation surrogate is PCB 103. ‡ The quantitation surrogate is d8-p,p'-DDD

Table 4. Dry Weight Detection Limits of NIST PCB Congeners.

Analytes †	Database Abbreviation	MDL ng/g dry sediment	MDL ng/g dry tissue	MDL ng/L water
2,4'-dichlorobiphenyl	PCB08	0.5	1.0	1.0
2,2',5-trichlorobiphenyl	PCB18	0.5	1.0	1.0
2,4,4'-trichlorobiphenyl	PCB28	0.5	1.0	1.0
2,2',3,5'-tetrachlorobiphenyl	PCB44	0.5	1.0	1.0
2,2',5,5'-tetrachlorobiphenyl	PCB52	0.5	1.0	1.0
2,3',4,4'-tetrachlorobiphenyl	PCB66	0.5	1.0	1.0
2,2',3,4,5'-pentachlorobiphenyl	PCB87	0.5	1.0	1.0
2,2',4,5,5'-pentachlorobiphenyl	PCB101	0.5	1.0	1.0
2,3,3',4,4'-pentachlorobiphenyl	PCB105	0.5	1.0	1.0
2,3',4,4',5-pentachlorobiphenyl	PCB118	0.5	1.0	1.0
2,2',3,3',4,4'-hexachlorobiphenyl	PCB128	0.5	1.0	1.0
2,2',3,4,4',5'-hexachlorobiphenyl	PCB138	0.5	1.0	1.0
2,2',4,4',5,5'-hexachlorobiphenyl	PCB153	0.5	1.0	1.0
2,2',3,3',4,4',5-heptachlorobiphenyl	PCB170	0.5	1.0	1.0
2,2',3,4,4',5,5'-heptachlorobiphenyl	PCB180	0.5	1.0	1.0
2,2',3,4',5,5',6-heptachlorobiphenyl	PCB187	0.5	1.0	1.0
2,2',3,3',4,4',5,6-octachlorobiphenyl	PCB195	0.5	1.0	1.0
2,2',3,3',4,4',5,5',6-nonachlorobiphenyl	PCB206	0.5	1.0	1.0
2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl	PCB209	0.5	1.0	1.0

† PCB 103 is the surrogate used for PCBs with 1 - 6 chlorines per molecule. PCB 207 is used for all others.

Table 5. Dry Weight Minimum Detection Limits for additional PCB congeners.

Analytes †	Database Abbreviation	MDL ng/g dry sediment	MDL ng/g dry tissue	MDL ng/L water
2,3-dichlorobiphenyl	PCB5	0.5	1.0	1.0
4,4'-dichlorobiphenyl	PCB15	0.5	1.0	1.0
2,3',6-trichlorobiphenyl	PCB27	0.5	1.0	1.0
2,4,5-trichlorobiphenyl	PCB29	0.5	1.0	1.0
2,4',4-trichlorobiphenyl	PCB31	0.5	1.0	1.0
2,2,'4,5'-tetrachlorobiphenyl	PCB49	0.5	1.0	1.0
2,3',4',5-tetrachlorobiphenyl	PCB70	0.5	1.0	1.0
2,4,4',5-tetrachlorobiphenyl	PCB74	0.5	1.0	1.0
2,2',3,5',6-pentachlorobiphenyl	PCB95	0.5	1.0	1.0
2,2',3',4,5-pentachlorobiphenyl	PCB97	0.5	1.0	1.0
2,2',4,4',5-pentachlorobiphenyl	PCB99	0.5	1.0	1.0
2,3,3',4',6-pentachlorobiphenyl	PCB110	0.5	1.0	1.0
2,2',3,3',4,6'-hexachlorobiphenyl	PCB132	0.5	1.0	1.0
2,2',3,4,4',5-hexachlorobiphenyl	PCB137	0.5	1.0	1.0
2,2',3,4',5',6-hexachlorobiphenyl	PCB149	0.5	1.0	1.0
2,2',3,5,5',6-hexachlorobiphenyl	PCB151	0.5	1.0	1.0
2,3,3',4,4',5-hexachlorobiphenyl	PCB156	0.5	1.0	1.0
2,3,3',4,4',5'-hexachlorobiphenyl	PCB157	0.5	1.0	1.0
2,3,3',4,4',6-hexachlorobiphenyl	PCB158	0.5	1.0	1.0
2,2',3,3',4,5,6'-heptachlorobiphenyl	PCB174	0.5	1.0	1.0
2,2',3,3',4',5,6-heptachlorobiphenyl	PCB177	0.5	1.0	1.0
2,2',3,4,4',5',6-heptachlorobiphenyl	PCB183	0.5	1.0	1.0
2,3,3',4,4',5,5'-heptachlorobiphenyl	PCB189	0.5	1.0	1.0
2,2',3,3',4,4',5,5'-octachlorobiphenyl	PCB194	0.5	1.0	1.0
2,2',3,3',4,5',6,6'-octachlorobiphenyl	PCB201	0.5	1.0	1.0
2,2',3,4,4',5,5',6-octachlorobiphenyl	PCB203	0.5	1.0	1.0

† PCB 103 is the surrogate used for PCBs with 1 - 6 chlorines per molecule. PCB 207 is used for all others.

Table 6: Dry Weight Minimum Detection Limits of Chlorinated Technical Grade Mixtures

Analytes †	Database Abbreviation	MDL ng/g dry Sediment	MDL ng/g dry Tissue	MDL ng/L Water
Toxaphene ‡	TOXAPH	50	100	100
Polychlorinated Biphenyl Aroclor 1248	ARO1248	5	100	100
Polychlorinated Biphenyl Aroclor 1254	ARO1254	5	50	50
Polychlorinated Biphenyl Aroclor 1260	ARO1260	5	50	50
Polychlorinated Terphenyl Aroclor 5460†	ARO5460	10	100	100

† The quantitation surrogate is PCB 207. ‡ The quantitation surrogate is d8-p,p'-DDD

Table 7: Dry Weight Minimum Detection Limits of Polyaromatic Hydrocarbons in Tissue

Analytes †	Database Abbreviation	MDL ng/g dry Sediment	MDL ng/g dry Tissue	MDL ng/L Water
Naphthalene	NPH	5	10	30
2-Methylnaphthalene	MNP2	5	10	30
1-Methylnaphthalene	MNP1	5	10	30
Biphenyl	BPH	5	10	30
2,6-Dimethylnaphthalene	DMN	5	10	30
Acenaphthylene	ACY	5	10	30
Acenaphthene	ACE	5	10	30
2,3,5-Trimethylnaphthalene	TMN	5	10	30
Fluorene	FLU	5	10	30
Dibenzothiophene	DBT	5	10	30
Phenanthrene	PHN	5	10	30
Anthracene	ANT	5	10	30
1-Methylphenanthrene	MPH1	5	10	30
Fluoranthene	FLA	5	10	30
Pyrene	PYR	5	10	30
Benz[a]anthracene	BAA	5	10	30
Chrysene	CHR	5	10	30
Tryphenylene	TRY	5	10	30
Benzo[b]fluoranthene	BBF	5	10	30
Benzo[k]fluoranthene	BKF	5	10	30
Benzo[e]pyrene	BEP	5	10	30
Benzo[a]pyrene	BAP	5	10	30
Perylene	PER	5	10	30
Indeno[1,2,3-cd]pyrene	IND	5	15	45
Dibenz[a,h]anthracene	DBA	5	15	45
Benzo[ghi]perylene	BGP	5	15	45
Coronene	COR	5	15	45

† See QA report for surrogate assignments.

Table 8. Dry Weight Minimum Detection Limits of Organometallic Compounds

Analytes †	Database Abbreviation	MDL ng/g dry Sediment	MDL ng/g dry Tissue	MDL ng/L Water
Tributyltin	TBT	13	20	1

Summary of Methods

Analytical sets of 12 samples were scheduled such that extraction and analysis would occur within a 40-day window. Methods employed by UCSC-TOF were modifications of those described by Sloan et al. (1993). Tables 3-8 indicate the pesticides, PCBs, and PAHs currently analyzed, and list method detection limits for sediments and tissues on a dry weight basis.

Sediment Extraction

Samples were removed from the freezer and allowed to thaw. A 10-gram sample of sediment was removed for chemical analysis and an independent 10-gram aliquot was removed for dry weight determinations. The dry weight sample was placed into a pre-weighed aluminum pan and dried at 110°C for 24 hours. The dried sample was reweighed to determine the sample's percent moisture. The analytical sample was extracted 3 times with methylene chloride in a 250-mL amber Boston round bottle on a modified rock tumbler. Prior to rolling, sodium sulfate, copper, and extraction surrogates were added to the bottle. Sodium sulfate dehydrates the sample allowing for efficient sediment extraction. Copper, which was activated with hydrochloric acid, complexes free sulfur in the sediment. After combining the three extraction aliquots, the extract was divided into two portions, one for chlorinated hydrocarbon (CH) analysis and the other for polycyclic aromatic hydrocarbon (PAH) analysis.

Tissue Extraction

Samples were removed from the freezer and allowed to thaw. A 5-gram sample of tissue was removed for chemical analysis and an independent 5-gram aliquot was removed for dry weight determinations. The dry weight sample was placed into a pre-weighed aluminum pan and dried at 110°C for 24 hours. The dried sample was reweighed to determine the sample's percent moisture. The analytical sample was extracted twice with methylene chloride using a Tekmar Tissumizer. Prior to extraction, sodium sulfate and extraction surrogates were added to the sample and methylene chloride.

The two extraction aliquots were combined and brought to 100 mL. A 25-mL aliquot was decanted through a Whatmann 12.5 cm #1 filter paper into a pre-weighed 50 mL flask for lipid weight determination. The filter was rinsed with ~15 mL of methylene chloride and the remaining solvent was removed by vacuum-rotary evaporation. The residue was dried for 2 hours at 110°C and the flask was re-weighed. The change in weight was taken as the total methylene chloride extractable mass. This weight then was used to calculate the samples "percent lipid".

Organic Analysis

The CH portion was eluted through a silica/alumina column, separating the analytes into two fractions. Fraction 1 (F1) was eluted with 1% methylene chloride in pentane and contained > 90% of p,p'-DDE and < 10% of p,p'-DDT. Fraction 2 (F2) analytes were eluted with 100% methylene chloride. The two fractions were exchanged into hexane and concentrated to 500 µL using a combination of rotary evaporation, controlled boiling on tube heaters, and dry nitrogen blow downs.

F1 and F2 fractions were analyzed on Hewlett-Packard 5890 Series gas chromatographs utilizing capillary columns and electron capture detection (GC/ECD). A single 2 µl

splitless injection was directed onto two 60 m x 0.25 mm i.d. columns of different polarity (DB-17 & DB-5; J&W Scientific) using a glass Y-splitter to provide a two dimensional confirmation of each analyte. Analytes were quantified using internal standard methodologies. The extract's PAH portion was eluted through a silica/alumina column with methylene chloride. It then underwent additional cleanup using size-exclusion high performance liquid chromatography (HPLC/SEC). The collected PAH fraction was exchanged into hexane and concentrated to 250 µL in the same manner as the CH fractions.

Total Organic Carbon Analysis of Sediments

Summary of Methods

Samples were received in the frozen state and allowed to thaw at room temperature. Source samples were gently stirred and sub-samples removed with a stainless steel spatula and placed in labeled 20 ml polyethylene scintillation vials. Approximately 5 grams equivalent dry weight of the wet sample was sub-sampled.

Sub-samples were treated with two, 5 ml additions of 0.5 N, regent grade HCl to remove inorganic carbon (CO^{-3}), agitated, and centrifuged to a clear supernate. Some samples were retreated with HCl to remove residual inorganic carbon. The evolution of gas during HCl treatment indicates the direct presence of inorganic carbon (CO^{-3}). After HCl treatment and decanting, samples were washed with approximately 15 ml of deionized-distilled water, agitated, centrifuged to a clear supernate, and decanted. Two sample washings were required to remove weight determination and analysis interferences.

Prepared samples were placed in a 60°C convection oven and allowed to completely dry (approx. 48 hrs). Visual inspection of the dried sample before homogenization ensured complete removal of carbonate containing materials, (shell fragments). Two 61 mm (1/4") stainless steel solid balls were added to the dried sample, capped and agitated in a commercial ball jar mill for three minutes to homogenize the dried sample.

A modification of the high temperature combustion method, utilizing a Weatstone bridge current differential was used (Control Equipment Co., No. 440 Elemental Analyzer) to determine carbon and nitrogen concentrations. The manufacturer's suggested procedures were followed. The methods are comparable to the validation study of USEPA method MARPCPN I. Two to three aliquots of 5-10 mg of dried prepared sub-sample were used to determine carbon and nitrogen weight percent values. Calibration of the instrument was with known standards using Acetanilide or L-Cystine. Detection limits were 0.2 ug/mg, carbon and 0.01 ug/mg nitrogen dry weight.

The above methods and protocols are modifications based on several published papers, reference procedures and analytical experimentation experience (Franson, 1981; Froelich, 1980; Hedges and Stern, 1983; MARPCPN I, 1992).

Quality control was assessed by the analysis of National Research Council of Canada Marine Sediment Reference Material, and BCSS-1 at the beginning and end of each sample analysis set (20-30 individual machine analyses). All analyzed values were within suggested criteria of $\pm$ 0.09% carbon (2.19% Average). Nitrogen is not reported on the standard data report, but was accepted at $\pm$ 0.008% nitrogen (0.195% Average) from the EPA study. Quality assurance was monitored by re-calibration of the instrument every twenty samples and by the analysis of a standard as an unknown and comparing known theoretical percentages with resultant analyzed percentages. Acceptable limits of standard unknowns is less than $\pm$ 2%. Sample variance was assessed by duplicate or triplicate sample analysis, variance (standard deviation/mean) was always less than 7%.

Grain Size Analysis of Sediments

Sample Splitting and Preparation

The procedure used combined wet and dry sieve techniques to determine particle size of sediment samples. Methods follow those of Folk (1974). Samples were thawed and thoroughly homogenized by stirring with a spatula. Spatulas were rinsed of all adhering sediment between samples. Size of the subsample for analysis was determined by the sand/silt ratio of the sample. During splitting, the sand/silt ratio was estimated and an appropriate sample weight was calculated. Subsamples were placed in clean, pre-weighed beakers. Debris was removed and any adhering sediment was washed into the beaker.

Wet Sieve Analysis (separation of coarse and fine fraction)

Beakers were placed in a drying oven and sediments were dried at less than 55°C until completely dry (approximately three days). Beakers were removed from drying oven and allowed to equilibrate to room temperature for a least a half-hour. Each beaker and its contents were weighed to the nearest .01 g. This weight minus the empty beaker weight was the total sample weight. Sediments in beakers were disaggregated using 100 ml of a dispersant solution in water (such as 50g Calgon/L water) and the sample was stirred until completely mixed and all lumps disappear. The amount and concentration of dispersant used was recorded on the data sheet for each sample. Sample beakers were placed in an ultrasonic cleaner for 15 minutes for disaggregation. Sediment dispersant slurry was poured into a 63 μm (ASTM #230, 4 phi) stainless steel or brass sieve in a large glass funnel suspended over a 1L hydrometer cylinder by a ring stand. All fine sediments were washed through the sieve with water. Fine sediments were captured in a 1L hydrometer cylinder. Coarse sediments remaining in sieve were collected and returned to the original sample beaker for quantification.

Dry Sieve Analysis (coarse fraction)

The coarse fraction was placed into a preweighed beaker, dried at 55-65°C, allowed to acclimate, and then weighed to 0.01 g. This weight, minus the empty beaker weight, was the coarse fraction weight. The coarse fraction was poured into the top sieve of a stack of ASTM sieves having the following sizes: No. 10 (2.0 mm), 18 (1.0 mm), 45 (0.354 mm), 60 (0.25 mm), 80 (0.177 mm), 120 (0.125 mm), and 170 (0.088 mm). The stack was placed on a mechanical shaker and shaken at medium intensity for 15 minutes. After shaking, each sieve was inverted onto a large piece of paper and tapped 5 times to free stuck particles. The sieve fractions were added cumulatively to a weighing dish, and the cumulative weight after each addition determined to 0.01g. The sample was returned to its original beaker, and saved until sample computations were completed and checked for errors.

Hydrometer Analysis (Fine Fraction)

Hydrometers used for the analysis were precalibrated using the techniques of Lewis (1984). A reference cylinder was filled with water and 100 ml of dispersant solution. Prior to the analysis, a hydrometer reading was taken for Cc, the composite correction for temperature, dispersing agent, and the meniscus.

For each of the sample cylinders, the volume was raised to 1000 ml using tap water. The hydrometer number was recorded, the temperature was noted, and the sample added and stirred for 1 minute. Hydrometer readings were taken at 1 minute, 3 minutes, 10 minutes, 30 minutes, 90 minutes, 4.5 hours and 24 hours. If the water temperature had changed by greater than 2°C then hydrometer corrections were remeasured. The colloidal weight was determined by subtracting the other fractions from the total weight.

Analytical Procedures

Fractional weights and percentages for various particle size fractions were calculated. If only wet sieve analysis was used, weight of fine fraction was computed by subtracting coarse fraction from total sample weight, and percent fine composition was calculated using fine fraction and total sample weights. If dry sieve was employed as well, fractional weights and percentages for the sieve were calculated using custom software on a Macintosh computer. Calibration factors were stored in the computer.

Toxicity Testing

Summary of Methods

All toxicity tests were conducted at the California Department of Fish and Game's Marine Pollution Studies Laboratory (MPSL) at Granite Canyon. Toxicity tests were conducted

by personnel from the Institute of Marine Sciences, University of California, Santa Cruz. As stated above, this report discusses data collected in 20 sampling Legs over a 5-year period. A number of different toxicity tests were employed during this period. All samples analyzed for toxicity were tested with the 10-day amphipod survival protocol using either *Rhepoxynius abronius* or *Eohaustorius estuarius*. *Rhepoxynius* was used in the majority of the earlier (Screening) Legs while *Eohaustorius* was used in later confirmation Legs. *Eohaustorius* was used in later Legs because it is less susceptible to fine grain sediments and unionized ammonia (EPA, 1994), two sediment characteristics which often confound interpretation of toxicity test results.

In addition to the 10-d solid phase amphipod test, all stations in Legs 1 through 4 were screened for pore water toxicity using the red abalone (*Haliotis rufescens*) 48-h embryo-larval development protocol. Pore water toxicity was also assessed in later Legs (1-23, and 45) using the purple sea urchin (*Strongylocentrotus purpuratus*) embryo-larval development protocol.

A number of other solid-phase and pore water toxicity test protocols were used in this study. In some cases these tests were included as part of ongoing protocol evaluations conducted as part of the Bay Protection and Toxic Cleanup Program. These included the 20-d solid phase growth and survival protocol using the polychaete worm *Neanthes arenaceodentata*, the 96-h solid phase sediment water interface protocol using purple sea urchin embryo development, and the 20-minute purple sea urchin fertilization protocol using pore water. In a few cases the bivalve embryo-larval development protocol using the Bay mussel *Mytilus galloprovincialis* was used to assess pore water or subsurface site water toxicity, because the salinity of the samples was too low to use sea urchin or abalone embryos. The specific methods for all of the species and protocols tested are described in more detail below.

Sediment Samples

Bedded sediment samples were transported to MPSL from the sample-processing laboratory at Moss Landing in ice chests at 4°C. Transport time was one hour. Samples were held at 4°C, and all tests were initiated within 14 days of sample collection, unless otherwise noted in the Quality Assurance Appendix. All sediment samples were handled according to procedures described in ASTM (1992) and BPTCP Quality Assurance Project Plan (QAPP, 1993). Samples were removed from refrigeration the day before the test, and loaded into test containers. Water quality was measured at the beginning and end of all tests. At these times pH, temperature, salinity, and dissolved oxygen were measured in overlying water from all samples to verify that water quality criteria were within the limits defined for each test protocol. Total ammonia concentrations were also measured at these times. Samples of overlying and interstitial water for hydrogen sulfide measurement were taken at the beginning and end of each toxicity test. Interstitial water measurements were taken from Leg 30 on, prior to that only overlying water

measurements were taken. Hydrogen sulfide samples were preserved with zinc acetate and stored in the dark until time of measurement.

Pore Water Samples

Once at MPSL, frozen porewater samples (squeeze extracted porewater, Legs 1-23) were stored in the dark at -12°C until required for testing. Experiments performed by the U.S. National Biological Survey have shown no effects of freezing porewater upon the results of toxicity tests (Carr et al., 1995). Unfrozen pore water samples (centrifuge extracted porewater, Legs 25-54) were stored in the dark, at 4°C. All porewater samples were equilibrated to test temperature (15°C) on the day of a test, and pH, temperature, salinity, and dissolved oxygen were measured in all samples to verify water quality criteria were within the limits defined for the test protocol. Total ammonia and sulfide concentrations were also measured. Pore water samples with salinities outside specified ranges for each protocol were adjusted to within the acceptable range. Salinities were increased by the addition of hypersaline brine, 60 to 80‰, drawn from partially frozen seawater. Dilution water consisted of Granite Canyon seawater (32 to 34‰). Water quality parameters were measured at the beginning and end of each test.

Subsurface Water Samples

Abalone, mussel and urchin embryo-larval development tests were performed on selected subsurface water column samples (described above). Toxicity tests were initiated within 14 days of the sample collection date. Water quality parameters, including ammonia and sulfide concentrations, were measured in one replicate test container from each sample in the overlying water as described above. Measurements were taken at the beginning and end of all tests.

Measurement of Ammonia and Hydrogen Sulfide

Total ammonia concentrations were measured using an Orion Model 95-12 Ammonia Electrode. The concentration of unionized ammonia was derived from the concentration of total ammonia using the following equation (from Whitfield 1974, 1978):

$$[NH_3] = [\text{total ammonia}] \times ((1 + \text{antilog}(pK_a^\circ - pH))^{-1}),$$

where pK_a° is the stoichiometric acidic hydrolysis constant for the test temperature and salinity. Values for pK_a°were experimentally derived by Khoo et al. (1977). The method detection limit for total ammonia was 0.1 mg/L.

Total sulfide concentrations were measured using an Orion Model 94-16 Silver/Sulfide Electrode, except that samples tested after February, 1994, were measured on a spectrophotometer using a colorimetric method (Phillips et al., 1997). The concentration

of hydrogen sulfide was derived from the concentration of total sulfide by using the following equation (ASCE, 1989):

$$[H_2S] = [S^{2-}] \times (1 - ((1 + \text{antilog}(pK_a° - pH))^{-1})),$$

where temperature and salinity dependent $pK_a°$ values were taken from Savenko (1977). The method detection limit for total sulfide was 0.1 mg/L for the electrode method, and 0.01 mg/L for the colorimetric method. Values and corresponding detection limits for unionized ammonia and hydrogen sulfide were an order of magnitude lower than those for total ammonia and total sulfide, respectively. Care was taken with all sulfide and ammonia samples to minimize volatilization by keeping water quality sample containers capped tightly until analysis.

Marine (*Rhepoxynius abronius*) and Estuarine (*Eohaustorius estuarius*) Amphipod Survival Tests

Solid-phase sediment sample toxicity was assessed using the 10-day amphipod survival toxicity test protocols outlined in EPA 1994. All *Eohaustorius* and *Rhepoxynius* were obtained from Northwestern Aquatic Sciences in Yaquina Bay, Oregon. Animals were separated into groups of approximately 100 and placed in polyethylene boxes containing Yaquina Bay collection site sediment, then shipped on ice via overnight courier. Upon arrival at Granite Canyon, the *Eohaustorius* were acclimated to 20‰ (T=15°C), and *Rhepoxynius* were acclimated to 28‰ (T=15°C). Once acclimated, the animals were held for an additional 48-hours prior to addition to the test containers. Upon arrival at Granite Canyon, the amphipods were acclimated slowly (<2‰ per day) to 28‰ seawater (T=20°C). Once acclimated, the animals were held for an additional 48 hours prior to inoculation into the test containers.

Test containers were one liter glass beakers or jars containing 2 cm of sediment and filled to the 700-ml line with control seawater adjusted to the appropriate salinity using spring water or distilled well water. Test sediments were not sieved for indigenous organisms prior to testing although at the conclusion of the test, the presence of any predators was noted and recorded on the data sheet. Test sediment and overlying water were allowed to equilibrate for 24 hours, after which 20 amphipods were placed in each beaker along with control seawater to fill test containers to the one-liter line. Test chambers were aerated gently and illuminated continuously at ambient laboratory light levels.

Five laboratory replicates of each sample were tested for ten days. A negative sediment control consisting of five lab replicates of Yaquina Bay home sediment for *Eohaustorius* and *Rhepoxynius* was included with each sediment test. After ten days, the sediments were sieved through a 0.5-mm Nitex screen to recover the test animals, and the number of survivors was recorded for each replicate.

Positive control reference tests were conducted concurrently with each sediment test using cadmium chloride as a reference toxicant. For these tests, amphipod survival was recorded in three replicates of four cadmium concentrations after a 96-hour water-only exposure. A negative seawater control consisting of one-micron-filtered Granite Canyon seawater, diluted to the appropriate salinity was compared to all cadmium concentrations.

Amphipod survival for each replicate was calculated as:

$$\frac{\text{(Number of surviving amphipods)}}{\text{(Initial number of amphipods)}} \times 100$$

Abalone (*Haliotis rufescens*) Embryo-Larval Development Test

The red abalone (*Haliotis rufescens*) embryo-larval development test was conducted on some pore water and subsurface water samples. Details of the test protocol are given in EPA (1995). A brief description of the method follows.

Adult male and female abalone were induced to spawn separately using a dilute solution of hydrogen peroxide in seawater. Fertilized eggs were distributed to the test containers within one hour of fertilization. Test containers were polyethylene-capped, seawater leached, 20-ml glass scintillation vials containing 10 ml of sample. Each test container was inoculated with 100 embryos (10/mL). Samples that were tested at multiple concentrations were diluted with one-micron-filtered Granite Canyon seawater. Laboratory controls were included with each set of samples tested. Controls include a dilution water control consisting of Granite Canyon seawater, and a brine control with all samples that require brine adjustment. Tests were conducted at ambient seawater salinity (33±2‰). A 48-h positive control reference test was conducted concurrently with each pore water test using a dilution series of zinc sulfate as a reference toxicant.

After a 48-h exposure period, developing larvae were fixed in 5% buffered formalin. All larvae in each container were examined using an inverted light microscope at 100x to determine the proportion of veliger larvae with normal shells, as described in EPA (1995). Percent normal development was calculated as:

$$\frac{\text{Number of normally developed larvae counted}}{\text{Total number of larvae counted}} \times 100$$

Bay Mussel (*Mytilus* spp.) Embryo-Larval Development Test

The bay mussel (*Mytilus* spp.) embryo-larval development test was conducted on some low salinity pore water and subsurface water samples because this protocol is more tolerant than abalone and sea urchin embryos to lower salinities. Details of the test protocol are given in EPA (1995). A brief description of the method follows.

Adult male and female mussels were induced to spawn separately using temperature shock by raising the ambient temperature by 10°C. Fertilized eggs were distributed to the test containers within four hours of fertilization. Test containers were polyethylene-capped, seawater leached, 20-ml glass scintillation vials containing 10 mLs of sample. Each test container was inoculated with 150 to 300 embryos (15-30/mL) consistent among replicates and treatments within a test set. Samples that were tested at multiple concentrations were diluted with one-micron-filtered Granite Canyon seawater. Laboratory controls were included with each set of samples tested. Controls include a dilution water control consisting of Granite Canyon seawater, a brine control with all samples that require brine adjustment. Tests were conducted at 28±2‰. A 48-h positive control reference test was conducted concurrently with each test using a dilution series of cadmium chloride as a reference toxicant.

After a 48-h exposure period, developing larvae were fixed in 5% buffered formalin. All larvae in each container were examined using an inverted light microscope at 100x to determine the proportion of normal live prossidoconch larvae, as described in EPA (1995). Percent normal live larvae was calculated as:

$$\frac{\text{Number of normal larvae}}{\text{Initial embryo density}} \times 100$$

Polychaete Worm (*Neanthes arenaceodentata*) Survival and Growth Test

The *Neanthes* test followed procedures described in Puget Sound Protocols (1992). Emergent juvenile *Neanthes arenaceodentata* (2-3 weeks old) were obtained from Dr. Donald Reish of California State University, Long Beach. Worms were shipped in seawater in plastic bags at ambient temperature via overnight courier. Upon arrival at MPSL, worms were allowed to acclimate gradually to 28‰ salinity (<2‰ per day, T=15°C). Once acclimated, the worms were maintained at least 48 hours, and no longer than 10 days, before the start of the test.

Test containers were one-liter glass beakers or jars containing 2 cm of sediment and filled to the 700-ml line with seawater adjusted to 28‰ using spring water or distilled well water. Test sediments were not sieved for indigenous organisms prior to testing, but the presence of any predators was noted and recorded on the data sheet at the conclusion of the test. Test sediment and overlying water were allowed to equilibrate for 24 hours, after which 5 worms were placed in each beaker along with 28‰ seawater to fill test containers to the one-liter line. Test chambers were aerated gently and illuminated continuously at ambient laboratory light levels. Worms were fed TetraMin® every 2 days, and overlying water was renewed every 3 days. Water quality parameters were measured at the time of renewals.

After 20 days, samples were sieved through a 0.5-mm Nitex screen, and the number of surviving worms recorded. Surviving worms from each replicate were wrapped in an

piece of pre-weighed aluminum foil, and placed in a drying oven until reaching a constant weight. Each foil packet was then weighed to the nearest 0.1 mg. Worm survival and mean weight/worm for each replicate was calculated as follows:

$$\text{Percent worm survival} = \frac{\text{(Number of surviving worms)}}{\text{(Initial number of worms)}} \times 100$$

$$\text{Mean weight per worm} = \frac{\text{(Total weight - foil weight)}}{\text{(Number of surviving worms)}} \times 100$$

Purple Sea Urchin (*Strongylocentrotus purpuratus*) Embryo-Larval Development Test

The sea urchin (*Strongylocentrotus purpuratus*) larval development test was conducted on some pore water and solid phase sediment-water interface samples. Details of the test protocol are given in EPA (1995). A brief description of the method follows.

Sea urchins were collected from the Monterey County coast near Granite Canyon, and held at MPSL at ambient seawater temperature and salinity (33±2‰) until testing. Adult sea urchins were held in complete darkness to preserve gonadal condition. On the day of a test, urchins were induced to spawn in air by injection with 0.5M KCl. Eggs and sperm collected from the urchins were mixed in seawater at a 500 to 1 sperm to egg ratio, and embryos were distributed to test containers within 1 hour of fertilization. Test containers were polyethylene-capped, seawater leached, 20-ml glass scintillation vials containing 10 mLs of sample. Each test container was inoculated with approximately 250 embryos (25/ml). All pore water samples were tested at three concentrations: 100, 50 and 25% pore water, each having three replicates. Pore water samples were diluted with one-micron-filtered Granite Canyon seawater. Laboratory controls were included with each set of samples tested. Controls include a dilution water control consisting of Granite Canyon seawater, and a brine control with all samples that require brine adjustment. Tests were conducted at ambient seawater salinity (33±2‰). A 96-hour positive control reference test was conducted concurrently with each pore water test using a dilution series of copper chloride as a reference toxicant.

After a 96-hour exposure, larvae were fixed in 5% buffered formalin. Approximately 100 larvae in each container were examined under an inverted light microscope at 100x to determine the proportion of normally developed larvae as described in EPA (1995). Visual clues used to identify embryos as normal included development of skeletal rods (spicules) that extend beyond half the length of the larvae and normal development of a three-part gut. Embryos demonstrating retarded development were considered abnormal. Percent normal development was calculated as:

$$\frac{\text{Number of normally developed larvae counted}}{\text{Total number of larvae counted}} \times 100$$

Purple Sea Urchin (*Strongylocentrotus purpuratus*) Embryo-Larval Development Test Exposed at the Sediment-Water Interface

In some cases solid-phase sediment toxicity was assessed using the purple sea urchin (*Strongylocentrotus purpuratus*) embryo/larval development test. In this case, sea urchin embryos were exposed to intact (un-homogenized) sediment cores at the sediment-water interface. Intact sediment cores were collected directly from the Van Veen grab sampler. Details of the test protocol are given in the MPSL Standard Operating Procedure, which follows the EPA methods manual (1995). A brief description of the method follows.

Sediment-water interface test containers consisted of a polycarbonate tube with a 25-µm screened bottom placed so that the screen was within 1 cm of the surface of an intact sediment core (Anderson et al., 1996). Seawater at ambient salinity was poured into the core tube and allowed to equilibrate for 24 hours before the start of the test. After inserting the screen tube into the equilibrated cores, each tube was inoculated with approximately 250 embryos obtained using the methods described above. A negative laboratory control consisted of the Yaquina Bay home sediment used in all amphipod tests. Tests were conducted at ambient seawater salinity ± 2‰. Ambient salinity at Granite Canyon is usually 32 to 34‰. A positive control reference test was conducted concurrently with the test using a dilution series of copper chloride as a reference toxicant.

After an exposure period of 96 hours, larvae were fixed in 5% buffered formalin. One hundred larvae in each container were examined under an inverted light microscope at 100x to determine the proportion of normally developed larvae as described in EPA (1995). Percent normal development was calculated as:

$$\frac{\text{Number of normally developed larvae counted}}{\text{Total number of larvae counted}} \times 100$$

Sea Urchin (*Strongylocentrotus purpuratus*) Fertilization Test

The sea urchin (*Strongylocentrotus purpuratus*) fertilization test was conducted on pore water samples. Details of the test protocol are described in Dinnel et al. (1987). Sea urchins were from the same stock described for the sea urchin larval development test. On the day of a test, urchins were induced to spawn in air by injection with 0.5M KCl. Sperm were exposed in test containers for sixty minutes before approximately 1000 eggs were added. After twenty minutes of fertilization, the test was fixed in a 5% buffered formalin solution. A constant sperm to egg ratio of 500 to 1 was used in all tests. This ratio maintained fertilization in the 70-90% range required by the test protocol. Fertilization was determined by the presence or absence of a fertilization membrane. Test containers were polyethylene-capped, seawater leached, 20-ml glass scintillation vials containing 5 mls of pore water. Pore water samples were diluted with one micron-filtered Granite Canyon seawater. Laboratory controls were included with each set of samples

tested. Controls included a dilution water control consisting of Granite Canyon seawater, a brine control with all samples that require brine adjustment. Tests were conducted at ambient seawater salinity (33±2 ppt). A positive control reference test (1 hour sperm exposure) was conducted concurrently with each pore water test using a dilution series of copper chloride as a reference toxicant. All eggs in each container were examined under an inverted light microscope at 100x, and counted as either fertilized or unfertilized. Percent fertilization was calculated as:

$$\frac{\text{Number of fertilized eggs}}{\text{Number of eggs observed}} \times 100$$

Test Acceptability and Evaluation

Quality Assurance/Quality Control (QA/QC) guidelines for the toxicity tests used in the BPTCP project are summarized in the BPTCP Quality Assurance Project Plan (*Stephenson et al.,* 1994). Test acceptability criteria from published protocols were evaluated for all tests. Quality assurance checklists were compiled that noted compliance for all tests with each of these criteria. Evaluation codes were assigned to each deviation from QA/QC guidelines, and can be summarized as follows:

-3: sample has minor exceedances of QA criteria that are unlikely to affect assessments.
-4: sample meets or exceeds control criteria requirements.
-5: data has exceedances, but are generally usable for most assessments and reporting purposes.
-6: sample has major exceedances of control criteria requirements and the data is not usable for most assessments and reporting purposes.

It is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations be consulted before using the data. Test data judged to be unacceptable are not reported, and samples from unacceptable tests are retested if necessary.

Benthic Community Analysis

Each catalogued sample was processed individually in the laboratory to obtain an accurate assessment of species diversity and abundance. All macroinvertebrates were sorted from residues under a dissecting microscope, identified to lowest possible taxon, and counted. Laboratory processing of benthic cores consists of both rough and fine sorting. Initial sorting separates animals into large taxonomic groups such as polychaetes, crustaceans, mollusks and other (e.g., phoronids). Bound laboratory logbooks were maintained and used to record number of samples processed by each technician, as well as results of any sample resorts, if necessary. Sorters were required to sign and date a Milestone Progress Checksheet for each replicate sample processed. Specimens of similar taxonomic groups were placed in vials and labeled internally and

externally with project, date collected, site/station information, and IDORG. In-house senior taxonomists and outside specialists processed and verified the accuracy of species identification and enumeration. An archived voucher specimen collection was established at this time.

Bioaccumulation

28-day Clam (*Macoma balthica*) Bioaccumulation Test

The 28-day bioaccumulation test with *Macoma nauta* was conducted according to EPA/Army Corps of Engineers Inland Testing Manual (EPA/ACOE, 1994). Clams were obtained from Brezina and Associates (Dillon Beach, CA). Clams arrived via overnight courier on day 0 of the test. Test containers consisted of 5L polyethylene trays with 2.5L of sediment. Sediment was loaded into test containers, and allowed to equilibrate for 24 hours before clams were added. Fifteen clams were placed in 3 replicate containers and flow-through seawater was started at a rate of 120 mL per minute. After 28 days, sediment was screened and discarded. Surviving clams were placed in clean, flow-through seawater to depurate for 24 hours. After depuration, clams were blotted dry, weighed, and frozen for tissue analysis at -12°C.

A negative control consisting of Yaquina Bay amphipod home sediment from NWAS or *Macoma* collection site sediment was used. Three replicates of clams were depurated for 24 hours at the initiation of the test to obtain baseline tissue concentrations.

DATA ANALYSIS

Comparison of Chemistry with Sediment Quality Guideline Values

Bioavailability is the key to understanding the relationship between sediment chemistry and biological impacts. However, using TIEs, bioaccumulation analyses, or other specialized methods to evaluate bioavailability was not possible on the large number of samples evaluated in BPTCP studies to date. In order to assess large numbers of samples for their potential to impact biological resources, we compared sediment chemical concentrations to published guideline values derived from studies of approximately one thousand samples collected nationwide. These studies have used empirical observation of large data sets containing matching chemistry and biology data to provide guidance for evaluating the probability that measured contaminant concentrations may contribute to observed biological effects (MacDonald, 1996; Long et al., 1995). While the reported guideline values were derived from sediments containing mixtures of chemicals, they were calculated individually for each chemical. Their application may be confounded in sediments where biological responses are affected by synergistic or antagonistic interactions among multiple compounds, by unmeasured or unidentified compounds, or by unconsidered physical factors.

The National Status and Trends Program has evaluated chemical and toxicological evidence from a number or laboratory, field, and modeling studies to establish ranges of chemical concentrations which are rarely, sometimes, or usually associated with toxicity. Evaluation of available data (Long et al., 1995) has resulted in the identification of three concentration ranges for selected chemical compounds:

1) Minimal Effects Range: The range in concentrations over which toxic effects are rarely observed.

2) Possible Effects Range: The range in concentrations over which toxic effects are occasionally observed.

3) Probable Effects Range: The range in concentrations over which toxic effects are frequently or always observed.

Two different methods were used to determine these chemical ranges. One method developed by NOAA (Long et al., 1995) used chemical data which were associated with toxic response. These data were used to determine the lower 10th percentile of ranked data where chemical concentration was associated with an effect (Effects Range- Low, or ERL). Chemical concentrations below the ERL are not expected to have an effect. The Effects Range- Median (ERM) reflects the 50th percentile of ranked data and represents the level above which effects are expected to occur. Effects are occasionally expected to occur when chemical concentrations fall between the ERL and ERM.

The screening concentrations described by MacDonald (1996) also identify three ranges of chemical concentrations associated with toxic biological response but use an alternate method. The ranges are identified as PEL (Probable Effects Level), and TEL (Threshold Effects Level). TELs were derived by taking the geometric mean of the 50th percentile of the "No Effects" data and the 15th percentile of the "Effects" data. The PEL values were derived by taking the geometric mean of the 85th percentile of the "No Effects" data and the 50th percentile of the "Effects" data. The ERL, ERM, TEL, and PEL values are provided in Table 9.

Although different data sets and percentiles were used in these two approaches to derive chemical screening concentrations, they are in close agreement, usually within a factor of 2. Values reported for both methods are given in Table 1. Neither of these methods is advocated over the other in this report. Both are used in conjunction with biological measures in the following analysis to establish a weight-of-evidence approach to hotspot identification.

It should be noted that the degree of confidence that MacDonald (1996) and Long et al. (1995) had in their respective numerical guidelines varied considerably among the different chemical substances. For example, both had little confidence in the values for nickel, mercury, DDTs, dieldrin, and endrin. Swartz et al. (1994), reported an effect concentration for amphipods exposed to Total DDT in sediment based on laboratory

dose-response experiments and correlations with field data. This effect concentration is used instead of the ERM for total DDT in this report. This value is 100 μg total DDT per gram of organic carbon.

Non-Guideline Chemicals

To evaluate chemicals for which no ERM or PEL guidelines have been calculated, concentrations of specific chemicals were compared to the range of chemical concentrations in the BPTCP database. This database contains concentrations of approximately 120 analytes measured in sediments collected in the majority of California's bays, estuaries, lagoons and near coastal areas. The following information was described for each chemical: the Median Detection Limit (MDL), the number of samples analyzed, the number of samples above the MDL, the highest value in the dataset, and the 90th and 95th percentile thresholds for each chemical. In this report, chemicals for which no sediment quality guideline values have been published were compared to the 90th and 95th percentile thresholds, and to the range of concentration measured throughout the state for comparison (Table 10).

ERM and PEL Quotients

Sediment Quality Guideline quotients (SQGQ) were calculated to allow a simple comparison between observed chemical concentrations and guideline values developed for that chemical using a nationwide data base. To derive these quotients for a given sample, the concentration of each chemical was divided by its respective SQG value to get a quotient. Quotient values greater than 1 indicated that the chemical in that sample exceeded its guideline value, and was likely to be associated with biological effects, based on comparisons to the large data sets from which the guidelines were derived.

In screening samples for potential effects of chemical mixtures, the quotient values for 16 chemicals were averaged to get a mean SQG quotient. In this report, sample chemical concentrations were compared primarily to ERM values, where possible, and mean ERMQ values were generally used as summary quotients for chemical mixtures. This mean value was calculated somewhat differently from mean ERMQ values presented by Long et al. (1998), as is discussed below in the section on the use of threshold values. The chemicals used to derive this mean value were: Antimony, Cadmium, Chromium, Copper, Lead, Mercury, Silver, Zinc, Total DDT (using the DDT value of Swartz, et al., 1994), Total Chlordane, Dieldrin, Endrin, Total PCBs, low molecular weight (LMW) PAHs, and high molecular weight (HMW) PAHs. In cases where concentrations of these chemicals were below the analytical method detection limit (MDL), a value of one-half the MDL was used in the derivation of the mean ERMQ. The use of mean ERMQ values was designed to assist with screening samples in which multiple compounds contributed to the overall level of chemical pollution, and was intended for use in conjunction with the standard chemical-specific method discussed above. Although synergistic effects are possible with the different contaminants, this is not implied by the use of mean SQGQs. Quotients are presented as a method for comparing relative degree of contamination at these stations to aid management efforts.

Table 9. Comparison of sediment screening levels developed by NOAA and the state of Florida

	State of Florida (1)		NOAA (2,3)	
SUBSTANCE	TEL	PEL	ERL	ERM
Total PCB (ug/kg- dry weight)	21.550	188.79	22.70	180.0
PAH (ug/kg- dry weight)				
Acenaphthene	6.710	88.90	16.00	500.0
Acenaphthylene	5.870	127.89	44.00	640.0
Anthracene	46.850	245.00	85.30	1100.0
Fluorene	21.170	144.35	19.00	540.0
2-methylnaphthalene	20.210	201.28	70.00	670.0
Naphthalene	34.570	390.64	160.00	2100.0
Phenanthrene	86.680	543.53	240.00	1500.0
Total LMW-PAHs	311.700	1442.00	552.00	3160.0
Benz(a)anthracene	74.830	692.53	261.00	1600.0
Benzo(a)pyrene	88.810	763.22	430.00	1600.0
Chrysene	107.710	845.98	384.00	2800.0
Dibenz(a,h)anthracene	6.220	134.61	63.40	260.0
Fluoranthene	112.820	1493.54	600.00	5100.0
Pyrene	152.660	1397.60	665.00	2600.0
Total HMW-PAHs	655.340	6676.14	1700.00	9600.0
Total PAHs	1684.060	16770.54	4022.00	44792.0
Pesticides (ug/kg- dry weight)				
p,p'DDE	2.070	374.17	2.20	27.0
p,p'DDT	1.190	4.77		
Total DDT	3.890	51.70	1.58	100.0/g o.c.
Lindane	0.320	0.99		
Chlordane	2.260	4.79	2.00	6.0
Dieldrin	0.715	4.30		8.0
Endrin				45.0
Metals (mg/kg- dry weight)				
Arsenic	7.240	41.60	8.20	70.0
Antimony			2.00	25.0
Cadmium	0.676	4.21	1.20	9.6
Chromium	52.300	160.40	81.00	370.0
Copper	18.700	108.20	34.00	270.0
Lead	30.240	112.18	46.70	218.0
Mercury	0.130	0.70	0.15	0.7
Nickel	15.900	42.80	20.90	51.6
Silver	0.733	1.77	1.00	3.7
Zinc	124.000	271.00	150.00	410.0

(1) D.D. MacDonald, 1994
(2) Long et al., 1995
(3) Long and Morgan, 1990

Table 10. Concentrations of non-guideline chemicals relative to the BPTCP database.

Chemical Name	BPTCP Code	MDL	# Anal.	# Above MDL	Highest Value	90th % Threshold	95th % Threshold	ERM
Aluminum	ALUMINUM	1	603	603	165,000	83,000	101,000	n/a
Antimony	ANTIMONY	0.1	603	603	52.8	3.35	5.35	25
Arsenic	ARSENIC	0.1	544	544	1140	21.2	26	70
Cadmium	CADMIUM	0.002	603	603	27.9	1.76	2.67	9.6
Chromium	CHROMIUM	0.02	603	603	860	212	250	370
Copper	COPPER	0.003	603	603	7,800	300	400	270
Iron	IRON	0.1	603	603	336,300	55,300	59,900	n/a
Lead	LEAD	0.03	603	603	2100	120	171	218
Manganese	MANGANESE	0.05	603	603	1190	630	682	n/a
Mercury	MERCURY	0.03	603	603	9.14	0.969	1.54	0.7
Nickel	NICKEL	0.1	550	550	167	88	109	51.6
Silver	SILVER	0.002	603	603	35.7	1.58	2.22	3.7
Selenium	SELENIUM	0.1	544	386	35.7	1.09	1.9	n/a
Tin	TIN	0.02	603	603	92.9	9.03	12	n/a
Zinc	ZINC	0.05	603	603	6,000	490	630	410
Aldrin	ALDRIN	0.5	621	22	8.2	4.7	8.2	n/a
Chloropyrifos	CLPYR	1	444	130	78	28	44.4	n/a
Total Chlordane	TTL_CHLR	3	612	403	246	44.57	69.5	6
Dacthal	DACTH	0.2	465	59	25.2	7.51	19	n/a
Total DDT	TTL_DDT	5.4	621	507	3,569	235.5	471.9	46.1, 100/OC
p',p'Dichlorobenz	DICLB	3	465	46	63.3	30.6	35.2	n/a
Dieldrin	DIELDRIN	0.5	618	210	62.6	11.7	16.8	8
Endosulfan I	ENDO_I	0.5	606	17	19.6	13.4	19.6	n/a
Endosulfan II	ENDO_II	1	606	59	59.8	10.4	13.8	n/a
Endosulfan Sulf.	ESO4	2	606	40	163	21	45.6	n/a
Endrin	ENDRIN	2	618	15	21.8	16.4	21.8	45
Ethion	ETHION	2	69	4	36.4	36.4	36.4	n/a
alpha-HCH	HCHA	0.2	465	14	292	26.1	292	n/a
beta-HCH	HCHB	1	465	6	56.8	56.8	56.8	n/a
g-HCH (Lindane)	HCHG	0.2	618	43	8.4	2.82	8.24	0.99 (PEL)
delta-HCH	HCHD	0.5	465	11	99.4	14.4	99.4	n/a
Heptachlor	HEPTACHLR	0.5	621	58	15.8	4.5	7.3	n/a
Heptachlor Epxid	HE	0.5	618	27	17.8	2.5	3.1	n/a
Hexachlorobenz.	HCB	0.2	621	174	59.7	3.63	7.07	n/a
Methoxychlor	METHOXY	1.5	606	60	131	55.3	78.6	n/a
Mirex	MIREX	0.5	620	25	103	2.6	3.74	n/a
Oxadiazon	OXAD	6	465	12	114	45.8	114	n/a
Oxychlordane	OCDAN	0.5	465	37	30.3	10.7	12.3	n/a
Toxaphene	TOXAPH	50	609	10	3,200	3,200	15,700	n/a
Tributyltin	TBT	0.003	555	555	6.21	0.422	0.724	n/a
Total PCB	TTL_PCB	9	684	628	19,901	497	865	180

Table 10 cont. Concentrations of non-guideline chemicals relative to the BPTCP database.

Chemical Name	BPTCP Code	MDL	# Anal.	# Above MDL	Highest Value	90th % Threshold	95th % Threshold	ERM
Low Ml Wt PAHs	LMW_PAH	60	624	473	92,097	2,585	4,253	3,160
High MlWt PAHs	HMW_PAH	60	628	606	225,740	15,727	24,473	9,600
Total PAHs	TTL_PAH	60	628	628	227,801	17,107	27,485	44,792
Total Org Carbon	TOC	n/a	686	686	26.8	3	4.01	n/a
ERM Sum Quot.	ERMQ	n/a	548	n/a	4.37	1.11	1.4	n/a
PEL Sum Quot.	PELQ	n/a	553	n/a	7.8	1.52	1.95	n/a

Statistical Analysis of Toxicity Test Data

Samples were defined as toxic if the following two criteria were met: 1) there was a significant difference ($p<0.05$) in mean organism response (e.g., percent survival) between a sample and the control as determined using a separate-variance t-test, and 2) mean organism response in the toxicity test, as a percent of the control, was less than the threshold based on the 90th percentile Minimum Significant Difference (MSD) value, as a percent of the laboratory control value.

Statistical significance in t-tests is determined by dividing an expression of the difference between sample and control by an expression of the variance among replicates. We used a "separate variance" t-test that adjusted the degrees of freedom to account for variance heterogeneity among samples. If the difference between sample and control is large relative to the variance among replicates, then the difference is determined to be significant. In many cases, however, low between-replicate variance will cause a comparison to be considered significant, even though the magnitude of the difference can be small. These samples were identified as "significantly toxic" in this report in order to acknowledge the statistical difference, although it is recognized that the magnitude of toxicity in some cases may not have been biologically meaningful. A second tier of "significant toxicity" was considered in order to identify those samples where the toxic response was considered to be more biologically meaningful. This involved a second comparison to the Minimum Significant Difference value specific to each toxicity test protocol. The magnitude of difference that can be identified as significant is termed the Minimum Significant Difference (MSD), which is dependent on the selected alpha level, the level of between-replicate variation, and the number of replicates specific to the experiment. With the number of replicates and alpha level held constant, the MSD varies with the degree of between-replicate variation. The "detectable difference" inherent to the toxicity test protocol can be determined by identifying the magnitude of difference that can be detected by the protocol 90% of the time (Schimmel et al., 1994; Thursby and Schlekat, 1993). This is equivalent to setting the level of statistical power at 0.90 for these comparisons. This is accomplished by determining the MSD for each t-test conducted, ranking them in ascending order, and identifying the 90th percentile MSD, the MSD that is larger than or equal to 90% of the MSD values generated.

Thursby et al. (1997) identify a value of 80% of the control as the detectable difference for the *Ampelisca* test, and similar values have been derived for BPTCP test data. Current BPTCP detectable difference (90th percentile MSD) values are listed in Table 11. In the maps and tables presented in this report, samples that were significantly different relative to the control value using a t-test are indicated with either a single asterisk (*) in the toxicity tables, or grey-shaded circles in the maps. Samples that were significantly different from the control value using a t-test and the MSD value are indicated with either a "T" (= Toxic) in the toxicity tables, or black circles in the maps.

Table 11. Minimum Significant Difference (MSD) values calculated for selected toxicity tests.

Species	Name	MSD	% of control	N
Ee	Eohaustorius	25	75	385
Hr	Haliotis (5 reps)	10	90	131
Hr	Haliotis (3 reps)	36	64	336
Hr	Haliotis (all reps)	32	68	467
Me	Mytilus	20	80	223
Na Sv	Neanthes Sv	36	64	335
Na Wt	Neanthes Wt	56	44	335
Ra	Rhepoxynius	23	77	720
Sp Dev	Urchin Dev (5 reps)	22	78	309
Sp Dev	Urchin Dev (3 reps)	45	55	630
Sp Dev	Urchin Dev (all)	40	60	939
Sp Fert	Urchin Fert	12	88	79
Sp SWI	Urchin SWI	41	59	109

Relative Benthic Index

Benthic samples were sieved, sorted and the number of individuals of each species in each replicate core were identified. A number of summary statistics were calculated for each station, including summaries of total fauna, number of species, and the 4 major phyla (Polychaetes, Crustaceans, Molluscs, and Echinoderms).

The Relative Benthic Index (RBI) used in this study utilizes the above summarized fauna information in a refined version of the benthic index presented in the San Diego and Southern California Bays and Estuaries BPTCP reports (Fairey et al., 1996; Anderson et al., 1997; Fairey et al., In Press). It is based on toxicology and natural history considerations concerning responses of marine benthic communities to anthropogenic and natural disturbances. The community patterns used in the index include number of species (all taxa, only molluscs, and only crustaceans); and the number of individuals of crustaceans, the number of individuals of selected species that are indicators of relatively disturbed benthic habitats, and the number of individuals of selected species that are

indicators of relatively undisturbed benthic habitats. The RBI is developed for particular areas by selecting different indicator species. It does not require the presence of uncontaminated reference stations, and does not refer to data beyond that collected in each study. Often the evaluation of community degradation depends on comparisons to uncontaminated reference sites which are difficult to locate and vary for reasons that are unknown and unrelated to contamination.

In addition to review through discussions with other benthic ecologists (B. Thompson, R. Swartz, M. Bergen) involved in ecotoxicological research, the RBI presented here has undergone peer-review by the Scientific Planning and Review Committee (SPARC) convened by the BPTCP for review of all project activities (SWRCB, 1997). Modifications to the RBI suggested by the SPARC reviewers were incorporated into the index presented here.

Number of Species

The number of species often decreases with severe disturbances (Oliver et al., 1977, 1980; Lenihan and Oliver, 1995) and is the best indicator of biodiversity, particularly when species are sampled in relation to habitat area (Hurlbert, 1971; Jumars, 1975, 1976; Abel and Walters, 1979). Therefore, the first community parameter in the RBI is the total number of species found in a standard sample of habitat area. Among the more numerous large taxonomic groups, crustaceans are generally more sensitive to environmental contaminants and other anthropogenic disturbances than most other components of the infauna, particularly polychaetes (Pearson and Rosenberg, 1978; Reish et al., 1980; Thistle, 1981; Swartz et al., 1986; Stull et al., 1986; Oliver et al., 1977; Lenihan and Oliver, 1995; Lenihan et al., 1995). Speciose and numerically abundant crustacean faunas on the Pacific coast of the United States are generally only found in uncontaminated environments (Barnard, 1963), making the number of crustacean species an important indicator of overall environmental health. To a lesser degree, the number of mollusk species also increase with decreasing environmental stress (Stull et al., 1986; Swartz et al., 1986; Oliver et al., 1977), and are thus also included in the RBI. Polychaetes, crustaceans, and molluscs are the three dominate groups of benthic macro-invertebrates from many nearshore communities (Oliver et al., 1980), but unlike the crustaceans and molluscs many of the most opportunistic or weedy species are polychaete (Grassle and Grassle, 1974; McCall, 1977; Oliver et al., 1977; Pearson and Rosenberg, 1978; Reish et al., 1980; Sanders et al., 1980; Santos and Simon, 1980; Thistle, 1981; Rhoads et al., 1982; Lenihan and Oliver, 1995). As a result, the number of polychaete species was not used in the RBI, because they do not indicate as clearly either a relatively disturbed habitat or a relatively undisturbed habitat.

Number of Individuals

An increase in the number of crustacean individuals is also indicative of relatively healthy environments (Stull et al., 1986; Swartz et al., 1986; Oliver et al., 1977; Lenihan and Oliver, 1995), although sometimes one or two crustacean species can be abundant in

disturbed habitats (Vetter, 1995; Okey, 1997), but less so than for other major taxonomic groups, particularly polychaete worms (Pearson and Rosenberg, 1978; Grassle and Grassle, 1974; Oliver et al., 1977). Therefore, the number of individuals of crustaceans is also used in the RBI, but not the number of individuals in any other major taxonomic group.

Indicator Species

Even more than the number of species or the number of crustacean individuals, the population sizes of selected indicator species are strongly associated with benthic habitats that are relatively disturbed or undisturbed (Grassle and Grassle, 1974; Oliver et al., 1977; Davis and Spies, 1980; Westin, 1990; Lenihan and Oliver, 1995; Okey, 1997). Therefore, five species were used in the RBI as indicators of either highly disturbed or undisturbed benthic communities and habitats. The number and identity of indicator species can change from one regional study site to another. Selection of indicator species was based on known responses to anthropogenic and other disturbances (Grassle and Grassle, 1974; McCall, 1977; Oliver et al., 1977; Pearson and Rosenberg, 1978; Davis and Spies, 1980; Sanders et al., 1980; Santos and Simon, 1980; Thistle, 1981; Lenihan and Oliver, 1995; Okey, 1997) and related natural history such as life history traits (Grassle and Grassle, 1974; Oliver et al., 1977; Rhoads et al., 1978; Rhoads and Boyer, 1982; Lenihan and Oliver, 1995) and abundance patterns along environmental gradients and among the study stations (Oliver et al., 1980; Stull et al., 1986; Swartz et al., 1986; Weston, 1990). The 2 negative indicator species are highly opportunistic annelids which thrive in disturbed, polluted, or marginal environments, and are generally not found in less disturbed communities. The 3 positive indicator species are generally not found in polluted habitats and are characteristic of regions where anthropogenic and other severe disturbances do not play major roles in structuring communities. Each indicator species is discussed below:

Negative Indicator Species

Capitella capitata

The *Capitella* species complex is a cosmopolitan group which lives in a wide range of conditions: fouled or low oxygen, high organic matter and fine sediments. They are abundant around outfalls discharging biological wastes, and have a rapid (1 to 2 month) life cycle. *Capitella* are capable of surviving for days with little or no oxygen, and are often considered the best example of a "weedy", opportunistic species (Grassle and Grassle, 1974, 1976; Oliver et al., 1977; McCall, 1977; Pearson and Rosenberg, 1978; Lenihan and Oliver, 1995; Okey, 1995 and many others).

Oligochaetes

Oligochaetes are a poorly known group typically found in peripheral/disturbed habitats such as under decaying algae on beaches, and in fouled or low oxygen muds of back

bays, estuaries, and harbors (Brinkhurst and Simmons, 1968; Pearson and Rosenberg, 1978; Brinkhurst and Cook, 1980). They often occur in large masses devoid of other macrofauna. In SF Bay they may comprise 100% of the fauna where there is gross pollution (i.e., large amounts of organic material from sewage). If oxygen levels are sufficient, and there is little toxic waste and high bacterial levels, oligochaete densities become extremely high (Smith and Carlton, 1975; Brinkhurst and Simmons, 1968). They are well known indicators of relatively degraded freshwater ecosystems (Brinkhurst and Simmons, 1968; Pearson and Rosenberg, 1978; Brinkhurst and Cook, 1980).

Positive Indicator Species

Heterophoxus

Heterophoxus is a fossorial phoxocephalid amphipod which requires well-oxygenated, clean sediment (Slattery, 1985). They are shallow burrowers which occur in the top 1 cm of sand. They are major predators on small soft-bodied infauna (Oliver et al., 1982; Oliver and Slattery, 1985a). Phoxocephalids, such as the similar *Rhepoxynius* spp., are considered highly sensitive to sediment contaminants, and are commonly used in sediment bioassays (Swartz et al., 1979, 1984; Oakden et al., 1984a,b; Lenihan et al., 1995).

Monoculodes

Monoculodes is a fossorial oedocerotid amphipod which requires well-oxygenated, clean sediment (Oliver et al., 1980). They are shallow burrowers which occur at the sand surface/water interface. *Monoculodes* are carnivorous and therefore are probably active and sensitive to sediment surface quality (Mills, 1962; Bousfield, 1970; Bousfield, 1996). They can also colonize relatively small open patches in sandy habitats (Oliver et al., 1977) and have been selected as sensitive species to use in bioassays (Lenihan et al., 1995).

Tellina

The bivalve mollusc *Tellina* lives in clean, well-oxygenated sands of shallow water (Oliver et al., 1980). Species in Southern California attain great enough densities to be a major component of the shallow water, benthic infaunal community (Barnard, 1963). They are not known to be early colonists in disturbed sedimentary habitats (Oliver et al., 1977).

Calculation of RBI

Previous versions of the Benthic Index have used individual impact thresholds for determination of degree of negative impact to Total Fauna and Number of Crustacean Species (Fairey et al., 1996). While these thresholds have been useful, the necessarily arbitrary nature of the selection process introduced potential artifacts for stations whose

values for Total Fauna, Total Molluscs and Total Crustacea approached the threshold value. To address this problem, calculation of the Relative Benthic Index was revised to be based on percentages of the total range. The final threshold value for determination of impacted versus non-impacted sites was based on the overall Relative Benthic Index and selected using best professional judgment. Justification for this critical threshold value of the RBI is discussed below.

For total fauna, number of mollusk species and number of crustacean species, the maximum and minimum values in these parameters over all the stations were determined. For each station, the total number of species, total mollusk species, and total number of crustacean species were then converted to the percentage of the total range for these parameters. The number of crustacean individuals at each station is similarly converted to a percentage of the total range, and is added to the total fauna, mollusk, and crustacean species numbers. The community numbers thus represent four-sixth of the Relative Benthic Index for each station.

For the positive and negative indicator indices, the final index was weighted towards presence and absence of key indicator species, with abundance of each species given additional incremental weight. Accordingly, the abundance of each indicator species was transformed using a double square-root transformation to compress the range of values. For each species, the transformed abundance was converted to a percentage of the total range. The transformed values of the negative indicator species were summed and subtracted from the sum of the values for the positive indicator species.

The overall Relative Benthic Index was calculated by summing the values of the Total Fauna, Total Molluscs, Crustacean Species, and Indicator Species, and standardizing it to the total range. This resulted in a range in values from 0.00 (Most Impacted) to 1.00 (Least Impacted).

Use of RBI

It is not possible to compare directly RBI values between different regions. The high and low ranges of values vary based on the extreme values within each data set. In addition, different indicator species are often used between regions. What the RBI does provide is the relative "health" of each of the stations in a given data set compared to the other stations in the same data set.

The RBI does not indicate causality. While a low RBI value could be the result of chemical toxicity, it also could be the result of other types of anthropogenic disturbance, such as dredging, or could result from a variety of natural disturbances, such as freshwater runoff, temperature stratification, or storm impacts.

It is not possible to test the RBI to determine significance levels or confidence levels, or to statistically determine what ranking indicates significant impact. However, since a degree of arbitrariness is incorporated into all determinations of significance, whether

statistical or intuitive, this should not be considered a significant drawback. For this study, the threshold for significantly impacted benthic community structure was set at a Relative Benthic Index less than or equal to 0.30. Several factors were considered in deriving this threshold: the stations below the threshold have few overall species, few crustacean species, presence of negative indicator species, and absence of positive indicator species. While it is recognized that this threshold is somewhat arbitrary, it was selected based on the best professional judgement of the benthic ecologists who performed the analyses to be conservative. Stations having an RBI $\leq$0.30 would be considered to be significantly degraded by most naturalists familiar with southern California's bays and estuaries. The RBI is not intended as a sole indicator of biological impact. For the purposes of this report, it should only be used in combination with chemistry and toxicity test data to provide a "weight-of-evidence" for determination of the most impacted stations.

Multivariate and Univariate Techniques for Comparison of Chemistry and Toxicity Data

While the main objective of this study was to identify stations of concern, the data were also evaluated to investigate whether certain individual chemicals were found to be associated with biological impacts. These preliminary evaluations were made using Principal Components Analysis (a multivariate technique) and Correlation analysis (a univariate technique). Identification of chemicals that were associated with toxicity does not demonstrate cause and effect, but it allows the development of hypotheses concerning the chemical causes of biological impacts. Causes of toxicity can later be investigated with TIEs and other more extensive toxicological methods.

Principle Components Analysis

Because many chemicals tend to co-vary in sediments, Principal Components Analysis (PCA) was used to investigate relationships between chemistry, toxicity, and benthic indicators prior to conducting simple correlation analyses. The PCA was treated as exploratory in nature; therefore, data were not screened for sample size, normality, linearity, outliers or multicolinearity.

Principal components were extracted using SYSTAT statistics software (v. 7.0.1 for Windows; SPSS, 1997). The analysis was run with a correlation matrix and varimax rotation, and included any factors which accounted for greater than 10% of the total variance. A component loading cutoff value of 0.40 was used in selecting variables for inclusion into factors, based on suggestions by Tabachnick and Fidell (1996) that a cut-off of at least 0.32 be used, and that component loadings of greater than 0.45 are considered fair or better.

Correlation Analysis

In order to examine associations between levels of pollutants in sediments and the response observed in toxicity tests, Spearman rank correlation coefficients (Rho) were calculated using Systat 7.0 software. Since the response of the control groups for each toxicity test was both acceptable and consistent, the sediment toxicity test data were not

normalized to control results. Rho values, corrected for ties, were determined for each toxicity test and each pollutant or pollutant class, and these Rho values were compared to tables at the appropriate n value to determine the level of statistical significance associated with the observed correlation.

Strategy for Categorization of Stations Based on Available Monitoring Data

One goal of this study was to identify those sites considered to be of primary concern in terms of chemical pollution and potential impacts on beneficial uses identified through biological measures. By comparing the relative degree of chemical pollution with different measures of toxic effect, and combining these data with information on benthic community degradation, a weight-of-evidence approach may be employed to identify the most impacted sites.

It is recognized that any conclusions based on interpretation of these data should be considered preliminary because of the limited nature of the data set. As with any study of this scope, it is difficult to identify all variables that may be associated with biological responses at a particular location. For example, our characterization of organic chemical contamination is constrained by the limited number of contaminants measured (Appendix B). Samples often contained un-identified organic compounds that were not further characterized due to the limited scope of the study; these could have contributed to the toxicity of the samples. In addition, no measures of interstitial water chemical concentrations were conducted for substances other than ammonia and hydrogen sulfide. Therefore, our ability to characterize bioavailability of the bulk-phase chemicals is limited to TOC normalization. In addition, a limited number of measures of Acid Volatile Sulfides and associated metals (AVS-SEM) were made, which limits our ability to predict bioavailability and toxicity of metals. Conclusions regarding benthic community degradation was limited by the lack of *in situ* sediment dissolved oxygen levels.

Because of these limitations, characterization of the most impacted stations must rely, to a certain extent, on a qualitative interpretation of the data. To accomplish this, individual stations were evaluated based on a Triad of measures (*sensu* Chapman et al., 1987): chemical pollution, benthic community structure, and toxicity to various species.

Using this available data, stations were categorized based on chemical concentrations, the severity of biological impacts, and the completeness of sample characterization. The conceptual framework for categorizing stations is provided in the listing below. In order to categorize stations, it was necessary to define terms such as "elevated chemistry" or "sample toxicity" for a large number of samples. To be consistent, thresholds were established for this purpose. Those thresholds are defined below in the description of the first category. Toxicity thresholds were based on the t-test plus detectable difference criteria (MSD). Benthic community degradation was defined as a Relative Benthic Index ≤ 0.30, based on the best professional judgement of the ecologists who developed the

index. Elevated chemistry was defined as 6 or more chemicals exceeding ERM guidelines, a ERMQ above 0.5, or one or more chemicals at concentrations high enough to likely be associated with biological effects, based on best professional judgement. The ERMQ value of 0.5 was based on an evaluation by Long et al. (in press) that indicated at least 50% of samples in a nationwide evaluation exhibited toxicity when this value was exceeded. The BPTCP has calculated ERMQ values using a different suite of chemicals than that used by Long et al. (in press). The primary differences are that Long et al. (in press) used a number of individual PAHs and the DDT ERM, whereas the BPTCP used only the summary low and high molecular weight PAHs (2 values) and the sediment effect value reported by Swartz et al. (1994) as the DDT value. When the ERMQ values, as calculated by the BPTCP, were compared with amphipod toxicity in the statewide database, 62% of the samples with ERMQs greater than 0.5 were found to be toxic to amphipods.

These chemistry, toxicity, and benthic community threshold values were derived to allow a consistent interpretation of data from samples throughout the Region and state. It is important to note that while these threshold values were selected based on the best available information and best professional judgement of the authors, they are by nature discretionary. Chemical bioavailability varies from sample to sample, and the exact definitions of toxicity and benthic degradation depend on factors not easily analyzed in a large number of samples. Further data collection and analysis may result in the determination of different threshold values and different definitions for biological impacts. The thresholds and station characterizations used here are not intended to be absolute. They are intended to aid in the screening of data collected from a large number of locations, in order to support management decisions. In some cases additional studies may be undertaken to further evaluate the sites of concern identified in this Region-wide assessment. As more data become available through additional studies, more accurate site-specific characterizations of sediment quality may result.

The sites were categorized as follows based on the combination of measurements:

Category 1:
Stations with elevated chemistry*, recurrent toxicity, and degraded benthos.

Category 2:
Stations with elevated chemistry, one (of one) toxicity hit, and degraded benthos.
(Only one sample tested and significant toxicity indicated.)

Category 3:
Stations with elevated tissue chemical concentrations.
Stations where muscle or whole body tissue residues in resident, non-migratory organisms exceed levels established by the FDA or NAS for protection of human health or wildlife. Organisms may be either deployed or collected from resident populations. (FDA and NAS values are given in SWRCB FED on Guidance for THS Cleanup Plans)

Category 4:
Stations with elevated chemistry and biological impacts measured by either toxicity or benthos:

Stations with elevated chemistry, degraded benthos, and
No available toxicity data.

Stations with elevated chemistry, recurrent toxicity and
No available benthics data.

Stations with elevated chemistry, toxicity in a single sample and
No available benthics data. (Only one toxicity sample tested.)

Category 5:
Stations with elevated chemistry and mixed results from biological indicators.

Stations with elevated chemistry, degraded benthos, and
multiple toxicity tests with some toxic and some non-toxic.

Stations with elevated chemistry, degraded benthos, and
toxicity data indicating samples were non-toxic.

Stations with elevated chemistry, recurrent toxicity and
data indicating non-degraded benthos.

Stations with elevated chemistry, toxicity in a single sample and
data indicating non-degraded benthos. (Only one toxicity sample tested.)

Stations with elevated chemistry, data indicating non-degraded benthos and multiple toxicity tests with some toxic and some non-toxic.

Category 6
Stations with measured biological impact but chemistry values below thresholds or not measured.

Stations with recurrent toxicity, and degraded benthos, but no chemistry data available.

Stations with recurrent toxicity, and degraded benthos,
and elevated NH3 or H2S** but no other elevated chemistry.

Stations with recurrent toxicity, and degraded benthos,
but existing chemistry data indicates five or fewer chemicals measured at elevated concentrations.

Stations with a single indicator of biological effect (either recurrent toxicity or degraded benthos), but existing chemistry data indicates five or fewer chemicals measured at elevated concentrations.

Stations with a single toxic sample, but existing chemistry data has no chemicals measured at elevated concentrations.

Category 7
Stations with elevated chemistry but biological measures below thresholds.

Category 8
Stations with chemistry, toxicity, and benthic degradation below thresholds, or not measured.

Category 9--Reference Stations
These should be selected using best professional judgment of available information, including grain size, salinity, chemistry, benthic ecology, and toxicity data, as well as station location relative to pollutant sources. The parameter to be compared to reference (e.g., toxicity) should not be the primary measure used in reference site selection.

Prioritization within these major categories should be determined by the actual data values, such as 20% survival would rank above 55% survival, etc. Best professional judgment will be necessary to balance chemical versus biological data values.

*Elevated Chemistry could be indicated by:
1) Guideline mean quotient value above 0.5, indicating a mixture of pollutants, or
2) At least 6 guideline exceedences, or an individual chemical at very high concentrations, such as many times the guideline value, or in the highest 10th percentile for all samples in the Region (or State).

**Elevated concentrations of NH_3 or H_2S thought to have resulted from human activity may be considered equivalent to elevated concentrations of other anthropogenic chemicals for prioritization purposes, based on best professional judgement. In cases where NH_3 and H_2S are thought to result from natural processes, high concentrations may be considered as interferences in toxicity or benthic assessments.

Chemistry, toxicity, benthic community data, bioaccumulation or other data from previous studies may be considered as part of the categorization described above.

Quality Assurance/Quality Control

Summary of Methods

Summaries of quality assurance and quality control procedures are described under separate cover in the Bay Protection and Toxic Cleanup Program Quality Assurance

Project Plan (Stephenson et al., 1994). This document describes procedures within the program which ensure data quality and integrity. In addition, individual laboratories prepare quality assurance evaluations of each discrete set of samples analyzed and authorized by task order. These documents were submitted to the California Department of Fish and Game for review, then forwarded to the State Water Resources Control Board for further review.

RESULTS/DISCUSSION

This report consolidates ecotoxicological analyses from 267 sediment samples collected from 138 stations. Due to differences in toxicant sources, physical environments, and beneficial uses, the results and discussion of data collected in the Los Angeles Region are divided into three sections, one for each of the three key waterbody types: Industrial Harbors (Los Angeles and Long Beach Harbors, Palos Verdes, Port Hueneme), Marinas (Shoreline Marina, Los Alamitos Bay, King Harbor, Marina Del Rey, Ballona Creek, Channel Islands Harbor, Ventura Harbor), and Lagoons (Malibu Lagoon, Mugu Lagoon, Colorado Lagoon/Simm's Pond, Santa Clara and Ventura River estuaries, and McGrath Lake). The specific Industrial Harbor, Marina, and Lagoon stations are shown in the sampling stations maps shown in the methods section of the report (Figures 2-9). The remaining figures and tables presenting results of chemical and biological monitoring at these stations are provided at the end of the report and in the Appendices.

Industrial Harbors

Chemistry Data

Data Relative to Quality Assurance Criteria

All trace metal analyses met all quality assurance criteria as described by Stephenson et al. (1994). Many trace organic analyses had minor deviations from QA criteria, as indicated by "-5" QA codes (Appendix C). Most of these deviations involved blank responses outside of control chart guidelines, in which case the chemical concentrations measured were corrected based on blank response prior to reporting. If critical management decisions must be based on data for which a "-5" code is assigned in Appendix C, the reader is advised to consult the data QA reports on file at the SWRCB.

Primary Chemicals of Concern

A summary of chemicals at the Industrial Harbor stations that exceeded the ERM/ERL guideline values is presented in Figure 10. Five trace metals were found in relatively high concentrations with copper, mercury, and zinc most often exceeding the chemical guideline values. Copper exceedances of ERM values occurred at Inner Fish Harbor in Long Beach Harbor (Station No.s 40019.1, 40019.2 and 40019.3), and at Cabrillo Beach Pier, Consolidated Slip, and the Kaiser International Berth No. 49 in Los Angeles Harbor (Station No.s 40010.0, 47005.0, and 49004.0, respectively; Figure 11 a-c and Figure 12a-b). Mercury concentrations greater than the ERM value were measured at Southwest Slip (40001.2) and Consolidated Slip (40006.1, 47005) in Los Angeles Harbor, and at Inner Fish Harbor (40019.1, 40019.2, and 40019.3) Long Beach Harbor Channel 2 (40007.2) and Long Beach Inner Harbor Channel 3 (40011.3; Appendix C). Elevated zinc concentrations (>ERM) were measured in several Consolidated Slip samples in Los Angeles Harbor (Appendix C), and Inner Fish Harbor in Long Beach Harbor.

In addition to the metals discussed above, tribuyltin (TBT) concentrations were elevated in some of the Industrial Harbor sediments relative to the BPTCP database (Appendix C). TBT concentrations in sediment from the East Turning Basin (40005) and Inner Fish Harbor (40019.1, 40019.2, and 40019.3) were greater than the 95th percentile threshold for the statewide BPTCP database. The second highest TBT concentration in the statewide BPTCP database was measured in sediment from Consolidated Slip (40006.2). In addition, concentrations of TBT from Port Hueneme sediment (44013) were elevated relative to those collected throughout the state, exceeding the 90th percentile threshold. Selenium concentrations in sediments from several Industrial Harbor stations were also elevated relative to those measured throughout the state. Sediments from Long Beach outer harbor (40033), Inner Fish Harbor (40019.1-40019.3), and Terminal Island STP (40016) all exceeded the 90th percentile threshold from the BPTCP database. Sediment from Lower Main Channel (40024.2 and 40024.3) contained selenium concentrations that were twice the 95th percentile threshold from the BPTCP database.

Several pesticides exceeded the chemical guideline values. As in previous BPTCP monitoring studies (Fairey et al., 1996; Anderson et al., 1997; Hunt et al., 1998) total chlordane was one of the pesticides most commonly measured at elevated concentrations (Figure 10). Total chlordane is the summation of the major constituents of technical grade chlordane and its metabolites (in this case cis- and trans-Chlordane, Oxychlordane, and cis- and trans-Nonachlor; Appendix C), and comprise a group of nonsystemic stomach and contact insecticides which until the mid 1970's had been used extensively in home and agricultural applications. Although the use of this compound was discontinued in this country due to it's widespread occurrence, biomagnification through the foodchain, and persistence in non-target systems, chlordane continues to occur in aquatic ecosystems. Due to their limited water solubility, chlordane compounds tend to bind to organic carbon and settle out of the water column, accumulating in sediments (Wilcok et al., 1993). Elevated chlordane was found at the East Turning Basin (Station No. 40005.1), Inner Queensway Bay (40013.1 and 40013.2), Los Cerritos Channel (44011.0), and at Long Beach Outer Harbor (40018.3; Figure 13). High total chlordane concentrations were also found at several Consolidated Slip stations (Figure 14); the total chlordane concentration at one station (Station No. 47004.0) was 41 times the ERM value.

Total DDT (Σ of ortho and para DDE, DDD, and DDT) exceeding the sediment effect concentration (= 100 µg Total DDT / gram of organic carbon; Swartz et al., 1994) was found only at the Palos Verdes off shore stations (No.s 40031.1, 40031.2, and 40031.3, Appendix C). DDT and its metabolites are a class of relatively water insoluble organo-chlorine compounds which also tend to bind to organic particulates and thus accumulate in the sediments. Concentrations of these compounds have generally declined in aquatic ecosystems since they were banned for most insecticide applications in 1972, although concentrations of some DDT metabolites have increased. Like chlordane and dieldrin, it is persistent in sediments and may be of significant environmental concern at higher

concentrations (Hoke et al., 1994; Swartz et al., 1994). Elevated concentrations of total DDT have been found off the Palos Verdes Peninsula in previous studies (MacDonald, 1994). Elevated dieldrin concentrations were measured in sediments from several stations in Consolidated Slip (No.s 47002.0, 47003.0, 47009.0; Appendix C).

In addition to the pesticides listed above, endosulfan concentrations were elevated in sediment from Kaiser International Berth 49 (49004) relative to the 90th percentile threshold from the BPTCP database. The chlorpyrifos concentration in sediment from Consolidated Slip (47009) exceeded the 90th percentile threshold for the BTPCP database (Appendix C).

Total PCB concentrations (the sum of 18 congeners) were the chemical compounds that most commonly exceeded the chemical guideline guideline values (Figure 10). PCBs are base-neutral compounds that are formed by direct chlorination of biphynel. There are 209 numerically designated individual compounds, called congeners (*e.g.*, PCB #101), based on the possible chlorine substitution patterns. Mixtures of various PCB congeners have been manufactured in the U.S. since 1929 (Phillips, 1987) and are used commercially under the trade name Aroclor. Each PCB mixture has a number designation (*e.g.*, Aroclor 1254) with the last two numbers indicating the percentage of chlorine in the mixture. PCB mixtures were used extensively in the U.S. prior to 1979 for industrial applications which required fluids with thermal stability, fire and oxidation resistance and solubility in organic compounds (Hodges, 1977). PCBs have proven to be extremely persistent in the environment and have demonstrated a variety of adverse carcinogenic and non-carcinogenic effects (U.S. EPA, 1993c). These substances are highly lipophilic and have a high potential to accumulate in the tissues of aquatic organisms and can represent a significant human health hazard (Moore and Walker, 1991).

High concentrations of total PCBs were measured in sediment samples from throughout the Los Angeles and Long Beach Harbor area (Figure 15). Elevated PCB concentrations were found in Southwest Slip (Station No. 40001), Lower Main Channel (40004), East Turning Basin (40005), Inner Fish Harbor (40019), Hugo Neuproler #1 and #2 (46001, 46002), Kaiser International Berth 49 (49004), San Pedro Bay Outer Harbor (48009), Long Beach Harbor Channel 2 (40007), and Palos Verdes (40031). The highest total PCB concentrations measured in the Industrial Harbor samples were from Consolidated Slip (Figure 16). Concentrations above the ERM value were found throughout this area; sediment concentrations of PCBs were 5x, 11x, 8x, and 9x the ERM value at Consolidated Slip stations 47001, 47002, 47003, and 47005, respectively.

Polycyclic aromatic hydrocarbons (PAHs) are base-neutral organic compounds that are components of crude and refined petroleum products and a product of incomplete combustion of hydrocarbons. These compounds are common components of contaminated sediments and are toxic to infaunal invertebrates (Eisler, 1987; Neff, 1979; Neff and Anderson, 1981), in particular amphipods (Swartz et al., 1995). Due to their similar modes of toxicity, individual PAHs are combined into low and high molecular weight groups. Elevated concentrations of low molecular weight PAHs were found in

Southwest Slip (40001), and extremely high concentrations were found at Kaiser International Berth 49 (29x the ERM, Station No. 49004); these are due to onshore coal loading facilities at this site. High molecular weight PAHs were found in Southwest Slip (40001, 40006), Consolidated Slip (47002, 47004, 47009), and Kaiser International Berth 49 (5x the ERM, Station No. 49004). Total PAH concentrations were also 3x above the ERM value at Kaiser International Berth 49 (Figures 17 and 18).

Chemical Mixtures

As discussed earlier, the majority of sediments contain mixtures of chemicals. In this report, The ERM guidelines developed by Long et al. (1995) and the PEL guidelines developed by McDonald (1996) were used to calculate average ERM Quotients (ERMQ) and PEL Quotients (PELQ). These quotient values do not imply synergism, additivity, or antagonism between chemicals, but instead are used here to indicate the relative degree of pollution due to chemical mixtures. In a recent evaluation of the average ERM and PEL guideline values using chemistry and toxicological data collected throughout the coastal United States, Long et al. (1998) determined that when the average ERMQ exceeded 1.00, the probability of significant amphipod toxicity occurring in these samples was 71%. When the average PELQ exceeded 1.00, the probability of significant toxicity occurring was 56%. In addition, these authors found that when samples contained 11 or more ERM exceedances or 21 or more PEL exceedances, the percentage of significantly toxic samples was 85% and 100%, respectively. As discussed earlier (p 66), for the purposes of this report, stations are considered to have elevated chemistry if the ERMQ is $\geq$0.5, if there are more than 6 or more individual guideline exceedances, or if individual chemicals are considered to be elevated relative to the BPTCP database. In the BPTCP database, when the ERMQ exceeded 0.5, the percentage of samples that were significantly toxic to amphipods was 62%. For mapping purposes, the ERMQ is divided into 4 categories: ERMQ<0.1; ERMQ $\geq$0.1<0.5; ERMQ $\geq$0.5<1.0; and ERMQ $\geq$1.0. For the following discussion, stations that had the greatest pollution by chemical mixtures are highlighted. These are stations with ERMQ values $\geq$1.0. Although both ERMQs and PELQs are provided in the Appendix, data maps in this report emphasize chemical concentrations relative to the ERM values. This does not advocate one set of guideline values over another, but was necessary to simplify data presentation..

Except for the Kaiser International Berth 49 station (Station No. 49004), the majority of Industrial Harbor stations which had ERMQ values greater than 1.00 were located in the Consolidated Slip area (Table 12; Figure 19 a-b, Figure 20a-b). The relatively high ERMQ from the Consolidated Slip sample 47004 was driven to a large extent by total chlordane which was 41 times the ERM value, and by Total PCBs. The high ERMQ at the Kaiser International Berth 49 station was driven to a large extent by Low Molecular Weight PAHs which were 29 times the ERM for this chemical group. Two samples had more than 11 ERM exceedances, one was the Kaiser Int. Berth 49 station (49004), the other was a deep sediment sample (90-150 cm) from Consolidated Slip (47004; ERMQ Table 12).

Toxicity Testing Data

Data Relative to Quality Assurance Criteria

All toxicity test data were evaluated for acceptability using the quality assurance guidelines presented in the BPTCP Quality Assurance Project Plan (Stephenson et al., 1994). Most of the data reported here met test acceptability standards for each protocol. Deparatures from acceptability standards are summarized in Appendix E. Almost all of these were departures in water quality parameters such as dissolved oxygen and were considered to be of minimal concern in terms of data quality. These are coded "–3" in Appendix E. Some of the samples tested with the amphipods *Rhepoxynius abronius* and *Eohaustorius estuarius* also had deviations from the salinity criteria. In the case of *Rhepoxynius,* these were generally samples with final overlying water salinities that were greater than 2‰ from the Granite Canyon seawater control salinity; this usually resulted in salinities of 32‰. In the case of *Eohaustorius*, the final salinities were 24‰, which exceeded the salinity criteria for this protocol by more than 2‰. These salinities are within the tolerance range for these species and are listed in Appendix E. One sample from Port Hueneme (Station No. 44012, IDORG 612) had a final interstitial water salinity of 37‰. It is not clear whether this value is high enough to affect the test results. Results of the sea urchin fertilization and embryo development tests used to assess this sample should be considered with caution.

Several sediment-water interface samples tested with sea urchin development in Leg 48 had low dissolved oxygen values at the end of the exposure (IDORGs 1700, 1703, 1704, 1706-1708; Appendix E). It is not clear whether these values are low enough to affect development of sea urchin larvae. Results of these tests are coded "-5" and should be considered with caution.

Sea urchin fertilization tests were conducted on a number of pore water samples from the Los Angeles Region. Many of these samples were retested because of poor response in brine controls. Bay et al. (1993) discussed commonly observed problems with using the *Strongylocentrotus purpuratus* fertilization test in samples requiring salinity adjustment with hypersaline brine; these include poor control response. Through numerous repeated tests, we were able to achieve acceptable brine control results for all but one sample. However, an additional control treatment to account for the effects of frozen sample storage in Teflon bottles was included in tests from later sampling legs. These additional controls, which were not specified in the BPTCP QAPP, indicated that toxicity using this protocol may be associated with frozen sample storage in Teflon bottles. Because all samples for the fertilization tests were stored frozen in Teflon bottles, we have no assurance that the data from any of these tests is truly indicative of sample toxicity. Any observed toxicity may be wholly or partially due to storage effects. For this reason, all samples were retested with the sea urchin development test. The sea urchin development test was unaffected by these storage artifacts, as indicated by response in frozen storage bottle controls. While sea urchin fertilization data are included in the appendix of this

report, we do not have confidence in their validity because of possible false positives related to sample storage, and these data were not used in the site characterizations or comparisons with chemical concentrations.

The majority of the stations monitored during this project were tested with the amphipod 10-d survival protocol using either *Rhepoxynius abronius* or *Eohaustorius estuarius*, or with abalone development in pore water. The following section therefore emphasizes the results of these toxicity test protocols. Because the other toxicity test protocols were not used consistently, the results from these tests are provided in the Appendices.

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Twenty-eight percent (55/192) of the Industrial Harbor station sediments were significantly toxic to amphipods (Table 13). Amphipod survival in the outer Los Angeles and Long Beach Harbor stations was variable but generally higher than the Inner Harbor stations (Figures 21 and 22). Inner Harbor samples that were consistently toxic to amphipods were in Consolidated Slip (47001 – 47010), Southwest Slip (40001), and Southest Basin (40012). The majority of samples from Consolidated Slip were toxic to amphipods. Both surficial and deeper sediments at this site were toxic, although in many cases surface sediments were more toxic than deeper sediments (Table 13). Although the Palos Verdes offshore station (40031) had elevated concentrations of PCBs and DDT metabolites, none of these samples were significantly toxic to amphipods in these acute exposures.

Considerably more samples were significantly toxic to abalone larvae exposed to sediment pore water. In the Industrial Harbor stations, 79% (61/77) of the samples were toxic to abalone embryo-larval development (Table 14). Many of these samples had unionized ammonia concentrations above the effect threshold for this protocol (Appendix E). In situations where pore water unionized ammonia concentrations were greater than 0.06 mg/L, it is useful to assess toxicity at lower pore water concentrations. In these cases, if toxicity persists in 50 and 25% pore water but ammonia and hydrogen sulfide concentrations are less than the effect threshold, then the toxicity in these samples may be ascribed to other chemical constituents or factors. It should be noted that even in situations where the ammonia threshold is exceeded, other chemicals may be responsible for toxicity. In these situations, TIEs are useful for resolving the confounding effects of ammonia.

Statistical correlations between solid phase and pore water toxicity and bulk-phase chemical concentrations were examined using Spearman Rank Correlations. For these analyses the results of toxicity tests with the two amphipod species *Rhepoxynius abronius* and *Eohaustorius estuarius* were combined. Correlations between sediment chemistry and amphipod survival in the Industrial Harbor stations indicated significant negative correlations with several metals (eg., arsenic, cadmium, copper, mercury, zinc; Table 15). There were also significant negative correlations between amphipod survival and total chlordane (Figure 25), several PCB congeners, total PCBs, and a number of PAH compounds. Amphipod survival was negatively correlated with sediment grain size and TOC. Chemicals often co-cary with TOC and grain size because both organic carbon and

fine-grained sediments bind trace metal and organic chemical compounds. Without additional studies, it is difficult to separate the effects of these sediment characteristics from those of the chemicals bound to them.

Amphipod survival was also significantly correlated with the ERMQ and the Total Number of ERM Exceedances (Table 15; Figure 26). As discussed earlier, correlations are not used to imply a causal relationship between chemistry and toxicity. These analyses are useful, however, to develop hypotheses between chemicals of concern and observed bioeffects. These may be addressed through TIE and other toxicological investigations.

Toxicity to abalone embryos exposed to sediment pore water was negatively correlated with tin, total chlordane, two PCB congeners, the ERMQ, and the total number of ERM Exceedances (Table 16; Figure 27).

Benthic Community Analysis

Data Relative to Quality Assurance Criteria

All benthic community analyses followed the quality control procedures described in the Methods section of this report and in the BPTCP QAPP (Stephenson et al., 1994). All resulting data met the quality assurance criteria described in Stephenson et al. (1994).

As discussed earlier, characterizations of benthic community structure were consolidated into a single Relative Benthic Index (RBI) value for each sample. The RBI is a single number that incorporates measures of the Total Number of Fauna, Total Number of Crustacean Species and Individuals, and the relative numbers of Positive and Negative Indicator Species. Thresholds for degraded, transitional, and undegraded benthos were established based on the best professional judgement of the benthic ecologists who performed the analyses. While this was necessary for categorization purposes, it should be noted that the thresholds are somewhat arbitrary. The threshold for degraded benthos was set at a RBI value of 0.30. Samples having index values greater than 0.30 were classified as transitional, even though it is recognized that there is a large difference in benthic community structure between those stations with a RBI of 0.31, and those with a RBI of 0.60. It should also be noted that a number of factors influence benthic community structure, including salinity, temperature, sedimentation rates, and dissolved oxygen levels. These need to be considered on a station-by-station basis when classifying particular sites. Other limitations on the benthic community data are discussed at the end of this report. As with the other toxicological data used in this report, the RBI values should always be used in conjunction with chemical and toxicity test results in a weight-of evidence approach. More concern should be placed on stations with elevated chemistry, high toxicity and lower RBI values, even if the RBI values are greater than the threshold for degraded benthos.

Benthic

Benthic community structure was assessed at 102 of the Industrial Harbor stations; approximately 13% of these stations had degraded benthos (RBI $\leq$ 0.30). Outer harbor samples having degraded benthos were in Lower Main Channel (40004), the Cabrillo Beach Pier area (40010) and Long Beach Outer Harbor (44018; Figure 28a). In addition, one of the field replicates assessed off Palos Verdes (40031.2) had degraded benthos (Table 17; Figure 28c). Several of the samples with the lowest RBI values were in Consolidated Slip (Table 17; Figure 29b). Although the remaining samples from Consolidated Slip where benthos were assessed were classified as transitional, many had relatively lower RBI values. None of the remaining inner harbor stations were classified as degraded, although the majority were considered to have transitional benthos (Figure 29a). Samples from Inner Fish Harbor (40019), outer Queensway Bay (40014), and West Basin Entrance (40009) had relatively low RBI values but were classified as transitional (Table 17; Figure 29).

Benthic community structure, as represented by the relative RBI, was negatively correlated with a number of chemicals measured in Industrial Harbor sediments. Spearman Rank Correlations indicated significant negative correlations between the RBI values and several metals (eg., arsenic, cadmium, copper and zinc; Table 18). In addition, there were significant negative correlations between the RBI and a number of pesticides, particularly total chlordane, several PAH compounds and PCB congeners, and sediment TOC. There were also significant negative correlations between the RBI and the ERM Quotient and number of ERM exceedances in the Industrial harbor samples (Table 18; Figure 30).

Principal Components Analyses (PCA) were conducted to investigate co-variance between measured chemicals in the Industrial Harbor sediment samples, toxicity test results, and benthic community structure metrics. The PCA were conducted on two subsets of the data: first by analyzing all of the data with the abalone toxicity test data excluded, then with the abalone data included. Results of the first PCA with the abalone data confirmed the results of the previous Spearman Rank Correlations by showing that amphipod survival in the toxicity tests and the Relative Benthic Index were both negatively correlated with a number of chemicals (Table 19a; note: variables with opposite signs in Table 19 are negatively correlated). In addition, the PCA showed a significant positive correlation between higher amphipod survival and a higher Relative Benthic Index. These results were further investigated with Spearman Rank Correlations comparing amphipod survival in toxicity tests with benthic community metrics. These analyses showed significant positive correlations between amphipod survival in the toxicity tests, the total number of crustacean species measured in samples from these stations, and the total number of species measured in these stations (Table 20).

Results of the second PCA that included sediment chemistry, abalone toxicity test data, and benthic community data indicated that development of abalone embryos in sediment pore water was negatively correlated with a number of solid phase chemicals, including pore water unionized ammonia, two metals, a number of pesticides, Total PCBs, and the ERM Quotient (Table 19b). In addition, the PCA showed significant positive

correlations between abalone development in toxicity tests, the mean number of mollusc individual species and individuals, and the total number of species measured at the Industrial Harbor stations. Spearman Rank Correlations confirmed that abalone development was positively correlated with a number of benthic community metrics (Table 20).

These results imply that the laboratory toxicity tests were indicative of benthic impacts at Industrial Harbor stations. Increased survival of amphipods was correlated with a greater number of crustacean species at these stations, and increased abalone development was correlated with greater numbers of mollusc species. The results of the laboratory toxicity tests should not be considered to be predictive of ecological change on a station-by-station basis because these are acute toxicity tests and may not reflect chronic impacts at individual stations. In addition, as discussed earlier, benthic community structure is influenced by environmental factors unrelated to chemical pollution. However, when used in conjunction with chemical analyses and measurements of benthic community structure, they suggest that observed ecological degradation may be associated with sediment pollution detected by chemical analyses and laboratory toxicity tests.

Bioaccumulation Analysis

Because of elevated concentrations of DDT and PCBs in fish collected from selected stations in the Los Angeles and Long Beach Harbor area, a health advisory against consumption of edible non-migratory organisms was issued for the Cabrillo Beach Pier area of outer Los Angeles Harbor (OEHHA, 1991). To determine whether fish from this area continue to accumulate high concentrations of these and other compounds, two species of fish (*Genyonemus lineatus, Phanerodon furcatus*) collected from the outer harbor area were analyzed for metals and organic chemical compounds using the methods described above. Fish tissue concentrations were compared to US EPA screening values and National Academy of Science (NAS) guideline values. A quotient value was calculated for selected chemicals of concern by dividing the measured tissue concentration by the US EPA screening value (note: this should not be confused with the ERM and PEL quotient values discussed earlier). This quotient value indicates the magnitude of the screening value exceedance.

In order to determine whether chemicals in sediment at these stations were bioavailable to infaunal organisms, a 28-d bioaccumulation test was conducted with the clam *Macoma nasuta* using the methods described above. Three laboratory replicates from each station were compared to replicates of control sediment, in this case the Yaquina Bay home sediment used in the amphipod tests. Concentrations of chemicals in the clam tissues were compared using t-tests. Chemical concentrations in the clams were also compared to those in the fish to determine whether there appeared to be any qualitative trends between bioaccumulation in bivalves exposed to sediment in the laboratory and field collected fish from the same stations. Concentrations of chemicals in the sediments were also measured in conjunction with these experiments.

Fish Tissues

Results indicate that concentrations of DDT and PCBs in fish tissues continue to be elevated at Cabrillo Beach and the Long Beach Outer Harbor (Table 21a). Total DDT and Total PCBs in white croaker exceeded EPA screening values at all stations analyzed. Concentrations of these compounds were highest in fish collected from the Cabrillo Beach Pier Central station (Station No. 49002); Total DDT (TTL DDT) and Total PCBs (TTL PCBs) at this station were 16 times and 68 times the EPA screening values, respectively. The high TTL DDT concentrations in these fish were dominated by higher proportions of P'P' DDE, and to a lesser extent P'P' DDD (Appendix C).

Concentrations in white surfperch were considerably lower in all samples. This could be due to several factors including differences in the lipid concentrations in the fish. The mean percent lipid concentrations in white croaker and white surfperch were 13.7% and 11.9%, respectively. While this may have influenced uptake of these highly lipophilic compounds, the proportionately large differences in concentrations of TTL DDT and TTL PCBs between species suggests this is not the only explanation. Differences in feeding behavior, metabolic rates for biotransformation, and proximity to the sediments may also have played a role in tissue bioaccumulation in these species. Only concentrations of PCBs exceeded the EPA screening value in white surfperch tissues.

Macoma Tissues

As with the fish tissue analyses, results of the *Macoma* laboratory bioaccumulation experiments indicated that Total DDT and PCB concentrations were elevated in bivalves exposed to sediments from these stations (Station No.s 40009, 49002, 49003; Table 21b). Concentrations of Total DDT were significantly higher in clams exposed to West Basin and all Cabrillo Beach Pier sediments when compared to control clams exposed to Yaquina Bay home sediment (t-tests; $p < 0.05$). Concentrations of TTL DDT were elevated in clams exposed to West Basin Entrance sediments (Station No. 40009); these were approximately 4 times the concentrations measured in the control clams. The trends in TTL DDT and TTL PCBs in the *Macoma* experiments were similar to those observed in the fish tissue analyzed from these stations. Cabrillo Beach Pier Central (Station No. 49002) had the highest concentration of TTL DDT in fish tissue, and the highest concentration in *Macoma* exposed to sediment from this station.

TTL PCB concentrations in *Macoma* were also statistically higher in these sediments, particularly in those from West Basin sediments (Table 21b). The West Basin Entrance clams also accumulated several PAH compounds (Appendix C). Although TTL PCBs in the clams exposed to Cabrillo Beach Pier Central station sediments were elevated, they were not significantly different than controls because of higher between-replicate variability.

Sediments collected synoptically from the Cabrillo Beach Pier stations had measurable concentrations of DDT and PCBs, but the levels did not exceed the sediment effect value

reported by Swartz et al. (1994) values for these compounds (Appendix C). While it is difficult to determine the relationship between fish tissue and sediment concentrations of DDT and PCBs at these stations, the bioaccumulation experiments demonstrate that sediment-bound DDT and PCBs are bioavailable to infaunal species, and that laboratory exposed animals may accumulate PCBs to levels exceeding EPA screening levels. Previous exposures of *Macoma nasuta* to sediments contaminated with DDT have demonstrated that 28 days is probably not sufficient for DDT to accumulate to equilibrium levels (Lee et al., 1994). These authors suggest that at least 42 days is necessary to reach steady state. Therefore, the concentrations of DDT measured in clams in these experiments were probably lower than steady-state. It is likely that resident infauna from these stations have higher concentrations of these compounds. This is particularly true for species that ingest sediment. Infaunal prey species are a likely source of these compounds to resident fish. It should be recognized that these fish species are mobile and forage over relatively large areas. Therefore, it is impossible to ascribe concentrations of DDT and PCBs in sediments at these stations to those in fish collected in the vicinity. Future studies should assess concentrations of these compounds in likely prey species (*eg.*, infaunal crustacean species), and measure these chemicals in non-migratory fish species. This information, combined with laboratory experiments designed to investigate DDT and PCBs in sediments with food web relationships would clarify the link between sediment concentrations and fish tissue levels.

Industrial Harbor Station Categorization

As discussed earlier, all Industrial Harbor stations were categorized based on a weight-of-evidence approach. Using various combinations of chemical analyses, toxicity tests, benthic community characterizations, and in some cases bioaccumulation studies, stations were placed in one of 9 categories. Categorization is intended as an aid to further decision making by Regional Board staff regarding site dispositions.

In this study, stations are grouped by station number for categorization purposes. In some cases, stations were visited several times and various chemical and toxicological measures were made on different occasions. For clarity, the following station categorizations group individual stations based on a worst-case basis. Therefore, if a particular station had elevated chemistry and biological impacts on one sampling date but not on another, the station was categorized based on the worst-case characteristics. The additional information from preceding or subsequent sampling at that station were included in the same category for comparison, even though these data might not meet the criteria for that category. It is assumed that reviewers will take this apparent temporal or spatial variability into consideration in the decision making process.

All Industrial Harbor stations are categorized in Table 22. The structure for this table is similar to that of the Marina and Lagoon station categorization tables presented later. This table presents a synthesis of relevant weight-of-evidence information including: Station Number and Name, Sample (IDORG) Number, the ERM Quotient value, selected chemicals exceeding the ERM values and the magnitude of the ERM Exceedance, TOC

and Grain Size, all relevant toxicity test results, and the Relative Benthic Index value. In addition, Table 22 includes bioaccumulation results for stations where this was measured.

Station No. 40006.1 in Consolidated Slip met all of the criteria for Category 1. Surface samples from this station contained a number of chemicals exceeding sediment quality guideline values or were elevated relative to the BPTCP database. Significant toxicity to amphipods was measured in 3 of 4 field replicates, and benthic community structure was degraded in the one sample in which it was quantified. Several other stations in the Consolidated Slip area met the criteria for Category 2 (Station No.s 47002, 47003, 47009 and 47010). These were samples where toxicity was detected on the only occasion it was measured. The Category 2 chemistry data presented in Table 22 is for Consolidated Slip surface samples only; in many cases deeper samples measured at selected stations at this site were more contaminated than surface samples (Appendix C). The remaining stations from Consolidated Slip met the criteria for Category 6. These were stations that had elevated chemistry and were usually toxic to amphipods. Many of these stations did not exceed the threshold for classification as degraded benthos, even though most had relatively lower Relative Benthic Index values.

Because Consolidated Slip was identified by the Los Angeles Regional Board as a site of concern, the vertical and horizontal extent of chemical pollution and toxicity was estimated by a separate study where both were measured at various depths, and along a gradient extending west from the Dominguez Channel. The results indicated that significant pollution was measured at most stations in Consolidated Slip and that in some cases deeper samples were more polluted than surface samples (Table 12; Figure 20b). The majority of these samples were significantly toxic to amphipods; toxicity was sometimes greater in the surface samples (Table 13; Figure 22b). In addition, several of these stations had degraded benthos, and the rest were categorized as having transitional benthos. The aerial extent of chemical pollution and toxicity was estimated for the site by considering the stations with elevated chemistry and toxicity and estimating the surface area covered by these stations. Surface area was estimated using the MapInfo™ GPS mapping program. This assumed that toxicity and chemistry was consistent between the stations and to the edge of the channel. The area significantly polluted and toxic was estimated to be 0.080 square miles. Although it is recognized that this is a preliminary estimate and that more sampling would be required to account for spatial heterogeneity, most of this site appears to be polluted and toxic to at least 90cm depth. The few samples where deeper samples were analyzed indicate that chemical pollution extends deeper at this site.

A majority of the Industrial Harbor stations met criteria for either Categories 5 or 6 (Table 22). Some stations at Cabrillo Beach Pier exhibited elevated tissue concentrations in field-collected fish and laboratory exposed bivalves, and were placed in Category 3 (Table 22). Based on sediment chemistry, toxicity test results, and benthic community structure, these stations also met the Category 6 criteria.

One station off shore of Palos Verdes (40031.2) had high concentrations of p'p DDE, and elevated concentrations of Total DDT and PCBs relative to sediment quality guidelines, although the ERM quotient value at this station was lower than the threshold necessary to categorize a site as having elevated chemistry (ie., ERMQ = 0.5). This station also had degraded benthic community structure at two of the three sub-field replicates monitored. However, amphipod survival at this station was generally high. It is possible that this analysis is limited by the use of a relatively short-term toxicity test. Swartz et al. (1985, 1986) suggest that the absence of acute toxicity does not demonstrate the absence of benthic degradation. Because the other Sediment Quality Triad elements suggest that chronic effects may be associated with elevated concentrations of DDT and PCB compounds, this is a situation where further investigation using a chronic toxicity test (incorporating measures of amphipod growth, survival and fecundity) is warranted.

Some Industrial Harbor stations were categorized as potential reference stations (Category 9; Table 22). These were located in Fish Harbor (40015.3), East Basin (40008.1), Terminal Island (40016.1), and the Turning Basin (48010.0). Although most of these stations had relatively low chemical concentrations, all but one had at least one exceedance of a guideline value. In addition, although benthic community structure was not degraded or transitional at these stations, the Relative Benthic Index values were somewhat low at several of these stations. One goal of this study was to use reference site data to assess biological impacts at polluted stations. There were not a sufficient number of reference sites identified in this study to allow for calculation of reference envelope tolerance limits. Hunt et al. (1998) suggested that a minimum of 20 reference samples was necessary to provide statistical confidence in calculation of reference envelope tolerance limits. To identify more reference sites additional monitoring would be required. By definition, reference sites require low chemical concentrations and undegraded benthic community structure (SWRCB, 1997). Several of the stations listed under Category 8 (Table 22) had low chemical concentrations but benthic structure was not characterized. Because these stations had high amphipod survival as well, they may serve as appropriate reference sites for future monitoring studies. Undegraded benthic community structure at these sites will need to be verified before they can be used for this purpose.

Marinas

Chemistry Data

Primary Chemicals of Concern

A summary of chemicals at the Marina stations that exceeded the sediment quality guideline values is presented in Figure 31. Although the chemicals most often exceeding sediment quality guideline values were similar at the Industrial Harbor and Marina stations, the relative proportion of chemicals exceeding guidelines differed between the two waterbody types. The relative proportion of stations with metal concentrations above the ERM guidelines was greater in the Marina stations (Figures 32-37). Copper, mercury

and zinc exceedances of ERM values were all found in Marina Del Rey (Station No.s 44014, 48001, 48002, 48003, and 48006; Figure 33b and 36b).

In addition to the metals discussed above, tributyltin (TBT) concentrations in sediment from one station in Marina Del Rey (44014) were greater than the 90th percentile threshold for the statewide BPTCP database. Selenium concentrations in Marina Del Rey (44014) and Shoreline Marina (48007) also exceeded the 90th percentile threshold from the statewide BPTCP database.

While elevated pesticide concentrations were not widely detected in most Marina stations, a relative high proportion of Marina stations exceeded the ERM values for total chlordane. Total chlordane concentrations above the ERM value were measured at the entrance of Alamitos Bay (40022, and 40023), at two stations in Shoreline Marina (44020 and 48008), and throughout Marina Del Rey (44014, and Stations 48001 through 48006; Figures 38-39).

A majority of the Marina Station samples exceeded the ERL value for total PCBs and a large proportion of sediments had concentrations above the ERM for total PCBs. Station samples with the highest PCB concentrations were in Shoreline Marina (44020, 48006; Figure 41a-b), Marina Del Rey (44014, 48003, 48005), and King Harbor (48011; Figure 42 a-b). While elevated concentrations of PAHs were found at many Industrial Harbor stations, few samples in the Marinas had concentrations of these chemicals above the guideline values.

A number of samples from Marina Del Rey (48001 – 48005, and 44014) had elevated chemistry relative to ERM Quotient values or the number of guideline exceedances (Table 23, Figures 44-46). Two samples from Shoreline Marina (44020 and 48006) had elevated chemistry based on ERMQ values.

Toxicity Testing Data

Of the 35 Marina samples tested with the amphipod 10-d survival protocol, 31% were significantly toxic (Table 24). As with the Industrial Harbor stations, toxicity was greater in inner station sediments. This was particularly evident in Los Alamitos Bay (Figure 47b), and Marina Del Rey (Figure 48b). Additional toxicity tests were used occasionally to provide additional information for assessing Marina sediment toxicity. Results of these tests are presented in Appendix E.

In contrast to the Industrial Harbor toxicity data where amphipod survival was negatively correlated with metals, pesticides, PAHs and PCBs, Spearman Rank Correlations indicated that in the Marina stations, amphipod survival was negatively correlated primarily with metals (eg., arsenic, copper, lead, mercury, and zinc), tributlytin, and the number of ERM exceedances at these stations (Table 25; Figure 50). In addition, amphipod survival at the Marina stations was negatively correlated with percent clay in the sediment. Toxicity of some of the Marina samples was also assessed by exposing sea

urchin embryos to intact sediment cores at the sediment-water interface (Appendix E). Seventeen percent (2/12) of these samples were significantly toxic. Spearman Rank correlations were used to examine associations between chemistry and embryo-larval development for those samples analyzed for chemistry. The results indicate that sea urchin development was negatively correlated with several chemicals in the Marina samples including three pesticides, a number of PCB congeners, as well as unionized ammonia and hydrogen sulfide in the samples (Table 26).

Benthic Community Analysis

Only 1 of the 22 Marina stations was classified as having degraded benthic community structure (Table 27); this station was in Shoreline Marina (Station No. 48007; Figure 51a). A number of stations in Shoreline Marina (48006, 48020; Figure 51a) and Marina Del Rey (44014, 48003; Figure 52b) were classified as transitional but had relatively low RBI values. Stations closer to the mouth of Marina Del Rey had undegraded benthos. Limitations on benthic community analyses are discussed at the end of this report. Benthic community structure (ie., the RBI) at the Marina stations was negatively correlated with a number of metals (eg., antimony, chromium, copper, lead, mercury, silver, and zinc), several pesticides (chlordanes, DDT metabolites, and dieldrin), and several PCBs. The RBI was also negatively correlated with the ERM Quotient, the number of ERM exceedances in the samples (Table 28), and with sediment grain size and TOC.

Marina Station Categorization

The majority of Marina stations met the criteria for Categories 5 and 6 (Table 29). Significant chemical pollution and toxicity to amphipods was measured at several stations in Marina del Rey. The Relative Benthic Index at those Marina Del Rey stations where benthics were analyzed (48001.0-48003.) indicated transitional benthic community structure, although the RBI values at these stations were relatively low (Table 29).

Shoreline Marina (Station No. 44020.0) had elevated chemistry in all samples assessed, and recurrent toxicity to amphipods (toxic in 3 of 5 samples). Benthic community structure was not analyzed at this station. The one station in Shoreline Marina where benthic community structure was characterized indicated degraded benthos (48007; Table 29), although this sample was not toxic and only Nickel was elevated relative to the guideline values.

Few Marina stations were categorized as potential reference stations (Category 9; Table 29). These were located in Alamitos Bay. Although most of these stations had relatively low chemical concentrations, two had elevated concentrations of Chlordane. In addition, benthic community structure was not measured at these stations. Because designation as a reference site for the BPTCP requires undegraded benthic community structure coupled with low chemistry (Hunt et al., 1998), benthic community structure at these stations would have to be measured prior to their designation as reference sites. One station in

Channel Islands Harbor (48012) was placed in Category 6 due to low amphipod survival. Because this station had relatively undegraded benthos and few chemicals at elevated concentrations it might also serve as a potential reference site.

Lagoons

Chemistry Data

Primary Chemicals of Concern

A summary of chemicals at the Lagoon stations that exceeded the sediment quality guideline values is presented in Figure 54. The list of the primary chemicals of concern at the Lagoon stations was similar to those found in the Marina and Industrial Harbor stations, but the relative proportions of the various chemical compounds was different in the Lagoon sediment samples, reflecting the different pollutant inputs to these waterbodys.

Unlike the Marina and Industrial Harbor stations, few metals exceeded the ERM guideline values. Exceedances of the ERM for zinc were found in samples from Ballona Creek and one sample from Colorado Lagoon (Figures 55 and 56). In addition, the selenium concentration at one sample in Mugu Lagoon (48017) exceeded the 90th percentile threshold derived from the statewide BPTCP database.

There was a greater relative proportion of Lagoon samples having ERM exceedances of pesticides than were found in the Industrial Harbor or Marina stations. Stations with ERM exceedances for total chlordane were found in Colorado Lagoon (Station No. 44017 was greater than 21x the ERM for total chlordane), and Ballona Creek (44024 was 18x the ERM for total chlordane). Total chlordane in McGrath Lake sediments were measured from 25 to 39x the ERM value. High chlordane concentrations were also measured in several Mugu Lagoon samples (Figure 57 and 58). Relative to the ERM guidelines, elevated concentrations of several pesticides were found in McGrath Lake sediments including total DDT, and Dieldrin (Station No. 44027; Figure 60). High Dieldrin concentrations were also found in Ballona Creek (44024) and Colorado Lagoon (44017). Sediments from some of these sites also contained elevated concentrations of total PCBs (Figures 61-62).

In addition to pesticides for which sediment quality guideline values have been derived, several stations had elevated concentrations of pesticides for which no guideline values exist. Toxaphene and endosulfan concentrations were elevated in McGrath Lake (44027); toxaphene was greater than the 90th percentile threshold derived from the statewide BPTCP database, and the endosulfan concentration in McGrath Lake sediment was 3 times the 95th percentile threshold. This was the second highest endosulfan concentration measured in sediments as part of the Bay Protection Program. In addition to these pesticides, elevated chlorpyrifos concentrations were found in Ballona Creek

(44024; 2x the 95th percentile threshold of the BPTCP database) and Mugu Lagoon (48015; > the 90th percentile threshold of the BPTCP database).

One sample from McGrath Lake (44027) had the second highest average ERM Quotient value measured in the Los Angeles region (Table 30; Figures 63-64). This was due to elevated concentrations of a number of pesticides. Total chlordane in sediment from this station was 39 times the ERM value, total DDT was 3 times the effect concentration reported by Swartz et al. (1994), and Dieldrin was 3 times the ERM value. Sediment chemistry at this station was measured twice, once in January 1993 (IDORG = 627), then again in June 1996 (IDORG = 1628). Concentrations of these pesticides increased in sediment at this station between the first and second sampling (Table 30). The ERMQ in one sample from Colorado Lagoon (44017) had an ERMQ of 2.27 (Table 30). This was due to elevated concentrations of total chlordane (21 x the ERM value), and Dieldrin (3x the ERM value). In addition to these stations, several samples from Ballona Creek (Station number 44024), had an ERMQ greater than 1.00. The relatively high ERMQ from Ballona Creek was primarily due to elevated total chlordane (18x the ERM value), Dieldrin (3x the ERM value), and total PCBs (2x the ERM value).

Toxicity Testing Data

Fifty-eight percent (19/33) of Lagoon station sediments were significantly toxic to amphipods. This was a greater proportion of toxic samples than was found in the Industrial Harbor and Marina station sediments (Table 31). A majority of the stations monitored in Mugu Lagoon (Figure 65), and all of the stations in Ballona Creek were toxic to amphipods (Figure 66b). Stations in McGrath Lake that were toxic to the amphipod *Rhepoxynius abronius* were not toxic to *Eohaustorius abronius* when tested at a later date (Table 31; Figure 66a). None of the sediments from the Ventura or Santa Clara River Estuaries, or from Malibu Lagoon were significantly toxic to amphipods or any of the other protocols used (Figure 67; Appendix E).

Spearman Rank correlations indicated that amphipod survival in the Lagoon samples was weakly correlated with several metals (eg., antimony, copper, mercury, silver, zinc, and tin) and a number of PCB congeners (Table 32). There were more significant negative correlations with pesticides measured in the Lagoon stations, particularly total chlordane and dieldrin (Figure 68). There were also significant negative correlations with a number of PAHs, the ERM Quotient and the number of ERM exceedances calculated for these stations (Table 32; Figure 69).

Benthic Community Analysis

The only Lagoon stations where benthic community structure was analyzed were in Mugu Lagoon (48013.0-48018.0), all of these were classified as degraded (Table 33; Figure 70). Two of the stations in Mugu Lagoon had essentially no benthic infaunal

organisms present (48014, 48017). Limitations on benthic community analyses are discussed at the end of this report.

Bioaccumulation Analysis

Mugu Lagoon is an ecologically important estuary which receives runoff from the Calleguas Creek watershed, adjacent agriculture lands, and the Naval Air Station at Point Mugu. Previous studies have indicated elevated concentrations of several pesticides in fish from this water body. In this study, concentrations of chemicals were measured in two species (*Cymatogaster aggregata* and *Atherinops affinis*) collected at the confluence of Calleguas Creek and Mugu Lagoon to assess current conditions in resident fish species.

Of the chemicals measured in fish collected from Mugu Lagoon, DDT and PCBs were significantly elevated relative to EPA screening values (Table 34). Total PCBs measured in shiner surfperch were almost twice the EPA screening value at Station No. 44106. Concentrations were greater in the surfperch than topsmelt. This was partly due to higher lipid levels, which were twice as high in the surfperch as those measured in the topsmelt. In addition, as discussed above, differences in tissue concentrations may also have been related to differences in feeding behavior and metabolic biotransformation rates. Although the station where these fish were collected is where Callequas Creek enters Mugu Lagoon, a site that receives sediment-bound DDT from this watershed, the highest tissue concentration of Total DDT in the surfperch was less than one half the EPA screening value. Sediment chemistry was not analyzed at this station. However, Total DDT measured in Station 48015, the central Mugu Lagoon station closest to station 44106, had a Total DDT concentration approximately one half the toxic concentration reported by Swartz et al. (1994).

Lagoon Station Categorization

The majority of Lagoon stations met the criteria for Categories 4 and 6 (Table 35). Although stations in Colorado Lagoon (44017), Ballona Creek (44024), and McGrath Lake (44027) had elevated chemistry and were toxic to amphipods, benthic community structure was not characterized at these stations. Colorado Lagoon is polluted by a number of chemicals and has a relatively high ERM Quotient, due in large part to high total chlordane concentrations. Ballona Creek is also polluted by a number of pesticides and exhibited recurrent toxicity to amphipods. Because these sites are highly modified urban environments and probably subject to extreme temperature and/or salinity conditions, it is difficult to determine whether additional benthic characterization would be useful. McGrath Lake sediments act as a sink to adjacent agricultural inputs and therefore contain elevated concentrations of a number of pesticides. This site exhibited recurrent, though variable, toxicity to amphipods. Further characterization of benthic community structure at this site would be useful to determine whether ecological impacts are associated with chemical contaminants.

Stations in Mugu Lagoon all met the criteria for Category 6. Chemical and biological results at these sites were variable. Although individual pesticides sometimes exceeded guideline values, the ERM quotients at these stations were generally low (Table 35). Amphipod survival was lowest at the Mugu Lagoon Entrance (44054), Mugu/Oxnard Ditch (44053), and Central Mugu Lagoon (48015), though survival throughout the Lagoon was variable. Benthic community structure was significantly degraded at all stations where it was characterized. In addition, concentrations of PCBs were elevated in fish caught at the confluence of Calleguas Creek and Mugu Lagoon (44016). As discussed above relative to results at the Palos Verdes stations, this analysis may be limited by the use of relatively acute toxicity test protocols. Analysis of Mugu Lagoon stations with a chronic toxicity test assessing amphipod survival, growth, and fecundity could help confirm whether the observed benthic community degradation at this site is associated with pollution.

STUDY LIMITATIONS

As discussed previously, this data set was limited by lack of information useful for evaluating the bioavailability of sediment-associated chemicals. There were limited measurements of interstitial water chemical concentrations, and sediment Acid-Volatile Sulfides or Simultaneously Extracted Metals (AVS-SEM). The lack of *in situ* measures of dissolved oxygen concentrations limited conclusions regarding effects of anoxia on benthic community structure. Additional unmeasured factors that may have influenced benthic community structure included seasonal variations in salinity, temperature, freshwater flow, and sedimentation rates. These factors need to be considered by resource managers when considering the effects of chemical pollutants on ecological metrics. In addition, the toxicity tests used in these surveys were generally short-term acute toxicity tests. In situations where stations were dominated by high concentrations of chemicals considered to exhibit chronic toxicity, conclusions based on acute toxicity tests should be treated cautiously.

Because of these limitations, characterization of the most impacted stations must rely, to a certain extent, on a qualitative interpretation of the data. To accomplish this, individual stations were evaluated based on a Triad of measures (*sensu* Chapman et al., 1987): chemical pollution, benthic community structure, and toxicity to various species.

Stations were categorized based on this information, and the completeness of sample characterization. In order to categorize stations, it was necessary to define terms such as "elevated chemistry" or "sample toxicity" for a large number of samples. To be consistent, thresholds were established for this purpose, and these are described above. The chemistry, toxicity, and benthic community threshold values were derived to allow a consistent interpretation of data from samples throughout the Region and state. It is important to note that while these threshold values were selected based on the best available information and best professional judgement of the authors, they are by nature arbitrary. Chemical bioavailability varies from sample to sample, and the exact definitions of toxicity and benthic degradation depend on factors not easily analyzed in a

large number of samples. Further data collection and analysis may result in the determination of different threshold values and different definitions for biological impacts. The thresholds and station characterizations used here are not intended to be absolute. They are intended to aid in the screening of data collected from a large number of locations, in order to support management decisions. In some cases additional studies may be undertaken to further evaluate the sites of concern identified in this Region-wide assessment. As more data become available through additional studies, more accurate site-specific characterizations of sediment quality may result.

It should also be noted that this research provides limited information on spatial extent or temporal variability of chemical pollution and ecotoxicological effect at these sites. These topics should be emphasized in future investigations.

CONCLUSIONS

1. Through a cooperative agreement this study achieved the combined program objectives of the State Water Resources Control Board's Bay Protection and Toxic Cleanup Program, and the National Oceanic and Atmospheric Administration's Status and Trends Program.

2. Using a weight-of-evidence approach based on the Sediment Quality Triad, measures of chemical pollution, toxicity, benthic community structure, and bioaccumulation were completed at Industrial Harbor, Marina, and Lagoon stations over a five year period to determine relative degradation in selected water bodies in the Los Angeles Region. When combined with measures of other sediment characteristics such as grain size, TOC, unionized ammonia, and hydrogen sulfide, these measures were useful for determining the relative level of pollution and biological impacts at a wide range of stations.

3. Degree of chemical contamination was assessed using two sets of sediment quality guidelines: the ERL/ERM guidelines developed by NOAA (Long et al., 1995), and the TEL/PEL guidelines developed for the State of Florida (MacDonald, 1996). In addition, non-guideline chemicals were compared to the BPTCP database to compare relative concentrations with those measured statewide. Copper, mercury, zinc, TBT, total chlordane, total PCBs, and high molecular weight PAHs were found to be the chemicals or chemical groups of greatest concern at the Industrial Harbor stations. Copper, lead, mercury, zinc, total chlordane, and total PCBs were found to be the chemicals or chemical groups of greatest concern at the Marina stations. PCBs, and a number of pesticides, including chlordane, dieldrin, endosulfan, and DDT, were the chemicals of greatest concern in the Lagoon stations.

4. Of the 192 Industrial Harbor stations where toxicity was assessed, 29 % showed significant toxicity to amphipods. Toxicity was highest in the inner Industrial Harbor sediment samples. Pore water samples demonstrated higher toxicity than sediment samples; 79% of the Industrial Harbor stations were toxic to abalone embryos exposed to sediment pore water. Of the 35 Marina stations tested for amphipod toxicity, sediment

samples were toxic to amphipods at 31% of the stations. Of the 33 Lagoon station sediment samples tested, 58% were significantly toxic.

5. Many of the chemicals that correlated with toxicity also exceeded sediment quality guideline values. Amphipod survival in Industrial Harbor stations was negatively correlated with a number of chemicals or chemical groups, including copper, mercury, nickel, lead, zinc, chlordane, total PCBs, low and high molecular weight, and total PAHs, the ERM Quotient, and the number of ERM Exceedances in the samples. In addition amphipod survival in the Industrial Harbor samples was negatively correlated with sediment grain size and TOC. Because chemicals bind to TOC and fine-grained sediments, it is not possible without further study to separate bioeffects due to these binding phases from those due to pollutants. Abalone development in Industrial Harbor pore water samples was negatively correlated with tin, total chlordane, two PCB congeners, the ERM Quotient value, and the number of ERM Exceedances in these samples. Amphipod survival in Marina sediments was negatively correlated primarily with metals (As, Cu, Pb, Hg, Ni, and zinc), as well as TBT. Amphipod survival in these samples was also negatively correlated with the PEL Quotient, the number of ERM Exceedances, and percent clay in the samples. Amphipod survival in Lagoon sediment samples was negatively correlated with metals (Cu, Hg, Ag, Zn), pesticides such as chlordane, DDT, and dieldrin, and a number of PCB congeners and PAH compounds. In addition, amphipod survival in Lagoons was negatively correlated with the ERM Quotient and the number of ERM Exceedances in these samples.

6. Of the 102 Industrial Harbor stations where benthic community structure was characterized, 13% were considered to be degraded. The Relative Benthic Index (RBI) was negatively correlated with a number of metals, pesticides, PCBs and PAHs. In addition, the RBI was negatively correlated with sediment TOC, the ERM Quotient, and the number of ERM Exceedances. Multivariate and univariate correlations between toxicity test results and benthic community metrics indicated that amphipod survival in toxicity tests was positively correlated with the total number of crustacean individuals and species at these stations. Abalone development in toxicity tests was positively correlated with the number of mollusc individual and species. Only one of 22 Marina samples had significantly degraded benthic community structure (RBI ≤ 0.30), although several stations had lower RBI values. Benthic community structure at the Marina stations was negatively correlated with metals, pesticides, PCBs, grain size, TOC, and the ERM Quotient and number of ERM Exceedances. All 6 of the Lagoon samples assessed in Mugu Lagoon had degraded benthos.

7. Bioaccumulation measured in field collected fish and laboratory exposed bivalves (*Macoma nasuta*) indicated that field collected fish in the West Basin and Cabrillo Beach Pier areas of Los Angeles Harbor contained DDT and PCB tissue concentrations that exceeded EPA screening values. Bivalves exposed to sediments from the Cabrillo Beach Pier area accumulated significantly higher concentrations of DDT and PCBs than clams exposed to control sediment. Fish collected from one station in Mugu Lagoon also had elevated levels of PCBs.

8.The results of these studies were consolidated into weight-of-evidence categorization tables. Stations were grouped based on chemical and ecotoxicological results into 9 possible categories that considered the magnitude of contamination by chemicals of concern, occurrence of toxicity using multiple toxicity test protocols, benthic community degradation, and in some cases, tissue bioaccumulation. Specific thresholds were established for each measure, beyond which stations were considered to have elevated chemistry, significant toxicity, degraded benthic community structure, or elevated tissue concentrations.

Stations in the Consolidated Slip area were the Industrial Harbor stations that met all the criteria for Category 1. Samples from these stations had elevated chemistry, recurrent toxicity, and degraded benthic community structure. A majority of the Industrial Harbor stations met the criteria for Categories 5 or 6. These were stations with either, elevated chemistry and mixed results from biological measures (Cat. 5), or with measured biological impact but chemistry values below thresholds or not measured (Cat. 6).

The majority of Marina stations met the criteria for Categories 5 and 6. Some stations in Marina Del Rey had sediments with elevated chemistry; these stations were also significantly toxic to amphipods. The RBI at some of these stations was relatively low, but did not exceed the threshold for significant benthic community degradation.

The majority of Lagoon stations also met the criteria for Categories 5 and 6. Stations in Colorado Lagoon, Ballona Creek, and McGrath Lake had elevated chemistry and were significantly toxic to amphipods, but benthic community structure was not characterized at these stations. Stations in Mugu Lagoon all met the criteria for Category 6. Individual pesticides exceeded some guideline values in Mugu Lagoon, and amphipod survival was variable. Benthic community structure was degraded at all of the 6 Mugu Lagoon stations analyzed.

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Table 12. ERM and PEL Quotients and Number of Sediment Quality Guideline Exceedances at Industrial Harbor Stations. Stations are ranked in descending order by ERM Quotient.

STANUM	STATION	IDORG	LEG	ERMQ	PELQ	ERM EXCDS	PEL EXCDS
47004.0	Consolidated Slip - 200E - Depth 2	1657	46	4.38	6.30	15	27
47004.0	Consolidated Slip - 200E - Surface	1656	46	1.29	1.86	6	17
49004.0	Kaiser Intl.- Berth 49	1793	54	2.70	5.71	17	19
40006.1	Consolidated Slip - Rep 1	1050	25	1.95	2.66	7	14
40006.1	Consolidated Slip - Rep 2	1051	25	1.65	2.28	7	16
40006.1	Consolidated Slip - Rep 3	1052	25	1.47	2.05	8	19
40006.1	Consolidated Slip	16	1	1.27	1.76	6	13
47002.0	Consolidated Slip – 200 - Surface	1650	46	1.92	2.45	8	15
47002.0	Consolidated Slip – 200 - Depth 2	1651	46	1.57	2.06	4	10
47009.0	Consolidated Slip - 200G - Surface	1664	46	1.66	2.23	8	17
47003.0	Consolidated Slip - 200B - Surface	1653	46	1.63	2.14	6	12
47008.0	Consolidated Slip - Storm Drain	1663	46	1.61	2.12	6	12
47001.0	Consolidated Slip – 198 - Surface	1647	46	1.43	1.88	5	8
47001.0	Consolidated Slip – 198 - Depth 2	1648	46	1.42	1.95	5	12
40006.2	Consolidated Slip	17	1	1.29	1.77	5	18
47007.0	Consolidated Slip – End – Surface	1662	46	1.01	1.32	4	5
40019.3	Inner Fish Harbor	57	2	0.91	1.27	7	14
47010.0	Dominguez - H. Ford Bridge - Surface	1665	46	0.80	1.10	3	5
40019.2	Inner Fish Harbor	56	2	0.66	0.90	5	6
40019.1	Inner Fish Harbor	55	2	0.62	0.89	4	12
40007.2	Long Beach Harbor - Channel 2	20	3	0.59	0.81	4	14
40011.3	Inner Harbor - Channel 3	33	3	0.57	0.69	3	3
40001.3	Southwest Slip	3	1	0.56	0.84	10	16
44012.0	Port Hueneme - Wharf B	1626	45	0.54	0.79	7	15
40031.1	Palos Verdes - Swartz 6	76	3	0.52	0.67	3	5
40001.2	Southwest Slip - Rep 1	1062	25	0.52	0.75	5	12
40001.2	Southwest Slip - Rep 2	1063	25	0.50	0.72	5	13
40001.2	Southwest Slip	2	1	0.42	0.56	4	9
40001.2	Southwest Slip - Rep 3	1064	25	0.32	0.44	1	4
40013.1	Inner Queensway Bay - Rep 3	1058	25	0.52	0.73	1	2
40013.1	Inner Queensway Bay	37	3	0.38	0.54	1	2
40013.1	Inner Queensway Bay - Rep 2	1057	25	0.31	0.43	1	1
40013.1	Inner Queensway Bay - Rep 1	1056	25	0.28	0.41	1	1
40014.2	Outer Queensway Bay	41	3	0.49	0.67	2	2
40014.3	Outer Queensway Bay	42	3	0.48	0.64	2	1
40031.3	Palos Verdes - Swartz 6	78	3	0.47	0.58	3	3
40013.2	Inner Queensway Bay	38	3	0.44	0.63	1	3
40031.2	Palos Verdes (Swartz 6) – Rep 2	1039	25	0.43	0.57	3	5
40031.2	Palos Verdes (Swartz 6) – Rep 3	1004	23	0.39	0.52	2	4

Table 12 cont. ERM and PEL Quotients and Number of Sediment Quality Guideline Exceedances at Industrial Harbor Stations. Stations are ranked in descending order by ERMQ.

STANUM	STATION	IDORG	LEG	ERMQ	PELQ	ERM EXCDS	PEL EXCDS
40031.2	Palos Verdes (Swartz 6) - Rep 1	1038	25	0.38	0.49	3	4
40031.2	Palos Verdes (Swartz 6)	77	3	0.37	0.49	3	4
40031.2	Palos Verdes (Swartz 6) - Rep 2	1003	23	0.36	0.49	3	4
40031.2	Palos Verdes (Swartz 6) - Rep 1	1002	23	0.32	0.44	2	3
40031.2	Palos Verdes (Swartz 6) - Rep 3	1040	25	0.30	0.41	3	4
40031.2	Palos V.(Swartz 6) - Rep 4 Blind	1005	23	0.29	0.42	1	0
40031.2	Palos Verdes (Swartz 6) - Rep 1	1189	30	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 2	1190	30	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1191	30	NA	NA	NA	NA
40005.1	East Basin - Turning Basin	13	1	0.41	0.54	3	3
48009.0	San Pedro Bay Outer Harbor	1694	48	0.39	0.52	2	1
40001.1	Southwest Slip	1	1	0.38	0.51	1	13
40004.2	Lower Main Channel	11	1	0.37	0.55	1	2
40004.2	Lower Main Channel - Rep 3	832	20	0.24	0.35	1	0
40004.2	Lower Main Channel - Rep 2	831	20	0.21	0.29	1	0
40004.2	Lower Main Channel - Rep 1	830	20	0.20	0.28	1	0
40004.2	Lower Main Channel	789	18	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 2	1069	26	0.36	0.60	2	2
40010.1	Off Cabrillo Beach - Rep 3	1070	26	0.34	0.57	2	2
40010.1	Off Cabrillo Beach - Rep 1	1068	26	0.33	0.55	1	2
40010.1	Off Cabrillo Beach - Rep 1	1006	23	0.31	0.47	1	2
40010.1	Off Cabrillo Beach	28	2	0.28	0.44	1	1
40010.1	Off Cabrillo Beach	136	4	0.26	0.37	1	1
40010.1	Off Cabrillo Beach	810	19	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	1331	32	NA	NA	NA	NA
49005.0	Kaiser Intl.- Berth 48	1794	54	0.34	0.63	1	5
40004.3	Lower Main Channel	12	1	0.34	0.48	2	3
44013.0	Port Hueneme – Wharf #1	1627	45	0.34	0.55	1	12
40010.3	Off Cabrillo Beach - Rep 2	1075	26	0.33	0.53	1	2
40010.3	Off Cabrillo Beach - Rep 1	1074	26	0.32	0.50	1	1
40010.3	Off Cabrillo Beach - Rep 3	1008	23	0.30	0.47	1	2
40010.3	Off Cabrillo Beach	30	2	0.28	0.43	1	1
40010.3	Off Cabrillo Beach - Rep 3	1076	26	0.26	0.43	1	1
40010.3	Off Cabrillo Beach	138	4	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	1333	32	NA	NA	NA	NA
40011.1	Inner Harbor - Channel 3	31	3	0.33	0.43	1	1
40010.2	Off Cabrillo Beach - Rep 1	1071	26	0.32	0.51	1	2
40010.2	Off Cabrillo Beach - Rep 2	1072	26	0.30	0.48	1	1
40010.2	Off Cabrillo Beach - Rep 2	1007	23	0.30	0.44	1	0

Table 12 cont. ERM and PEL Quotients and Number of Sediment Quality Guideline Exceedances at Industrial Harbor Stations. Stations are ranked in descending order by ERMQ.

STANUM	STATION	IDORG	LEG	ERMQ	PELQ	ERM EXCDS	PEL EXCDS
40010.2	Off Cabrillo Beach - Rep 3	1073	26	0.27	0.44	1	1
40010.2	Off Cabrillo Beach	29	2	0.26	0.38	1	0
40010.2	Off Cabrillo Beach	137	4	NA	NA	NA	NA
40010.2	Off Cabrillo Beach	1332	32	NA	NA	NA	NA
40011.2	Inner Harbor - Channel 3	32	3	0.30	0.45	1	2
44011.0	Los Cerritos Channel Tidal P - Rep3	1079	26	0.30	0.41	1	1
44011.0	Los Cerritos Channel Tidal P - Rep1	1077	26	0.29	0.39	1	1
44011.0	Los Cerritos Channel Tidal P - Rep2	1078	26	0.27	0.37	1	2
44011.0	Los Cerritos Channel Tidal P	611	11	NA	NA	NA	NA
40033.1	Outer Harbor - Pola 10	82	1	0.28	0.40	1	4
40018.3	Long Beach Outer Harbor – 18 – Rep 2	1042	25	0.27	0.37	2	1
40018.3	Long Beach Outer Harbor – 18 – Rep 3	886	22	0.26	0.35	2	1
40018.3	Long Beach Outer Harbor – 18 – Rep 2	885	22	0.25	0.35	1	1
40018.3	Long Beach Outer Harbor – 18 – Rep 1	884	22	0.23	0.32	1	1
40018.3	Long Beach Outer Harbor – 18 – Rep1	1041	25	0.22	0.31	1	1
40018.3	Long Beach Outer Harbor – 18	1695	48	0.25	0.37	2	1
40018.3	Long Beach Outer Harbor – 18 – Rep3	1043	25	0.21	0.30	1	1
40018.3	Long Beach Outer Harbor – 18	54	3	0.21	0.28	1	0
40018.3	Long Beach Outer Harbor – 18 – Rep 1	1192	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 – Rep 2	1193	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 – Rep 3	1194	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1334	32	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1770	53	NA	NA	0	0
40012.0	Southeast Basin	1632	45	0.25	0.33	1	1
40020.2	Long Beach Outer Harbor - 20	1696	48	0.23	0.31	2	1
40012.1	Southeast Basin - Rep 1	1047	25	0.23	0.30	1	1
40012.1	Southeast Basin - Rep 2	1048	25	0.21	0.28	1	0
40012.1	Southeast Basin	34	2	0.20	0.27	1	0
40012.1	Southeast Basin - Rep 3	1049	25	0.18	0.23	1	0
40012.1	Southeast Basin	812	19	NA	NA	NA	NA
40008.1	East Basin - Pier C	22	2	0.23	0.30	1	0
48010.0	Turning Basin	1697	48	0.22	0.31	1	0
40017.3	Long Beach Channel - Rep 2	1060	25	0.21	0.29	1	0
40017.3	Long Beach Channel - Rep 1	1059	25	0.19	0.26	1	0
40017.3	Long Beach Channel - Rep 3	1061	25	0.17	0.22	1	0
40017.3	Long Beach Channel	51	3	0.16	0.21	1	0
40002.2	West Basin - Pier 143	5	1	0.21	0.29	1	0
40016.3	Terminal Island Stp	48	2	0.20	0.26	1	1
40012.2	Southeast Basin	35	2	0.20	0.26	1	1

Table 12 cont. ERM and PEL Quotients and Number of Sediment Quality Guideline Exceedances at Industrial Harbor Stations. Stations are ranked in descending order by ERMQ.

STANUM	STATION	IDORG	LEG	ERMQ	PELQ	ERM EXCDS	PEL EXCDS
40009.0	West Basin Entrance	1699	48	0.20	0.25	0	0
40009.1	West Basin Entrance - Ref 1	834	20	0.18	0.24	1	0
40009.1	West Basin Entrance - Ref 3	836	20	0.18	0.24	0	0
40009.1	West Basin Entrance - Ref 2	835	20	0.17	0.23	1	0
40009.1	West Basin Entrance	25	2	0.16	0.19	0	0
40008.3	East Basin - Pier C	24	2	0.18	0.23	0	0
40015.1	Fish Harbor Entrance	43	2	0.18	0.23	1	0
40016.1	Terminal Island Stp	46	2	0.18	0.23	1	1
40015.3	Fish Harbor Entrance	45	2	0.17	0.22	1	0
40003.1	Turning Basin - Pier 151	7	1	0.17	0.23	1	1
40020.3	Long Beach Outer Harbor - 20	60	3	0.16	0.23	1	0
40009.3	West Basin Entrance	27	2	0.15	0.20	0	0
40020.2	Long Beach Outer Harbor - 20	59	3	0.15	0.21	1	0
40015.1	Fish Harbor Entrance	1698	48	0.15	0.21	1	0
40020.1	Long Beach Outer Harbor - 20	58	3	0.14	0.19	1	0
40032.3	San Pedro Bay - POLA 19	105	2	0.14	0.17	1	0
40032.3	San Pedro Bay - POLA 19	81	1	0.11	0.14	1	0
40015.2	Fish Harbor Entrance	44	2	0.13	0.18	1	0
40003.2	Turning Basin, Pier 151 - Rep 3	1055	25	0.13	0.18	0	0
40003.2	Turning Basin, Pier 151 - Rep 2	1054	25	0.11	0.14	0	0
40003.2	Turning Basin, Pier 151	8	1	0.11	0.15	0	0
40003.2	Turning Basin, Pier 151 - Rep 1	1053	25	0.11	0.13	0	0
40016.2	Terminal Island Stp	47	2	0.13	0.16	0	0
40030.1	San Pedro Breakwater	73	2	0.11	0.13	1	0
40030.2	San Pedro Breakwater	74	2	0.11	0.13	1	0
40032.1	San Pedro Bay - POLA 19	103	2	0.10	0.16	1	0
40032.2	San Pedro Bay - POLA 19	104	2	0.10	0.13	1	0
40002.1	West Basin - Pier 143	4	1	NA	NA	NA	NA
40002.3	West Basin - Pier 143	6	1	NA	NA	NA	NA
40003.3	Turning Basin - Pier 151	9	1	NA	NA	NA	NA
40004.1	Lower Main Channel	10	1	NA	NA	NA	NA
40005.2	East Basin - Turning Basin	14	1	NA	NA	NA	NA
40005.3	East Basin - Turning Basin	15	1	NA	NA	NA	NA
40006.3	Consolidated Slip	18	1	NA	NA	NA	NA
40032.1	San Pedro Bay - POLA 19	79	1	NA	NA	NA	NA
40032.2	San Pedro Bay - POLA 19	80	1	NA	NA	NA	NA
40033.2	Outer Harbor - POLA 10	83	1	NA	NA	NA	NA
40033.3	Outer Harbor - POLA 10	84	1	NA	NA	NA	NA

Table 12 cont. ERM and PEL Quotients and Number of Sediment Quality Guideline Exceedances at Industrial Harbor Stations. Stations are ranked in descending order by ERMQ.

STANUM	STATION	IDORG	LEG	ERMQ	PELQ	ERM EXCDS	PEL EXCDS
40008.2	East Basin - Pier C	23	2	NA	NA	NA	NA
40009.2	West Basin Entrance	26	2	NA	NA	NA	NA
40012.3	Southeast Basin	36	2	NA	NA	NA	NA
40030.3	San Pedro Breakwater	75	2	NA	NA	1	0
40007.1	Long Beach Harbor - Channel 2	19	3	NA	NA	NA	NA
40007.3	Long Beach Harbor - Channel 2	21	3	NA	NA	NA	NA
40013.3	Inner Queensway Bay	39	3	NA	NA	NA	NA
40014.1	Outer Queensway Bay	40	3	NA	NA	NA	NA
40017.1	Long Beach Channel	49	3	NA	NA	NA	NA
40017.2	Long Beach Channel	50	3	NA	NA	NA	NA
40018.1	Long Beach Outer Harbor - 18	52	3	NA	NA	NA	NA
40018.2	Long Beach Outer Harbor - 18	53	3	NA	NA	NA	NA
44012.0	Port Hueneme - Wharf B	612	11	NA	NA	NA	NA
44013.0	Port Hueneme - Wharf #1	613	11	NA	NA	NA	NA
40009.1	West Basin Entrance	790	18	NA	NA	NA	NA
40013.1	Inner Queensway Bay	791	18	NA	NA	NA	NA
40015.3	Fish Harbor Entrance	792	18	NA	NA	NA	NA
40016.2	Terminal Island Stp	793	18	NA	NA	NA	NA
40017.3	Long Beach Channel	811	19	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 1	1198	30	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 2	1199	30	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 3	1200	30	NA	NA	NA	NA
46001.0	Hugo Neuproler - #1	1623	45	NA	NA	1	1
46002.0	Hugo Neuproler - #2	1624	45	NA	NA	1	1
46003.0	Hugo Neuproler - #3	1625	45	NA	NA	0	0
47003.0	Consolidated Slip – 200B – Depth 2	1654	46	NA	NA	7	10
47005.0	Consolidated Slip – 200T – Surface	1659	46	NA	NA	10	11
47005.0	Consolidated Slip – 200T – Depth 2	1660	46	NA	NA	9	9
47005.0	Consolidated Slip – 200T – Depth 3	1661	46	NA	NA	5	9
48009.0	San Pedro Bay Outer Harbor	1769	53	NA	NA	0	0
40020.2	Long Beach Outer Harbor - 20	1771	53	NA	NA	0	0
48010.0	Turning Basin	1772	53	NA	NA	0	0
40015.1	Fish Harbor Entrance	1773	53	NA	NA	0	0
40009.0	West Basin Entrance	1774	53	NA	NA	0	0
49001.0	Cabrillo Beach Pier - West	1778	53	NA	NA	1	1
49002.0	Cabrillo Beach Pier - Central	1779	53	NA	NA	1	0
49003.0	Cabrillo Beach Pier - East	1780	53	NA	NA	1	0

Table 13. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Industrial Harbor Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
47004.0	Consolidated Slip - 200E - Depth 2	1657	46	NA	NA	NA	NA	33.00	23.00	*	T
47004.0	Consolidated Slip - 200E - Surface	1656	46	NA	NA	NA	NA	40.00	27.00	*	T
49004.0	Kaiser Intl. - Berth 49	1793	54	NA	NA	NA	NA	84.00	5.00	*	NT
40006.1	Consolidated Slip - Rep 1	1050	25	62.00	21.68	*	T	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 2	1051	25	65.00	9.35	*	T	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 3	1052	25	80.00	11.18	*	NT	NA	NA	NA	NA
40006.1	Consolidated Slip	16	1	58.00	17.20	*	T	NA	NA	NA	NA
47002.0	Consolidated Slip – 200 - Surface	1650	46	NA	NA	NA	NA	54.00	7.00	*	T
47002.0	Consolidated Slip – 200 - Depth 2	1651	46	NA	NA	NA	NA	86.00	4.00	*	NT
47009.0	Consolidated Slip - 200g - Surface	1664	46	NA	NA	NA	NA	50.00	20.00	*	T
47003.0	Consolidated Slip - 200b - Surface	1653	46	NA	NA	NA	NA	70.00	7.00	*	T
47008.0	Consolidated Slip - Storm Drain	1663	46	NA	NA	NA	NA	52.00	21.00	*	T
47001.0	Consolidated Slip – 198 - Surface	1647	46	NA	NA	NA	NA	61.00	19.00	*	T
47001.0	Consolidated Slip – 198 - Depth 2	1648	46	NA	NA	NA	NA	64.00	13.00	*	T
40006.2	Consolidated Slip	17	1	59.00	16.40	*	T	NA	NA	NA	NA
47007.0	Consolidated Slip – End - Surface	1662	46	NA	NA	NA	NA	65.00	15.00	*	T
40019.3	Inner Fish Harbor	57	2	54.00	21.00	*	T	NA	NA	NA	NA
47010.0	Dominguez - H. Ford Bridge - Surface	1665	46	NA	NA	NA	NA	61.00	21.00	*	T
40019.2	Inner Fish Harbor	56	2	73.00	4.50	*	NT	NA	NA	NA	NA
40019.1	Inner Fish Harbor	55	2	83.00	18.90	ns	NT	NA	NA	NA	NA
40007.2	Long Beach Harbor - Channel 2	20	3	88.00	11.50	ns	NT	NA	NA	NA	NA
40011.3	Inner Harbor - Channel 3	33	3	82.00	2.50	*	NT	NA	NA	NA	NA
40001.3	Southwest Slip	3	1	71.00	13.40	*	NT	NA	NA	NA	NA
44012.0	Port Hueneme - Wharf B	1626	45	NA	NA	NA	NA	98.00	4.00	ns	NT

Table 13 continued. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Industrial Harbor Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
40031.1	Palos Verdes - Swartz 6	76	3	86.00	7.40	ns	NT	NA	NA	NA	NA
40001.2	Southwest Slip - Rep 1	1062	25	69.00	12.45	*	T	NA	NA	NA	NA
40001.2	Southwest Slip - Rep 2	1063	25	72.00	7.58	*	T	NA	NA	NA	NA
40001.2	Southwest Slip	2	1	51.00	17.80	*	T	NA	NA	NA	NA
40001.2	Southwest Slip - Rep 3	1064	25	58.00	15.25	*	T	NA	NA	NA	NA
40013.1	Inner Queensway Bay - Rep 3	1058	25	71.00	11.40	*	T	NA	NA	NA	NA
40013.1	Inner Queensway Bay	37	3	83.00	13.00	ns	NT	NA	NA	NA	NA
40013.1	Inner Queensway Bay - Rep 2	1057	25	76.00	9.62	*	NT	NA	NA	NA	NA
40013.1	Inner Queensway Bay - Rep 1	1056	25	83.00	8.37	*	NT	NA	NA	NA	NA
40014.2	Outer Queensway Bay	41	3	80.00	14.60	*	NT	NA	NA	NA	NA
40014.3	Outer Queensway Bay	42	3	64.00	36.30	ns	NT	NA	NA	NA	NA
40031.3	Palos Verdes - Swartz 6	78	3	96.00	2.20	ns	NT	NA	NA	NA	NA
40013.2	Inner Queensway Bay	38	3	84.00	6.50	*	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 2	1039	25	87.00	8.37	*	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1004	23	89.00	10.00	ns	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1038	25	70.00	11.73	*	T	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6)	77	3	93.00	7.60	ns	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 2	1003	23	91.00	7.00	ns	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1002	23	97.00	4.00	ns	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1040	25	85.00	14.58	ns	NT	NA	NA	NA	NA
40031.2	Palos V.(Swartz 6) - Rep 4 Blind	1005	23	91.00	11.00	ns	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1189	30	86.00	12.94	ns	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 2	1190	30	86.00	6.52	*	NT	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1191	30	91.00	11.94	ns	NT	NA	NA	NA	NA
40005.1	East Basin - Turning Basin	13	1	74.00	11.90	*	NT	NA	NA	NA	NA
48009.0	San Pedro Bay Outer Harbor	1694	48	NA	NA	NA	NA	96.00	4.00	ns	NT
40001.1	Southwest Slip	1	1	65.00	28.90	*	NT	NA	NA	NA	NA

Table 13 continued. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Industrial Harbor Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
40004.2	Lower Main Channel	11	1	80.00	7.90	*	NT	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 3	832	20	93.00	8.00	ns	NT	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 2	831	20	91.00	12.00	ns	NT	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 1	830	20	91.00	4.00	ns	NT	NA	NA	NA	NA
40004.2	Lower Main Channel	789	18	68.00	18.20	*	T	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 2	1069	26	48.00	11.51	*	T	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 3	1070	26	46.00	16.36	*	T	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 1	1068	26	80.00	16.96	*	NT	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 1	1006	23	68.00	10.00	*	NT	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	28	2	92.00	7.60	ns	NT	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	136	4	89.00	14.30	ns	NT	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	810	19	58.00	11.00	*	T	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	1331	32	92.00	2.74	ns	NT	NA	NA	NA	NA
49005.0	Kaiser Intl. - Berth 48	1794	54	NA	NA	NA	NA	96.00	4.00	ns	NT
40004.3	Lower Main Channel	12	1	81.00	9.60	*	NT	NA	NA	NA	NA
44013.0	Port Hueneme - Wharf #1	1627	45	NA	NA	NA	NA	99.00	2.00	ns	NT
40010.3	Off Cabrillo Beach - Rep 2	1075	26	64.00	15.57	*	T	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 1	1074	26	60.00	14.14	*	T	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 3	1008	23	69.00	10.00	*	NT	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	30	2	91.00	9.60	ns	NT	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 3	1076	26	48.00	18.91	*	T	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	138	4	84.00	5.50	*	NT	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	1333	32	91.00	5.48	ns	NT	NA	NA	NA	NA
40011.1	Inner Harbor - Channel 3	31	3	85.00	6.90	ns	NT	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 1	1071	26	78.00	13.04	*	NT	NA	NA	NA	NA
40010.2	Off Cabrillo Beach -Rep 2	1072	26	63.00	14.83	*	T	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1007	23	90.00	7.00	ns	NT	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 3	1073	26	72.00	14.83	*	NT	NA	NA	NA	NA

Table 13 continued. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Industrial Harbor Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
40010.2	Off Cabrillo Beach	29	2	88.00	9.10	ns	NT	NA	NA	NA	NA
40010.2	Off Cabrillo Beach	137	4	89.00	5.50	ns	NT	NA	NA	NA	NA
40010.2	Off Cabrillo Beach	1332	32	82.50	10.41	*	NT	NA	NA	NA	NA
40011.2	Inner Harbor - Channel 3	32	3	84.00	5.30	ns	NT	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep 3	1079	26	62.00	17.54	*	T	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep 1	1077	26	66.00	14.75	*	NT	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep 2	1078	26	62.00	18.23	*	T	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P	611	11	65.00	19.40	*	T	NA	NA	NA	NA
40033.1	Outer Harbor - POLA 10	82	1	71.00	20.40	*	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 2	1042	25	70.00	10.61	*	T	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 3	886	22	89.00	4.00	*	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 2	885	22	91.00	5.00	ns	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 1	884	22	93.00	7.00	ns	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 1	1041	25	56.00	15.97	*	T	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1695	48	NA	NA	NA	NA	75.00	23.00	ns	NT
40018.3	Long Beach Outer Harbor – 18 - Rep 3	1043	25	72.00	13.04	*	T	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	54	3	93.00	4.50	ns	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 1	1192	30	88.00	7.58	*	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 2	1193	30	89.00	5.48	*	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 3	1194	30	81.00	12.45	*	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1334	32	90.00	10.00	ns	NT	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1770	53	NA	NA	NA	NA	59.00	30.00	*	T
40012.0	Southeast Basin	1632	45	NA	NA	NA	NA	99.00	2.00	ns	NT
40020.2	Long Beach Outer Harbor - 20	1696	48	NA	NA	NA	NA	81.00	15.00	*	NT
40012.1	Southeast Basin - Rep1	1047	25	39.00	15.17	*	T	NA	NA	NA	NA
40012.1	Southeast Basin - Rep2	1048	25	51.00	15.17	*	T	NA	NA	NA	NA
40012.1	Southeast Basin	34	2	77.00	14.00	*	NT	NA	NA	NA	NA
40012.1	Southeast Basin - Rep3	1049	25	66.00	4.18	*	T	NA	NA	NA	NA

Table 13 continued. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Industrial Harbor Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
40012.1	Southeast Basin	812	19	34.00	21.00	*	T	NA	NA	NA	NA
40008.1	East Basin - Pier C	22	2	80.00	16.20	ns	NT	NA	NA	NA	NA
48010.0	Turning Basin	1697	48	NA	NA	NA	NA	95.00	5.00	ns	NT
40017.3	Long Beach Channel - Rep 2	1060	25	47.00	17.89	*	T	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 1	1059	25	71.00	10.84	*	T	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 3	1061	25	61.00	8.22	*	T	NA	NA	NA	NA
40017.3	Long Beach Channel	51	3	88.00	8.40	ns	NT	NA	NA	NA	NA
40002.2	West Basin- Pier 143	5	1	78.00	13.00	*	NT	NA	NA	NA	NA
40016.3	Terminal Island Stp	48	2	80.00	12.70	*	NT	NA	NA	NA	NA
40012.2	Southeast Basin	35	2	78.00	13.50	*	NT	NA	NA	NA	NA
40009.0	West Basin Entrance	1699	48	NA	NA	NA	NA	86.00	7.00	*	NT
40009.1	West Basin Entrance - Ref 1	834	20	97.00	4.00	ns	NT	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 3	836	20	91.00	7.00	ns	NT	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 2	835	20	86.00	10.00	ns	NT	NA	NA	NA	NA
40009.1	West Basin Entrance	25	2	88.00	5.70	ns	NT	NA	NA	NA	NA
40008.3	East Basin - Pier C	24	2	76.00	8.90	*	NT	NA	NA	NA	NA
40015.1	Fish Harbor Entrance	43	2	83.00	5.00	*	NT	NA	NA	NA	NA
40016.1	Terminal Island Stp	46	2	72.00	5.70	*	NT	NA	NA	NA	NA
40015.3	Fish Harbor Entrance	45	2	92.00	7.60	ns	NT	NA	NA	NA	NA
40003.1	Turning Basin - Pier 151	7	1	64.00	16.40	*	NT	NA	NA	NA	NA
40020.3	Long Beach Outer Harbor - 20	60	3	84.00	9.60	*	NT	NA	NA	NA	NA
40009.3	West Basin Entrance	27	2	87.00	5.70	ns	NT	NA	NA	NA	NA
40020.2	Long Beach Outer Harbor - 20	59	3	92.00	11.00	ns	NT	NA	NA	NA	NA
40015.1	Fish Harbor Entrance	1698	48	NA	NA	NA	NA	89.00	10.00	ns	NT
40020.1	Long Beach Outer Harbor - 20	58	3	83.00	7.60	*	NT	NA	NA	NA	NA
40032.3	San Pedro Bay - POLA 19	105	2	86.00	15.20	ns	NT	NA	NA	NA	NA
40032.3	San Pedro Bay - POLA 19	81	1	93.00	2.70	ns	NT	NA	NA	NA	NA
40015.2	Fish Harbor Entrance	44	2	83.00	7.60	*	NT	NA	NA	NA	NA

Table 13 continued. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Industrial Harbor Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
40003.2	Turning Basin, Pier 151 - Rep 3	1055	25	82.00	12.55	*	NT	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151 - Rep 2	1054	25	91.00	6.52	ns	NT	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151	8	1	63.00	29.90	*	NT	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151 - Rep 1	1053	25	85.00	10.00	*	NT	NA	NA	NA	NA
40016.2	Terminal Island Stp	47	2	88.00	8.40	ns	NT	NA	NA	NA	NA
40030.1	San Pedro Breakwater	73	2	90.00	3.50	ns	NT	NA	NA	NA	NA
40030.2	San Pedro Breakwater	74	2	94.00	6.50	ns	NT	NA	NA	NA	NA
40032.1	San Pedro Bay - POLA 19	103	2	94.00	5.50	ns	NT	NA	NA	NA	NA
40032.2	San Pedro Bay - POLA 19	104	2	94.00	5.50	ns	NT	NA	NA	NA	NA
40002.1	West Basin - Pier 143	4	1	75.00	13.90	*	NT	NA	NA	NA	NA
40002.3	West Basin - Pier 143	6	1	74.00	10.80	*	NT	NA	NA	NA	NA
40003.3	Turning Basin - Pier 151	9	1	81.00	9.60	*	NT	NA	NA	NA	NA
40004.1	Lower Main Channel	10	1	78.00	6.70	*	NT	NA	NA	NA	NA
40005.2	East Basin - Turning Basin	14	1	73.00	7.60	*	NT	NA	NA	NA	NA
40005.3	East Basin - Turning Basin	15	1	79.00	15.60	ns	NT	NA	NA	NA	NA
40006.3	Consolidated Slip	18	1	67.00	11.50	*	NT	NA	NA	NA	NA
40032.1	San Pedro Bay - POLA 19	79	1	86.00	4.20	*	NT	NA	NA	NA	NA
40032.2	San Pedro Bay - POLA 19	80	1	85.00	9.40	ns	NT	NA	NA	NA	NA
40033.2	Outer Harbor - POLA 10	83	1	70.00	21.80	*	NT	NA	NA	NA	NA
40033.3	Outer Harbor - POLA 10	84	1	65.00	17.30	*	NT	NA	NA	NA	NA
40008.2	East Basin - Pier C	23	2	78.00	11.50	*	NT	NA	NA	NA	NA
40009.2	West Basin Entrance	26	2	81.00	2.20	*	NT	NA	NA	NA	NA
40012.3	Southeast Basin	36	2	69.00	16.40	*	NT	NA	NA	NA	NA
40030.3	San Pedro Breakwater	75	2	95.00	6.10	ns	NT	NA	NA	NA	NA
40007.1	Long Beach Harbor - Channel 2	19	3	82.00	10.40	*	NT	NA	NA	NA	NA
40007.3	Long Beach Harbor - Channel 2	21	3	78.00	14.40	*	NT	NA	NA	NA	NA
40013.3	Inner Queensway Bay	39	3	81.00	10.80	*	NT	NA	NA	NA	NA
40014.1	Outer Queensway Bay	40	3	78.00	10.40	*	NT	NA	NA	NA	NA

Table 13 continued. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Industrial Harbor Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic w/ t-test & MSD. NT = Not Toxic; NA = Not Anlyz.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
40017.1	Long Beach Channel	49	3	76.00	11.40	*	NT	NA	NA	NA	NA
40017.2	Long Beach Channel	50	3	82.00	9.70	*	NT	NA	NA	NA	NA
40018.1	Long Beach Outer Harbor - 18	52	3	67.00	14.40	*	T	NA	NA	NA	NA
40018.2	Long Beach Outer Harbor - 18	53	3	79.00	11.40	*	NT	NA	NA	NA	NA
44012.0	Port Hueneme - Wharf B	612	11	70.00	15.40	*	T	NA	NA	NA	NA
44013.0	Port Hueneme - Wharf #1	613	11	73.00	11.50	*	T	NA	NA	NA	NA
40009.1	West Basin Entrance	790	18	60.00	18.40	*	T	NA	NA	NA	NA
40013.1	Inner Queensway Bay	791	18	50.00	19.00	*	T	NA	NA	NA	NA
40015.3	Fish Harbor Entrance	792	18	75.00	21.50	ns	NT	NA	NA	NA	NA
40016.2	Terminal Island Stp	793	18	63.00	28.00	*	T	NA	NA	NA	NA
40017.3	Long Beach Channel	811	19	54.00	26.30	*	T	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 1	1198	30	77.00	13.51	*	NT	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 2	1199	30	86.00	6.52	*	NT	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 3	1200	30	82.00	2.74	*	NT	NA	NA	NA	NA
46001.0	Hugo Neuproler - #1	1623	45	NA	NA	NA	NA	95.00	6.00	ns	NT
46002.0	Hugo Neuproler - #2	1624	45	NA	NA	NA	NA	98.00	3.00	ns	NT
46003.0	Hugo Neuproler - #3	1625	45	NA	NA	NA	NA	92.00	6.00	*	NT
47003.0	Consolidated Slip – 200B - Depth 2	1654	46	NA	NA	NA	NA	8.00	12.00	*	T
47005.0	Consolidated Slip – 200T - Surface	1659	46	NA	NA	NA	NA	0.00	0.00	*	T
47005.0	Consolidated Slip – 200T - Depth 2	1660	46	NA	NA	NA	NA	18.00	40.00	*	T
47005.0	Consolidated Slip – 200T - Depth 3	1661	46	NA	NA	NA	NA	13.00	29.00	*	T
48009.0	San Pedro Bay Outer Harbor	1769	53	NA	NA	NA	NA	85.00	10.00	*	NT
40020.2	Long Beach Outer Harbor - 20	1771	53	NA	NA	NA	NA	85.00	13.00	*	NT
48010.0	Turning Basin	1772	53	NA	NA	NA	NA	69.00	43.00	ns	NT
40015.1	Fish Harbor Entrance	1773	53	NA	NA	NA	NA	72.00	19.00	*	T
40009.0	West Basin Entrance	1774	53	NA	NA	NA	NA	74.00	12.00	*	NT
49001.0	Cabrillo Beach Pier - West	1778	53	NA	NA	NA	NA	NA	NA	NA	NA
49002.0	Cabrillo Beach Pier - Central	1779	53	NA	NA	NA	NA	NA	NA	NA	NA
49003.0	Cabrillo Beach Pier - East	1780	53	NA	NA	NA	NA	NA	NA	NA	NA

Table 14a. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (100% concentration). HRP 100 MN = Mean percent normal development of *Haliotis rufescens* in 100% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 100 MN	HRP 100 SD	HRP 100 t-test	HRP 100 MSD
47004.0	Consolidated Slip - 200E - Depth 2	1657	46	NA	NA	NA	NA
47004.0	Consolidated Slip - 200E - Surface	1656	46	NA	NA	NA	NA
49004.0	Kaiser Intl.- Berth 49	1793	54	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 1	1050	25	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 2	1051	25	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 3	1052	25	NA	NA	NA	NA
40006.1	Consolidated Slip	16	1	0.00	0.00	*	T
47002.0	Consolidated Slip – 200 – Surface	1650	46	NA	NA	NA	NA
47002.0	Consolidated Slip – 200 – Depth 2	1651	46	NA	NA	NA	NA
47009.0	Consolidated Slip – 200G – Surface	1664	46	NA	NA	NA	NA
47003.0	Consolidated Slip – 200B – Surface	1653	46	NA	NA	NA	NA
47008.0	Consolidated Slip – Storm Drain	1663	46	NA	NA	NA	NA
47001.0	Consolidated Slip – 198 – Surface	1647	46	NA	NA	NA	NA
47001.0	Consolidated Slip – 198 – Dept h 2	1648	46	NA	NA	NA	NA
40006.2	Consolidated Slip	17	1	0.00	0.00	*	T
47007.0	Consolidated Slip – End - Surface	1662	46	NA	NA	NA	NA
40019.3	Inner Fish Harbor	57	2	0.00	0.00	*	T
47010.0	Dominguez - H. Ford Bridge – Surface	1665	46	NA	NA	NA	NA
40019.2	Inner Fish Harbor	56	2	88.60	6.10	ns	NT
40019.1	Inner Fish Harbor	55	2	0.00	0.00	*	T
40007.2	Long Beach Harbor - Channel 2	20	3	0.00	0.00	*	T
40011.3	Inner Harbor - Channel 3	33	3	0.00	0.00	*	T
40001.3	Southwest Slip	3	1	0.70	0.60	*	T
44012.0	Port Hueneme - Wharf B	1626	45	NA	NA	NA	NA
40031.1	Palos Verdes - Swartz 6	76	3	0.00	0.00	*	T
40001.2	Southwest Slip – Rep 1	1062	25	NA	NA	NA	NA
40001.2	Southwest Slip – Rep 2	1063	25	NA	NA	NA	NA
40001.2	Southwest Slip	2	1	81.40	7.90	*	NT
40001.2	Southwest Slip – Rep 3	1064	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay - Rep 3	1058	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay	37	3	0.00	0.00	*	T
40013.1	Inner Queensway Bay - Rep 2	1057	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay - Rep 1	1056	25	NA	NA	NA	NA
40014.2	Outer Queensway Bay	41	3	0.00	0.00	*	T
40014.3	Outer Queensway Bay	42	3	0.00	0.00	*	T
40031.3	Palos Verdes - Swartz 6	78	3	55.60	26.70	*	NT
40013.2	Inner Queensway Bay	38	3	0.00	0.00	*	T
40031.2	Palos Verdes (Swartz 6) - Rep 2	1039	25	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1004	23	NA	NA	NA	NA

Table 14a continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (100% concentration). HRP 100 MN = Mean percent normal development of *Haliotis rufescens* in 100% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 100 MN	HRP 100 SD	HRP 100 t-test	HRP 100 MSD
40031.2	Palos Verdes (Swartz 6) – Rep 1	1038	25	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6)	77	3	0.00	0.00	*	T
40031.2	Palos Verdes (Swartz 6) – Rep 2	1003	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) – Rep 1	1002	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) – Rep 3	1040	25	NA	NA	NA	NA
40031.2	Palos V.(Swartz 6) - Rep 4 Blind	1005	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) – Rep 1	1189	30	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) – Rep 2	1190	30	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) – Rep 3	1191	30	NA	NA	NA	NA
40005.1	East Basin - Turning Basin	13	1	0.00	0.00	*	T
48009.0	San Pedro Bay Outer Harbor	1694	48	NA	NA	NA	NA
40001.1	Southwest Slip	1	1	72.30	15.90	ns	NT
40004.2	Lower Main Channel	11	1	69.10	29.80	ns	NT
40004.2	Lower Main Channel - Rep 3	832	20	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 2	831	20	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 1	830	20	NA	NA	NA	NA
40004.2	Lower Main Channel	789	18	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 2	1069	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 3	1070	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 1	1068	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 1	1006	23	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	28	2	92.70	3.40	ns	NT
40010.1	Off Cabrillo Beach	136	4	1.70	2.90	*	T
40010.1	Off Cabrillo Beach	810	19	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	1331	32	NA	NA	NA	NA
49005.0	Kaiser Intl.- Berth 48	1794	54	NA	NA	NA	NA
40004.3	Lower Main Channel	12	1	78.70	28.20	ns	NT
44013.0	Port Hueneme - Wharf #1	1627	45	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 2	1075	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 1	1074	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 3	1008	23	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	30	2	95.60	2.40	ns	NT
40010.3	Off Cabrillo Beach - Rep 3	1076	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	138	4	0.00	0.00	*	T
40010.3	Off Cabrillo Beach	1333	32	NA	NA	NA	NA
40011.1	Inner Harbor - Channel 3	31	3	0.00	0.00	*	T
40010.2	Off Cabrillo Beach - Rep 1	1071	26	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1072	26	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1007	23	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 3	1073	26	NA	NA	NA	NA

Table 14a continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (100% concentration). HRP 100 MN = Mean percent normal development of *Haliotis rufescens* in 100% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 100 MN	HRP 100 SD	HRP 100 t-test	HRP 100 MSD
40010.2	Off Cabrillo Beach	29	2	93.80	1.80	ns	NT
40010.2	Off Cabrillo Beach	137	4	0.00	0.00	*	T
40010.2	Off Cabrillo Beach	1332	32	NA	NA	NA	NA
40011.2	Inner Harbor - Channel 3	32	3	0.00	0.00	*	T
44011.0	Los Cerritos Channel Tidal P - Rep3	1079	26	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep1	1077	26	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep2	1078	26	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P	611	11	NA	NA	NA	NA
40033.1	Outer Harbor - POLA 10	82	1	0.70	1.30	*	T
40018.3	Long Beach Outer Harbor – 18 - Rep2	1042	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 3	886	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 2	885	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 1	884	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep1	1041	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1695	48	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep3	1043	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	54	3	92.30	4.40	ns	NT
40018.3	Long Beach Outer Harbor – 18 - Rep 1	1192	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 2	1193	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 3	1194	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1334	32	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1770	53	NA	NA	NA	NA
40012.0	Southeast Basin	1632	45	NA	NA	NA	NA
40020.2	Long Beach Outer Harbor- 20	1696	48	NA	NA	NA	NA
40012.1	Southeast Basin - Rep1	1047	25	NA	NA	NA	NA
40012.1	Southeast Basin - Rep2	1048	25	NA	NA	NA	NA
40012.1	Southeast Basin	34	2	23.50	37.40	*	T
40012.1	Southeast Basin - Rep3	1049	25	NA	NA	NA	NA
40012.1	Southeast Basin	812	19	NA	NA	NA	NA
40008.1	East Basin - Pier C	22	2	93.10	1.30	ns	NT
48010.0	Turning Basin	1697	48	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 2	1060	25	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 1	1059	25	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 3	1061	25	NA	NA	NA	NA
40017.3	Long Beach Channel	51	3	50.70	7.50	*	T
40002.2	West Basin - Pier 143	5	1	0.00	0.00	*	T
40016.3	Terminal Island Stp	48	2	94.50	1.40	ns	NT
40012.2	Southeast Basin	35	2	94.30	2.20	ns	NT
40009.0	West Basin Entrance	1699	48	NA	NA	NA	NA

Table 14a continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (100% concentration). HRP 100 MN = Mean percent normal development of *Haliotis rufescens* in 100% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 100 MN	HRP 100 SD	HRP 100 t-test	HRP 100 MSD
40009.1	West Basin Entrance - Ref 1	834	20	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 3	836	20	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 2	835	20	NA	NA	NA	NA
40009.1	West Basin Entrance	25	2	1.10	1.10	*	T
40008.3	East Basin - Pier C	24	2	0.00	0.00	*	T
40015.1	Fish Harbor Entrance	43	2	51.30	24.00	*	T
40016.1	Terminal Island Stp	46	2	91.60	2.50	*	NT
40015.3	Fish Harbor Entrance	45	2	9.80	9.50	*	T
40003.1	Turning Basin - Pier 151	7	1	0.00	0.00	*	T
40020.3	Long Beach Outer Harbor - 20	60	3	24.20	18.30	*	T
40009.3	West Basin Entrance	27	2	0.00	0.00	*	T
40020.2	Long Beach Outer Harbor - 20	59	3	0.00	0.00	*	T
40015.1	Fish Harbor Entrance	1698	48	NA	NA	NA	NA
40020.1	Long Beach Outer Harbor - 20	58	3	0.00	0.00	*	T
40032.3	San Pedro Bay – POLA 19	105	2	0.00	0.00	*	T
40032.3	San Pedro Bay – POLA 19	81	1	0.00	0.00	*	T
40015.2	Fish Harbor Entrance	44	2	34.90	21.30	*	T
40003.2	Turning Basin, Pier 151 - Rep 3	1055	25	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151 - Rep 2	1054	25	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151	8	1	1.50	2.60	*	T
40003.2	Turning Basin, Pier 151 - Rep 1	1053	25	NA	NA	NA	NA
40016.2	Terminal Island Stp	47	2	71.20	27.10	ns	NT
40030.1	San Pedro Breakwater	73	2	0.00	0.00	*	T
40030.2	San Pedro Breakwater	74	2	0.00	0.00	*	T
40032.1	San Pedro Bay - POLA 19	103	2	0.00	0.00	*	T
40032.2	San Pedro Bay - POLA 19	104	2	0.00	0.00	*	T
40002.1	West Basin - Pier 143	4	1	0.00	0.00	*	T
40002.3	West Basin - Pier 143	6	1	0.00	0.00	*	T
40003.3	Turning Basin - Pier 151	9	1	23.30	38.70	*	T
40004.1	Lower Main Channel	10	1	26.20	33.50	*	T
40005.2	East Basin - Turning Basin	14	1	0.70	1.30	*	T
40005.3	East Basin - Turning Basin	15	1	0.00	0.00	*	T
40006.3	Consolidated Slip	18	1	0.00	0.00	*	T
40032.1	San Pedro Bay - POLA 19	79	1	65.70	23.90	ns	NT
40032.2	San Pedro Bay - POLA 19	80	1	30.70	53.10	ns	NT
40033.2	Outer Harbor - POLA 10	83	1	8.80	10.20	*	T
40033.3	Outer Harbor - POLA 10	84	1	3.30	5.70	*	T
40008.2	East Basin - Pier C	23	2	2.80	2.50	*	T
40009.2	West Basin Entrance	26	2	0.00	0.00	*	T

Table 14a continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (100% concentration). HRP 100 MN = Mean percent normal development of *Haliotis rufescens* in 100% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 100 MN	HRP 100 SD	HRP 100 t-test	HRP 100 MSD
40012.3	Southeast Basin	36	2	7.50	12.20	*	T
40030.3	San Pedro Breakwater	75	2	0.00	0.00	*	T
40007.1	Long Beach Harbor - Channel 2	19	3	0.00	0.00	*	T
40007.3	Long Beach Harbor - Channel 2	21	3	0.00	0.00	*	T
40013.3	Inner Queensway Bay	39	3	5.50	7.70	*	T
40014.1	Outer Queensway Bay	40	3	0.00	0.00	*	T
40017.1	Long Beach Channel	49	3	0.00	0.00	*	T
40017.2	Long Beach Channel	50	3	20.60	8.90	*	T
40018.1	Long Beach Outer Harbor - 18	52	3	0.00	0.00	*	T
40018.2	Long Beach Outer Harbor - 18	53	3	0.00	0.00	*	T
44012.0	Port Hueneme - Wharf B	612	11	NA	NA	NA	NA
44013.0	Port Hueneme - Wharf #1	613	11	NA	NA	NA	NA
40009.1	West Basin Entrance	790	18	NA	NA	NA	NA
40013.1	Inner Queensway Bay	791	18	NA	NA	NA	NA
40015.3	Fish Harbor Entrance	792	18	NA	NA	NA	NA
40016.2	Terminal Island Stp	793	18	NA	NA	NA	NA
40017.3	Long Beach Channel	811	19	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 1	1198	30	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 2	1199	30	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 3	1200	30	NA	NA	NA	NA
46001.0	Hugo Neuproler - #1	1623	45	NA	NA	NA	NA
46002.0	Hugo Neuproler - #2	1624	45	NA	NA	NA	NA
46003.0	Hugo Neuproler - #3	1625	45	NA	NA	NA	NA
47003.0	Consolidated Slip – 200B - Depth 2	1654	46	NA	NA	NA	NA
47005.0	Consolidated Slip – 200T - Surface	1659	46	NA	NA	NA	NA
47005.0	Consolidated Slip – 200T - Depth 2	1660	46	NA	NA	NA	NA
47005.0	Consolidated Slip – 200T - Depth 3	1661	46	NA	NA	NA	NA
48009.0	San Pedro Bay Outer Harbor	1769	53	NA	NA	NA	NA
40020.2	Long Beach Outer Harbor - 20	1771	53	NA	NA	NA	NA
48010.0	Turning Basin	1772	53	NA	NA	NA	NA
40015.1	Fish Harbor Entrance	1773	53	NA	NA	NA	NA
40009.0	West Basin Entrance	1774	53	NA	NA	NA	NA
49001.0	Cabrillo Beach Pier - West	1778	53	NA	NA	NA	NA
49002.0	Cabrillo Beach Pier - Central	1779	53	NA	NA	NA	NA
49003.0	Cabrillo Beach Pier - East	1780	53	NA	NA	NA	NA

Table 14b. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (50% concentration). HRP 50 MN = Mean percent normal development of *Haliotis rufescens* in 50% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 50 MN	HRP 50 SD	HRP 50 t-test	HRP 50 MSD
47004.0	Consolidated Slip - 200E - Depth 2	1657	46	NA	NA	NA	NA
47004.0	Consolidated Slip - 200E - Surface	1656	46	NA	NA	NA	NA
49004.0	Kaiser Intl. - Berth 49	1793	54	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 1	1050	25	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 2	1051	25	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 3	1052	25	NA	NA	NA	NA
40006.1	Consolidated Slip	16	1	90.30	4.50	ns	NT
47002.0	Consolidated Slip – 200 - Surface	1650	46	NA	NA	NA	NA
47002.0	Consolidated Slip – 200 - Depth 2	1651	46	NA	NA	NA	NA
47009.0	Consolidated Slip – 200G - Surface	1664	46	NA	NA	NA	NA
47003.0	Consolidated Slip – 200B - Surface	1653	46	NA	NA	NA	NA
47008.0	Consolidated Slip - Storm Drain	1663	46	NA	NA	NA	NA
47001.0	Consolidated Slip – 198 - Surface	1647	46	NA	NA	NA	NA
47001.0	Consolidated Slip – 198 - Depth 2	1648	46	NA	NA	NA	NA
40006.2	Consolidated Slip	17	1	0.00	0.00	*	T
47007.0	Consolidated Slip – End - Surface	1662	46	NA	NA	NA	NA
40019.3	Inner Fish Harbor	57	2	0.00	0.00	*	T
47010.0	Dominguez - H. Ford Bridge - Surface	1665	46	NA	NA	NA	NA
40019.2	Inner Fish Harbor	56	2	95.80	1.60	ns	NT
40019.1	Inner Fish Harbor	55	2	0.00	0.00	*	T
40007.2	Long Beach Harbor - Channel 2	20	3	0.40	0.70	*	T
40011.3	Inner Harbor - Channel 3	33	3	0.00	0.00	*	T
40001.3	Southwest Slip	3	1	40.70	24.20	*	T
44012.0	Port Hueneme - Wharf B	1626	45	NA	NA	NA	NA
40031.1	Palos Verdes - Swartz 6	76	3	88.10	3.20	ns	NT
40001.2	Southwest Slip - Rep 1	1062	25	NA	NA	NA	NA
40001.2	Southwest Slip - Rep 2	1063	25	NA	NA	NA	NA
40001.2	Southwest Slip	2	1	86.60	8.40	ns	NT
40001.2	Southwest Slip - Rep 3	1064	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay - Rep 3	1058	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay	37	3	89.40	0.80	ns	NT
40013.1	Inner Queensway Bay - Rep 2	1057	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay - Rep 1	1056	25	NA	NA	NA	NA
40014.2	Outer Queensway Bay	41	3	0.00	0.00	*	T
40014.3	Outer Queensway Bay	42	3	90.40	5.10	ns	NT
40031.3	Palos Verdes - Swartz 6	78	3	72.00	1.70	*	T
40013.2	Inner Queensway Bay	38	3	87.10	2.10	*	NT
40031.2	Palos Verdes (Swartz 6) - Rep 2	1039	25	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1004	23	NA	NA	NA	NA

Table 14b continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (50% concentration). HRP 50 MN = Mean percent normal development of *Haliotis rufescens* in 50% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 50 MN	HRP 50 SD	HRP 50 t-test	HRP 50 MSD
40031.2	Palos Verdes (Swartz 6) - Rep 1	1038	25	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6)	77	3	90.30	3.80	ns	NT
40031.2	Palos Verdes (Swartz 6) - Rep 2	1003	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1002	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1040	25	NA	NA	NA	NA
40031.2	Palos V.(Swartz 6) – Rep 4 Blind	1005	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1189	30	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 2	1190	30	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1191	30	NA	NA	NA	NA
40005.1	East Basin - Turning Basin	13	1	41.90	42.10	ns	NT
48009.0	San Pedro Bay Outer Harbor	1694	48	NA	NA	NA	NA
40001.1	Southwest Slip	1	1	92.50	2.90	ns	NT
40004.2	Lower Main Channel	11	1	94.60	0.90	ns	NT
40004.2	Lower Main Channel - Rep 3	832	20	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 2	831	20	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 1	830	20	NA	NA	NA	NA
40004.2	Lower Main Channel	789	18	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 2	1069	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 3	1070	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 1	1068	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach - Rep 1	1006	23	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	28	2	96.40	1.20	ns	NT
40010.1	Off Cabrillo Beach	136	4	2.20	0.90	*	T
40010.1	Off Cabrillo Beach	810	19	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	1331	32	NA	NA	NA	NA
49005.0	Kaiser Intl. - Berth 48	1794	54	NA	NA	NA	NA
40004.3	Lower Main Channel	12	1	91.30	2.90	ns	NT
44013.0	Port Hueneme - Wharf #1	1627	45	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 2	1075	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 1	1074	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 3	1008	23	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	30	2	93.00	0.70	ns	NT
40010.3	Off Cabrillo Beach - Rep 3	1076	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	138	4	7.10	3.50	*	T
40010.3	Off Cabrillo Beach	1333	32	NA	NA	NA	NA
40011.1	Inner Harbor - Channel 3	31	3	75.10	12.00	ns	NT
40010.2	Off Cabrillo Beach - Rep 1	1071	26	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1072	26	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1007	23	NA	NA	NA	NA

Table 14b continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (50% concentration). HRP 50 MN = Mean percent normal development of *Haliotis rufescens* in 50% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 50 MN	HRP 50 SD	HRP 50 t-test	HRP 50 MSD
40010.2	Off Cabrillo Beach - Rep 3	1073	26	NA	NA	NA	NA
40010.2	Off Cabrillo Beach	29	2	96.70	2.90	ns	NT
40010.2	Off Cabrillo Beach	137	4	1.00	1.80	*	T
40010.2	Off Cabrillo Beach	1332	32	NA	NA	NA	NA
40011.2	Inner Harbor - Channel 3	32	3	0.00	0.00	*	T
44011.0	Los Cerritos Channel Tidal P - Rep3	1079	26	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep1	1077	26	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep2	1078	26	NA	NA	NA	NA
44011.0	Los Cerritos Channel Tidal P	611	11	NA	NA	NA	NA
40033.1	Outer Harbor - POLA 10	82	1	0.00	0.00	*	T
40018.3	Long Beach Outer Harbor - 18 - Rep2	1042	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 3	886	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 2	885	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 1	884	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep1	1041	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1695	48	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep3	1043	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	54	3	91.40	2.50	ns	NT
40018.3	Long Beach Outer Harbor - 18 - Rep 1	1192	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 2	1193	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 3	1194	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1334	32	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1770	53	NA	NA	NA	NA
40012.0	Southeast Basin	1632	45	NA	NA	NA	NA
40020.2	Long Beach Outer Harbor - 20	1696	48	NA	NA	NA	NA
40012.1	Southeast Basin – Rep 1	1047	25	NA	NA	NA	NA
40012.1	Southeast Basin – Rep 2	1048	25	NA	NA	NA	NA
40012.1	Southeast Basin	34	2	94.20	4.60	ns	NT
40012.1	Southeast Basin – Rep 3	1049	25	NA	NA	NA	NA
40012.1	Southeast Basin	812	19	NA	NA	NA	NA
40008.1	East Basin - Pier C	22	2	0.30	0.50	*	T
48010.0	Turning Basin	1697	48	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 2	1060	25	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 1	1059	25	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 3	1061	25	NA	NA	NA	NA
40017.3	Long Beach Channel	51	3	90.20	1.40	ns	NT
40002.2	West Basin - Pier 143	5	1	0.00	0.00	*	T
40016.3	Terminal Island Stp	48	2	96.60	0.50	ns	NT
40012.2	Southeast Basin	35	2	96.80	0.60	ns	NT

Table 14b continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (50% concentration). HRP 50 MN = Mean percent normal development of *Haliotis rufescens* in 50% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 50 MN	HRP 50 SD	HRP 50 t-test	HRP 50 MSD
40009.0	West Basin Entrance	1699	48	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 1	834	20	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 3	836	20	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 2	835	20	NA	NA	NA	NA
40009.1	West Basin Entrance	25	2	95.30	1.60	ns	NT
40008.3	East Basin - Pier C	24	2	93.20	3.70	ns	NT
40015.1	Fish Harbor Entrance	43	2	97.90	2.20	ns	NT
40016.1	Terminal Island Stp	46	2	97.70	1.40	ns	NT
40015.3	Fish Harbor Entrance	45	2	95.80	0.80	ns	NT
40003.1	Turning Basin - Pier 151	7	1	63.20	24.10	ns	NT
40020.3	Long Beach Outer Harbor - 20	60	3	88.70	0.60	ns	NT
40009.3	West Basin Entrance	27	2	96.80	0.60	ns	NT
40020.2	Long Beach Outer Harbor - 20	59	3	14.60	4.10	*	T
40015.1	Fish Harbor Entrance	1698	48	NA	NA	NA	NA
40020.1	Long Beach Outer Harbor - 20	58	3	6.30	11.00	*	T
40032.3	San Pedro Bay - POLA 19	105	2	0.00	0.00	*	T
40032.3	San Pedro Bay - POLA 19	81	1	15.00	7.80	*	T
40015.2	Fish Harbor Entrance	44	2	95.90	0.30	ns	NT
40003.2	Turning Basin, Pier 151 - Rep 3	1055	25	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151 - Rep 2	1054	25	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151	8	1	97.90	1.40	ns	NT
40003.2	Turning Basin, Pier 151 - Rep 1	1053	25	NA	NA	NA	NA
40016.2	Terminal Island Stp	47	2	96.90	0.90	ns	NT
40030.1	San Pedro Breakwater	73	2	0.00	0.00	*	T
40030.2	San Pedro Breakwater	74	2	48.50	14.00	*	T
40032.1	San Pedro Bay - POLA 19	103	2	11.00	17.20	*	T
40032.2	San Pedro Bay - POLA 19	104	2	16.30	23.80	*	T
40002.1	West Basin - Pier 143	4	1	1.40	1.20	*	T
40002.3	West Basin - Pier 143	6	1	0.00	0.00	*	T
40003.3	Turning Basin - Pier 151	9	1	93.40	5.20	ns	NT
40004.1	Lower Main Channel	10	1	93.30	0.70	ns	NT
40005.2	East Basin - Turning Basin	14	1	88.60	4.60	ns	NT
40005.3	East Basin - Turning Basin	15	1	54.00	9.40	*	T
40006.3	Consolidated Slip	18	1	0.70	1.20	*	T
40032.1	San Pedro Bay - POLA 19	79	1	89.90	4.50	ns	NT
40032.2	San Pedro Bay - POLA 19	80	1	19.90	34.50	*	T
40033.2	Outer Harbor - POLA 10	83	1	86.50	10.80	ns	NT
40033.3	Outer Harbor - POLA 10	84	1	93.60	5.60	ns	NT
40008.2	East Basin - Pier C	23	2	95.20	2.80	ns	NT

Table 14b continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (50% concentration). HRP 50 MN = Mean percent normal development of *Haliotis rufescens* in 50% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 50 MN	HRP 50 SD	HRP 50 t-test	HRP 50 MSD
40009.2	West Basin Entrance	26	2	95.70	2.50	ns	NT
40012.3	Southeast Basin	36	2	62.50	50.40	ns	NT
40030.3	San Pedro Breakwater	75	2	59.50	25.30	ns	NT
40007.1	Long Beach Harbor - Channel 2	19	3	91.60	4.10	ns	NT
40007.3	Long Beach Harbor - Channel 2	21	3	0.40	0.60	*	T
40013.3	Inner Queensway Bay	39	3	90.00	3.20	ns	NT
40014.1	Outer Queensway Bay	40	3	92.50	5.20	ns	NT
40017.1	Long Beach Channel	49	3	72.20	8.60	*	T
40017.2	Long Beach Channel	50	3	86.80	7.60	ns	NT
40018.1	Long Beach Outer Harbor - 18	52	3	86.90	10.40	ns	NT
40018.2	Long Beach Outer Harbor - 18	53	3	1.10	1.90	*	T
44012.0	Port Hueneme - Wharf B	612	11	NA	NA	NA	NA
44013.0	Port Hueneme - Wharf #1	613	11	NA	NA	NA	NA
40009.1	West Basin Entrance	790	18	NA	NA	NA	NA
40013.1	Inner Queensway Bay	791	18	NA	NA	NA	NA
40015.3	Fish Harbor Entrance	792	18	NA	NA	NA	NA
40016.2	Terminal Island Stp	793	18	NA	NA	NA	NA
40017.3	Long Beach Channel	811	19	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 1	1198	30	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 2	1199	30	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 3	1200	30	NA	NA	NA	NA
46001.0	Hugo Neuproler - #1	1623	45	NA	NA	NA	NA
46002.0	Hugo Neuproler - #2	1624	45	NA	NA	NA	NA
46003.0	Hugo Neuproler - #3	1625	45	NA	NA	NA	NA
47003.0	Consolidated Slip –200B – Depth 2	1654	46	NA	NA	NA	NA
47005.0	Consolidated Slip –200T – Surface	1659	46	NA	NA	NA	NA
47005.0	Consolidated Slip –200T – Depth 2	1660	46	NA	NA	NA	NA
47005.0	Consolidated Slip –200T – Depth 3	1661	46	NA	NA	NA	NA
48009.0	San Pedro Bay Outer Harbor	1769	53	NA	NA	NA	NA
40020.2	Long Beach Outer Harbor - 20	1771	53	NA	NA	NA	NA
48010.0	Turning Basin	1772	53	NA	NA	NA	NA
40015.1	Fish Harbor Entrance	1773	53	NA	NA	NA	NA
40009.0	West Basin Entrance	1774	53	NA	NA	NA	NA
49001.0	Cabrillo Beach Pier - West	1778	53	NA	NA	NA	NA
49002.0	Cabrillo Beach Pier - Central	1779	53	NA	NA	NA	NA
49003.0	Cabrillo Beach Pier - East	1780	53	NA	NA	NA	NA

Table 14c. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (25% concentration). HRP 25 MN = Mean percent normal development of *Haliotis rufescens* in 25% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 25 MN	HRP 25 SD	HRP 25 t-test	HRP 25 MSD
47004.0	Consolidated Slip – 200E - Depth 2	1657	46	NA	NA	NA	NA
47004.0	Consolidated Slip – 200E - Surface	1656	46	NA	NA	NA	NA
49004.0	Kaiser Intl.- Berth 49	1793	54	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 1	1050	25	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 2	1051	25	NA	NA	NA	NA
40006.1	Consolidated Slip - Rep 3	1052	25	NA	NA	NA	NA
40006.1	Consolidated Slip	16	1	92.90	3.10	ns	NT
47002.0	Consolidated Slip – 200 - Surface	1650	46	NA	NA	NA	NA
47002.0	Consolidated Slip – 200 - Depth 2	1651	46	NA	NA	NA	NA
47009.0	Consolidated Slip – 200G - Surface	1664	46	NA	NA	NA	NA
47003.0	Consolidated Slip – 200B - Surface	1653	46	NA	NA	NA	NA
47008.0	Consolidated Slip – Storm Drain	1663	46	NA	NA	NA	NA
47001.0	Consolidated Slip – 198 - Surface	1647	46	NA	NA	NA	NA
47001.0	Consolidated Slip – 198 - Depth 2	1648	46	NA	NA	NA	NA
40006.2	Consolidated Slip	17	1	0.40	0.70	*	T
47007.0	Consolidated Slip – End - Surface	1662	46	NA	NA	NA	NA
40019.3	Inner Fish Harbor	57	2	93.00	3.20	ns	NT
47010.0	Dominguez - ~~H. Ford Bridge - Surface~~	1665	46	NA	NA	NA	NA
40019.2	Inner Fish Harbor	56	2	95.80	0.50	ns	NT
40019.1	Inner Fish Harbor	55	2	0.00	0.00	*	T
40007.2	Long Beach Harbor - Channel 2	20	3	36.60	20.50	*	T
40011.3	Inner Harbor - Channel 3	33	3	62.20	30.60	ns	NT
40001.3	Southwest Slip	3	1	76.50	7.90	*	T
44012.0	Port Hueneme - Wharf B	1626	45	NA	NA	NA	NA
40031.1	Palos Verdes - Swartz 6	76	3	88.60	2.60	ns	NT
40001.2	Southwest Slip - Rep 1	1062	25	NA	NA	NA	NA
40001.2	Southwest Slip - Rep 2	1063	25	NA	NA	NA	NA
40001.2	Southwest Slip	2	1	72.80	18.90	ns	NT
40001.2	Southwest Slip - Rep 3	1064	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay - Rep 3	1058	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay	37	3	90.80	1.50	ns	NT
40013.1	Inner Queensway Bay - Rep 2	1057	25	NA	NA	NA	NA
40013.1	Inner Queensway Bay- Rep 1	1056	25	NA	NA	NA	NA
40014.2	Outer Queensway Bay	41	3	90.80	4.00	ns	NT
40014.3	Outer Queensway Bay	42	3	89.20	3.80	ns	NT
40031.3	Palos Verdes - Swartz 6	78	3	88.20	0.90	*	NT
40013.2	Inner Queensway Bay	38	3	88.40	1.20	ns	NT
40031.2	Palos Verdes (Swartz 6) - Rep 2	1039	25	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1004	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1038	25	NA	NA	NA	NA

Table 14c continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (25% concentration). HRP 25 MN = Mean percent normal development of *Haliotis rufescens* in 25% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 25 MN	HRP 25 SD	HRP 25 t-test	HRP 25 MSD
40031.2	Palos Verdes (Swartz 6)	77	3	92.00	2.70	ns	NT
40031.2	Palos Verdes (Swartz 6) - Rep 2	1003	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1002	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1040	25	NA	NA	NA	NA
40031.2	Palos V.(Swartz 6) – Rep 4 Blind	1005	23	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1189	30	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 2	1190	30	NA	NA	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1191	30	NA	NA	NA	NA
40005.1	East Basin - Turning Basin	13	1	97.50	2.70	ns	NT
48009.0	San Pedro Bay Outer Harbor	1694	48	NA	NA	NA	NA
40001.1	Southwest Slip	1	1	92.80	3.90	ns	NT
40004.2	Lower Main Channel	11	1	95.20	3.10	ns	NT
40004.2	Lower Main Channel - Rep 3	832	20	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 2	831	20	NA	NA	NA	NA
40004.2	Lower Main Channel - Rep 1	830	20	NA	NA	NA	NA
40004.2	Lower Main Channel	789	18	NA	NA	NA	NA
40010.1	Off Cabrillo Beach – Rep 2	1069	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach – Rep 3	1070	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach – Rep 1	1068	26	NA	NA	NA	NA
40010.1	Off Cabrillo Beach – Rep 1	1006	23	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	28	2	96.90	2.20	ns	NT
40010.1	Off Cabrillo Beach	136	4	52.90	31.90	ns	NT
40010.1	Off Cabrillo Beach	810	19	NA	NA	NA	NA
40010.1	Off Cabrillo Beach	1331	32	NA	NA	NA	NA
49005.0	Kaiser Intl. - Berth 48	1794	54	NA	NA	NA	NA
40004.3	Lower Main Channel	12	1	96.90	1.20	ns	NT
44013.0	Port Hueneme - Wharf #1	1627	45	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 2	1075	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 1	1074	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach - Rep 3	1008	23	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	30	2	92.40	8.20	ns	NT
40010.3	Off Cabrillo Beach - Rep 3	1076	26	NA	NA	NA	NA
40010.3	Off Cabrillo Beach	138	4	50.10	19.20	*	T
40010.3	Off Cabrillo Beach	1333	32	NA	NA	NA	NA
40011.1	Inner Harbor - Channel 3	31	3	90.00	1.70	ns	NT
40010.2	Off Cabrillo Beach - Rep 1	1071	26	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1072	26	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1007	23	NA	NA	NA	NA
40010.2	Off Cabrillo Beach - Rep 3	1073	26	NA	NA	NA	NA
40010.2	Off Cabrillo Beach	29	2	96.10	1.50	ns	NT

Table 14c continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (25% concentration). HRP 25 MN = Mean percent normal development of *Haliotis rufescens* in 25% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 25 MN	HRP 25 SD	HRP 25 t-test	HRP 25 MSD
40010.2	Off Cabrillo Beach	137	4	47.60	7.10	*	T
40010.2	Off Cabrillo Beach	1332	32	NA	NA	NA	NA
40011.2	Inner Harbor - Channel 3	32	3	87.60	3.60	ns	NT
44011.0	Los Cerritos Chnl Tidal P - Rep3	1079	26	NA	NA	NA	NA
44011.0	Los Cerritos Chnl Tidal P - Rep1	1077	26	NA	NA	NA	NA
44011.0	Los Cerritos Chnl Tidal P - Rep2	1078	26	NA	NA	NA	NA
44011.0	Los Cerritos Chnl Tidal P	611	11	NA	NA	NA	NA
40033.1	Outer Harbor- Pola 10	82	1	25.50	20.90	*	T
40018.3	Long Beach Outer Harbor - 18 - Rep 2	1042	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 3	886	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 2	885	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 1	884	22	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep	1041	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	1695	48	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep	1043	25	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor – 18	54	3	93.30	2.30	ns	NT
40018.3	Long Beach Outer Harbor - 18 - Rep 1	1192	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 2	1193	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18 - Rep 3	1194	30	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18	1334	32	NA	NA	NA	NA
40018.3	Long Beach Outer Harbor - 18	1770	53	NA	NA	NA	NA
40012.0	Southeast Basin	1632	45	NA	NA	NA	NA
40020.2	Long Beach Outer Harbor - 20	1696	48	NA	NA	NA	NA
40012.1	Southeast Basin - Rep1	1047	25	NA	NA	NA	NA
40012.1	Southeast Basin - Rep2	1048	25	NA	NA	NA	NA
40012.1	Southeast Basin	34	2	95.80	2.60	ns	NT
40012.1	Southeast Basin - Rep3	1049	25	NA	NA	NA	NA
40012.1	Southeast Basin	812	19	NA	NA	NA	NA
40008.1	East Basin - Pier C	22	2	94.70	3.10	ns	NT
48010.0	Turning Basin	1697	48	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 2	1060	25	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 1	1059	25	NA	NA	NA	NA
40017.3	Long Beach Channel - Rep 3	1061	25	NA	NA	NA	NA
40017.3	Long Beach Channel	51	3	91.70	2.10	ns	NT
40002.2	West Basin - Pier 143	5	1	28.90	27.60	*	T
40016.3	Terminal Island Stp	48	2	95.80	2.70	ns	NT
40012.2	Southeast Basin	35	2	97.50	0.80	ns	NT
40009.0	West Basin Entrance	1699	48	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 1	834	20	NA	NA	NA	NA
40009.1	West Basin Entrance - Ref 3	836	20	NA	NA	NA	NA

Table 14c continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (25% concentration). HRP 25 MN = Mean percent normal development of *Haliotis rufescens* in 25% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 25 MN	HRP 25 SD	HRP 25 t-test	HRP 25 MSD
40009.1	West Basin Entrance - Ref 2	835	20	NA	NA	NA	NA
40009.1	West Basin Entrance	25	2	95.20	1.10	ns	NT
40008.3	East Basin - Pier C	24	2	92.80	3.00	ns	NT
40015.1	Fish Harbor Entrance	43	2	95.70	1.50	ns	NT
40016.1	Terminal Island Stp	46	2	97.10	1.70	ns	NT
40015.3	Fish Harbor Entrance	45	2	97.70	1.40	ns	NT
40003.1	Turning Basin - Pier 151	7	1	88.30	8.80	ns	NT
40020.3	Long Beach Outer Harbor - 20	60	3	91.10	3.00	ns	NT
40009.3	West Basin Entrance	27	2	94.70	3.00	ns	NT
40020.2	Long Beach Outer Harbor - 20	59	3	90.60	2.20	ns	NT
40015.1	Fish Harbor Entrance	1698	48	NA	NA	NA	NA
40020.1	Long Beach Outer Harbor - 20	58	3	64.30	47.60	ns	NT
40032.3	San Pedro Bay - POLA 19	105	2	60.60	31.70	ns	NT
40032.3	San Pedro Bay - POLA 19	81	1	91.60	5.00	ns	NT
40015.2	Fish Harbor Entrance	44	2	98.20	1.00	ns	NT
40003.2	Turning Basin, Pier 151 - Rep 3	1055	25	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151 - Rep 2	1054	25	NA	NA	NA	NA
40003.2	Turning Basin, Pier 151	8	1	95.80	2.00	ns	NT
40003.2	Turning Basin, Pier 151 - Rep 1	1053	25	NA	NA	NA	NA
40016.2	Terminal Island Stp	47	2	96.50	1.50	ns	NT
40030.1	San Pedro Breakwater	73	2	35.50	6.50	*	T
40030.2	San Pedro Breakwater	74	2	90.00	5.60	ns	NT
40032.1	San Pedro Bay - POLA 19	103	2	90.10	8.10	ns	NT
40032.2	San Pedro Bay - POLA 19	104	2	9.60	5.60	*	T
40002.1	West Basin - Pier 143	4	1	87.70	1.80	*	NT
40002.3	West Basin - Pier 143	6	1	65.20	23.00	ns	NT
40003.3	Turning Basin - Pier 151	9	1	92.20	6.30	ns	NT
40004.1	Lower Main Channel	10	1	93.70	1.20	ns	NT
40005.2	East Basin- Turning Basin	14	1	94.00	3.70	ns	NT
40005.3	East Basin- Turning Basin	15	1	77.90	10.40	ns	NT
40006.3	Consolidated Slip	18	1	44.80	38.00	*	T
40032.1	San Pedro Bay - POLA 19	79	1	97.90	2.70	ns	NT
40032.2	San Pedro Bay - POLA 19	80	1	83.80	8.20	ns	NT
40033.2	Outer Harbor - POLA 10	83	1	96.90	2.90	ns	NT
40033.3	Outer Harbor - POLA 10	84	1	90.60	5.10	ns	NT
40008.2	East Basin - Pier C	23	2	97.60	0.70	ns	NT
40009.2	West Basin Entrance	26	2	94.90	1.90	ns	NT
40012.3	Southeast Basin	36	2	93.70	1.20	ns	NT
40030.3	San Pedro Breakwater	75	2	94.70	1.30	ns	NT

Table 14c continued. Development of abalone embryos (*Haliotis rufescens*) in Industrial Harbor station pore waters (25% concentration). HRP 25 MN = Mean percent normal development of *Haliotis rufescens* in 25% pore water. SD = Standard Deviation. * = Significantly Toxic using a t-test. T= Toxic using a t-test and relative to the MSD criteria for this protocol. NT = Not toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	HRP 25 MN	HRP 25 SD	HRP 25 t-test	HRP 25 MSD
40007.1	Long Beach Harbor - Channel 2	19	3	90.70	2.60	ns	NT
40007.3	Long Beach Harbor - Channel 2	21	3	88.20	5.10	ns	NT
40013.3	Inner Queensway Bay	39	3	92.20	2.80	ns	NT
40014.1	Outer Queensway Bay	40	3	86.90	1.40	*	NT
40017.1	Long Beach Channel	49	3	93.70	0.30	ns	NT
40017.2	Long Beach Channel	50	3	91.60	2.00	ns	NT
40018.1	Long Beach Outer Harbor - 18	52	3	90.00	5.30	ns	NT
40018.2	Long Beach Outer Harbor - 18	53	3	94.20	1.80	ns	NT
44012.0	Port Hueneme - Wharf B	612	11	NA	NA	NA	NA
44013.0	Port Hueneme - Wharf #1	613	11	NA	NA	NA	NA
40009.1	West Basin Entrance	790	18	NA	NA	NA	NA
40013.1	Inner Queensway Bay	791	18	NA	NA	NA	NA
40015.3	Fish Harbor Entrance	792	18	NA	NA	NA	NA
40016.2	Terminal Island Stp	793	18	NA	NA	NA	NA
40017.3	Long Beach Channel	811	19	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 1	1198	30	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 2	1199	30	NA	NA	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 3	1200	30	NA	NA	NA	NA
46001.0	Hugo Neuproler - #1	1623	45	NA	NA	NA	NA
46002.0	Hugo Neuproler - #2	1624	45	NA	NA	NA	NA
46003.0	Hugo Neuproler - #3	1625	45	NA	NA	NA	NA
47003.0	Consolidated Slip – 200B - Depth 2	1654	46	NA	NA	NA	NA
47005.0	Consolidated Slip – 200T - Surface	1659	46	NA	NA	NA	NA
47005.0	Consolidated Slip – 200T - Depth 2	1660	46	NA	NA	NA	NA
47005.0	Consolidated Slip – 200T - Depth 3	1661	46	NA	NA	NA	NA
48009.0	San Pedro Bay Outer Harbor	1769	53	NA	NA	NA	NA
40020.2	Long Beach Outer Harbor - 20	1771	53	NA	NA	NA	NA
48010.0	Turning Basin	1772	53	NA	NA	NA	NA
40015.1	Fish Harbor Entrance	1773	53	NA	NA	NA	NA
40009.0	West Basin Entrance	1774	53	NA	NA	NA	NA
49001.0	Cabrillo Beach Pier - West	1778	53	NA	NA	NA	NA
49002.0	Cabrillo Beach Pier - Central	1779	53	NA	NA	NA	NA
49003.0	Cabrillo Beach Pier - East	1780	53	NA	NA	NA	NA

Table 15. Spearman Rank Correlation Coefficients for selected chemicals significantly correlated with amphipod survival at Industrial Harbor stations. * indicates significance at $p \leq 0.05$; ** indicates significance at $p \leq 0.01$; *** indicates significance at $p \leq 0.001$; N = 126.

Chemical	Spearman rho	Significance
Metals		
Arsenic	-0.410	***
Cadmium	-0.360	***
Copper	-0.463	***
Lead	-0.455	***
Mercury	-0.388	***
Nickel	-0.489	***
Zinc	-0.546	***
Pesticides		
Total Chlordane	-0.403	***
PCBs		
PCB 5	-0.573	***
PCB 31	-0.644	***
Total PCBs	-0.274	**
PAHs		
Benz(a)anthracene	-0.346	***
Benzo(a)pyrene	-0.446	***
Benzo[e]pyrene	-0.401	***
Coronene	-0.720	***
Dibenz[a,h]anthracene	-0.427	***
1-Methylnaphthalene	-0.455	***
2-Methylnaphthalene	-0.424	***
Naphthalene	-0.417	***
LMW PAH	-0.341	***
HMW PAH	-0.411	***
Total PAH	-0.399	***
Fines	-0.350	***
TOC	-0.369	***
ERM Quotient	-0.353	***
# ERM Exceedances	-0.291	***

Table 16. Spearman Rank Correlation Coefficients for selected chemicals significantly correlated with abalone development in 25% pore water at Industrial Harbor stations. * indicates significance at $p \leq 0.05$; ** indicates significance at $p \leq 0.01$; *** indicates significance at $p \leq 0.001$; N = 54.

Chemical	Spearman rho	Significance
Metals		
Tin	-0.306	*
Pesticides		
Total Chlordane	-0.354	**
PCBs		
PCB 8	-0.267	*
PCB187	-0.265	*
ERM Quotient*	-0.229	*
# ERM Exceedances*	-0.400	**

*correlations with 50% pore water concentration data

Table 17. Relative Benthic Index values for Industrial Harbor stations. Station categories were D = Degraded (RBI≤0.30); T = Transitional (RBI>0.31≤0.60); U = Undegraded (RBI >0.61). NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	Benthic Index	Category
47004.0	Consolidated Slip – 200E - Depth 2	1657	46	NA	NA
47004.0	Consolidated Slip – 200E - Surface	1656	46	0.34	T
49004.0	Kaiser Intl.- Berth 49	1793	54	0.58	T
40006.1	Consolidated Slip - Rep 1	1050	25	NA	NA
40006.1	Consolidated Slip - Rep 2	1051	25	NA	NA
40006.1	Consolidated Slip - Rep 3	1052	25	NA	NA
40006.1	Consolidated Slip	16	1	0.29	D
47002.0	Consolidated Slip – 200 - Surface	1650	46	0.25	D
47002.0	Consolidated Slip – 200 - Depth 2	1651	46	NA	NA
47009.0	Consolidated Slip – 200G - Surface	1664	46	0.24	D
47003.0	Consolidated Slip – 200B - Surface	1653	46	0.3	D
47008.0	Consolidated Slip – Storm Drain	1663	46	0.4	T
47001.0	Consolidated Slip – 198 - Surface	1647	46	0.39	T
47001.0	Consolidated Slip – 198 - Depth 2	1648	46	NA	NA
40006.2	Consolidated Slip	17	1	0.38	T
47007.0	Consolidated Slip – End - Surface	1662	46	0.46	T
40019.3	Inner Fish Harbor	57	2	0.35	T
47010.0	Dominguez - H. Ford Bridge - Surface	1665	46	0.21	D
40019.2	Inner Fish Harbor	56	2	0.38	T
40019.1	Inner Fish Harbor	55	2	0.36	T
40007.2	Long Beach Harbor - Channel 2	20	3	0.53	T
40011.3	Inner Harbor - Channel 3	33	3	0.7	U
40001.3	Southwest Slip	3	1	0.57	T
44012.0	Port Hueneme - Wharf B	1626	45	NA	NA
40031.1	Palos Verdes - Swartz 6	76	3	0.63	U
40001.2	Southwest Slip - Rep 1	1062	25	NA	NA
40001.2	Southwest Slip - Rep 2	1063	25	NA	NA
40001.2	Southwest Slip	2	1	0.50	T
40001.2	Southwest Slip - Rep 3	1064	25	NA	NA
40013.1	Inner Queensway Bay - Rep 3	1058	25	NA	NA
40013.1	Inner Queensway Bay	37	3	0.47	T
40013.1	Inner Queensway Bay - Rep 2	1057	25	NA	NA
40013.1	Inner Queensway Bay - Rep 1	1056	25	NA	NA
40014.2	Outer Queensway Bay	41	3	0.41	T
40014.3	Outer Queensway Bay	42	3	0.41	T
40031.3	Palos Verdes - Swartz 6	78	3	1	U
40013.2	Inner Queensway Bay	38	3	0.47	T
40031.2	Palos Verdes (Swartz 6) - Rep 2	1039	25	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1004	23	0.28	D
40031.2	Palos Verdes (Swartz 6) - Rep 1	1038	25	NA	NA
40031.2	Palos Verdes (Swartz 6)	77	3	0.77	U
40031.2	Palos Verdes (Swartz 6) - Rep 2	1003	23	0.44	T
40031.2	Palos Verdes (Swartz 6) - Rep 1	1002	23	0.28	D

Benthic

Table 17 continued. Relative Benthic Index values for Industrial Harbor stations. Station categories were D = Degraded (RBI≤0.30); T = Transitional (RBI>0.31≤0.60); U = Undegraded (RBI >0.61). NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	Benthic Index	Category
40031.2	Palos Verdes (Swartz 6) - Rep 3	1040	25	NA	NA
40031.2	Palos V.(Swartz 6) - Rep 4 Blind	1005	23	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 1	1189	30	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 2	1190	30	NA	NA
40031.2	Palos Verdes (Swartz 6) - Rep 3	1191	30	NA	NA
40005.1	East Basin - Turning Basin	13	1	0.42	T
48009.0	San Pedro Bay Outer Harbor	1694	48	0.7	U
40001.1	Southwest Slip	1	1	0.47	T
40004.2	Lower Main Channel	11	1	0.57	T
40004.2	Lower Main Channel - Rep 3	832	20	0.30	D
40004.2	Lower Main Channel - Rep 2	831	20	0.25	D
40004.2	Lower Main Channel - Rep 1	830	20	0.40	T
40004.2	Lower Main Channel	789	18	NA	NA
40010.1	Off Cabrillo Beach - Rep 2	1069	26	NA	NA
40010.1	Off Cabrillo Beach - Rep 3	1070	26	NA	NA
40010.1	Off Cabrillo Beach - Rep 1	1068	26	NA	NA
40010.1	Off Cabrillo Beach - Rep 1	1006	23	0.34	T
40010.1	Off Cabrillo Beach	28	2	0.67	U
40010.1	Off Cabrillo Beach	136	4	NA	NA
40010.1	Off Cabrillo Beach	810	19	NA	NA
40010.1	Off Cabrillo Beach	1331	32	NA	NA
49005.0	Kaiser Intl.- Berth 48	1794	54	0.65	U
40004.3	Lower Main Channel	12	1	0.54	T
44013.0	Port Hueneme - Wharf #1	1627	45	NA	NA
40010.3	Off Cabrillo Beach - Rep 2	1075	26	NA	NA
40010.3	Off Cabrillo Beach - Rep 1	1074	26	NA	NA
40010.3	Off Cabrillo Beach - Rep 3	1008	23	0.43	T
40010.3	Off Cabrillo Beach	30	2	1.00	U
40010.3	Off Cabrillo Beach - Rep 3	1076	26	NA	NA
40010.3	Off Cabrillo Beach	138	4	NA	NA
40010.3	Off Cabrillo Beach	1333	32	NA	NA
40011.1	Inner Harbor - Channel 3	31	3	0.63	U
40010.2	Off Cabrillo Beach - Rep 1	1071	26	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1072	26	NA	NA
40010.2	Off Cabrillo Beach - Rep 2	1007	23	0.27	D
40010.2	Off Cabrillo Beach - Rep 3	1073	26	NA	NA
40010.2	Off Cabrillo Beach	29	2	0.75	U
40010.2	Off Cabrillo Beach	137	4	NA	NA
40010.2	Off Cabrillo Beach	1332	32	NA	NA

Table 17 continued. Relative Benthic Index values for Industrial Harbor stations. Station categories were D = Degraded (RBI≤0.30); T = Transitional (RBI>0.31≤0.60); U = Undegraded (RBI >0.61). NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	Benthic Index	Category
40011.2	Inner Harbor - Channel 3	32	3	0.53	T
44011.0	Los Cerritos Channel Tidal P - Rep3	1079	26	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep1	1077	26	NA	NA
44011.0	Los Cerritos Channel Tidal P - Rep2	1078	26	NA	NA
44011.0	Los Cerritos Channel Tidal P	611	11	NA	NA
40033.1	Outer Harbor - POLA 10	82	1	0.72	U
40018.3	Long Beach Outer Harbor – 18 - Rep 2	1042	25	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 3	886	22	0.23	D
40018.3	Long Beach Outer Harbor – 18 - Rep 2	885	22	0.31	T
40018.3	Long Beach Outer Harbor – 18 - Rep 1	884	22	0.23	D
40018.3	Long Beach Outer Harbor – 18 - Rep 1	1041	25	NA	NA
40018.3	Long Beach Outer Harbor – 18	1695	48	0.58	T
40018.3	Long Beach Outer Harbor – 18 - Rep 3	1043	25	NA	NA
40018.3	Long Beach Outer Harbor – 18	54	3	0.52	T
40018.3	Long Beach Outer Harbor – 18 - Rep 1	1192	30	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 2	1193	30	NA	NA
40018.3	Long Beach Outer Harbor – 18 - Rep 3	1194	30	NA	NA
40018.3	Long Beach Outer Harbor – 18	1334	32	NA	NA
40018.3	Long Beach Outer Harbor – 18	1770	53	NA	NA
40012.0	Southeast Basin	1632	45	0.56	T
40020.2	Long Beach Outer Harbor - 20	1696	48	0.81	U
40012.1	Southeast Basin - Rep1	1047	25	NA	NA
40012.1	Southeast Basin - Rep2	1048	25	NA	NA
40012.1	Southeast Basin	34	2	0.61	U
40012.1	Southeast Basin - Rep3	1049	25	NA	NA
40012.1	Southeast Basin	812	19	NA	NA
40008.1	East Basin - Pier C	22	2	0.61	T
48010.0	Turning Basin	1697	48	0.69	U
40017.3	Long Beach Channel - Rep 2	1060	25	NA	NA
40017.3	Long Beach Channel - Rep 1	1059	25	NA	NA
40017.3	Long Beach Channel - Rep 3	1061	25	NA	NA
40017.3	Long Beach Channel	51	3	0.68	U
40002.2	West Basin - Pier 143	5	1	0.50	T
40016.3	Terminal Island Stp	48	2	0.68	U
40012.2	Southeast Basin	35	2	0.5	T
40009.0	West Basin Entrance	1699	48	0.57	T
40009.1	West Basin Entrance - Ref 1	834	20	0.46	T
40009.1	West Basin Entrance - Ref 3	836	20	0.32	T
40009.1	West Basin Entrance - Ref 2	835	20	0.38	T
40009.1	West Basin Entrance	25	2	0.53	T
40008.3	East Basin - Pier C	24	2	0.62	U
40015.1	Fish Harbor Entrance	43	2	0.66	U
40016.1	Terminal Island Stp	46	2	0.76	U

Table 17 continued. Relative Benthic Index values for Industrial Harbor stations. Station categories were D = Degraded (RBI≤0.30); T = Transitional (RBI>0.31≤0.60); U = Undegraded (RBI >0.61). NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	Benthic Index	Category
40015.3	Fish Harbor Entrance	45	2	0.79	U
40003.1	Turning Basin - Pier 151	7	1	0.66	U
40020.3	Long Beach Outer Harbor - 20	60	3	0.6	T
40009.3	West Basin Entrance	27	2	0.60	T
40020.2	Long Beach Outer Harbor - 20	59	3	0.83	U
40015.1	Fish Harbor Entrance	1698	48	0.78	U
40020.1	Long Beach Outer Harbor - 20	58	3	0.63	U
40032.3	San Pedro Bay - POLA 19	105	2	NA	NA
40032.3	San Pedro Bay - POLA 19	81	1	0.84	U
40015.2	Fish Harbor Entrance	44	2	0.68	U
40003.2	Turning Basin, Pier 151 - Rep 3	1055	25	NA	NA
40003.2	Turning Basin, Pier 151 - Rep 2	1054	25	NA	NA
40003.2	Turning Basin, Pier 151	8	1	0.50	T
40003.2	Turning Basin, Pier 151 - Rep 1	1053	25	NA	NA
40016.2	Terminal Island Stp	47	2	0.75	U
40030.1	San Pedro Breakwater	73	2	NA	NA
40030.2	San Pedro Breakwater	74	2	NA	NA
40032.1	San Pedro Bay - POLA 19	103	2	NA	NA
40032.2	San Pedro Bay - POLA 19	104	2	NA	NA
40002.1	West Basin - Pier 143	4	1	0.48	T
40002.3	West Basin - Pier 143	6	1	0.48	T
40003.3	Turning Basin - Pier 151	9	1	0.54	T
40004.1	Lower Main Channel	10	1	0.69	U
40005.2	East Basin- Turning Basin	14	1	0.47	T
40005.3	East Basin- Turning Basin	15	1	0.46	T
40006.3	Consolidated Slip	18	1	0.30	D
40032.1	San Pedro Bay - POLA 19	79	1	0.79	U
40032.2	San Pedro Bay - POLA 19	80	1	0.92	U
40033.2	Outer Harbor - POLA 10	83	1	0.62	U
40033.3	Outer Harbor - POLA 10	84	1	0.57	T
40008.2	East Basin - Pier C	23	2	0.52	T
40009.2	West Basin Entrance	26	2	0.71	U
40012.3	Southeast Basin	36	2	0.68	U
40030.3	San Pedro Breakwater	75	2	NA	NA
40007.1	Long Beach Harbor - Channel 2	19	3	0.52	T
40007.3	Long Beach Harbor - Channel 2	21	3	0.52	T
40013.3	Inner Queensway Bay	39	3	0.46	T
40014.1	Outer Queensway Bay	40	3	0.42	T
40017.1	Long Beach Channel	49	3	0.52	T
40017.2	Long Beach Channel	50	3	0.55	T

Table 17 continued. Relative Benthic Index values for Industrial Harbor stations. Station categories were D = Degraded (RBI≤0.30); T = Transitional (RBI>0.31≤0.60); U = Undegraded (RBI >0.61). NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	Benthic Index	Category
40018.1	Long Beach Outer Harbor - 18	52	3	0.51	T
40018.2	Long Beach Outer Harbor - 18	53	3	0.50	T
44012.0	Port Hueneme - Wharf B	612	11	NA	NA
44013.0	Port Hueneme - Wharf #1	613	11	NA	NA
40009.1	West Basin Entrance	790	18	NA	NA
40013.1	Inner Queensway Bay	791	18	NA	NA
40015.3	Fish Harbor Entrance	792	18	NA	NA
40016.2	Terminal Island Stp	793	18	NA	NA
40017.3	Long Beach Channel	811	19	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 1	1198	30	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 2	1199	30	NA	NA
44055.0	L.B. Naval Station - Pier 3 - Rep 3	1200	30	NA	NA
46001.0	Hugo Neuproler - #1	1623	45	NA	NA
46002.0	Hugo Neuproler - #2	1624	45	NA	NA
46003.0	Hugo Neuproler - #3	1625	45	NA	NA
47003.0	Consolidated Slip – 200B – Depth 2	1654	46	NA	NA
47005.0	Consolidated Slip – 200T – Surface	1659	46	0.54	T
47005.0	Consolidated Slip – 200T – Depth 2	1660	46	NA	NA
47005.0	Consolidated Slip – 200T – Depth 3	1661	46	NA	NA
48009.0	San Pedro Bay Outer Harbor	1769	53	NA	NA
40020.2	Long Beach Outer Harbor - 20	1771	53	NA	NA
48010.0	Turning Basin	1772	53	NA	NA
40015.1	Fish Harbor Entrance	1773	53	NA	NA
40009.0	West Basin Entrance	1774	53	NA	NA
49001.0	Cabrillo Beach Pier - West	1778	53	NA	NA
49002.0	Cabrillo Beach Pier - Central	1779	53	NA	NA
49003.0	Cabrillo Beach Pier - East	1780	53	NA	NA

Table 18. Spearman Rank Correlation Coefficients for selected chemicals significantly negatively correlated with Benthic Community Structure (as Relative Benthic Index) at Industrial Harbor stations. * indicates significance at $p \leq 0.05$; ** indicates significance at $p \leq 0.01$; *** indicates significance at $p \leq 0.001$; N = 68 or 80 depending on chemical.

Chemical	Spearman rho	Sig.	Chemical	Spearman rho	Sig.
Metals			Pesticides		
Antimony	-0.304	**	Aldrin	-0.252	*
Arsenic	-0.392	***	Cis Chlordane	-0.357	***
Cadmium	-0.462	***	Trans Chlordane	-0.335	*
Chromium	-0.305	**	OP DDD	-0.392	***
Copper	-0.402	***	PP DDD	-0.462	***
Lead	-0.440	***	Total DDT	-0.312	**
Mercury	-0.219	*	Heptachlor	-0.414	***
Silver	-0.304	**	Trans Nonachlor	-0.404	***
Zinc	-0.414	***	Total Chlordane	-0.533	***
PAHs			PCBs		
Anthracene	-0.354	***	PCB 28	-0.449	***
Benzo(a)pyrene	-0.360	***	PCB 52	-0.549	***
Benzo[e]pyrene	-0.355	***	PCB 66	-0.470	***
Dibenz[a,h]anthracene	-0.388	***	PCB 101	-0.472	***
Fluoranthene	-0.397	***	PCB 138	-0.452	***
1-Methylnaphthalene	-0.344	***	PCB 153	-0.462	***
2-Methylnaphthalene	-0.377	***	PCB 187	-0.477	***
1-Methylphenanthrene	-0.497	***	Total PCBs	-0.464	***
LMW PAH	-0.390	***			
HMW PAH	-0.436	***			
Total PAH	-0.428	***	Other		
			TOC	-0.555	***
Organotins			ERM Quotient	-0.443	***
Tributyltin	-0.547	***	# ERM Exceedances	-0.316	**

Table 19a. Results of Prinicipal Components Analysis (PCA) of amphipod survival in toxicity tests, benthic community structure metrics, and chemicals measured in Industrial Harbor sediments. Significantly correlated variables are indicated in 12 point bold type.

	Rotated Loadings			
	1	2	3	4
Amphipod Survival	**-0.675**	0.005	0.117	-0.318
No. of Gammarid Amph. Species	0.127	**0.869**	-0.076	0.077
No. of Gammarid Amph. Indiv.s	-0.098	**0.648**	0.018	-0.184
No. of Other Crustacean Indiv.s	-0.099	**0.898**	0.150	0.023
Mean No. of Crustacean Indiv.s	0.099	**0.903**	-0.047	0.072
Tot. No. of Crustacean Species	-0.215	**0.658**	0.137	-0.301
Mean No. of Echinoderm Indiv.s	-0.151	0.015	**0.695**	-0.221
Mean No. of Mollusc Indiv.s	-0.175	-0.022	0.079	**-0.547**
Mean No. of Mollusc Species	-0.333	-0.029	-0.051	**-0.550**
Mean No. of Individuals	0.332	**0.788**	-0.173	-0.022
Total No. of Species	-0.079	0.308	-0.202	**-0.511**
Relative Benthic Index	**-0.472**	0.173	0.013	-0.290
ANTIMONY	**0.721**	0.154	-0.087	0.357
CADMIUM	**0.687**	0.223	0.163	0.051
COPPER	0.366	0.009	0.151	**0.738**
IRON	0.102	-0.099	**-0.473**	**0.686**
LEAD	**0.821**	-0.005	0.029	0.288
MANGANESE	-0.163	-0.117	**-0.684**	0.202
MERCURY	0.102	-0.095	0.129	**0.667**
ZINC	**0.747**	0.005	0.010	**0.474**
ALDRIN	**0.574**	-0.097	0.204	-0.083
CisChlordane	**0.798**	0.072	0.013	0.009
Total DDT	0.053	0.003	0.924	-0.192
DIELDRIN	**0.894**	0.070	-0.054	-0.076
METHOXY	**0.798**	-0.116	-0.020	-0.062
Total Chlordane	**0.942**	0.138	-0.017	-0.022
Total PCB	**0.786**	-0.044	0.167	0.073
HMW PAH	**0.694**	-0.011	-0.015	0.434
FINES	0.135	-0.015	-0.066	**0.594**
TOC	**0.751**	0.101	0.316	0.300
ERMQ	**0.930**	0.060	0.149	0.195
ERMEXCDS	**0.759**	-0.034	0.251	0.325
PELEXCDS	**0.750**	-0.115	0.222	0.383
% of total variance explained	26.89	10.317	11.549	11.352

Table 19b. Results of Prinicipal Components Analysis (PCA) of Abalone Devlopment in toxicity tests, Benthic Community Structure Metrics, and Chemicals measured in Industrial Harbor sediments. Significantly correlated variables are indicated in 12 point bold type.

	Rotated Loadings				
	1	2	3	4	5
Mean amphipod survival	-0.284	0.205	-0.417	-0.416	-0.293
Mean ab dev. (100% PW)	0.380	-0.027	-0.341	-0.183	-0.393
Mean ab dev. (50% PW)	-0.032	0.037	-0.138	0.025	**-0.697**
Mean ab dev. (25% PW)	-0.029	-0.031	-0.122	-0.161	**-0.642**
Unionized ammonia	0.038	-0.100	0.201	0.283	**0.721**
Mean No. of Gammarid Indiv.s	0.017	-0.097	-0.938	0.074	-0.041
No. of Other Crustacean Indiv.s	-0.054	0.141	-0.893	-0.058	-0.097
Tot. No. of Crustacean Indiv.s	-0.010	-0.008	-0.960	0.026	-0.065
Mean No. of Echinoderm Indiv.s	-0.227	**0.824**	-0.001	-0.134	-0.144
Mean No. of Echinoderm Sp.	-0.102	**0.816**	0.036	-0.186	-0.289
Mean No. of Mollusc Indiv.s	-0.255	0.124	0.244	0.181	**-0.566**
Mean No. of Mollusc Sp.	-0.287	0.048	0.132	-0.129	**-0.534**
Mean No. of Polychaete Sp.	-0.036	-0.082	-0.034	**-0.489**	**-0.510**
Mean No. of Individuals	0.083	-0.206	-0.804	-0.192	-0.318
Total No. of Species	-0.168	0.064	-0.257	-0.429	**-0.619**
Relative Benthic Index	-0.318	0.203	-0.488	**-0.473**	-0.326
ALUMINUM	-0.319	**-0.638**	0.052	-0.302	-0.077
ANTIMONY	0.609	0.013	0.296	**0.567**	0.284
CADMIUM	0.240	0.443	-0.281	**0.738**	0.131
COPPER	0.596	0.169	-0.012	0.196	0.590
MANGANESE	0.312	**-0.536**	0.357	-0.280	-0.046
MERCURY	0.501	0.127	0.144	0.007	**0.465**
ZINC	0.555	0.061	0.031	**0.677**	0.391
TTL_DDT	-0.210	0.950	-0.039	0.010	-0.054
DIELDRIN	-0.003	-0.079	-0.154	**0.874**	-0.027
TOXAPH	0.014	0.048	0.108	**0.896**	-0.024
TBT	0.163	0.087	0.084	**0.579**	0.421
TTL_CHLR	0.011	0.020	0.108	**0.965**	0.065
TTL_PCB	0.341	0.478	0.117	**0.546**	**0.508**
HMW_PAH	0.444	0.014	0.159	0.201	**0.496**
FINES	0.760	0.011	-0.135	0.277	-0.038
TOC	0.399	0.251	-0.043	**0.686**	0.259
ERMQ	0.356	0.326	0.138	**0.743**	0.393
ERMEXCDS	0.318	0.345	0.178	0.359	**0.511**
PELEXCDS	0.378	0.243	0.224	**0.455**	**0.527**
% of Total Var explained	15.235	14.037	11.149	18.742	13.902

Table 20. Spearman Rank Correlation Coefficients for amphipod survival or abalone embryo development in laboratory toxicity tests significantly correlated with Benthic Community Structure metrics measured at Industrial Harbor stations. * indicates significance at $p \leq 0.05$; ** indicates significance at $p \leq 0.01$; *** indicates significance at $p \leq 0.001$; N = 80 (amphipods) or 47 (abalone).

Benthic Community Metric Correlated. with Amphipod Survival	Spearman rho	Significance
Total Number of Custacean Species	0.373	***
Total Number of Species	0.367	***
Benthic Index	0.276	**
Benthic Community Metric Correlated with Abalone Development	**Spearman rho**	**Significance**
Total Number of Mollusc Individuals	0.280	*
Total Number of Mollusc Species	0.363	**
Total Number of Individuals	0.490	**
Total Number of Species	0.290	*

Table 21a. Results of total DDT and Total PCB tissue analyses of fish collected at selected Industrial Harbor stations (ng/g wet weight concentrations).

Station Number	Station Name	IDORG	Fish Species	LEG	TTL DDT (ng/g)	TTL DDT Quot.	TTL PCB (ng/g)	TTL PCB Quot.	EPA Excds	% Lipid
40020.2	Long Bch Out. Harb. 20	1781.0	Croaker	53	1096.7	3.7	465.2	46.5	2	9.8
49001.0	Cabr. Bch Pier- West	1782.0	Croaker	53	406.3	1.4	170.2	17.0	2	16.2
49002.0	Cabr. Bch Pier- Cent.	1783.0	Croaker	53	4984.8	16.6	686.6	68.7	2	14.5
49003.0	Cabr. Bch Pier- East	1784.0	Croaker	53	1839.2	6.1	407.3	40.7	2	14.3
49001.0	Cabr. Bch Pier- West	1785.0	Surfperch	53	51.2	0.2	40.1	4.0	1	14.2
49002.0	Cabr. Bch Pier- Cent.	1786.0	Surfperch	53	68.5	0.2	37.9	3.8	1	9.6
49003.0	Cabr. Bch Pier- East	1787.0	Surfperch	53	76.7	0.3	53.5	5.4	1	11.9
NAS	Wildlife Guideline (whole fish)				50		500			
USEPA	Screening Value (edible portion)				300		10			

Table 21b. Results of tisue analyses of *Macoma nasuta* bioaccumulation tests using selected Industrial Harbor sediments. Tissue concentrations are shown for those compounds that were elevated relative to the US EPA screening values (Total DDT and Total PCBs only; as ng/g wet weight concentrations). * = significantly elevated concentrations, NS = not significant, NA = not analyzed.

Station Number	Station Name	IDORG	Tissue TYPE	TTL DDT	Sig.	TTL PCB	Sig.	TTL DDT Quot.	TTL PCB Quot.	EPA Exceedances
40009.0	West Basin Entrance - 1	1774.1	Macoma	15.49	*	16.526	*	0.052	1.6526	2
40009.0	West Basin Entrance - 2	1774.2	Macoma	11.02	*	11.088	*	0.037	1.1088	1
40009.0	West Basin Entrance - 3	1774.3	Macoma	18.86	*	17.598	*	0.063	1.7598	2
49001.0	Cabrillo Beach Pr – West - 1	1778.1	Macoma	9.59	NA	6.072	NA	0.032	0.6072	0
49002.0	Cabrillo Beach Pr – Center - 1	1779.1	Macoma	11.96	*	5.530	NS	0.040	0.5530	0
49002.0	Cabrillo Beach Pr – Center - 2	1779.2	Macoma	18.74	*	8.406	NS	0.062	0.8406	0
49002.0	Cabrillo Beach Pr – Center - 3	1779.3	Macoma	18.16	*	15.338	NS	0.061	1.5338	1
49003.0	Cabrillo Beach Pr – East - 1	1780.1	Macoma	9.10	*	4.546	*	0.030	0.4546	0
49003.0	Cabrillo Beach Pr – East - 2	1780.2	Macoma	13.43	*	5.272	*	0.045	0.5272	0
49003.0	Cabrillo Beach Pr – East - 3	1780.3	Macoma	10.64	*	5.536	*	0.035	0.5536	0
	GC - Home Control - 1	1806.1	Macoma	2.21		3.624			0.3624	0
	GC - Home Control - 2	1806.2	Macoma	2.18		4.370			0.4370	0
	GC - Home Control - 3	1806.3	Macoma	2.14		3.902			0.3902	0
	GC - Initial Before Exp - 1	1805.1	Macoma	2.31		3.600			0.3600	0
	GC - Initial Before Exp - 2	1805.2	Macoma	2.07		3.886			0.3886	0
	GC - Initial Before Exp - 3	1805.3	Macoma	2.15		3.716			0.3716	0
NAS	Wildlife Guideline (whole fish)			50		500				
USEPA	Screening Val. (edible portion)			300		10				

* = significant relative to home sediment control using a separate variance t-test at $p \leq 0.05$ (n=3);

Table 22. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3 H_2S	Larval Development - Ab or Urch. 100% PW	100% NH_3 H_2S	50% PW	50% NH_3 H_2S	25% PW	25% NH_3 H_2S	Urch SWI	Benthic Index
Category 1 - Stations with elevated chemistry, recurrent toxicity and degraded benthos																
40006.1	Consolidated Slip	16	1.273	p'p,DDE (13)	4.6	90.9	58		0		90		93		na	0.29
40006.1	Consolidated Slip- R1	1050	1.949	TTL Chlordane (18)	4.3	93.6	62		na		na		na		na	na
40006.1	Consolidated Slip- R2	1051	1.654	TTL PCB (3), Zn, Hg (1)	4.3	94.0	65		na		na		na		na	na
40006.1	Consolidated Slip- R3	1052	1.473	HMWPAH (1)	4.5	94.6	80		na		na		na		na	na
Category 2 - Stations with elevated chemistry, one (of one) toxicity hit and degraded benthos.																
47002.0	Consolidated Slip- 200- Surface	1650	1.917	p'p,DDE (7), TTL Chl. (8), HMWPAH (1)	4.1	80.7	54		na		na		na		na	0.25
47002.0	Consolidated Slip- 200- Depth 2	1651	1.567	TTL. PCB (11), Dieldrin (1), Zn (1)	2.1	70.2	86		na		na		na		na	na
47003.0	Consolidated Slip- 200B- Surface	1653	1.629	p'p,DDE (6), TTL Chl. (9),	3.4	62.6	70		na		na		na		na	0.30
47003.0	Consolidated Slip- 200B- Depth 2	1654	na	TTL PCB (8), Dieldrin (1), DBA (1)	3.6	80.6	8		na		na		na		na	na
47009.0	Consolidated Slip- 200G- Surface	1664	1.659	p'p,DDE (10), TTL Chl. (11), HMWPAH (1) TTL PCB (2), Dieldrin, Zn (1), Chlorpyr (90th)	4.9	92.8	50		na		na		na		na	0.24
47010.0	Dominguez- H. Ford Bridge- Surf.	1665	0.801	p'p,DDE (4), TTL Chl. (11), TTL PCB (2)	3.5	99.5	61	N	na		na		na		na	0.21
Category 4 - Elevated Chemistry, one measure of Biological Impact (no data for second biological indicator)																
44012.0	Port Hueneme- Wharf B	612	na	TTL PCB (2), ANT (1), BAA (1), BAP (1)	1.4	78.0	70		0		na		na		na	na
44012.0	Port Hueneme- Wharf B	1626	0.536	CHR (1), DBA (1), HMWPAH (2)	1.3	38.1	98		0	S	na		na		na	na
Category 5 - Stations with elevated chemistry and mixed results from biological indicators																
40001.2	Southwest Slip	2	0.420	Hg (1), p'p,DDE (3),	1.4	71.7	51		81	N	87	N	73		na	0.50
40001.2	Southwest Slip- R1	1062	0.518	TTL PCB (1), BAP (1), DBA (1)	1.3	62.6	69		na		na		na		na	na
40001.2	Southwest Slip- R2	1063	0.496	HMWPAH (2)	1.3	63.5	72		na		na		na		na	na
40001.2	Southwest Slip- R3	1064	0.324		0.8	46.4	58		na		na		na		na	na
40006.2	Consolidated Slip	17	1.289	Zn (1), TTL Chl. (4), p'p,DDE (10) TTL PCB (3), TBT (>95th)	4.3	92.9	59	N	0	N	0	N	0	N	na	0.38

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3	Amphipod H_2S	Larval Development - Ab or Urch. 100% PW	100% NH_3	100% H_2S	50% PW	50% NH_3	50% H_2S	25% PW	25% NH_3	25% H_2S	Urch SWI	Benthic Index
Category 5 - Stations with elevated chemistry and mixed results from biological indicators																				
40013.1	Inner Queensway Bay	37	0.383	TTL Chlordane (4), p'p,DDE (1)	2.0	94.6	83			0	N		89	N		91			na	0.47
40013.1	Inner Queensway Bay	791	na		1.4	76.0	50			95			93			90			na	na
40013.1	Inner Queensway Bay- R1	1056	0.282		0.3	20.5	83			na			na			na			na	na
40013.1	Inner Queensway Bay- R2	1057	0.308		1.1	21.5	76			na			na			na			na	na
40013.1	Inner Queensway Bay- R3	1058	0.515		2.0	38.3	71			na			na			na			na	na
40019.3	Inner Fish Harbor	57	0.914	Cu (2), Hg (3), Zn (1), p'p,DDE (9) TBT (>95th)	3.0	91.1	54			0	N		0	N		93	N		na	0.35
47001.0	Consolidated Slip- 198- Surface	1647	1.429	TTL Chl. (9), p'p,DDE (7)	3.2	84.2	61			na			na			na			na	0.39
47001.0	Consolidated Slip- 198- Depth 2	1648	1.424	TTL PCB (5), DBA (1)	2.1	72.6	64			na			na			na			na	na
47004.0	Consolidated Slip- 200E- Surface	1656	1.289	Zn (1), TTL Chl. (9), p'p,DDE (7)	4.3	68.3	40			na			na			na			na	0.34
47004.0	Consolidated Slip- 200E- Depth 2	1657	4.377	TTL PCB (2), DBA (2), HMWPAH (1)	4.4	86.1	33	N		na			na			na			na	na
47005.0	Consolidated Slip- 200T- Surface	1659	na	Cr (1), Cu (2), Pb (2), Hg (4), Zn (1)	6.4	78.5	0			na			na			na			na	0.54
47005.0	Consolidated Slip- 200T- Depth 2	1660	na	p'p,DDE (5), TTL PCB (8)	5.2	76.9	18	N		na			na			na			na	na
47005.0	Consolidated Slip- 200T- Depth 3	1661	na	BAP (1), DBA (1) TBT (>95th)	6.9	87.2	13	N		na			na			na			na	na
47008.0	Consolidated Slip- Storm Drain	1663	1.608	Cd(1), TTL Chl (9), p'pDDE (6), TTL PCB (5)	4.0	75.4	52			na			na			na			na	0.40
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not measured.																				
40002.1	West Basin- Pier 143	4	na		1.5	54.0	75			0	N		1			88			na	0.48
40002.2	West Basin- Pier 143	5	0.212	p'p,DDE (1)	0.9	75.5	78			0	N		0	N		29			na	0.50
40003.1	Turning Basin- Pier 151	7	0.168	p'p,DDE (1)	0.7	37.5	64			0	N		63	N		88			na	0.66
40003.3	Turning Basin- Pier 151	9	na		0.8	32.0	81			23	N		93	N		92			na	0.54

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3 H_2S	Larval Development - Ab or Urch. 100% PW	NH_3 H_2S	50% PW	NH_3 H_2S	25% PW	NH_3 H_2S	Urch SWI	Benthic Index
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not measured.																
40004.1	Lower Main Channel	10	na		1.3	44.0	78		26	N	93	N	94		na	0.69
40004.2	Lower Main Channel	11	0.368	p'p,DDE (10)	3.4	88.7	80		69	N	95	N	95		na	0.57
40004.2	Lower Main Channel	789	na		0.7	81.0	68		97		96		90		na	na
40004.2	Lower Main Channel- R1	830	0.195		1.6	36.1	91		0	N	0		0		na	0.40
40004.2	Lower Main Channel- R2	831	0.209		1.2	37.0	91		0		0		41		na	0.25
40004.2	Lower Main Channel- R3	832	0.242		2.1	54.4	93		0		13		63		na	0.30
40005.2	East Basin- Turning Basin	14	na		0.6	71.0	73		1	N	89		94		na	0.47
40005.3	East Basin- Turning Basin	15	na		0.6	77.0	79		0	N	54	N	78		na	0.46
40006.3	Consolidated Slip	18	na		4.4	78.0	67		0	N	1		45		na	0.30
40007.1	Long Beach Harbor- Channel 2	19	na		1.2	75.0	82		0		92		91		na	0.52
40007.3	Long Beach Harbor- Channel 2	21	na		0.7	77.0	78		0		0		88		na	0.52
40008.2	East Basin- Pier C	23	na		0.5	63.0	78		3	N	95		98		na	0.52
40008.3	East Basin- Pier C	24	0.182	p'p,DDE (1)	0.8	70.9	76		0	N	93		93		na	0.62
40009.2	West Basin Entrance	26	na		0.4	73.0	81		0	N	96		95		na	0.71
40009.1	West Basin Entrance	25	0.160	p'p,DDE (1)	0.4	57.0	88		1		95		95		na	0.53
40009.1	West Basin Entrance	790	na		0.8	77.0	60		99		81		88		na	na
40009.1	West Basin Entrance- R1	834	0.184		0.8	71.8	97		0	N	14		79		na	0.46
40009.1	West Basin Entrance- R2	835	0.173		0.7	70.9	86		0		15		89		na	0.38
40009.1	West Basin Entrance- R3	836	0.181		1.0	66.3	91		55	N	76		88		na	0.32
40009.3	West Basin Entrance	27	0.154		0.4	83.0	87		0	N	97		95		na	0.60

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3 H_2S	Larval Development - Ab or Urch. 100% PW	100% NH_3 H_2S	50% PW	50% NH_3 H_2S	25% PW	25% NH_3 H_2S	Urch SWI	Benthic Index
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not measured.																
40010.1	Off Cabrillo Beach	28	0.282	Cu (1), p'p,DDE (9)	2.9	93.0	92		93		96		97		na	0.67
40010.1	Off Cabrillo Beach	136	0.260		2.3	88.1	89		2		2		53		na	na
40010.1	Off Cabrillo Beach	810	na		2.7	92.6	58		0	N	93		na		na	na
40010.1	Off Cabrillo Beach- 1	1006	0.305		2.8	95.7	68		46		96		96		na	0.34
40010.1	Off Cabrillo Beach- 1	1068	0.332		2.5	91.9	80		na		na		na		na	na
40010.1	Off Cabrillo Beach- 2	1069	0.363		2.6	95.2	48		na		na		na		na	na
40010.1	Off Cabrillo Beach- 3	1070	0.344		2.6	91.1	46		na		na		na		na	na
40010.1	Off Cabrillo Beach	1331	na		2.9	96.3	92		na		na		na		na	na
40010.2	Off Cabrillo Beach	29	0.260	p'p,DDE (6)	2.5	76.3	88		94		97		96		na	0.75
40010.2	Off Cabrillo Beach	137	na		1.3	72.0	89		0		1		48		na	na
40010.2	Off Cabrillo Beach- R2	1007	0.299		2.3	69.9	90		5		31		38		na	0.27
40010.2	Off Cabrillo Beach- R1	1071	0.318		2.3	82.7	78		na		na		na		na	na
40010.2	Off Cabrillo Beach- R2	1072	0.304		2.1	71.8	63		na		na		na		na	na
40010.2	Off Cabrillo Beach- R3	1073	0.272		2.2	77.9	72		na		na		na		na	na
40010.2	Off Cabrillo Beach	1332	na		2.9	95.0	83		na		na		na		na	na
40010.3	Off Cabrillo Beach	30	0.282	p'p,DDE (6)	1.1	90.0	91		96		93		92		na	1.00
40010.3	Off Cabrillo Beach	138	na		1.3	95.0	84		0		7		50		na	na
40010.3	Off Cabrillo Beach- R3	1008	0.301		2.0	92.8	69		95		96		64		na	0.43
40010.3	Off Cabrillo Beach- R1	1074	0.319		2.2	89.5	60		na		na		na		na	na
40010.3	Off Cabrillo Beach- R2	1075	0.329		2.3	95.3	64		na		na		na		na	0.68
40010.3	Off Cabrillo Beach- R3	1076	0.258		2.0	90.3	48		na		na		na		na	na
40010.3	Off Cabrillo Beach	1333	na		2.9	97.4	91		na		na		na		na	na
40011.1	Inner Harbor- Channel 3	31	0.326	p'p,DDE (2)	1.0	87.0	85		0		75		90		na	0.63
40011.2	Inner Harbor- Channel 3	32	0.304	p'p,DDE (2)	2.1	89.0	84		0		0		88		na	0.53

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3	Amphipod H_2S	Larval Development - Ab or Urch. 100% PW	100% NH_3	100% H_2S	50% PW	50% NH_3	50% H_2S	25% PW	25% NH_3	25% H_2S	Urch SWI	Benthic Index
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not measured.																				
40012.1	Southeast Basin	34	0.197	p'p,DDE (2)	1.5	82.3	77			24			94			96			na	0.61
40012.1	Southeast Basin	812	na		1.6	83.8	34			52			95			na			na	na
40012.1	Southeast Basin- R1	1047	0.231		1.5	84.4	39			na			na			na			na	na
40012.1	Southeast Basin- R2	1048	0.211		1.3	78.6	51			na			na			na			na	na
40012.1	Southeast Basin- R3	1049	0.176		1.0	70.8	66			na			na			na			na	na
40012.1	Southeast Basin	1632	0.249		1.6	81.1	99			0		S	na			na			na	0.56
40012.3	Southeast Basin	36	na		0.7	79.0	69			8		N	63			94			na	0.68
40013.3	Inner Queensway Bay	39	na		1.7	91.0	81			6		N	90			92			na	0.46
40014.1	Outer Queensway Bay	40	na		0.9	89.0	78			0		N	93		N	87			na	0.42
40015.1	Fish Harbor Entrance	43	0.178	p'p,DDE (2)	0.9	63.1	83			51		N	98			96			na	0.66
40015.1	Fish Harbor Entrance	1698	0.146		0.4	43.3	89			na			na			na			na	0.78
40015.1	Fish Harbor Entrance	1773	na		na	na	72			na			na			na			96	na
40015.2	Fish Harbor Entrance	44	0.134	p'p,DDE (2)	0.6	37.0	83			35		N	96		N	98			na	0.68
40016.2	Terminal Island STP	47	0.126		0.5	68.0	88			71		N	97			97			na	0.75
40016.2	Terminal Island STP	793	na		1.0	86.0	63			89			86			87			na	na
40017.1	Long Beach Channel	49	na		0.8	80.0	76			0			72			94			na	0.52
40017.2	Long Beach Channel	50	na		1.3	81.0	82			21			87			92			na	0.55
40017.3	Long Beach Channel	51	0.164	p'p,DDE (4)	1.4	83.5	88			51		N	90			92			na	0.68
40017.3	Long Beach Channel	811	na		1.0	74.0	54			0			0			na			na	na
40017.3	Long Beach Channel - R1	1059	0.190		1.4	87.5	71			na			na			na			na	na
40017.3	Long Beach Channel - R2	1060	0.214		1.4	87.6	47			na			na			na			na	na
40017.3	Long Beach Channel - R3	1061	0.168		1.4	75.9	61			na			na			na			na	na

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3 H_2S	Larval Development - Ab or Urch. 100% PW	100% NH_3 H_2S	50% PW	50% NH_3 H_2S	25% PW	25% NH_3 H_2S	Urch SWI	Benthic Index
Category 6 – Stations with measured biological impact but chemistry values below thresholds or not measured.																
40018.1	Long Beach Outer Harbor 18	52	na		0.6	71.0	67		0		87		90		na	0.51
40018.2	Long Beach Outer Harbor 18	53	na		0.8	77.0	79		0		1		94		na	0.50
40018.3	Long Beach Outer Harbor 18	54	0.208	p'p,DDE (3), TTL Chlordane (1)	1.4	79.1	93		92	N	91		93		na	0.52
40018.3	Long Beach Outer Harbor 18- R1	884	0.233		1.3	75.1	93		0		91		89		na	0.23
40018.3	Long Beach Outer Harbor 18- R2	885	0.253		1.5	79.9	91		0		91		94		na	0.31
40018.3	Long Beach Outer Harbor 18- R3	886	0.255		1.3	76.5	89		0		34		81		na	0.23
40018.3	Long Beach Outer Harbor 18- R1	1041	0.218		1.4	71.9	56		na		na		na		na	na
40018.3	Long Beach Outer Harbor 18- R2	1042	0.266		1.3	79.1	70		na		na		na		na	0.30
40018.3	Long Beach Outer Harbor 18- R3	1043	0.211		1.1	71.4	72		na		na		na		na	na
40018.3	Long Beach Outer Harbor 18- R1	1192	na		1.5	84.6	88		na		na		na		na	na
40018.3	Long Beach Outer Harbor 18- R2	1193	na		1.5	88.1	89		na		na		na		na	na
40018.3	Long Beach Outer Harbor 18- R3	1194	na		1.4	82.9	81		na		na		na		na	na
40018.3	Long Beach Outer Harbor 18	1334	na		1.3	78.0	90		na		na		na		na	na
40018.3	Long Beach Outer Harbor 18	1695	0.253		1.2	79.9	75		na		na		na		97	0.58
40018.3	Long Beach Outer Harbor 18	1770	na		na	na	59		na		na		na		96	na
40020.1	Long Beach Outer Harbor 20	58	0.141	p'p,DDE (1)	0.5	57.0	83		0		6		64		na	0.63
40020.2	Long Beach Outer Harbor 20	59	0.150	p'p,DDE (2), TTL Chlordane (1)	1.1	64.7	92		0		15		91		na	0.83
40020.2	Long Beach Outer Harbor 20	1696	0.232		1.0	81.2	81		na		na		na		95	0.81
40020.3	Long Beach Outer Harbor 20	60	0.164	p'p,DDE (2)	0.9	69.6	84		24		89		91		na	0.60
40030.1	San Pedro Breakwater	73	0.112	p'p,DDE (3)	0.3	82.0	90		0	N	0		36		na	na
40030.2	San Pedro Breakwater	74	0.108	p'p,DDE (3)	0.3	29.0	94		0	N	49		90		na	na

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3 H_2S	Larval Development - Ab or Urch. 100% PW	NH_3 H_2S	50% PW	NH_3 H_2S	25% PW	NH_3 H_2S	Urch SWI	Benthic Index
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not measured.																
40030.3	San Pedro Breakwater	75	na	p'p,DDE (3)	0.8	20.3	95		0	N	60	N	95		na	na
40031.2	Palos Verdes- Swartz 6	77	0.366	p'pDDE (112), TTL DDT (1), TTL PCBs (1)	2.8	62.9	93		0		90		92		na	0.77
40031.2	Palos Verdes- Swartz 6- R1	1002	0.318		2.9	60.3	97		0		2		93		na	0.28
40031.2	Palos Verdes- Swartz 6- R2	1003	0.362		2.8	54.5	91		0		0		93		na	0.44
40031.2	Palos Verdes- Swartz 6- R3	1004	0.385		2.8	54.3	89		86		97		97		na	0.28
40031.2	Palos Verdes- Swartz 6- BLIND	1005	0.285		2.5	69.8	91		27		0		12		na	na
40031.2	Palos Verdes- Swartz 6- R1	1038	0.376		1.9	55.1	70		na		na		na		na	na
40031.2	Palos Verdes- Swartz 6- R2	1039	0.425		2.0	60.3	87		na		na		na		na	na
40031.2	Palos Verdes- Swartz 6- R3	1040	0.302		2.0	41.7	85		na		na		na		na	na
40031.2	Palos Verdes- Swartz 6- R1	1189	na		2.6	58.6	86		na		na		na		na	na
40031.2	Palos Verdes- Swartz 6- R2	1190	na		2.6	57.8	86		na		na		na		na	na
40031.2	Palos Verdes- Swartz 6- R3	1191	na		2.8	61.8	91		na		na		na		na	na
40031.3	Palos Verdes- Swartz 6	78	0.470	p'p,DDE (81), TTL DDT (3), TTL PCB (1)	0.7	51.8	96		56		72		88		na	1.00
40032.1	San Pedro Bay- POLA 19	79	na	p'p,DDE (2)	na	na	86		66	N	90	N	98		na	0.79
40032.1	San Pedro Bay- POLA 19	103	0.104		0.4	26.0	94		0	N	11	N	90		na	na
40032.2	San Pedro Bay- POLA 19	80	na	p'p,DDE (2)	1.8	15.0	85		31	N	20	N	84		na	0.92
40032.2	San Pedro Bay- POLA 19	104	0.099		0.3	40.0	94		0	N	16	N	10		na	na
40032.3	San Pedro Bay- POLA 19	81	0.112	p'p,DDE (5)	0.5	18.1	93		0	N	15	N	92		na	0.84
40032.3	San Pedro Bay- POLA 19	105	0.137		0.3	40.0	86		0	N	0	N	61		na	na
40033.1	Outer Harbor- POLA 10	82	0.278	p'p,DDE (16)	1.2	87.4	71		1	N	0	N	26		na	0.72
40033.2	Outer Harbor- POLA 10	83	na		0.6	92.0	70		9	N	87	N	97		na	0.62
40033.3	Outer Harbor- POLA 10	84	na		1.6	94.0	65		3	N	94	N	91		na	0.57

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3 H_2S	Larval Development - Ab or Urch. 100% PW	NH_3 H_2S	50% PW	NH_3 H_2S	25% PW	NH_3 H_2S	Urch SWI	Benthic Index
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not measured.																
44011.0	Los Cerritos Channel Tidal P	611	na	Total Chlordane (1)	4.6	50.0	65		na		na		na		na	na
44011.0	Los Cerritos Channel Tidal P- R1	1077	0.291	TBT (>90th)	1.0	62.7	66		na		na		na		na	na
44011.0	Los Cerritos Channel Tidal P- R2	1078	0.272		1.0	64.4	62		na		na		na		na	na
44011.0	Los Cerritos Channel Tidal P- R3	1079	0.301		0.9	56.9	62		na		na		na		na	na
44013.0	Port Hueneme- Wharf 1	613	na	HMWPAH (1)	0.5	52.0	73		0		na		na		na	na
44013.0	Port Hueneme- Wharf 1	1627	0.335		1.3	62.6	99		0	NS	na		na		na	na
46001.0	Hugo Neuproler- 1	1623	na	TTL PCB (2)	1.5	70.3	95		40	NS	na		na		na	na
46002.0	Hugo Neuproler- 2	1624	na	TTL PCB (2)	1.5	67.8	98		63	S	na		na		na	na
46003.0	Hugo Neuproler- 3	1625	na		1.4	52.9	92		44	S	na		na		na	na
Category 7 - Stations with elevated chemistry but biological measures below thresholds.																
40001.3	Southwest Slip	3	0.559	ANT, BAA, CHR (1), BAP,DBA (2) p'p,DDE (3), TTL PCB (1), HMWPAH (1), LMWPAH (2)	2.0	80.5	71		1	N	41	N	77		na	0.57
40007.2	Long Beach Harbor- Channel 2	20	0.585	Hg (1), DBA (1), p'p,DDE (3), TTL PCB (1)	1.6	79.8	88		0		0		37		na	0.53
40011.3	Inner Harbor- Channel 3	33	0.572	Hg (4), p'p,DDE (2)	1.5	88.4	82		0		0		62		na	0.70
40019.1	Inner Fish Harbor	55	0.624	Cu (1), p'p,DDE (7), Hg, TPCB (2), TBT (>95th)	2.5	78.1	83		0	N	0	N	0	N	na	0.36
40019.2	Inner Fish Harbor	56	0.664	Cu (1), Hg (2), p'p,DDE (7 TTL PCB (2), TBT (>95th)	2.3	76.6	73		89	N	96		96		na	0.38
40031.1	Palos Verdes- Swartz 6	76	0.520	p'p,DDE (84), TTL DDT (3), TTL PCB (1)	0.9	63.0	86		0		88		89		na	0.63
49004.0	Kaiser International- Berth 49	1793	2.695	Cu (1), TTL PCB (1), TTL PAH (3) p'p,DDE (2), HMWPAH (5), LMWPAH (29), Endosulf (>90th)	26.8	40.9	84		na		na		na		na	0.58
49005.0	Kaiser International- Berth 48	1794	0.343	p'p,DDE (8)	2.9	96.4	96		na		na		na		na	0.65

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3 H_2S	Larval Development - Ab or Urch. 100% PW	NH_3 H_2S	50% PW	NH_3 H_2S	25% PW	NH_3 H_2S	Urch SWI	Benthic Index
Category 8 - Stations with chemistry, toxicity and benthic degradation below thresholds, or not measured.																
40001.1	Southwest Slip	1	0.382	p'p,DDE (3)	1.6	70.1	65		72	N	93	N	93		na	0.47
40002.3	West Basin- Pier 143	6	na		0.9	60.0	74		0	N	0	N	65	N	na	0.48
40003.2	Turning Basin- Pier 151	8	0.105		0.6	23.8	63		2	N	98	N	96		na	0.50
40003.2	Turning Basin- Pier 152- R1	1053	0.105		0.3	16.3	85		na		na		na		na	na
40003.2	Turning Basin- Pier 152- R2	1054	0.112		0.3	15.7	91		na		na		na		na	na
40003.2	Turning Basin- Pier 152- R3	1055	0.133		1.1	20.6	82		na		na		na		na	na
40004.3	Lower Main Channel	12	0.336	p'p,DDE (8), TTL PCB (1)	0.9	82.0	81		79	N	91	N	97		na	0.54
40005.1	East Basin- Turning Basin	13	0.410	p'p,DDE (3), TTL PCB (1), TTL Chlr. (1) TBT (>95th)	2.0	51.6	74		0	N	42		98		na	0.42
40009.0	West Basin Entrance	1699	0.195		0.7	75.3	86		na		na		na		97	0.57
40009.0	West Basin Entrance	1774	na		na	na	74		na		na		na		93	na
40012.2	Southeast Basin	35	0.198	p'p,DDE (2)	1.5	87.6	78		94		97		98		na	0.50
40013.2	Inner Queensway Bay	38	0.441	TTL Chlordane (3)	1.5	90.0	84		0	N	87	N	88		na	0.47
40014.2	Outer Queensway Bay	41	0.491	p'p,DDE (1), TTL Chlordane (3)	2.8	96.6	80		0	N	0	N	91	N	na	0.41
40014.3	Outer Queensway Bay	42	0.475	p'p,DDE (1), TTL Chlordane (3)	2.3	94.4	64		0	N	90	N	89		na	0.41
40020.0	Long Beach Outer Harbor 20	1771	na		na	na	85		na		na		na		89	na

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on chemistry, toxicity and benthic community analysis. Shading indicates significant toxicity or benthic degradation. na = Not Analyzed; N = [ammonia] > than threshold effect value; S = [sulfide] > than threshold effect value; PW = Pore Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected Chemicals and factors by which they exceed ERM values	% TOC	% Fines	Amphipod % Surv.	Amphipod NH_3 H_2S	Larval Development - Ab or Urch. 100% PW	100% NH_3 H_2S	50% PW	50% NH_3 H_2S	25% PW	25% NH_3 H_2S	Urch SWI	Benthic Index
Category 8 - Stations with chemistry, toxicity and benthic degradation below thresholds, or not measured																
44055.0	L.B. Naval Station Pier 3- R1	1198	na		2.3	96.8	77		na		na		na		na	na
44055.0	L.B. Naval Station Pier 3- R2	1199	na		1.2	85.0	86		na		na		na		na	na
44055.0	L.B. Naval Station Pier 3- R3	1200	na		2.2	86.3	82		na		na		na		na	na
48009.0	San Pedro Bay- Outer Harbor	1694	0.391	p'p,DDE (1), TTL Chlordane (3)	0.4	75.9	96		na		na		na		95	0.70
48009.0	San Pedro Bay- Outer Harbor	1769	na		na	na	85		na		na		na		63	na
49001.0	Cabrillo Beach Pier- West	1778	na		2.3	81.6	na		na		na		na		na	na
49002.0	Cabrillo Beach Pier- Central	1779	na		1.4	100	na		na		na		na		na	na
49003.0	Cabrillo Beach Pier- East	1780	na		1.4	100	na		na		na		na		na	na
Category 9 - Reference stations.																
40015.3	Fish Harbor Entrance	45	0.173		0.8	29.4	92		10	N	96		98		na	0.79
40015.3	Fish Harbor Entrance	792	na		0.6	61.0	75		91		83		89		na	na
40008.1	East Basin- Pier C	22	0.228	p'p,DDE (1)	0.6	88.0	80		0	N	93		95		na	0.61
40016.3	Terminal Island STP	48	0.204	p'p,DDE (3)	0.6	91.0	80		95	N	97		96		na	0.68
40016.1	Terminal Island STP	46	0.175	p'p,DDE (4)	0.7	75.0	72		92		98		97		na	0.76
48010.0	Turning Basin	1697	0.216	TTL PCB (1)	0.3	30.8	95		na		na		na		72	0.69
48010.0	Turning Basin	1772	na		na	na	69		na		na		na		87	na

Table 22 continued. Categorization of Los Angeles Region Industrial Harbor stations based on tissue chemistry analysis of field collected fish and laboratory exposed bivalves. Shading indicates chemical concentrations in *Macoma* which were significantly elevated relative to control values. Quotient value are derived from ratio of measured concentrations to US EPA screening values for Total DDT and PCBs (refer to Table 21).

Station Number	Station Name	IDOrg	Tissue Type	DDT Total	DDT Quotient	PCB Total	PCB Quotient	EPA Exceedances
Category 3 - Stations where field collected or laboratory exposed animals had elevated tissue concentrations								
40009.0	West Basin Entrance- R1	1774.1	Macoma	15.49		16.526		
40009.0	West Basin Entrance- R2	1774.2	Macoma	11.02		11.088		
40009.0	West Basin Entrance- R3	1774.3	Macoma	18.86		17.598		
40020.2	Long Beach Outer Harbor 20	1781.0	Croaker	1096.7	3.7	465.2	46.5	2
49001.0	Cabrillo Beach Pier- West	1778.1	Macoma	9.59		6.072		
49001.0	Cabrillo Beach Pier- West	1782.0	Croaker	406.3	1.4	170.2	17	2
49001.0	Cabrillo Beach Pier- West	1785.0	Surfperch	51.2	0.2	40.1	4	1
49002.0	Cabrillo Beach Pier- Central- R1	1779.1	Macoma	11.96		5.53		
49002.0	Cabrillo Beach Pier- Central- R2	1779.2	Macoma	18.74		8.406		
49002.0	Cabrillo Beach Pier- Central- R3	1779.3	Macoma	18.16		15.338		
49002.0	Cabrillo Beach Pier- Central	1783.0	Croaker	4984.8	16.6	686.6	68.7	2
49002.0	Cabrillo Beach Pier- Central	1786.0	Surfperch	68.5	0.2	37.9	3.8	1
49003.0	Cabrillo Beach Pier- East- R1	1780.1	Macoma	9.1		4.546		
49003.0	Cabrillo Beach Pier- East- R2	1780.2	Macoma	13.43		5.272		
49003.0	Cabrillo Beach Pier- East- R3	1780.3	Macoma	10.64		5.536		
49003.0	Cabrillo Beach Pier- East	1784.0	Croaker	1839.2	6.1	407.3	40.7	2
49003.0	Cabrillo Beach Pier- East	1787.0	Surfperch	76.7	0.3	53.5	5.4	1

Table 23. ERM and PEL Quotients and Number of Sediment Quality Guideline Exceedances at Marina stations. Stations are ranked in descending order by ERM Quotient.

STANUM	STATION	IDORG	LEG	ERMQ	PELQ	ERM EXCDS	PEL EXCDS
48005.0	Marina Del Rey - C1 (X1)	1690	48	1.14	1.64	3	6
44014.0	Marina Del Rey - Rep 2	1081	26	1.09	1.59	7	7
44014.0	Marina Del Rey	614	11	0.92	1.42	8	7
44014.0	Marina Del Rey	1630	45	0.81	1.20	5	7
44014.0	Marina Del Rey - Rep 1	1080	26	0.84	1.25	6	7
44014.0	Marina Del Rey - Rep 3	1082	26	0.72	1.10	5	5
44020.0	Shoreline Marina - Rep 3	1067	25	0.89	1.20	3	6
44020.0	Shoreline Marina	1631	45	0.80	1.13	3	5
44020.0	Shoreline Marina - Rep 1	1065	25	0.73	1.03	3	6
44020.0	Shoreline Marina - Rep 2	1066	25	0.81	1.10	3	6
44020.0	Shoreline Marina	620	11	0.63	0.89	3	5
48006.0	Shoreline Marina - A1 (X1)	1691	48	1.03	1.40	5	5
48003.0	Marina Del Rey - B1 (X1)	1688	48	0.81	1.26	6	7
48001.0	Marina Del Rey - A1 (X1)	1686	48	0.65	0.95	6	6
48004.0	Marina Del Rey - B2 (X2)	1689	48	0.53	0.78	1	3
48002.0	Marina Del Rey - A2 (X2)	1687	48	0.52	0.81	3	3
44023.0	Channel Islands Harbor	623	11	0.41	0.64	3	4
40023.1	Alamitos Bay - Long Beach Marina	1701	48	0.40	0.54	2	2
40023.1	Alamitos Bay - Long Beach	67	4	NA	NA	NA	NA
40023.1	Alamitos Bay - Long Beach Marina	1776	53	NA	NA	0	0
48007.0	Shoreline Marina - B1 (X1)	1692	48	0.38	0.54	2	4
48008.0	Shoreline Marina - C1 (X1)	1693	48	0.31	0.46	1	1
48011.0	King Harbor	1700	48	0.30	0.42	2	1
40022.2	Alamitos Bay - Entrance	65	4	0.25	0.36	2	1
40022.1	Alamitos Bay - Entrance	64	4	0.24	0.33	2	1
40022.3	Alamitos Bay - Entrance	66	4	NA	NA	NA	NA
40021.3	Alamitos Bay - Marine Stadium	63	4	0.18	0.26	0	0
48012.0	Channel Island Harbor - Front	1702	48	0.14	0.23	1	1
40021.1	Alamitos Bay - Marine Stadium	61	4	NA	NA	NA	NA
40021.2	Alamitos Bay - Marine Stadium	62	4	NA	NA	NA	NA
40023.2	Alamitos Bay - Long Beach	68	4	NA	NA	NA	NA
40023.3	Alamitos Bay - Long Beach	69	4	NA	NA	0	0
44021.0	Ventura Marina	621	11	NA	NA	NA	NA
44023.0	Channel Islands Harbor – Rep 1	1207	30	NA	NA	NA	NA
44023.0	Channel Islands Harbor – Rep 2	1208	30	NA	NA	NA	NA
44023.0	Channel Islands Harbor – Rep 3	1209	30	NA	NA	NA	NA
48011.0	King Harbor	1775	53	NA	NA	0	0
48012.0	Channel Island Harbor - Front	1777	53	NA	NA	0	0

Table 24. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Marina Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
48005.0	Marina Del Rey - C1 (X1)	1690	48	NA	NA	NA	NA	77.00	3.00	*	NT
44014.0	Marina Del Rey -Rep 2	1081	26	42.00	16.43	*	T	NA	NA	NA	NA
44014.0	Marina Del Rey	614	11	53.00	11.00	*	T	NA	NA	NA	NA
44014.0	Marina Del Rey	1630	45	NA	NA	NA	NA	92.00	13.00	ns	NT
44014.0	Marina Del Rey -Rep 1	1080	26	32.00	14.40	*	T	NA	NA	NA	NA
44014.0	Marina Del Rey -Rep 3	1082	26	35.00	18.03	*	T	NA	NA	NA	NA
44020.0	Shoreline Marina - Rep 3	1067	25	73.00	12.04	*	NT	NA	NA	NA	NA
44020.0	Shoreline Marina	1631	45	NA	NA	NA	NA	90.00	8.00	*	NT
44020.0	Shoreline Marina - Rep 1	1065	25	32.00	27.97	*	T	NA	NA	NA	NA
44020.0	Shoreline Marina - Rep 2	1066	25	59.00	22.75	*	T	NA	NA	NA	NA
44020.0	Shoreline Marina	620	11	28.00	9.10	*	T	NA	NA	NA	NA
48006.0	Shoreline Marina - A1 (X1)	1691	48	NA	NA	NA	NA	80.00	0.00	*	NT
48003.0	Marina Del Rey - B1 (X1)	1688	48	NA	NA	NA	NA	51.00	27.00	*	T
48001.0	Marina Del Rey - A1 (X1)	1686	48	NA	NA	NA	NA	49.00	29.00	*	T
48004.0	Marina Del Rey - B2 (X2)	1689	48	NA	NA	NA	NA	89.00	7.00	*	NT
48002.0	Marina Del Rey - A2 (X2)	1687	48	NA	NA	NA	NA	65.00	6.00	*	T
44023.0	Channel Islands Harbor	623	11	48.00	13.50	*	T	NA	NA	NA	NA
40023.1	Alamitos Bay – Long Beach Marina	1701	48	NA	NA	NA	NA	81.00	10.00	*	NT
40023.1	Alamitos Bay – Long Beach	67	4	81.00	18.20	ns	NT	NA	NA	NA	NA
40023.1	Alamitos Bay – Long Beach Marina	1776	53	NA	NA	NA	NA	75.00	14.00	*	NT
48007.0	Shoreline Marina - B1 (X1)	1692	48	NA	NA	NA	NA	71.00	35.00	ns	NT
48008.0	Shoreline Marina - C1 (X1)	1693	48	NA	NA	NA	NA	91.00	7.00	ns	NT
48011.0	King Harbor	1700	48	NA	NA	NA	NA	77.00	30.00	ns	NT
40022.2	Alamitos Bay - Entrance	65	4	92.00	7.60	ns	NT	NA	NA	NA	NA
40022.1	Alamitos Bay - Entrance	64	4	92.00	2.70	ns	NT	NA	NA	NA	NA
40022.3	Alamitos Bay - Entrance	66	4	81.00	7.40	*	NT	NA	NA	NA	NA
40021.3	Alamitos Bay - Marine Stadium	63	4	71.00	12.90	*	NT	NA	NA	NA	NA

Table 24 continued. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Marina Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
48012.0	Channel Island Harbor - Front	1702	48	NA	NA	NA	NA	79.00	10.00	*	NT
40021.1	Alamitos Bay - Marine Stadium	61	4	75.00	11.70	*	NT	NA	NA	NA	NA
40021.2	Alamitos Bay - Marine Stadium	62	4	77.00	16.00	*	NT	NA	NA	NA	NA
40023.2	Alamitos Bay - Long Beach	68	4	79.00	12.90	*	NT	NA	NA	NA	NA
40023.3	Alamitos Bay - Long Beach	69	4	91.00	10.20	ns	NT	NA	NA	NA	NA
44021.0	Ventura Marina	621	11	67.00	8.40	*	T	NA	NA	NA	NA
44023.0	Channel Islands Harbor – Rep 1	1207	30	80.00	11.73	*	NT	NA	NA	NA	NA
44023.0	Channel Islands Harbor – Rep 2	1208	30	78.00	10.95	*	NT	NA	NA	NA	NA
44023.0	Channel Islands Harbor – Rep 3	1209	30	82.00	5.70	*	NT	NA	NA	NA	NA
48011.0	King Harbor	1775	53	NA	NA	NA	NA	26.00	34.00	*	T
48012.0	Channel Island Harbor - Front	1777	53	NA	NA	NA	NA	58.00	35.00	*	T

Table 25. Spearman Rank Correlation Coefficients for selected chemicals significantly correlated with amphipod survival at Marina stations. * indicates significance at $p \leq 0.05$; ** indicates significance at $p \leq 0.01$; *** indicates significance at $p \leq 0.001$; N = 13, 25, or 28 depending on chemical.

Chemical	Spearman rho	Significance
Arsenic	-0.517	**
Copper	-0.510	**
Lead	-0.490	**
Mercury	-0.421	**
Nickel	-0.408	**
Zinc	-0.539	**
Tributyltin	-0.594	**
Fines	-0.246	NS
Clay	-0.542	*
TOC	-0.209	NS
ERM Quotient	-0.320	NS
PEL Quotient	-0.350	*
# ERM Exceedances	-0.321	*

Table 26. Spearman Rank Correlation Coefficients for selected chemicals significantly correlated with sea urchin development at the sediment-water interface at Marina stations. * indicates significance at $p \leq 0.05$; ** indicates significance at $p \leq 0.01$; *** indicates significance at $p \leq 0.001$; N = 11 or 14 depending on chemical.

Chemical	Spearman rho	Significance
Pesticides		
OP DDT	-0.642	*
Endosulfan	-0.600	*
Mirex	-0.580	*
PCBs		
PCB 138	-0.555	*
PCB 153	-0.627	*
PCB 157	-0.549	*
PCB 170	-0.682	*
PCB 177	-0.582	*
PCB 180	-0.591	*
PCB 183	-0.691	*
PCB 187	-0.545	*
PCB 194	-0.609	*
PCB 201	-0.629	*
PCB 206	-0.664	*
Ammonia	-0.749	**
Hydrogen Sulfide	-0.517	*
Fines	-0.246	NS
Clay	-0.542	NS
TOC	-0.209	NS
ERM Quotient	-0.320	NS
# ERM Exceedances	-0.321	NS

Table 27. Relative Benthic Index values for Marina stations. Station categories were D = Degraded (RBI≤0.30); T = Transitional (RBI>0.31≤0.60); U = Undegraded (RBI >0.61). NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	Benthic Index	Category
48005.0	Marina Del Rey- C1 (X1)	1690	48	0.66	U
44014.0	Marina Del Rey-Rep 2	1081	26	NA	NA
44014.0	Marina Del Rey	614	11	NA	NA
44014.0	Marina Del Rey	1630	45	0.34	T
44014.0	Marina Del Rey-Rep 1	1080	26	NA	NA
44014.0	Marina Del Rey-Rep 3	1082	26	NA	NA
44020.0	Shoreline Marina- Rep 3	1067	25	NA	NA
44020.0	Shoreline Marina	1631	45	0.38	T
44020.0	Shoreline Marina- Rep 1	1065	25	NA	NA
44020.0	Shoreline Marina- Rep 2	1066	25	NA	NA
44020.0	Shoreline Marina	620	11	NA	NA
48006.0	Shoreline Marina- A1 (X1)	1691	48	0.34	T
48003.0	Marina Del Rey- B1 (X1)	1688	48	0.43	T
48001.0	Marina Del Rey- A1 (X1)	1686	48	0.43	T
48004.0	Marina Del Rey- B2 (X2)	1689	48	0.62	U
48002.0	Marina Del Rey- A2 (X2)	1687	48	0.49	T
44023.0	Channel Islands Harbor	623	11	NA	NA
40023.1	Alamitos Bay-Long Beach Marina	1701	48	0.66	U
40023.1	Alamitos Bay- Long Beach	67	4	0.80	U
40023.1	Alamitos Bay-Long Beach Marina	1776	53	NA	NA
48007.0	Shoreline Marina- B1 (X1)	1692	48	0.26	D
48008.0	Shoreline Marina- C1 (X1)	1693	48	0.51	T
48011.0	King Harbor	1700	48	0.64	U
40022.2	Alamitos Bay- Entrance	65	4	0.73	U
40022.1	Alamitos Bay- Entrance	64	4	0.70	U
40022.3	Alamitos Bay- Entrance	66	4	0.70	U
40021.3	Alamitos Bay- Marine Stadium	63	4	0.62	U
48012.0	Channel Is. Harbor- Front	1702	48	0.75	U
40021.1	Alamitos Bay- Marine Stadium	61	4	0.58	T
40021.2	Alamitos Bay- Marine Stadium	62	4	0.39	T
40023.2	Alamitos Bay- Long Beach	68	4	0.53	T
40023.3	Alamitos Bay- Long Beach	69	4	0.58	T
44021.0	Ventura Marina	621	11	NA	NA
44023.0	Channel Islands Harbor-Rep 1	1207	30	NA	NA
44023.0	Channel Islands Harbor-Rep 2	1208	30	NA	NA
44023.0	Channel Islands Harbor-Rep 3	1209	30	NA	NA
48011.0	King Harbor	1775	53	NA	NA
48012.0	Channel Is. Harbor- Front	1777	53	NA	NA

Table 28. Spearman Rank Correlation Coefficients for selected chemicals significantly Correlated with Benthic Community Structure (as Relative Benthic Index = BI) at Marina stations. * indicates significance at $p \leq 0.05$; ** indicates significance at $p \leq 0.01$; *** indicates significance at $p \leq 0.001$; N = 16.

Chemical	Spearman rho	Significance
Metals		
Antimony	-0.743	***
Chromium	-0.720	**
Copper	-0.774	***
Lead	-0.723	**
Mercury	-0.543	*
Silver	-0.446	*
Zinc	-0.752	***
Pesticides		
Trans Chlordane	-0.500	*
PP DDMU	-0.675	**
Dieldrin	-0.525	*
Cis Nonachlor	-0.473	*
Tributyltin	-0.711	**
PCBs		
PCB 44	-0.527	*
PCB 52	-0.538	*
PCB 66	-0.569	*
PCB 101	-0.532	*
PCB 118	-0.549	*
PCB 187	-0.429	*
PCB 195	-0.671	**
PCB 209	-0.629	**
Total PCBs	-0.512	*
Fines	-0.641	**
TOC	-0.664	**
ERMQ	-0.586	**
ERM Exceedances	-0.528	*

Table 29. Categorization of Los Angeles Region Marina stations based on chemistry, toxicity and benthic analysis. Shading indicates significant toxicity or benthic degradation. Shading indicates significant toxicity or benthic degradation. PW = Pore Water, SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected chemicals and factors by which the exceed ERM values	% TOC	% Fines	Amphipod % Surv	Amphipod NH_3 H_2S	Abalone Development 100% PW	Abalone Development 100% NH_3 H_2S	Abalone Development 50% PW	Abalone Development 50% NH_3 H_2S	Abalone Development 25% PW	Abalone Development 25% NH_3 H_2S	Urchin Dev. 100% PW	Urchin Dev. NH_3 H_2S	Urchin SWI	Urchin NH_3 H_2S	Benthic Index
Category 5 - Stations with elevated chemistry and mixed results from biological indicators																			
44014.0	Marina Del Rey	614	0.920	p'p DDE (2)	1.10	93	53	na	na		na		na		2		na		na
44014.0	Marina Del Rey- R1	1080	0.843	TTL Chlor (4)	2.51	95	32	na	na		na		na		na		na		na
44014.0	Marina Del Rey- R2	1081	1.086	TTL PCBs (2)	2.42	85	42	na	na		na		na		na		na		na
44014.0	Marina Del Rey- R3	1082	0.720	Zn, Hg, Pb (1)	2.46	98	35	na	na		na		na		na		na		na
44014.0	Marina Del Rey	1630	0.811	Cu (2), TBT (>90th)	2.08	88	92	na	na		na		na		88		na		na
44020.0	Shoreline Marina	620	0.628	TTL Chlor (8)	1.10	91	28	na	1		na		na		87		na		na
44020.0	Shoreline Marina- R1	1065	0.733	p'p DDE (2)	2.93	62	32	na	na		na		na		na		na		na
44020.0	Shoreline Marina- R2	1066	0.805	TTL PCBs (2)	2.86	100	59	na	na		na		na		na		na		na
44020.0	Shoreline Marina- R3	1067	0.894		2.85	100	73	na	na		na		na		na		na		na
44020.0	Shoreline Marina	1631	0.803		3.40	99	90	na	na		na		na		0	NS	na		na
48001.0	Marina Del Rey - A1 (X1)	1686	0.651	Cu, Hg, Ni, Zn (1) p'pDDE (1), TTL Chlr (2)	1.76	100	49	na	na		na		na		na		91		0.43
48002.0	Marina Del Rey - A2 (X2)	1687	0.522	Cu, Zn (1), TTL Chlor (2)	1.42	100	65	na	na		na		na		na		38		0.49
48003.0	Marina Del Rey - B1 (X1)	1688	0.805	Cu, Ni, Zn (1), Hg (2) TTL Chlr(2), TTL PCBs (1)	2.26	100	51	na	na		na		na		na		78		0.43
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not																			
40021.1	Alamitos Bay- Mar. Stadium	61	na		0.60	53	75		0		15		97		na		na		na
40021.2	Alamitos Bay- Mar. Stadium	62	na		1.00	79	77		0	N	3		91		na		na		na
40023.1	Alamitos Bay- Long Beach	67	na		0.70	58	81		0		2		97		na		na		na
40023.1	Alamitos Bay- Long Beach	1701	0.395	TTL Chlor. (2)	1.70	78	81								na		na		na
40023.1	Alamitos Bay- LB Marina	1776	na	p'pDDE (1)			75								na		na		na
40023.2	Alamitos Bay- Long Beach	68	na		0.80	53	79		0	N	0	N	61		na		na		na
40023.3	Alamitos Bay- Long Beach	69	na		0.70	32	91		0	N	0		81		na		na		na

Table 29 continued. Categorization of Los Angeles Region Marina stations based on chemistry, toxicity and benthic analysis. Shading indicates significant toxicity or benthic degradation. Shading indicates significant toxicity or benthic degradation. PW = Pore Water, SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected chemicals and factors by which the exceed ERM values	% TOC	% Fines	Amphipod % Surv	Amphipod NH_3 H_2S	Abalone Development 100% PW	Abalone 100% NH_3 H_2S	Abalone 50% PW	Abalone 50% NH_3 H_2S	Abalone 25% PW	Abalone 25% NH_3 H_2S	Urchin Dev. 100% PW	Urchin Dev. 100% NH_3 H_2S	Urchin SWI	Urchin NH_3 H_2S	Benthic Index
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not																			
44021.0	Ventura Marina	621	na		0.77	97	67		17		na		na		14		na		na
44023.0	Channel Islands Harbor	623	0.410	p'pDDE (2), Ag (1)	0.70	70	48		na		na		na		1		na		na
44023.0	Channel Islands Harbor- R1	1207	na		1.45	82	80		na		na		na		na		na		na
44023.0	Channel Islands Harbor- R2	1208	na		1.47	88	78		na		na		na		na		na		na
44023.0	Channel Islands Harbor- R3	1209	na		0.78	60	82		na		na		na		na		na		na
48007.0	Shoreline Marina B1 (X1)	1692	0.375	Ni (1)	2.86	100	71		na		na		na		na		98		0.26
48011.0	King Harbor	1700	0.297	p'pDDE (2), TTL PCBs (1)	1.05	50	77		na		na		na		na		66		0.64
48011.0	King Harbor	1775	na		na	na	26		na		na		na		na		3	N	na
48012.0	Channel Islands Harbor- Front	1702	0.142	p'pDDE (1)	0.81	83	79		na		na		na		na		92		0.75
48012.0	Channel Islands Harbor- Front	1777	na				58		na		na		na		na		70	N	na
Category 7 - Stations with elevated chemistry, but biological measures below thresholds																			
48004.0	Marina Del Rey - B2 (X1)	1689	0.527	TTL Chl (3)	1.48	88	89		na		na		na		na		90		0.62
48005.0	Marina Del Rey - C1 (X1)	1690	1.135	p'pDDE, TPCBs(1) TTL Chlor. (11)	2.93	88	77		na		na		na		na		57	N	0.66
48006.0	Shoreline Marina A1 (X1)	1691	1.034	Zn, p'pDDE (1) TTL Chl (7), TTL PCB(3)	2.56	100	80		na		na		na		na		86		0.34
Category 8 - Stations with elevated chemistry, toxicity, and benthic degradation below thresholds																			
48008.0	Shoreline Marina C1 (X1)	1693	0.311		0.96	93	91		na		na		na		na		96		0.51
Category 9 - Reference stations																			
40021.3	Alamitos Bay- Mar. Stadium	63	0.182		1.00	39	71		0	N	8		96		na		na		na
40022.1	Alamitos Bay- Entrance	64	0.244	TTL Chl, p'p DDE (1)	1.10	77	92		0		54		97		na		na		na
40022.2	Alamitos Bay- Entrance	65	0.252	TTL Chl, p'p DDE (1)	0.90	91	92		0		0		46		na		na		na
40022.3	Alamitos Bay- Entrance	66	na		0.90	90	81		0	N	7		66		na		na		na

Table 30. ERM and PEL Quotients and Number of Sediment Quality Guideline Exceedances at Lagoon stations. Stations are ranked in descending order by ERM Quotient.

STANUM	STATION	IDORG	LEG	ERMQ	PELQ	ERM EXCDS	PEL EXCDS
44027.0	McGrath Lake Estuary	1628	45	2.92	4.01	3	4
44027.0	McGrath Lake Estuary	627	11	2.20	3.03	4	5
44027.0	McGrath Lake Estuary - Rep 1	1210	30	NA	NA	NA	NA
44027.0	McGrath Lake Estuary - Rep 2	1211	30	NA	NA	NA	NA
44027.0	McGrath Lake Estuary - Rep 3	1212	30	NA	NA	NA	NA
44017.0	Colorado Lagoon	617	11	2.27	3.38	8	14
44024.0	Ballona Creek	624	11	1.80	2.68	4	9
44024.0	Ballona Creek – Rep 3	1085	26	1.61	2.30	5	8
44024.0	Ballona Creek – Rep 1	1083	26	1.33	1.92	5	6
44024.0	Ballona Creek – Rep 2	1084	26	1.17	1.68	6	8
48017.0	East Mugu Lagoon - C1 (X1)	1707	48	0.31	0.43	2	3
48015.0	Central Mugu Lagoon - B1 (X4)	1705	48	0.28	0.40	2	2
48016.0	Central Mugu Lagoon - B2 (X3)	1706	48	0.25	0.36	2	2
48018.0	East Mugu Lagoon - C2 (X2)	1708	48	0.22	0.34	2	2
48014.0	West Mugu Lagoon - A2 (X3)	1704	48	0.14	0.21	1	2
48013.0	West Mugu Lagoon - A1 (X2)	1703	48	0.12	0.17	1	1
44054.0	Mugu/Entrance - Rep 1	1629	45	0.07	0.10	1	0
44054.0	Mugu/Entrance - Rep 1	1213	30	NA	NA	NA	NA
44054.0	Mugu/Entrance - Rep 2	1214	30	NA	NA	NA	NA
44054.0	Mugu/Entrance - Rep 3	1215	30	NA	NA	NA	NA
44054.0	Mugu/Entrance	655	11	NA	NA	NA	NA
44016.0	Mugu Lagoon	616	11	NA	NA	NA	NA
44018.0	Malibu Lagoon	618	11	NA	NA	NA	NA
44026.0	Sim's Pond	626	11	NA	NA	NA	NA
44050.0	Callegus/Oxnard Ditch #3	651	11	NA	NA	NA	NA
44051.0	Mugu/Main Lagoon	652	11	NA	NA	NA	NA
44052.0	Mugu/Western Arm	653	11	NA	NA	NA	NA
44053.0	Mugu/Oxnard Ditch #1	654	11	NA	NA	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 1	1216	30	NA	NA	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 2	1217	30	NA	NA	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 3	1218	30	NA	NA	NA	NA
44022.0	Ventura River Estuary	622	13	NA	NA	NA	NA
44025.0	Santa Clara River Estuary	625	13	NA	NA	NA	NA

Table 31. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Marina Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
44027.0	Mcgrath Lake Estuary	1628	45	NA	NA	NA	NA	81.00	9.00	*	NT
44027.0	Mcgrath Lake Estuary	627	11	16.00	11.90	*	T	NA	NA	NA	NA
44027.0	Mcgrath Lake Estuary-Rep 1	1210	30	72.00	13.51	*	NT	NA	NA	NA	NA
44027.0	Mcgrath Lake Estuary-Rep 2	1211	30	75.00	21.79	ns	NT	NA	NA	NA	NA
44027.0	Mcgrath Lake Estuary-Rep 3	1212	30	62.00	15.65	*	T	NA	NA	NA	NA
44017.0	Colorado Lagoon	617	11	NA	NA	NA	NA	5.00	8.70	*	T
44024.0	Ballona Creek	624	11	49.00	12.40	*	T	NA	NA	NA	NA
44024.0	Ballona Creek Rep3	1085	26	42.00	11.51	*	T	NA	NA	NA	NA
44024.0	Ballona Creek-Rep 1	1083	26	54.00	14.75	*	T	NA	NA	NA	NA
44024.0	Ballona Creek-Rep 2	1084	26	60.00	16.83	*	T	NA	NA	NA	NA
48017.0	East Mugu Lagoon- C1 (X1)	1707	48	NA	NA	NA	NA	78.00	9.00	*	NT
48015.0	Central Mugu Lagoon- B1 (X4)	1705	48	NA	NA	NA	NA	17.00	13.00	*	T
48016.0	Central Mugu Lagoon- B2 (X3)	1706	48	NA	NA	NA	NA	85.00	8.00	*	NT
48018.0	East Mugu Lagoon- C2 (X2)	1708	48	NA	NA	NA	NA	84.00	4.00	*	NT
48014.0	West Mugu Lagoon- A2 (X3)	1704	48	NA	NA	NA	NA	89.00	7.00	*	NT
48013.0	West Mugu Lagoon- A1 (X2)	1703	48	NA	NA	NA	NA	87.00	10.00	*	NT
44054.0	Mugu/Entrance-Rep 1	1629	45	NA	NA	NA	NA	99.00	2.00	ns	NT
44054.0	Mugu/Entrance-Rep 1	1213	30	51.00	5.48	*	T	NA	NA	NA	NA
44054.0	Mugu/Entrance-Rep 2	1214	30	69.00	6.52	*	T	NA	NA	NA	NA
44054.0	Mugu/Entrance-Rep 3	1215	30	78.00	9.08	*	NT	NA	NA	NA	NA
44054.0	Mugu/Entrance	655	11	14.00	17.80	*	T	NA	NA	NA	NA
44016.0	Mugu Lagoon	616	11	NA	NA	NA	NA	66.00	11.40	*	T
44018.0	Malibu Lagoon	618	11	NA	NA	NA	NA	87.00	9.10	*	NT
44026.0	Sim's Pond	626	11	NA	NA	NA	NA	91.00	12.40	ns	NT

Table 31 continued. Survival of Amphipods *Rhepoxynius abronius* (RA) or *Eohaustorius estuarius* (EE) in Marina Station Sediments. MN and SD = mean survival and standard deviation. * = significantly toxic using a t-test. ns = not significant. T = toxic using a t-test and relative to the MSD value for these protocols. NT = Not Toxic. NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	RA MN	RA SD	RA t-test	RA MSD	EE MN	EE SD	EE t-test	EE MSD
44050.0	Callegus/Oxnard Ditch #3	651	11	NA	NA	NA	NA	71.00	6.50	*	T
44051.0	Mugu/Main Lagoon	652	11	68.00	16.00	*	T	NA	NA	NA	NA
44052.0	Mugu/Western Arm	653	11	64.00	9.60	*	T	NA	NA	NA	NA
44053.0	Mugu/Oxnard Ditch #1	654	11	35.00	15.00	*	T	NA	NA	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 1	1216	30	61.00	14.32	*	T	NA	NA	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 2	1217	30	61.00	18.17	*	T	NA	NA	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 3	1218	30	47.00	13.04	*	T	NA	NA	NA	NA
44022.0	Ventura River Estuary	622	13	NA	NA	NA	NA	97.00	2.70	*	NT
44025.0	Santa Clara River Estuary	625	13	NA	NA	NA	NA	99.00	2.20	ns	NT

Table 32. Spearman Rank Correlation Coefficients for selected chemicals significantly correlated with amphipod survival at Lagoon stations. * indicates significance at $p \leq 0.05$; ** indicates significance at $p \leq 0.01$; *** indicates significance at $p \leq 0.001$; N = 12 or 14 depending on chemical.

Chemical	Spearman rho	Significance
Metals		
Antimony	-0.543	*
Copper	-0.574	*
Mercury	-0.552	*
Silver	-0.495	*
Zinc	-0.673	*
Tin	-0.745	**
Pesticides		
Total Chlordane	-0.780	***
Total DDT	-0.490	*
Dieldrin	-0.833	***
PCBs		
PCB18	-0.487	*
PCB52	-0.482	*
PCB66	-0.474	*
PCB105	-0.501	*
PCB138	-0.490	*
PAHs		
Benzo)a)pyrene	-0.735	**
Benzo(e)pyrene	-0.767	**
Chrysene	-0.732	**
Fluoranthene	-0.697	**
1-Methylphenanthrene	-0.794	***
Phenanthrene	-0.771	***
LMW PAH	-0.692	**
HMW PAH	-0.670	**
Total PAHs	-0.675	**
Fines	-0.345	NS
TOC	-0.420	NS
ERM Quotient	-0.763	**
# ERM Exceedances	-0.783	***

Table 33. Relative Benthic Index values for Lagoon stations. Station categories were D = Degraded (RBI≤0.30); T = Transitional (RBI>0.31≤0.60); U = Undegraded (RBI >0.61). NA = Not Analyzed.

STANUM	STATION	IDORG	LEG	Benthic Index	Category
44027.0	McGrath Lake Estuary	1628	45	NA	NA
44027.0	McGrath Lake Estuary	627	11	NA	NA
44027.0	McGrath Lake Estuary - Rep 1	1210	30	NA	NA
44027.0	McGrath Lake Estuary - Rep 2	1211	30	NA	NA
44027.0	McGrath Lake Estuary - Rep 3	1212	30	NA	NA
44017.0	Colorado Lagoon	617	11	NA	NA
44024.0	Ballona Creek	624	11	NA	NA
44024.0	Ballona Creek - Rep3	1085	26	NA	NA
44024.0	Ballona Creek - Rep 1	1083	26	NA	NA
44024.0	Ballona Creek - Rep 2	1084	26	NA	NA
48017.0	East Mugu Lagoon - C1 (X1)	1707	48	0.01	D
48015.0	Central Mugu Lagoon - B1 (X4)	1705	48	0.14	D
48016.0	Central Mugu Lagoon - B2 (X3)	1706	48	0.03	D
48018.0	East Mugu Lagoon - C2 (X2)	1708	48	0.03	D
48014.0	West Mugu Lagoon - A2 (X3)	1704	48	0	D
48013.0	West Mugu Lagoon - A1 (X2)	1703	48	0.13	D
44054.0	Mugu/Entrance - Rep 1	1629	45	NA	NA
44054.0	Mugu/Entrance - Rep 1	1213	30	NA	NA
44054.0	Mugu/Entrance - Rep 2	1214	30	NA	NA
44054.0	Mugu/Entrance - Rep 3	1215	30	NA	NA
44054.0	Mugu/Entrance	655	11	NA	NA
44016.0	Mugu Lagoon	616	11	NA	NA
44018.0	Malibu Lagoon	618	11	NA	NA
44026.0	Sim's Pond	626	11	NA	NA
44050.0	Callegus/Oxnard Ditch #3	651	11	NA	NA
44051.0	Mugu/Main Lagoon	652	11	NA	NA
44052.0	Mugu/Western Arm	653	11	NA	NA
44053.0	Mugu/Oxnard Ditch #1	654	11	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 1	1216	30	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 2	1217	30	NA	NA
44053.0	Mugu/Oxnard Ditch #1 - Rep 3	1218	30	NA	NA
44022.0	Ventura River Estuary	622	13	NA	NA
44025.0	Santa Clara River Estuary	625	13	NA	NA

Table 34. Results of tissue analyses of fish collected from Mugu Lagoon. Tissue concentrations are shown for those chemicals that were elevated relative to the US EPA screening values (Total DDT and Total PCBs only, as ng/g wet weight).

Station Number	Station Name	IDORG	Fish Species	TTL DDT (ng/g)	TTL DDT Quot.	TTL PCB (ng/g)	TTL PCB Quot.	EPA Exceeds	% Lipid
44016.0	Mugu Lagoon	283	Topsmelt	15.98	0.053	5.024	0.502	0	0.52
44016.0	Mugu Lagoon	284	Shiner Surfperch	133.53	0.445	17.126	1.713	1	1.08
NAS	Wildlife Guideline (whole fish)			50		500			
USEPA	Screening Value (edible portion)			300		10			

Table 35. Categorization of Los Angeles Region Lagoon stations based on chemistry, toxicity and benthic analysis. Shading indicates significant toxicity or benthic degradation. NA = Not Analyzed; N = ammonia concentrations greater than threshold effect value; PW = Pore Water; SSW = Subsurface Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected chemicals and factors by which the exceed ERM values	% TOC	% Fines	Amphipod % Surv	Amphipod NH_3 H_2S	Urch. Dev 100% PW	Urch. Dev NH_3 H_2S	Ab. Dev 100% PW	Ab. Dev NH_3 H_2S	Mussel Dev 100% PW	Mussel Dev NH_3 H_2S	Mussel Dev 100% SSW	Mussel Dev NH_3 H_2S	Urchin SWI	Urchin NH_3 H_2S	Benthic Index
Category 4 - Stations with elevated chemistry and biological impacts measured by either toxicity or benthos.																			
44017.0	Colorado Lagoon	617	2.271	TTL PCB (1), TTL Chlr (22) Dieldrin (3), p'pDDE (3) Pb, Zn (2), Phen (1)	1.90	30	5		na		na		0	N	77		na		na
44024.0	Ballona Creek	624	1.799	TTL Chlor (18)	3.00	65	49	N	0	N	na		na		59		na		na
44024.0	Ballona Creek- R1	1083	1.327	p'pDDE (4)	5.06	52	54		na		na		na		na		na		na
44024.0	Ballona Creek- R2	1084	1.169	TTL DDT, Dieldrin (3)	5.30	66	60		na		na		na		na		na		na
44024.0	Ballona Creek- R3	1085	1.607	Chlorpyr (>95th)	5.67	74	42		na		na		na		na		na		na
44027.0	McGrath Lake Estuary	627	2.196	TTL Chlor (25)	1.00	97	16		na		na		4	N	73		na		na
44027.0	McGrath Lake Estuary- R1	1210	na	p'p DDE (57)	0.81	20	72		na		na		na		na		na		na
44027.0	McGrath Lake Estuary- R2	1211	na	Dieldrin, TTL DDT (3)	0.54	12	75		na		na		na		na		na		na
44027.0	McGrath Lake Estuary- R3	1212	na	Toxaphen. (>90th)	1.81	51	62		na		na		na		na		na		na
44027.0	McGrath Lake Estuary	1628	2.916	Endosulf. (95th)	2.46	90	81		90		na		na		na		na		na
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not measured.																			
44016.0	Mugu Lagoon	616	na		0.73	64	66		na		na		100		74		na		na
44018.0	Malibu Laboon	618	na		0.93	98	87		na		na		100		42		na		na
44026.0	Sim's Pond	626	na		2.40	83	91		na		na		47	N	72		na		na
44050.0	Callegus/Oxnard Ditch 3	651	na		0.45	63	71		na		na		na		na		na		na
44051.0	Mugu- Main Lagoon	652	na		0.76	92	68		75		12		na		na		na		na
44052.0	Mugu- Western Arm	653	na		0.66	99	64		10		na		na		na		na		na

Table 35 continued. Categorization of Los Angeles Region Lagoon stations based on chemistry, toxicity and benthic analysis. Shading indicates significant toxicity or benthic degradation. NA = Not Analyzed; N = ammonia concentrations greater than threshold effect value; PW = Pore Water; SSW = Subsurface Water; SWI = Sediment-Water Interface.

Station Number	Station Name	IDOrg	ERMQ	Selected chemicals and factors by which the exceed ERM values	% TOC	% Fines	Amphipod % Surv	Amphipod NH_3 H_2S	Urch. Dev 100% PW	Urch. Dev NH_3 H_2S	Ab. Dev 100% PW	Ab. Dev NH_3 H_2S	Mussel Dev 100% PW	Mussel Dev NH_3 H_2S	Mussel Dev 100% SSW	Mussel Dev NH_3 H_2S	Urchin SWI	Urchin NH_3 H_2S	Benthic Index
Category 6 - Stations with measured biological impact but chemistry values below thresholds or not measured.																			
44053.0	Mugu/Oxnard Ditch 1	654	na		1.10	91	35		0		na		na		na		na		na
44053.0	Mugu/Oxnard Ditch 1- R1	1216	na		2.79	84	61		na		na		na		na		na		na
44053.0	Mugu/Oxnard Ditch 1- R2	1217	na		2.96	85	61		na		na		na		na		na		na
44053.0	Mugu/Oxnard Ditch 1- R3	1218	na		2.71	93	47		na		na		na		na		na		na
44054.0	Mugu- Entrance	655	na		0.70	80	14	N	0	N	na		na		na		na		na
44054.0	Mugu- Entrance- R1	1213	na		0.76	45	51		na		na		na		na		na		na
44054.0	Mugu- Entrance- R2	1214	na		0.38	21	69		na		na		na		na		na		na
44054.0	Mugu- Entrance- R3	1215	na		0.33	21	78		na		na		na		na		na		na
44054.0	Mugu- Entrance- R1	1629	0.068	p'p DDE (1)	0.50	19	99		0	NS	na		na		na		na		na
48013.0	West Mugu Lagoon- A1 (X2)	1703	0.120	p'p DDE (1)	0.65	38	87		na		na		na		na		97		0.13
48014.0	West Mugu Lagoon- A2 (X2)	1704	0.142	p'p DDE (2)	0.91	37	89		na		na		na		na		82		0.00
48015.0	Central Mugu Lagoon- B1 (X4)	1705	0.280	TTL Chlr (2), p'pDDE (5) Chlorpyr. (90th)	0.56	82	17		na		na		na		na		98		0.14
48016.0	Central Mugu Lagoon- B2 (X3)	1706	0.252	TTL Chlr (2), p'pDDE (4)	1.16	77	85		na		na		na		na		89		0.03
48017.0	East Mugu Lagoon- C1 (X1)	1707	0.307	TTL Chlr (2), p'pDDE (6)	1.74	100	78		na		na		na		na		13		0.01
48018.0	East Mugu Lagoon- C2 (X2)	1708	0.221	TTL Chlr (1), p'pDDE (5)	1.10	61	84		na		na		na		na		22	N	0.03
Category 9 - Reference Stations																			
44022.0	Ventura River Estuary	622	na		1.80	83	97		na		na		100		100		na		na
44025.0	Santa Clara River Estuary	625	na		0.05	79	99		na		na		100		100		na		na

Table 35 continued. Categorization of Los Angeles Region Lagoon stations based on tissue chemistry analysis of field collected fish. Quotient value are derived from ratio of measured concentrations to US EPA screening values for Total DDT and PCBs (refer to Table 34).

Station Number	Station Name	IDORG	Fish Species	TTL DDT	TTL DDT Quot.	TTL PCB	TTL PCB Quot.	EPA Exceeds
Category 3 - Stations where field collected animals had elevated tissue concentrations								
44016.0	Mugu Lagoon	283	Topsmelt	15.98	0.053	5.024	0.502	0
44016.0	Mugu Lagoon	284	Shiner Surfperch	133.53	0.445	17.126	1.713	1

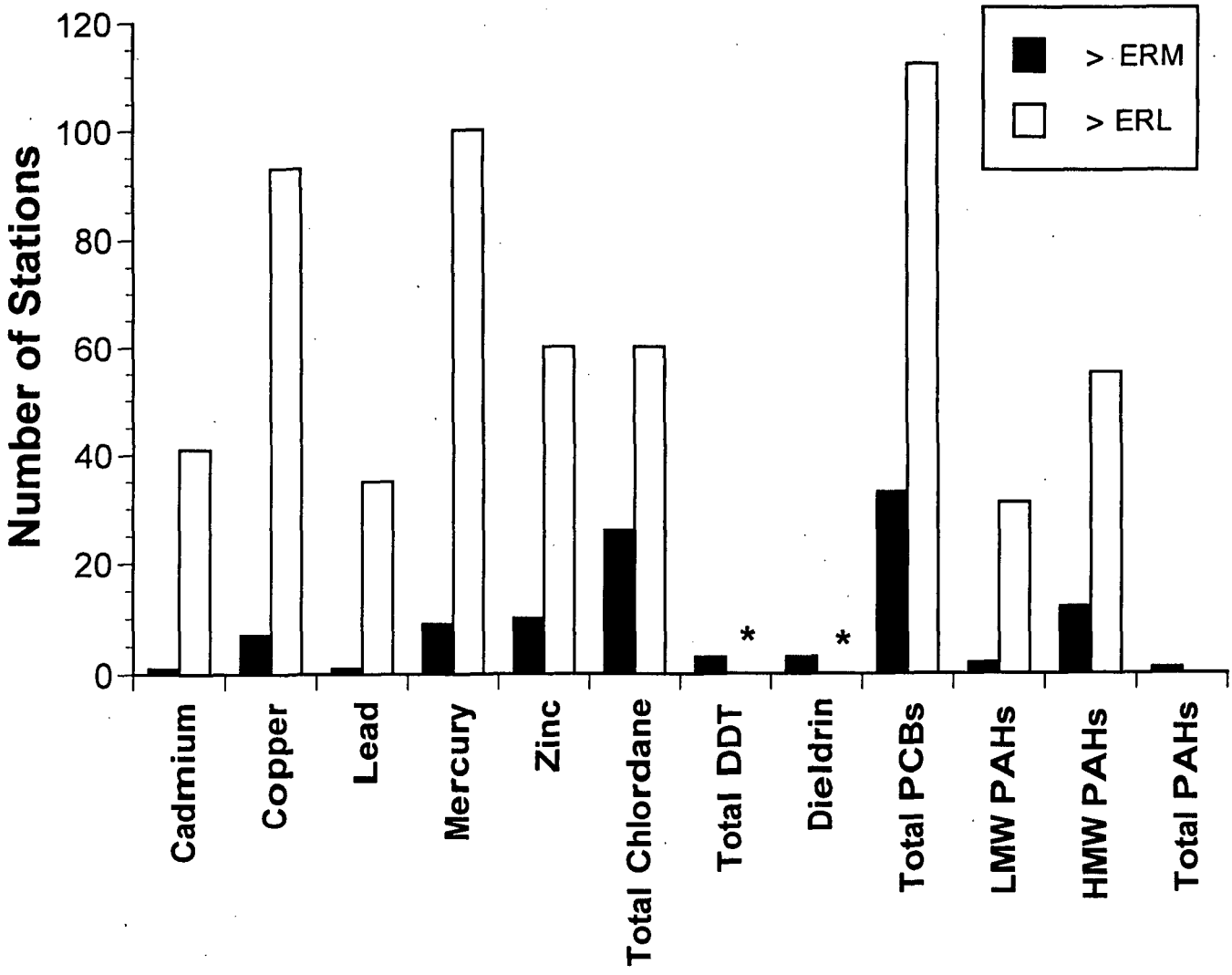
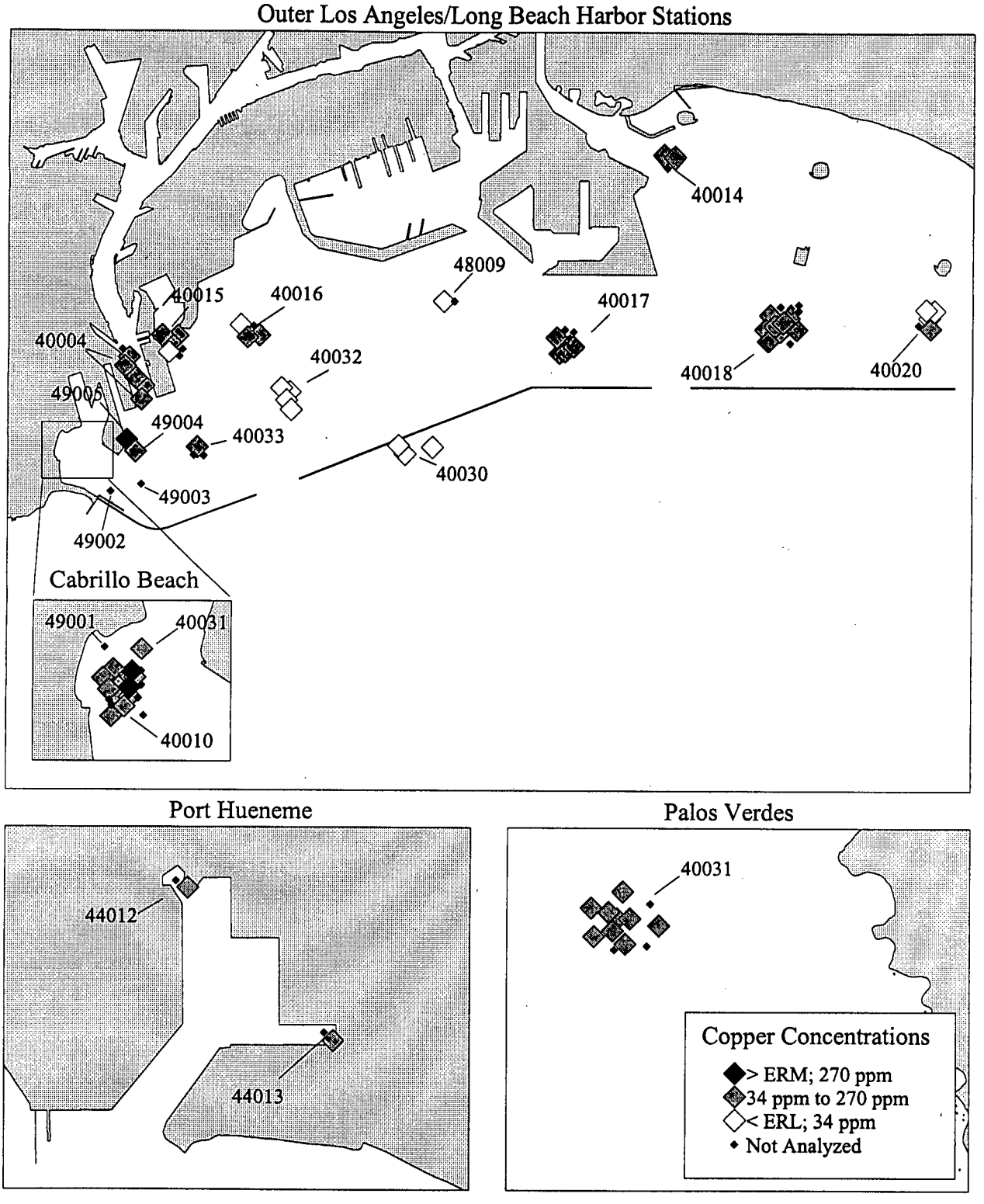
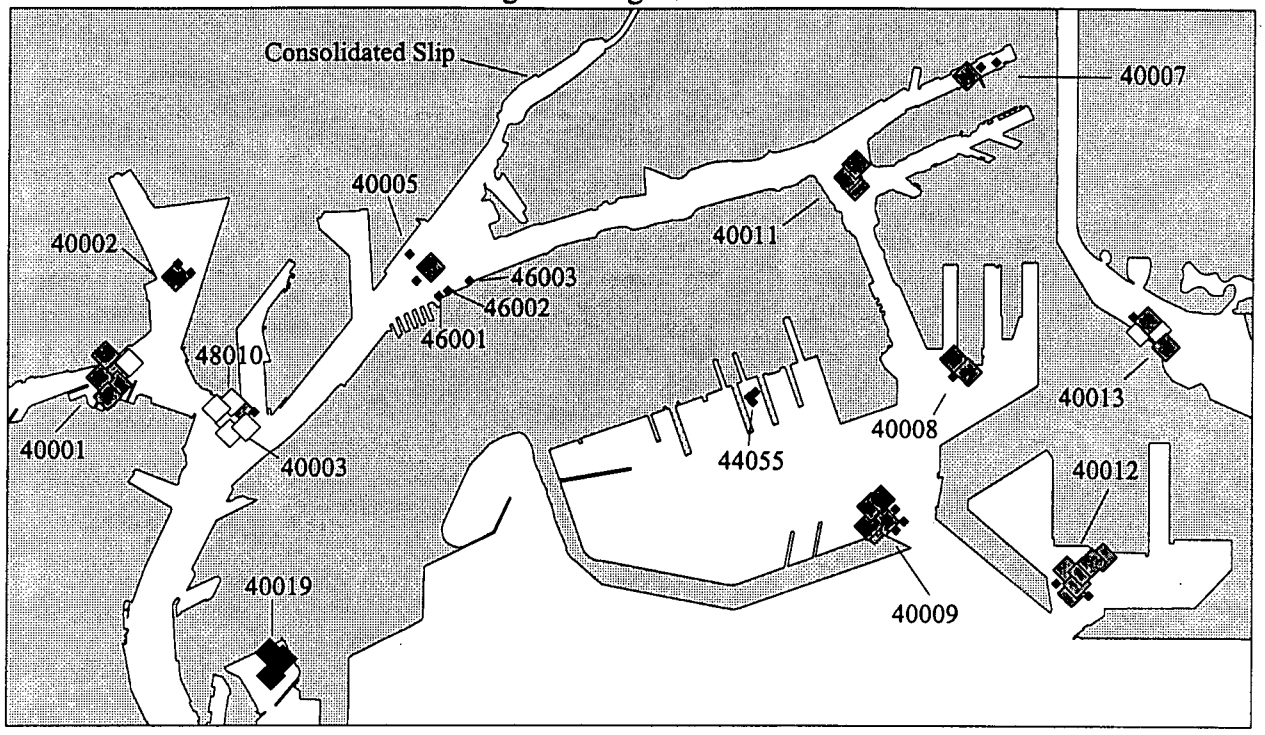


Figure 10 . Number of Industrial Harbor station samples exceeding either the ERM or ERL sediment quality guidelines. (Total DDT was compared to the Swartz *et al.* sediment effect concentration, 100 ug/g OC. * no ERL exceedances were calculated for Total DDT or Dieldrin; see text for details).

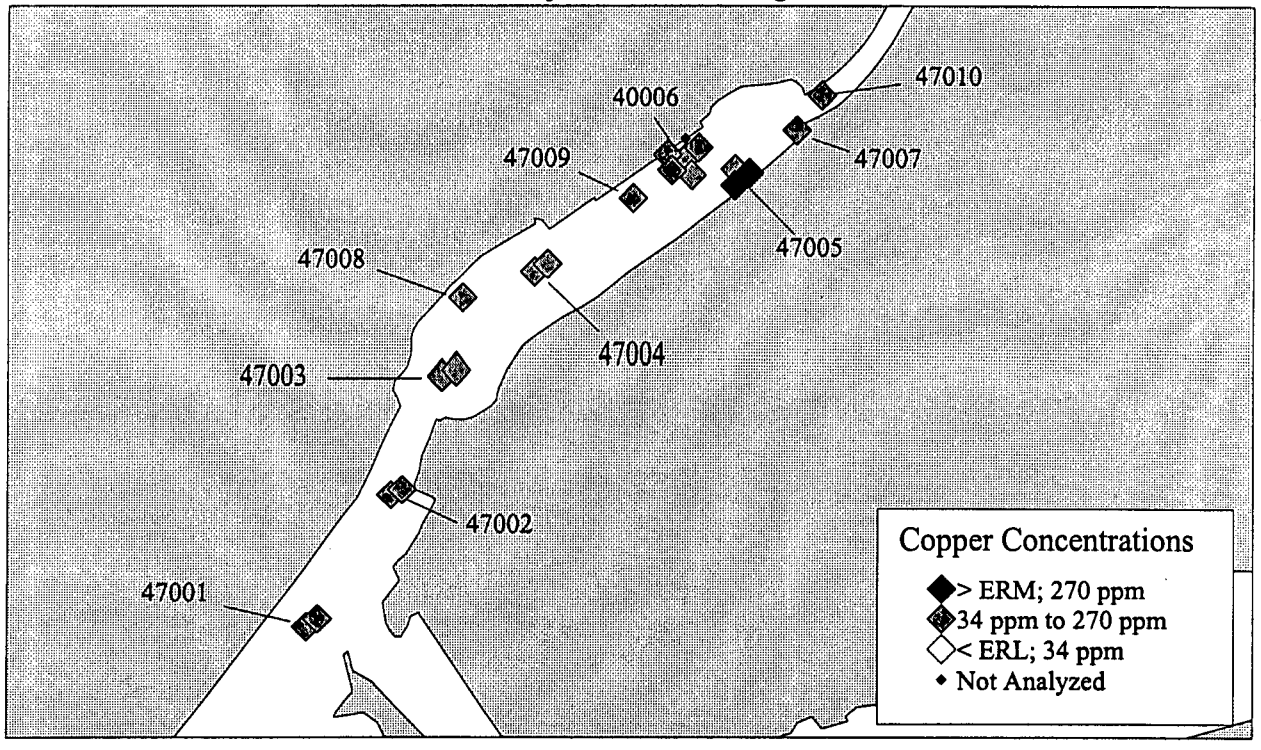


Figures 11a, 11b, and 11c. Distribution of sediment samples in Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c) exceeding the ERM for Copper.

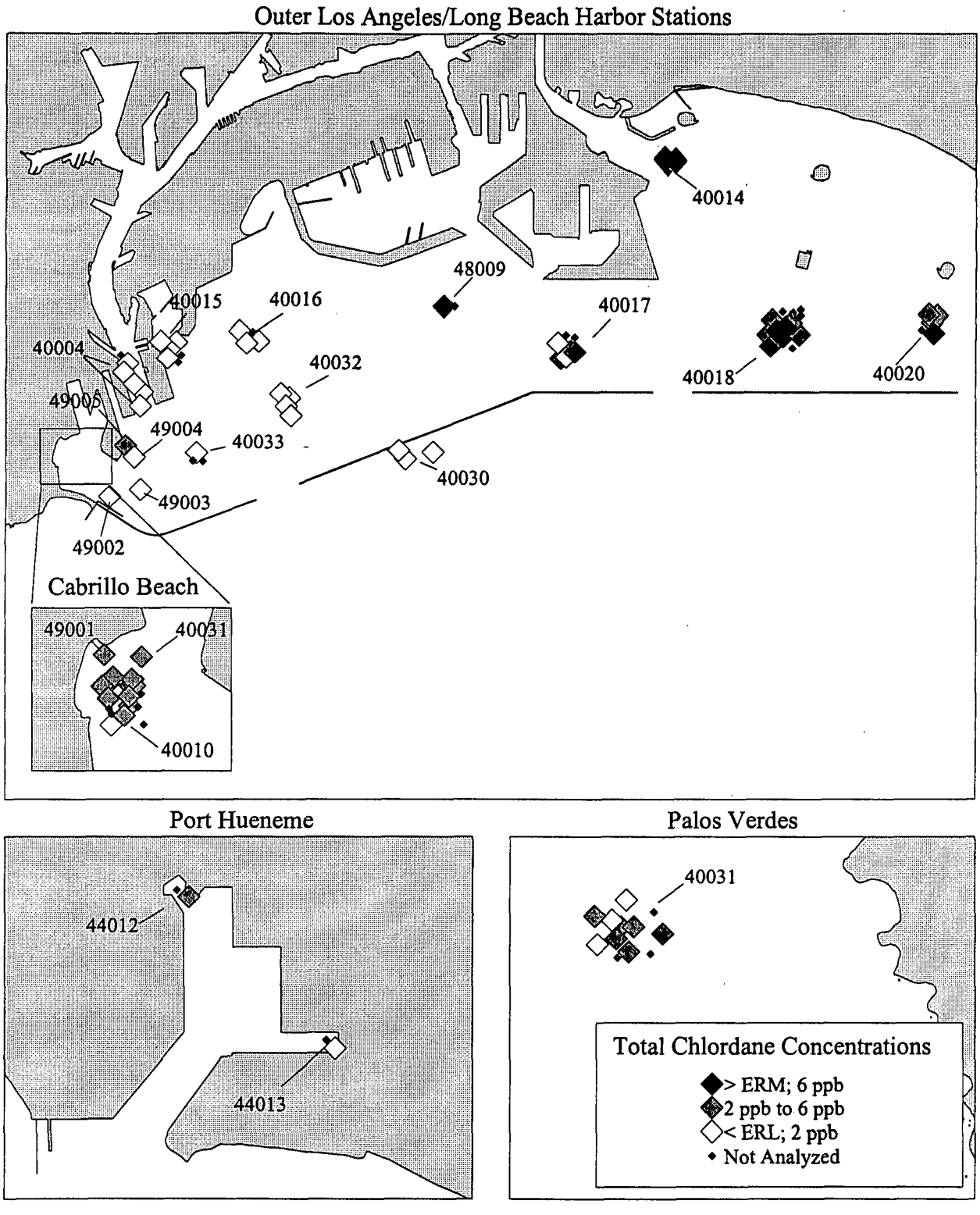
Inner Los Angeles/Long Beach Harbor Stations



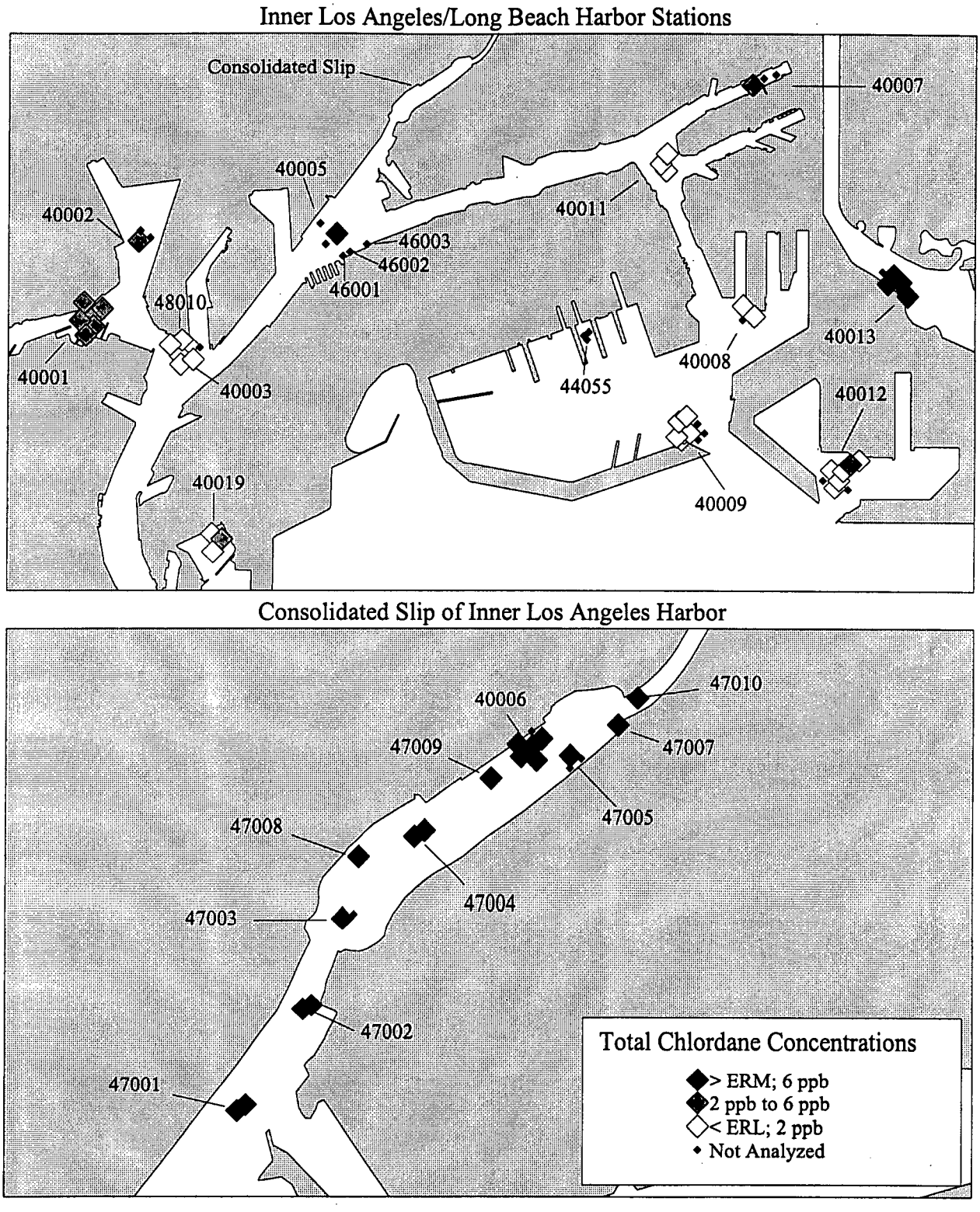
Consolidated Slip of Inner Los Angeles Harbor



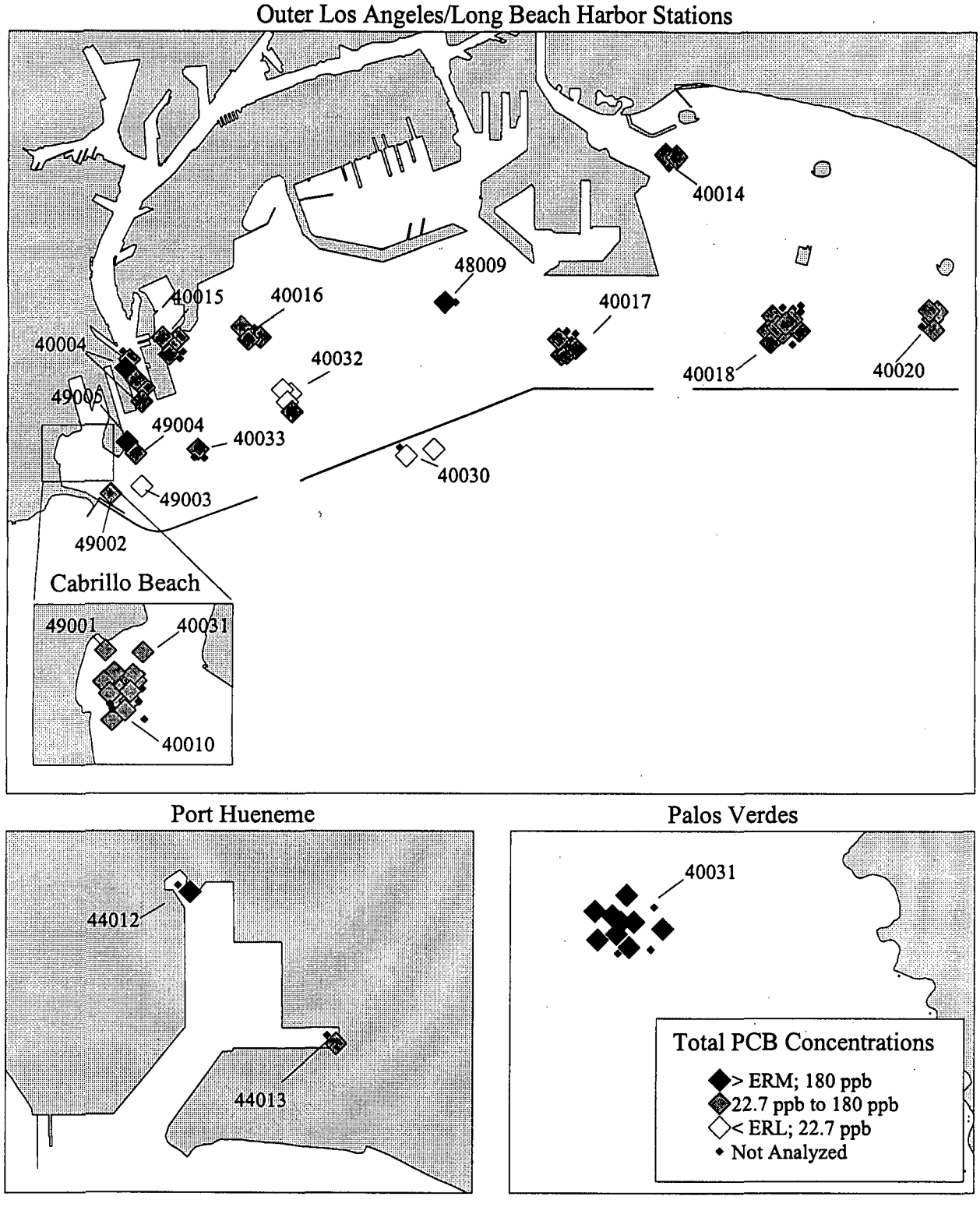
Figures 12a and 12b. Distribution of sediment samples in Inner Los Angeles and Long Beach Harbor (a) and Consolidated Slip (b) exceeding the ERM for Copper.



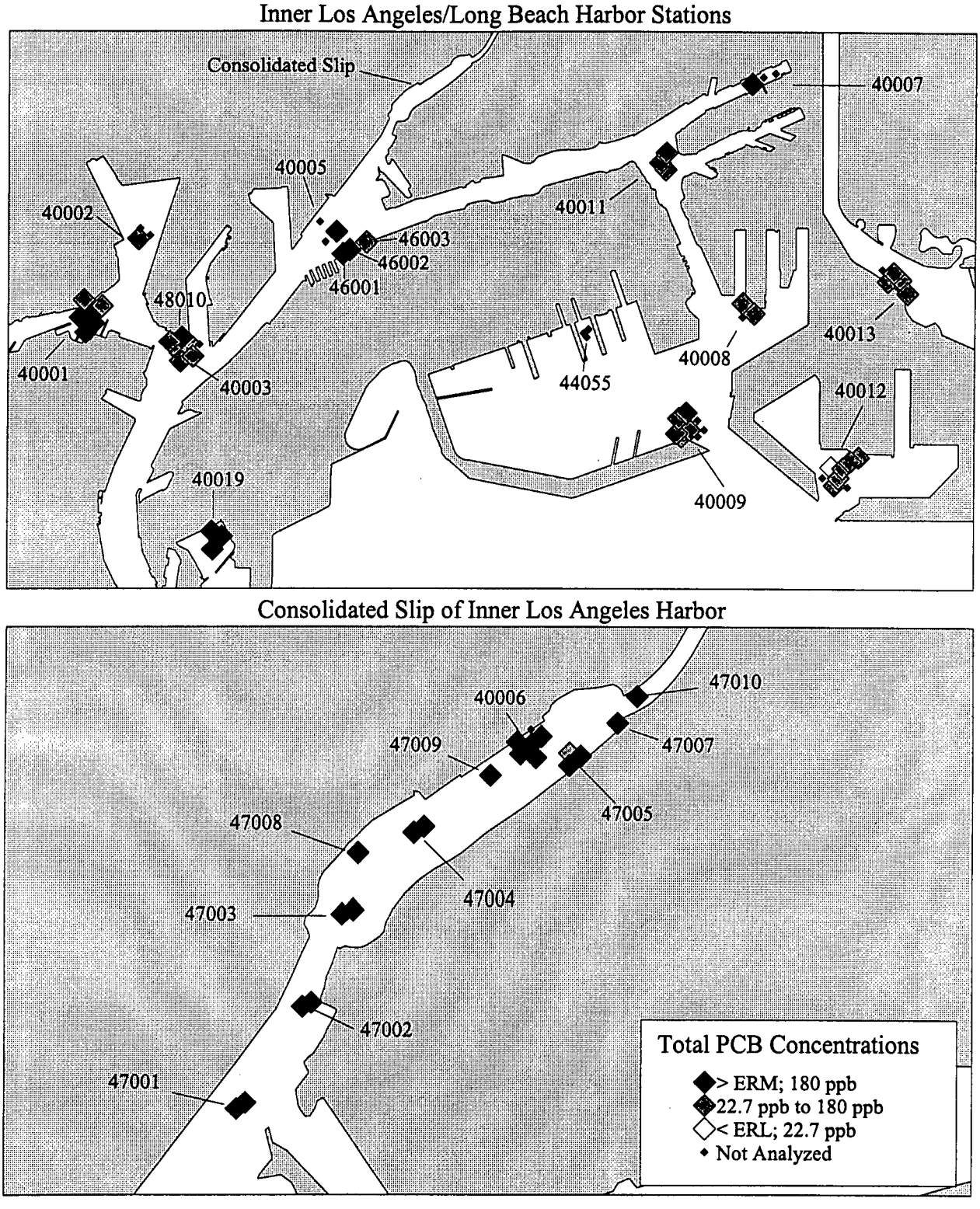
Figures 13a, 13b, and 13c. Distribution of sediment samples in Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c) exceeding the ERM for Total Chlordane.



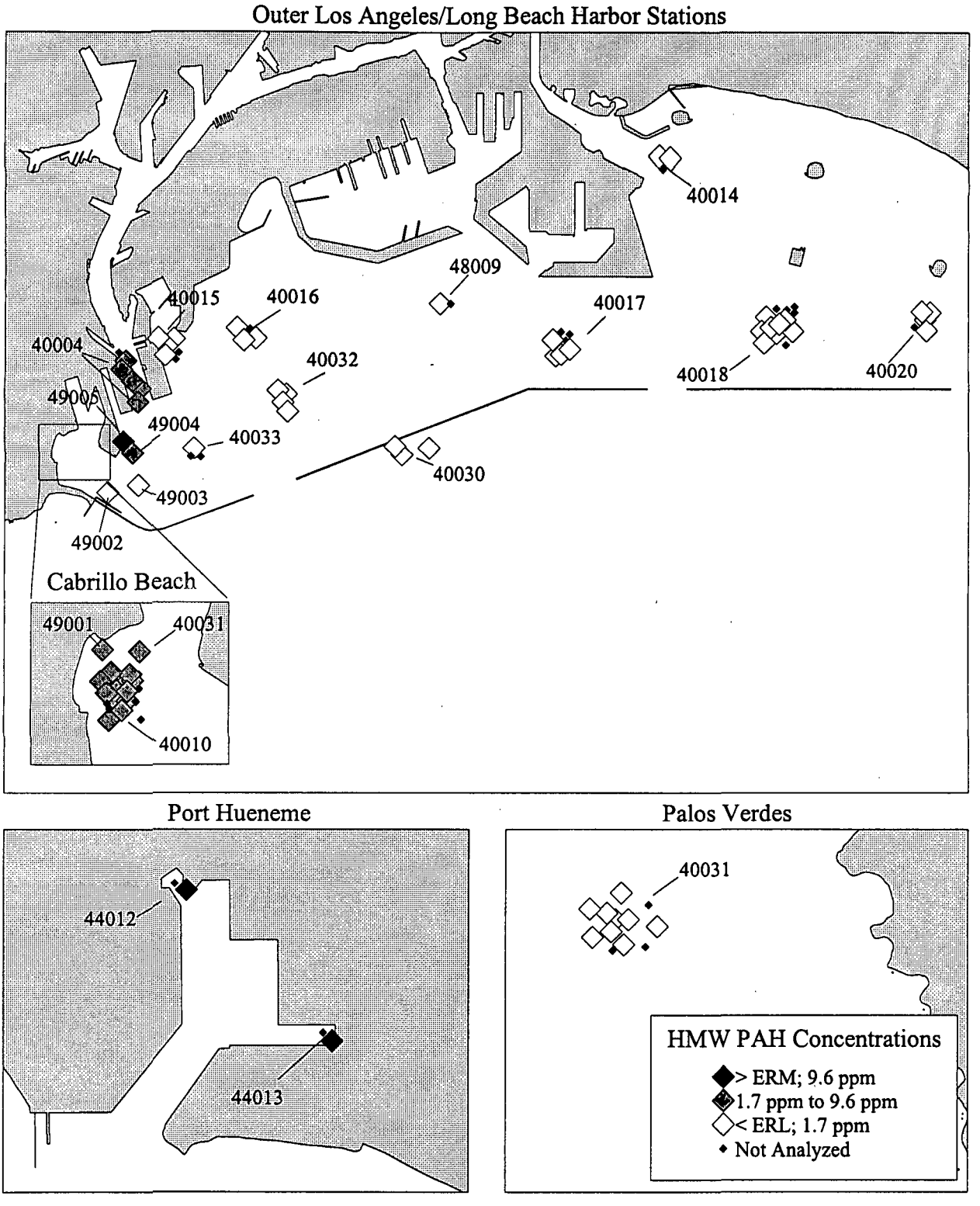
Figures 14a and 14b. Distribution of sediment samples in Inner Los Angeles and Long Beach Harbor (a), and Consolidated Slip (b), exceeding the ERM for Total Chlordane.



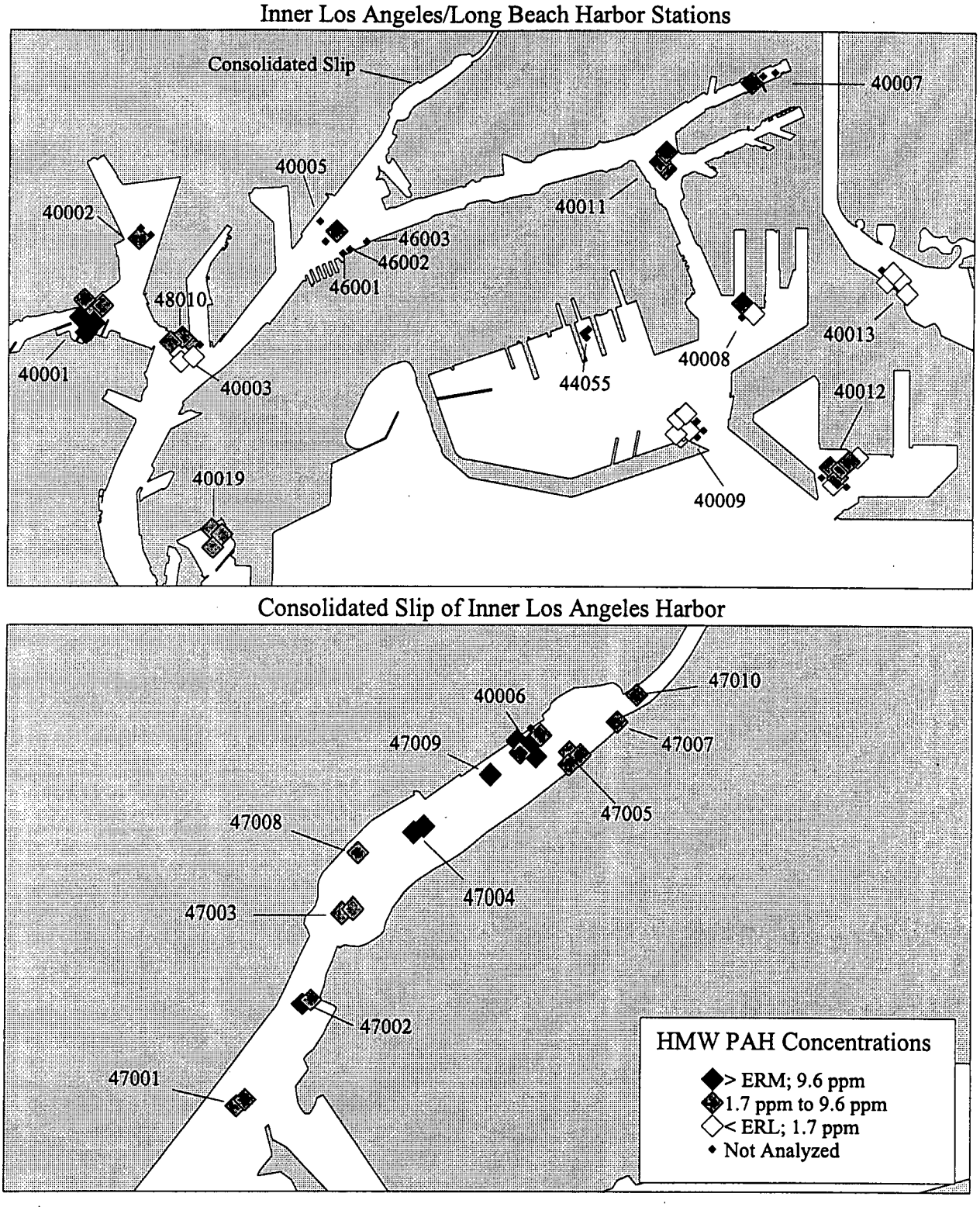
Figures 15a, 15b, and 15c. Distribution of sediment samples in Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c) exceeding the ERM for Total PCB.



Figures 16a and 16b. Distribution of sediment samples in Inner Los Angeles and Long Beach Harbor (a), and Consolidated Slip (b), exceeding the ERM for Total PCB.



Figures 17a, 17b, and 17c. Distribution of sediment samples in Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c) exceeding the ERM for High Molecular Weight PAH.



Figures 18a and 18b. Distribution of sediment samples in Inner Los Angeles and Long Beach Harbor (a), and Consolidated Slip (b), exceeding the ERM for High Molecular Weight PAH.

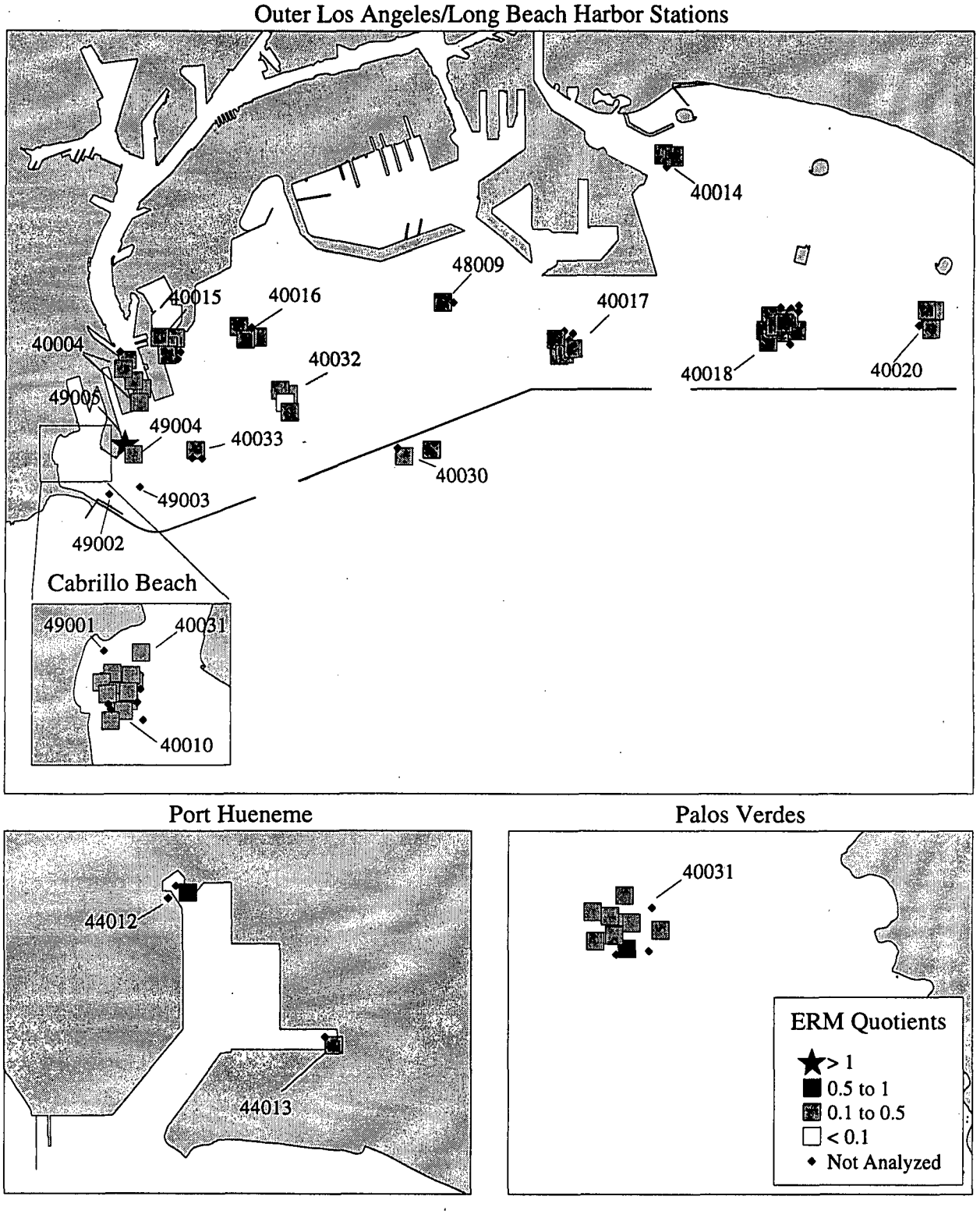
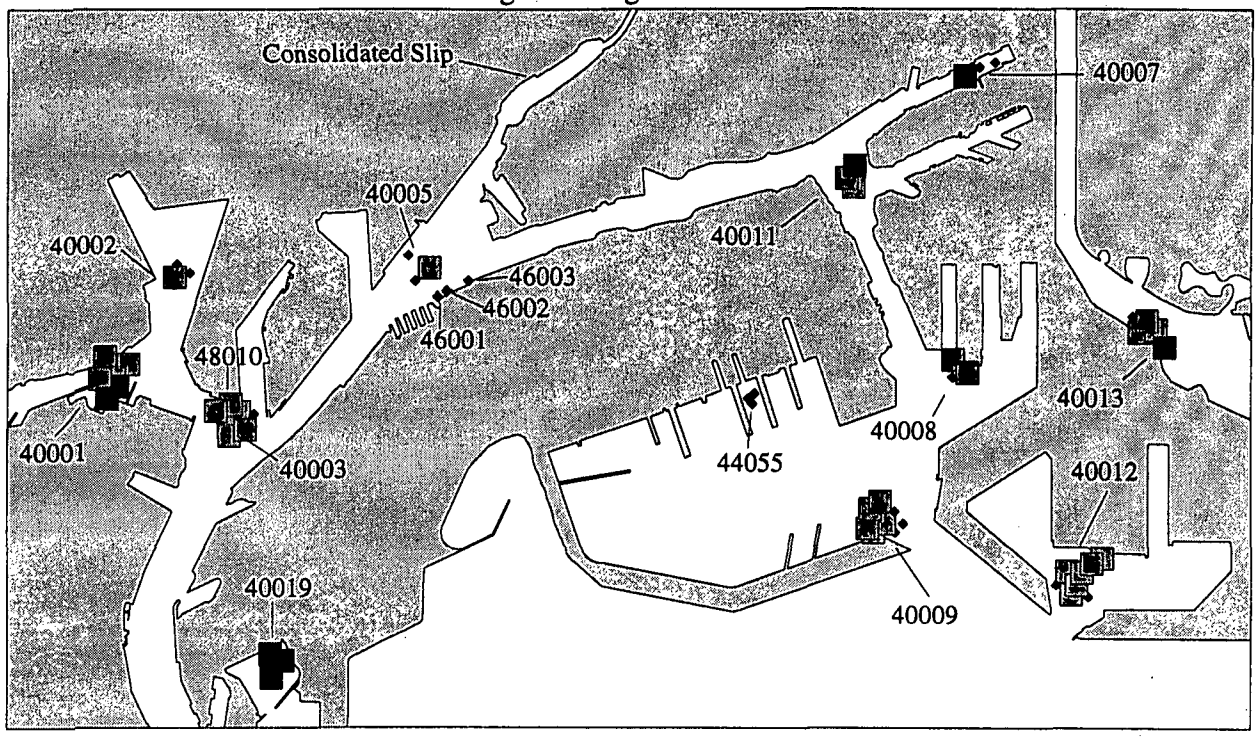
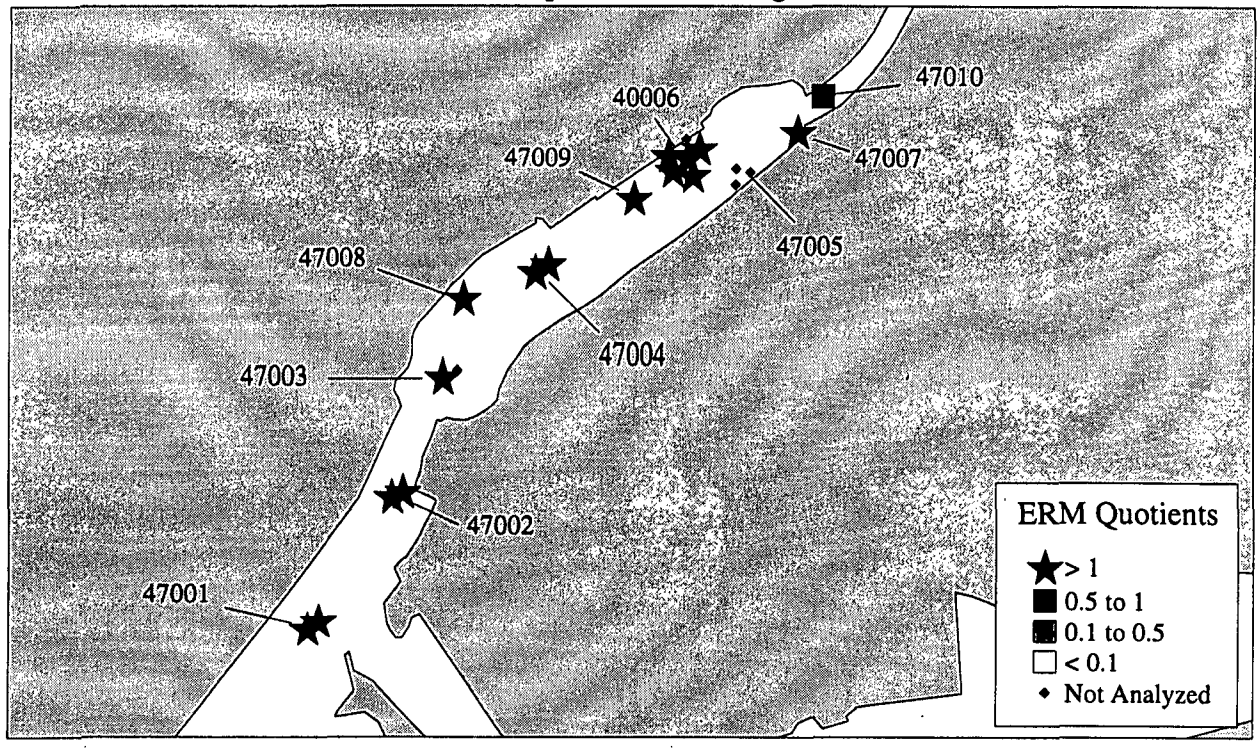


Figure 19a, 19b, and 19c. ERM Quotient values at Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c), Sampling Stations.

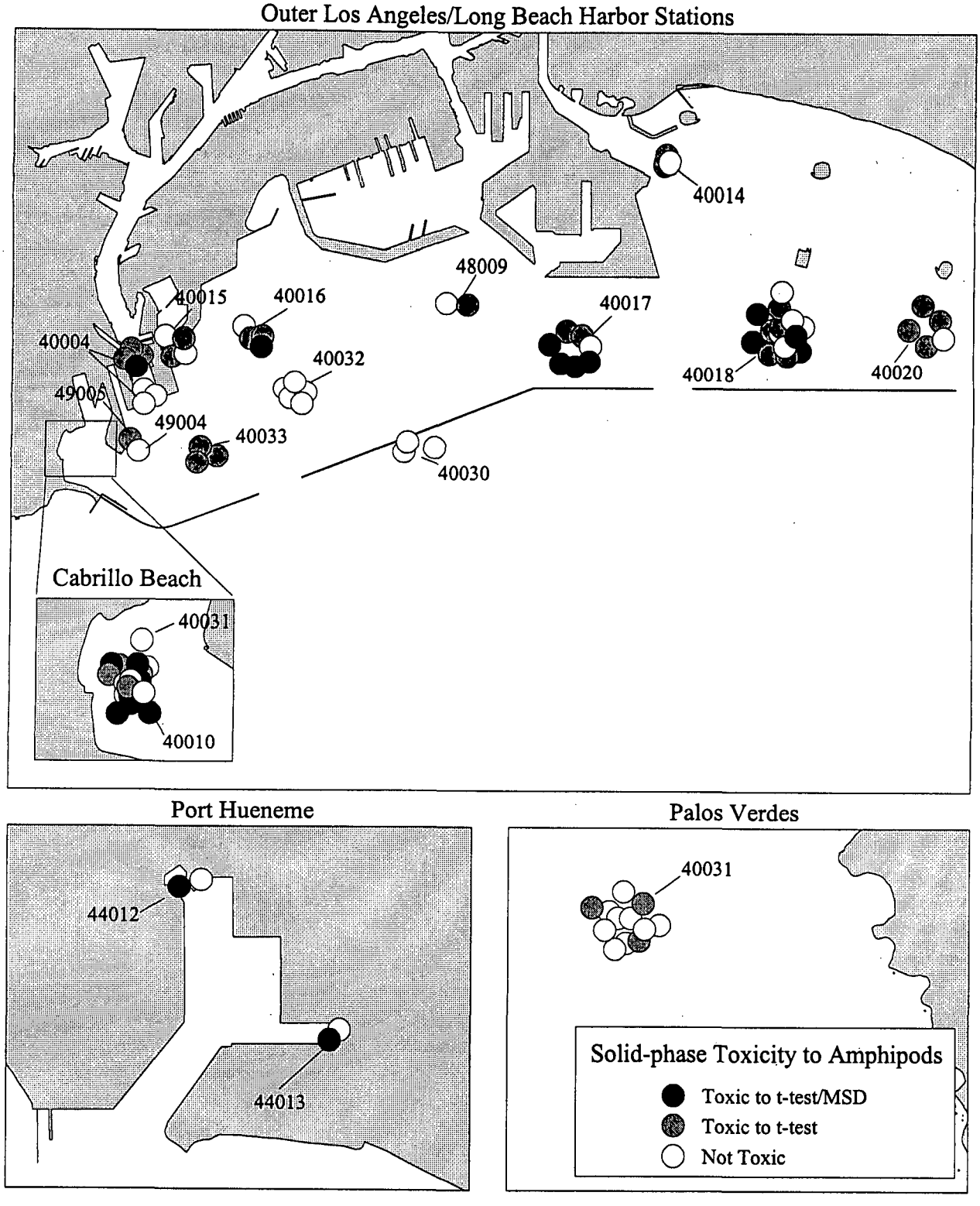
Inner Los Angeles/Long Beach Harbor Stations



Consolidated Slip of Inner Los Angeles Harbor

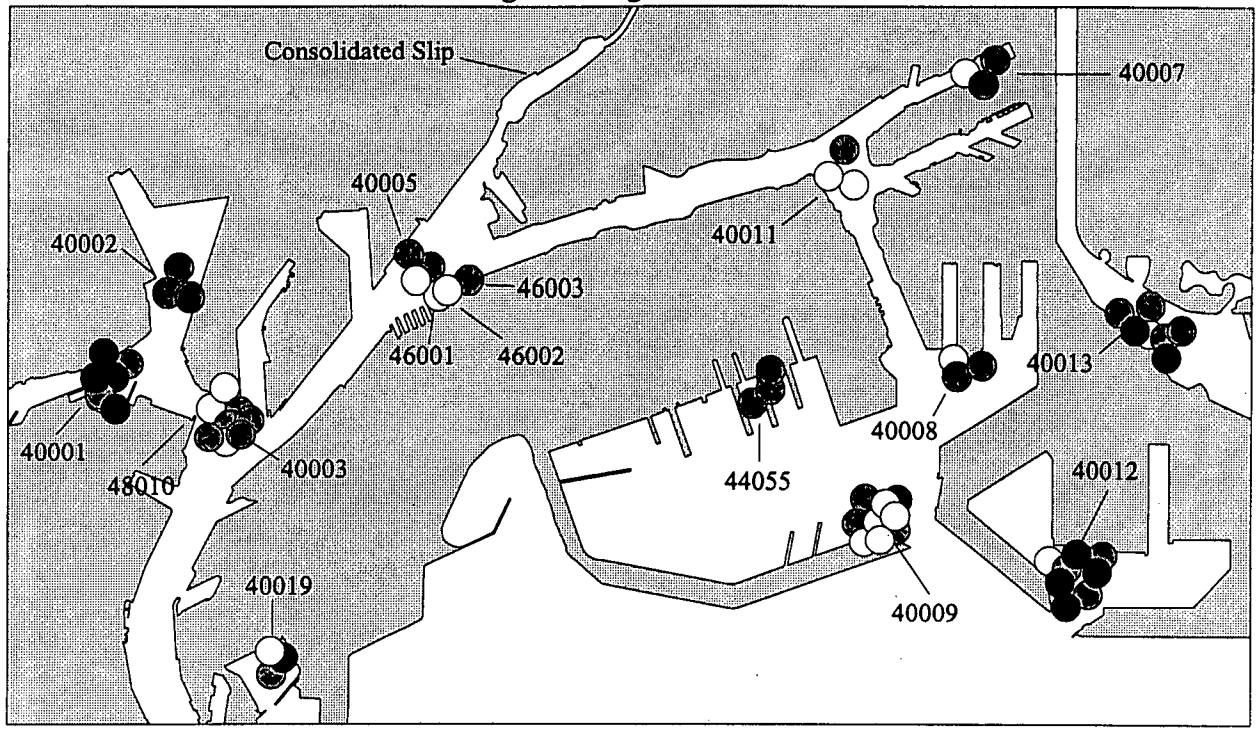


Figures 20a and 20b. ERM Quotient values at Inner Los Angeles and Long Beach Harbor (a), and Consolidated Slip (b), Sampling Stations.

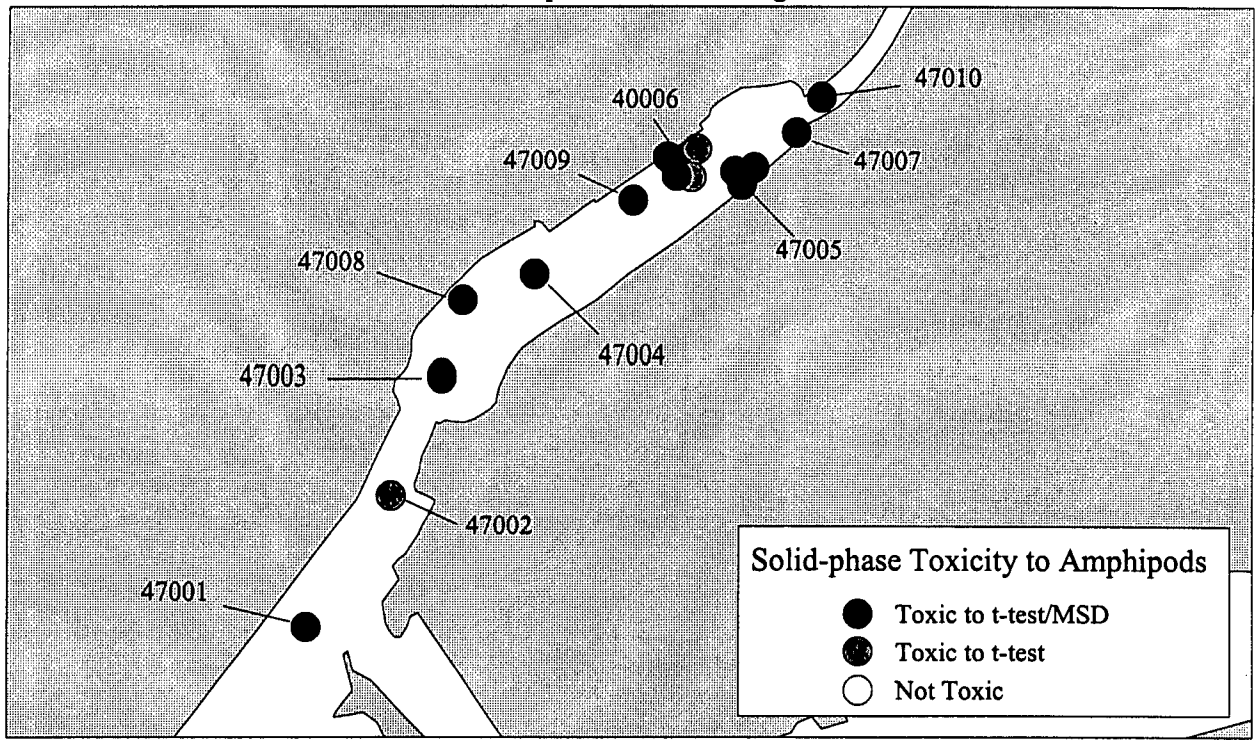


Figures 21a, 21b, and 21c. Toxicity of Sediment Samples in Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c).

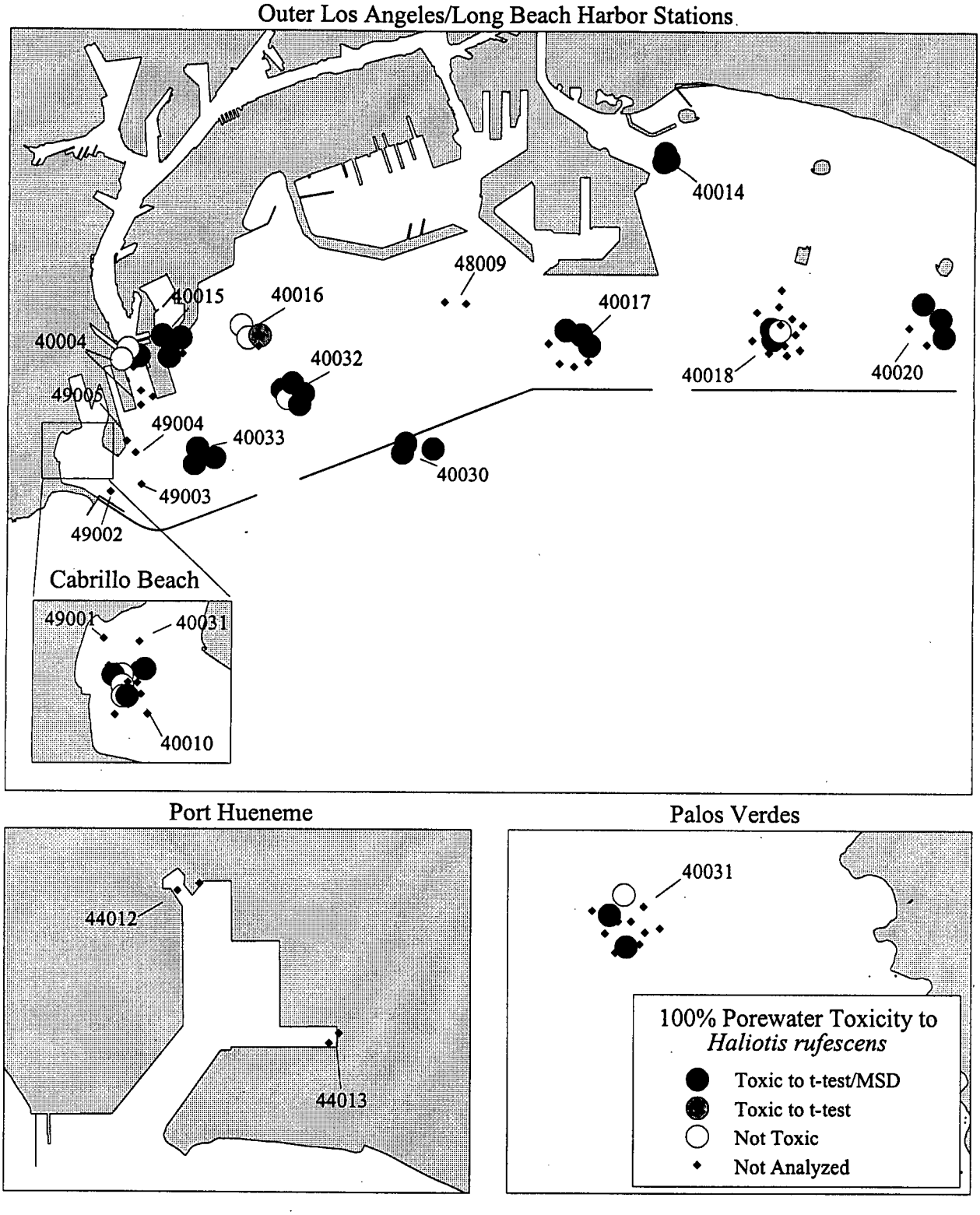
Inner Los Angeles/Long Beach Harbor Stations



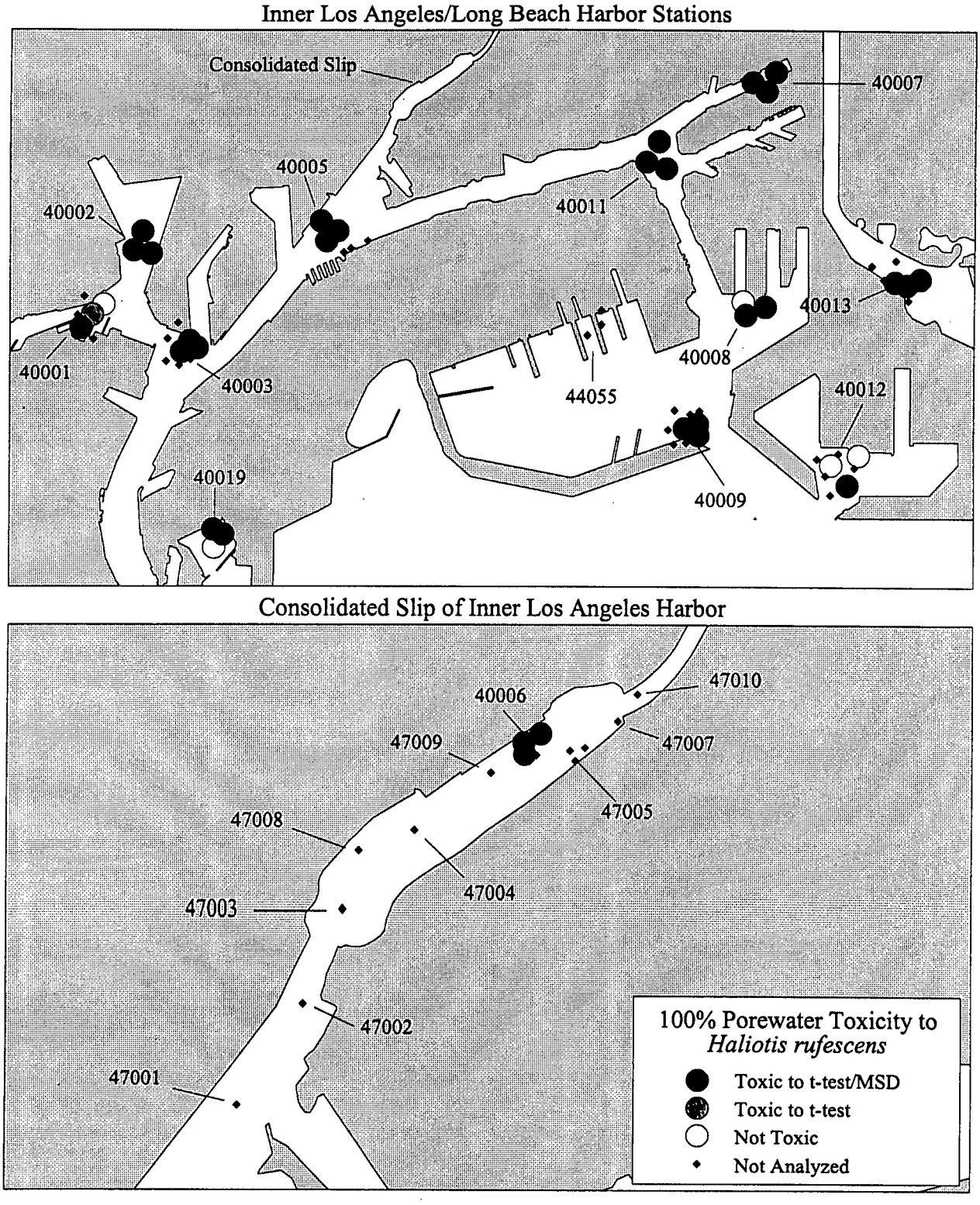
Consolidated Slip of Inner Los Angeles Harbor



Figures 22a and 22b. Toxicity of Sediment Samples in Inner Los Angeles and Long Beach Harbor (a), and Consolidated Slip (b).



Figures 23a, 23b, and 23c. Toxicity of Porewater Samples in Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c).



Figures 24a and 24b. Toxicity of Porewater Samples in Inner Los Angeles and Long Beach Harbor (a), and Consolidated Slip (b).

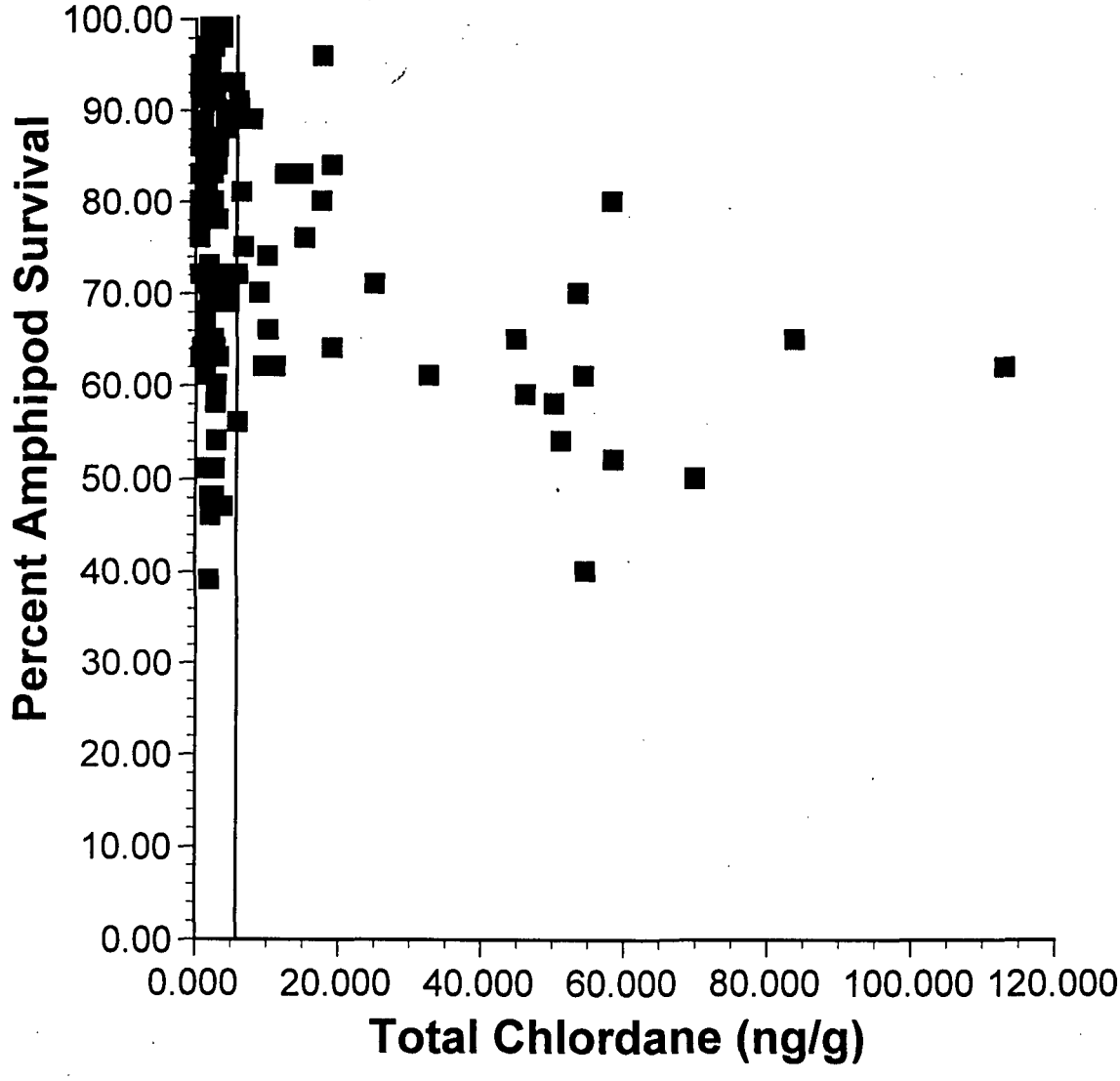


Figure 25. Amphipod survival at Industrial Harbor stations in relation to Total Chlordane concentrations. Vertical line indicates ERM value.

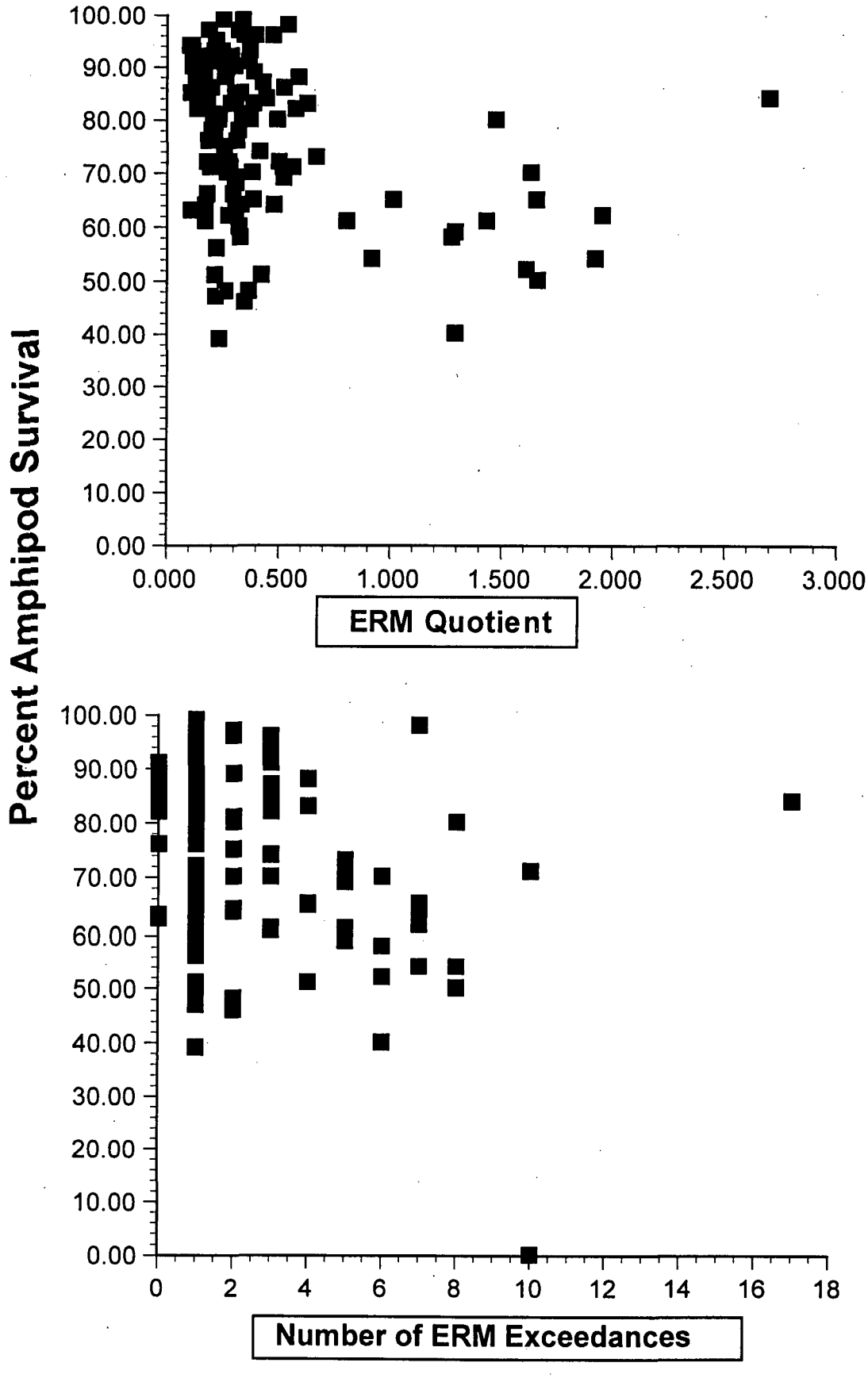


Figure 26. Amphipod survival at Industrial Harbor stations in relation to average ERM Quotient and Number of ERM Exceedances.

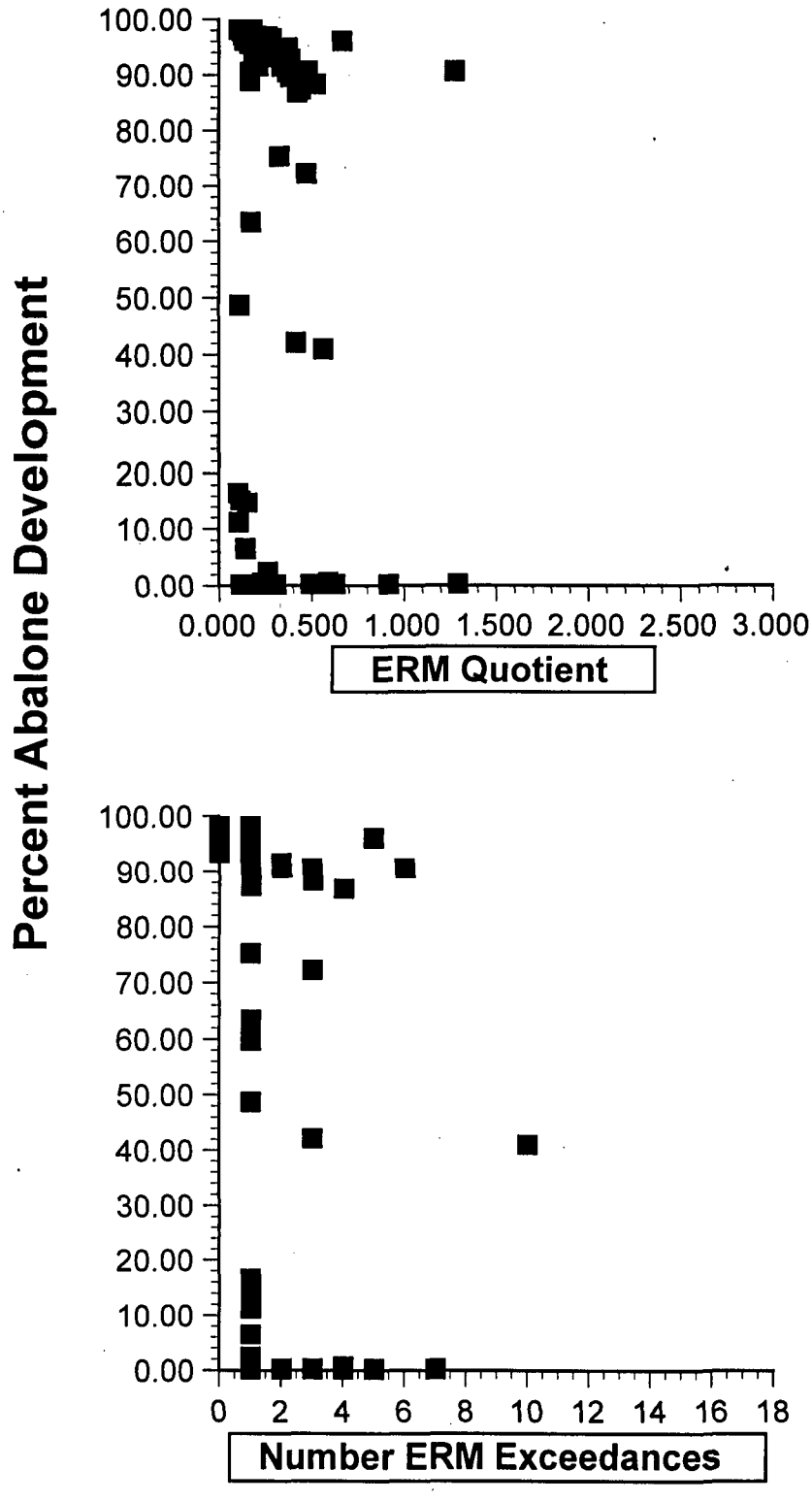
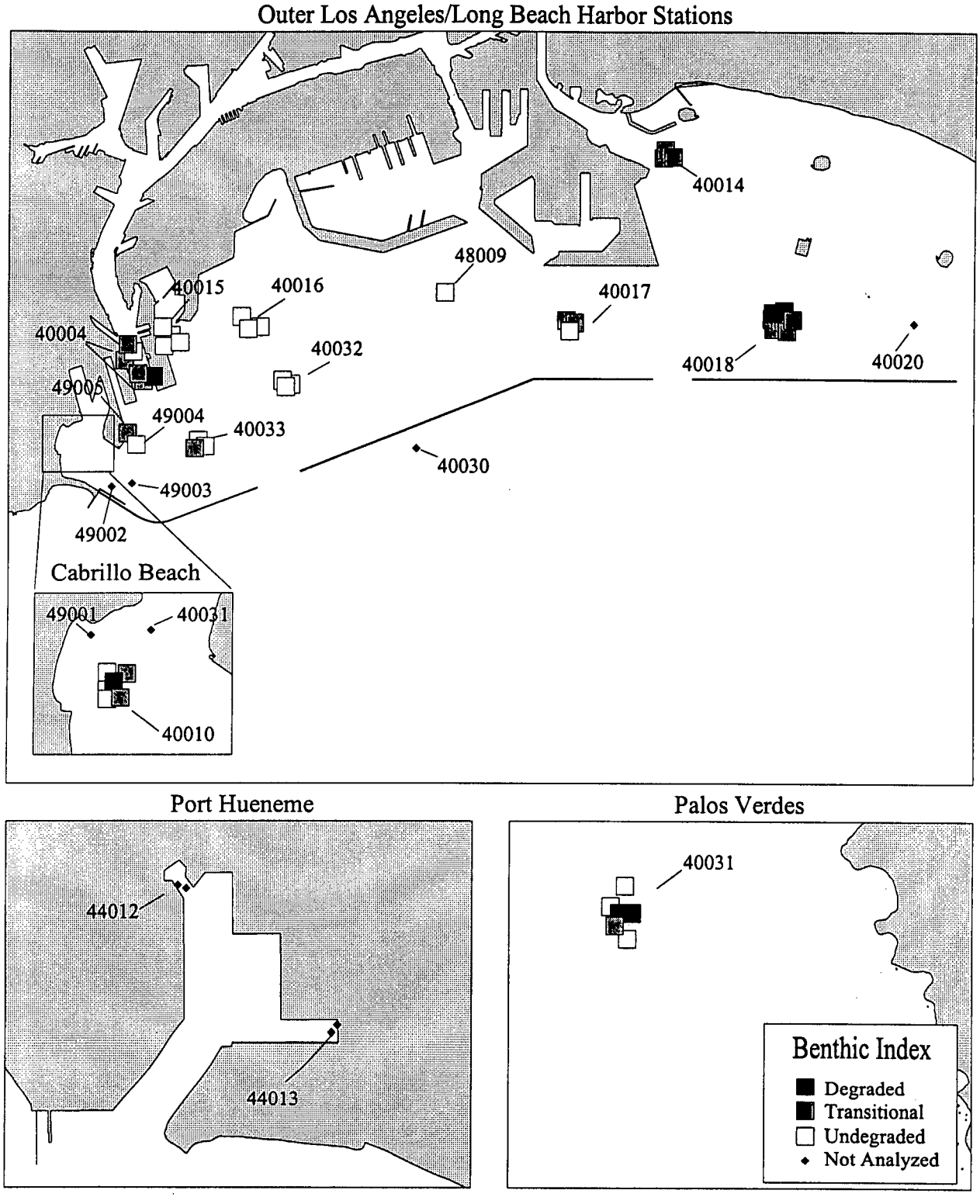
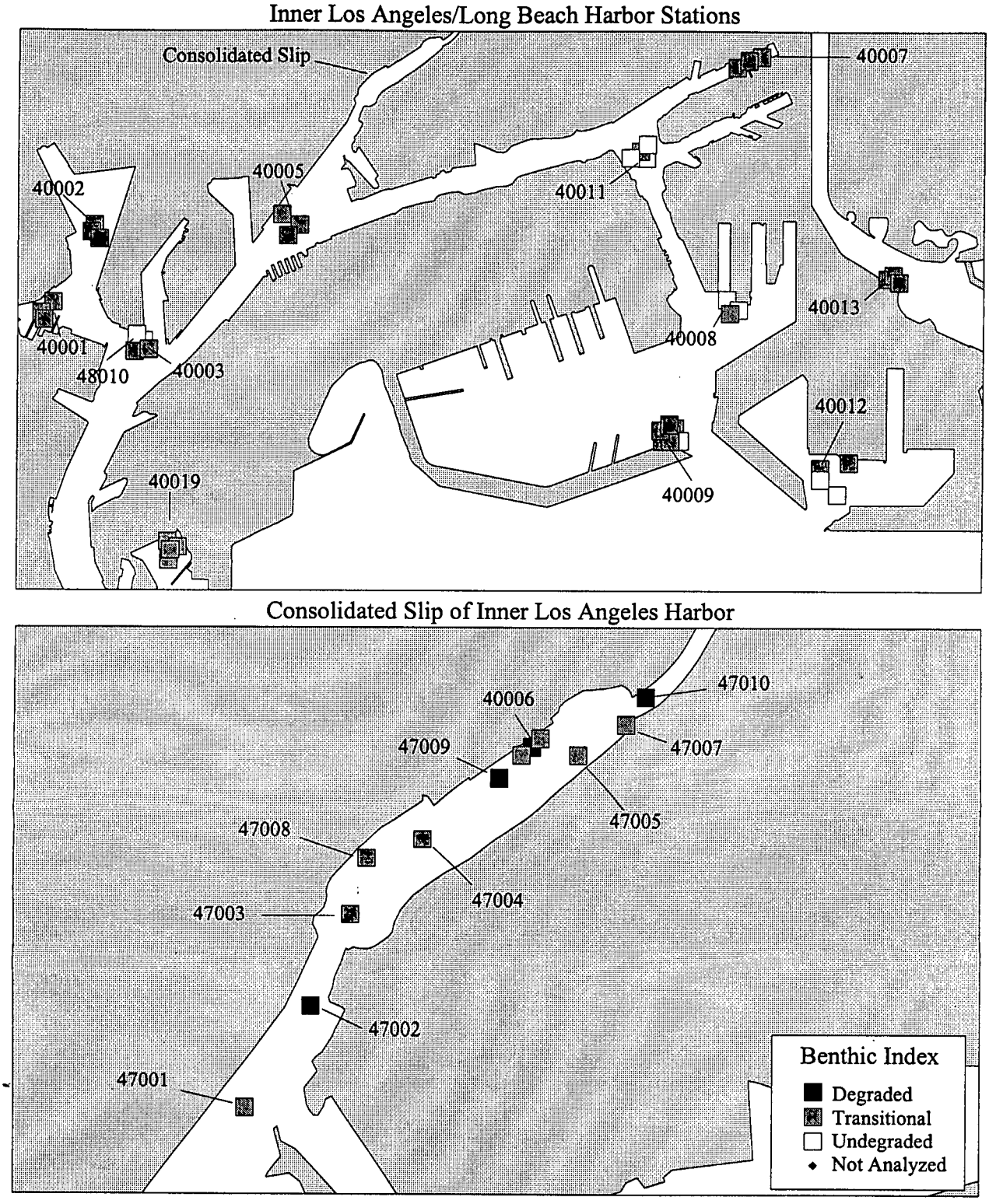


Figure 27. Relationship between abalone development in 50% pore water concentration, average ERM Quotient, and Number of ERM Exceedances at Industrial Harbor stations.



Figures 28a, 28b, and 28c. Distribution of Stations in Outer Los Angeles and Long Beach Harbor (a), Port Hueneme (b), and Palos Verdes (c), Demonstrating Benthic Community Structure.



Figures 29a and 29b. Distribution of Stations in Inner Los Angeles and Long Beach Harbor (a), and Consolidated Slip (b), Demonstrating Benthic Community Structure.

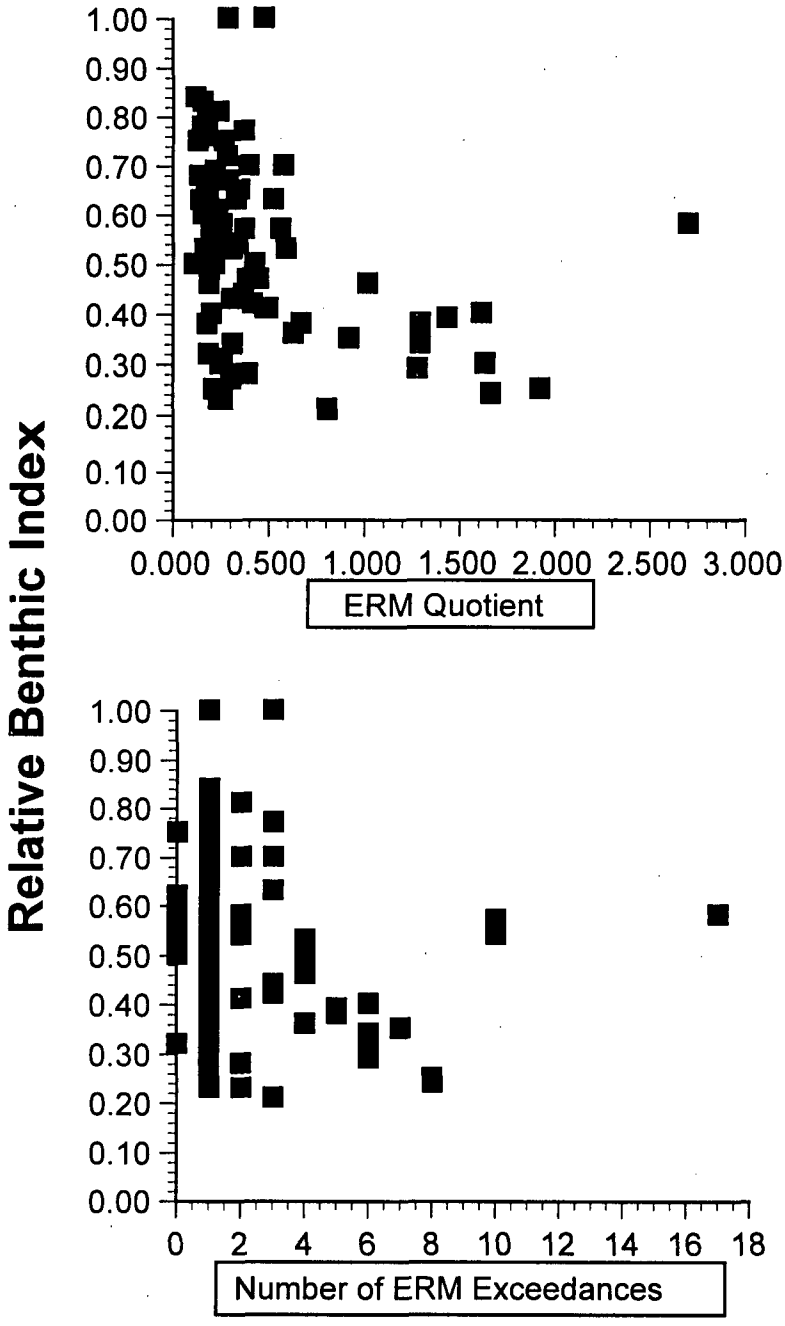


Figure 30. Relative Benthic Index at Industrial Harbor stations in relation to ERM Quotient and Number of ERM Exceedances

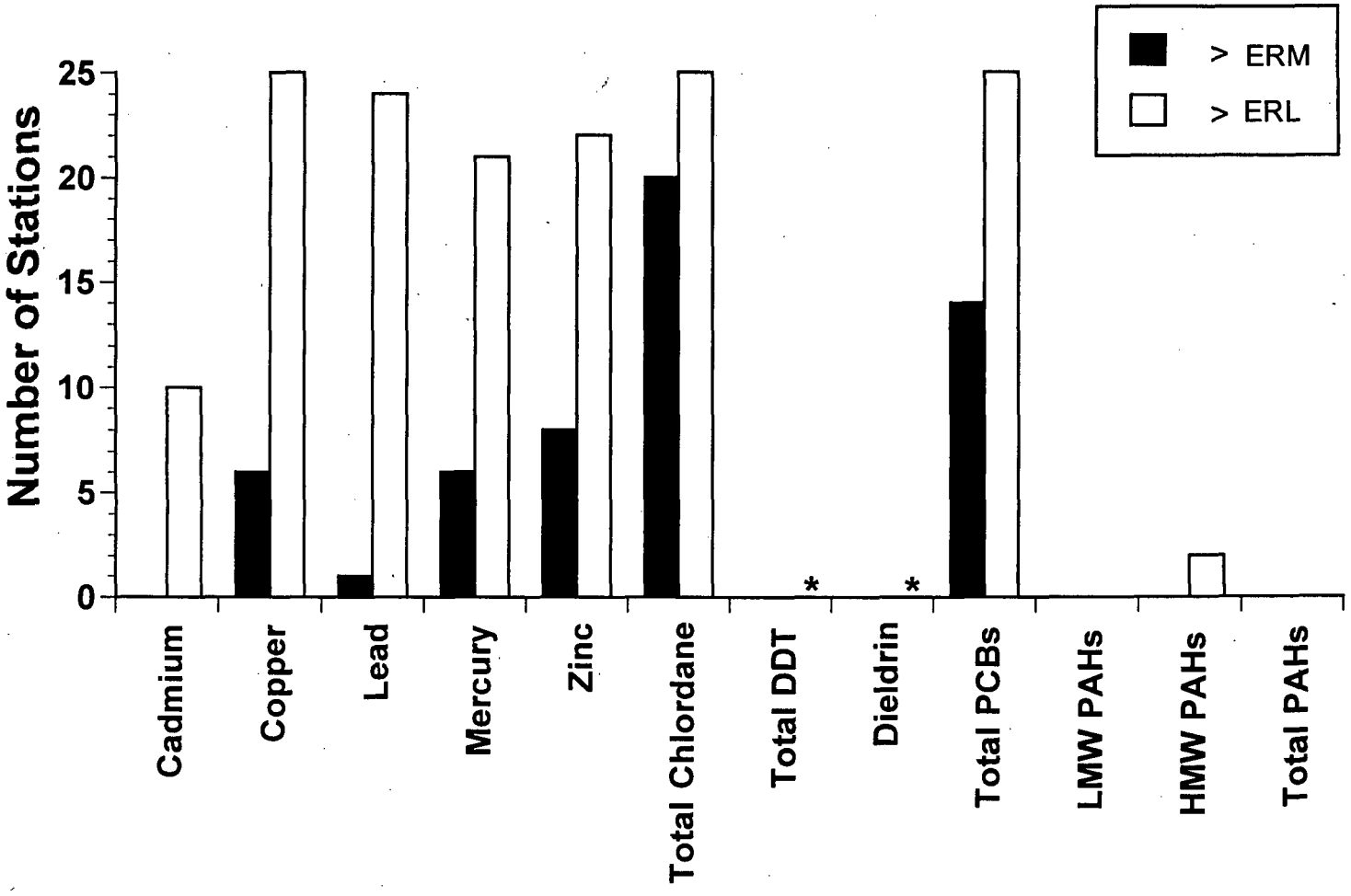
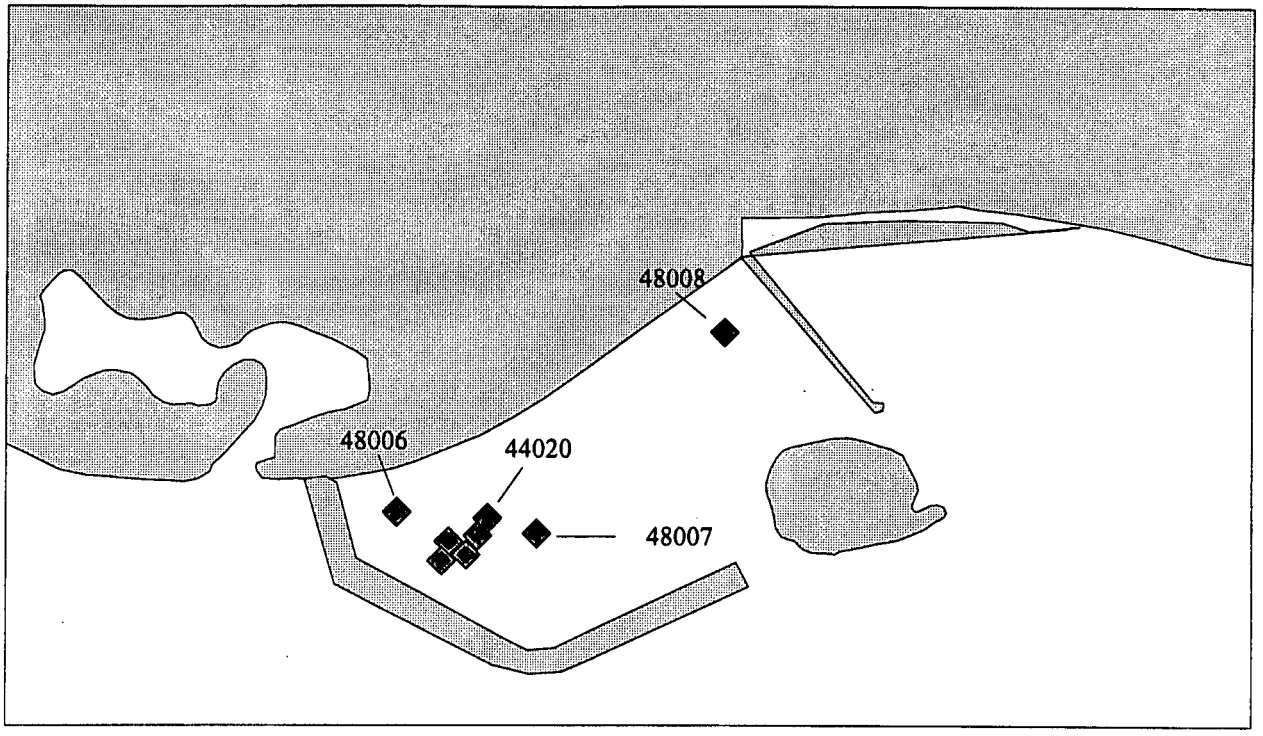
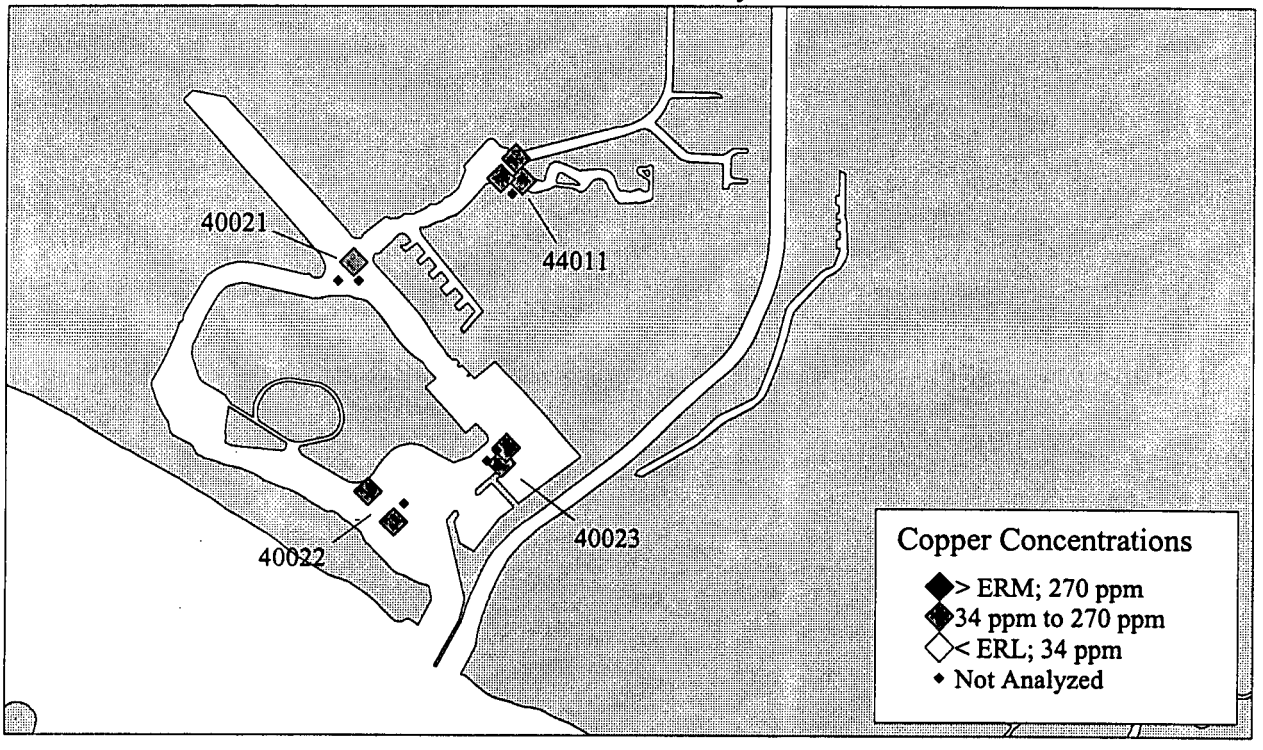


Figure 31 . Number of Marina station samples exceeding either the ERM or ERL sediment quality guidelines. (Total DDT was compared to the Swartz *et al.* sediment effect concentration, 100 ug/g OC. * no ERL exceedances were calculated for Total DDT or Dieldrin; see text for details).

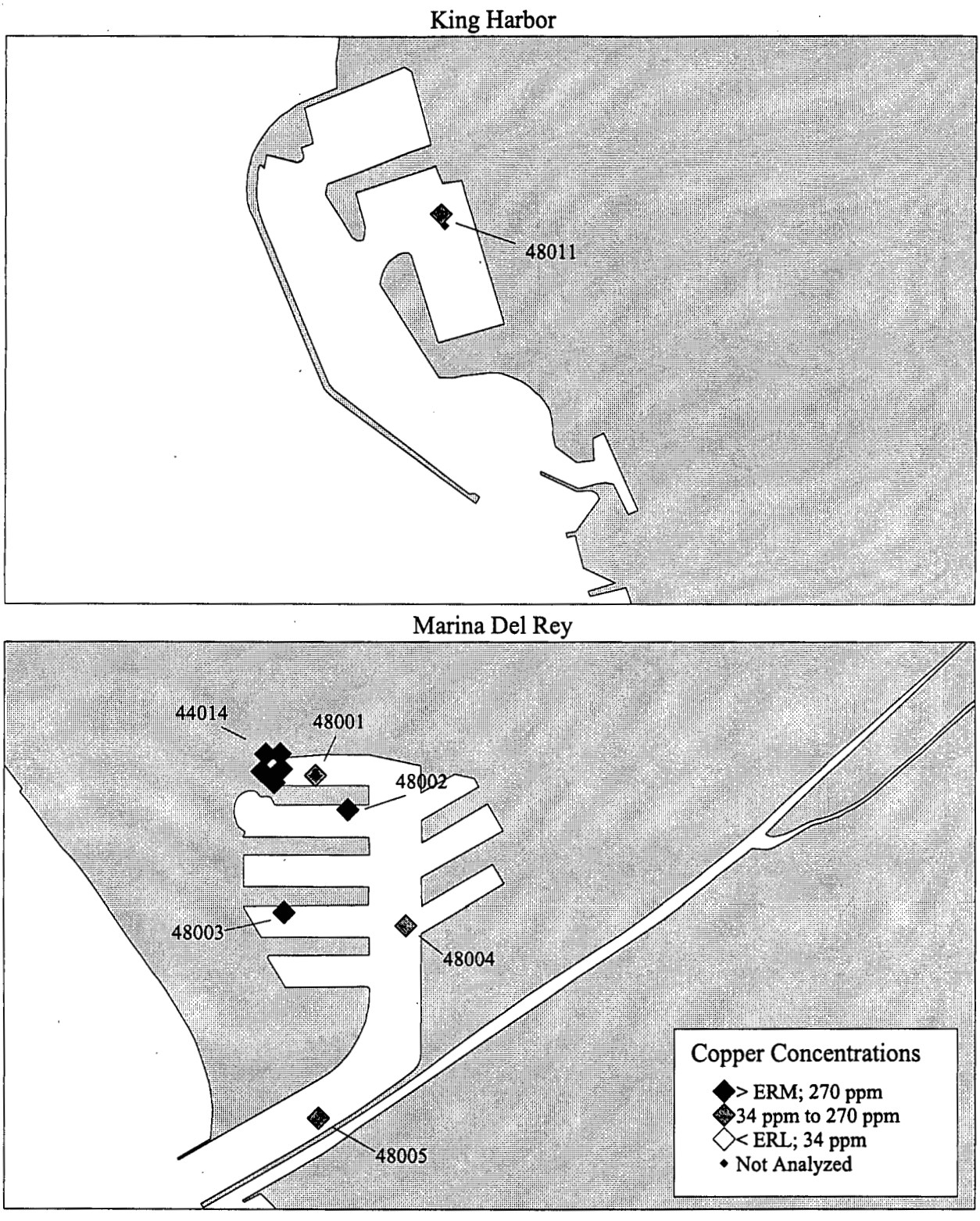
Shoreline Marina



Los Alamitos Bay



Figures 32a and 32b. Distribution of samples in Shoreline Marina (a), and Los Alamitos Bay (b), exceeding the ERM for Copper.



Figures 33a and 33b. Distribution of samples in King Harbor (a), and Marina Del Rey (b), exceeding the ERM for Copper.

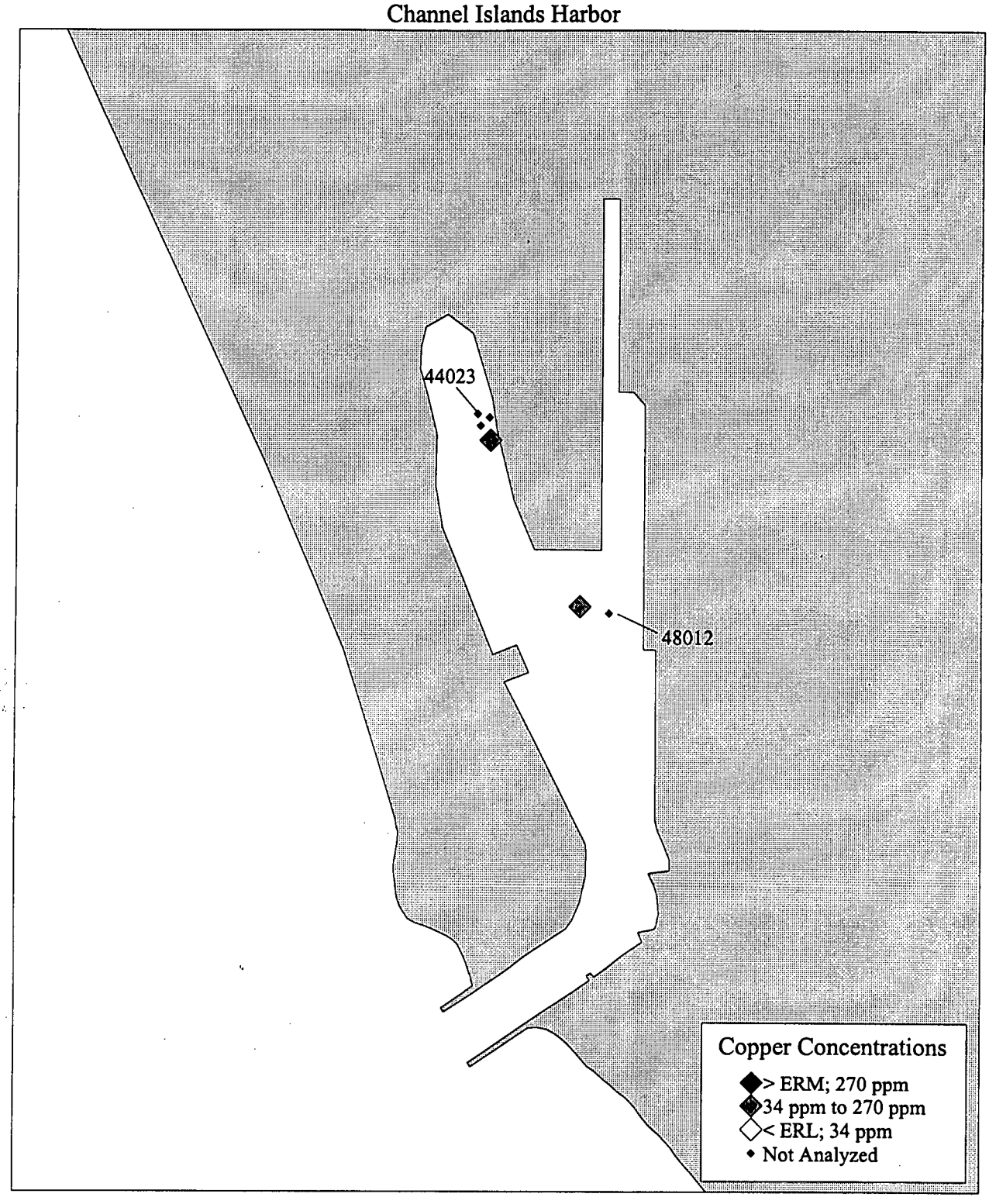
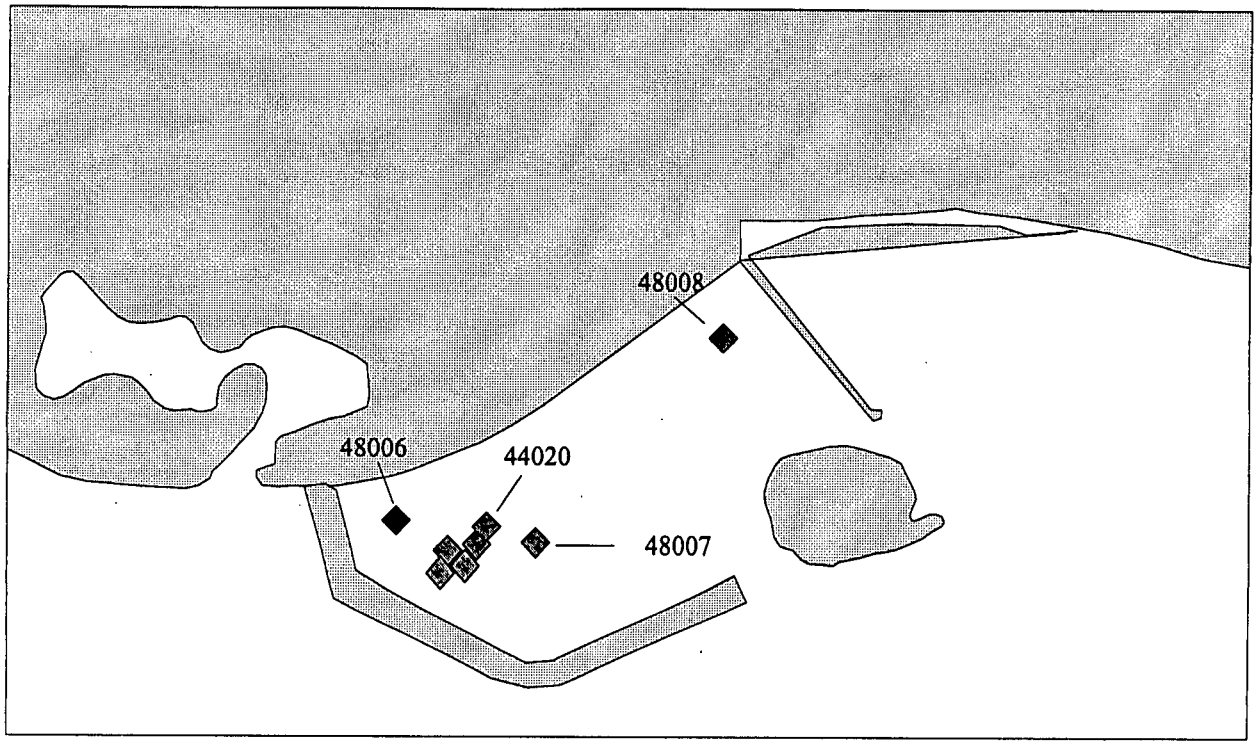
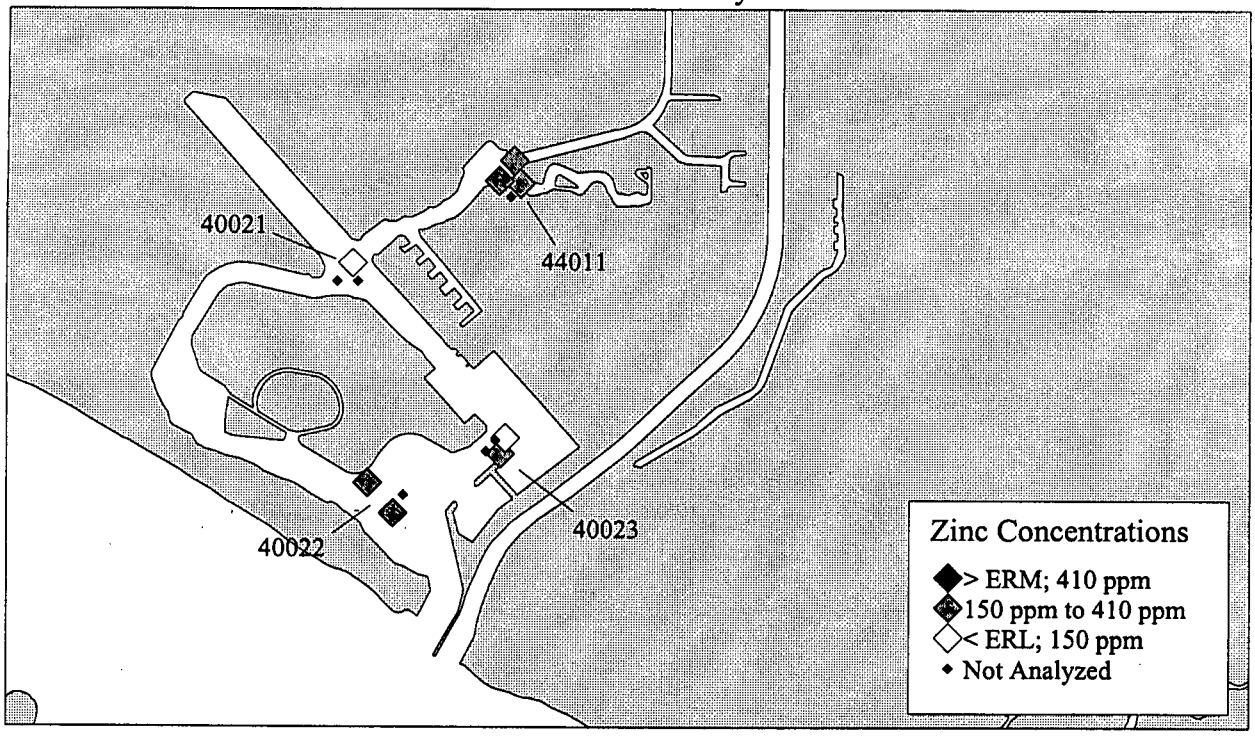


Figure 34. Distribution of samples in Channel Islands Harbor exceeding the ERM for Copper.

Shoreline Marina

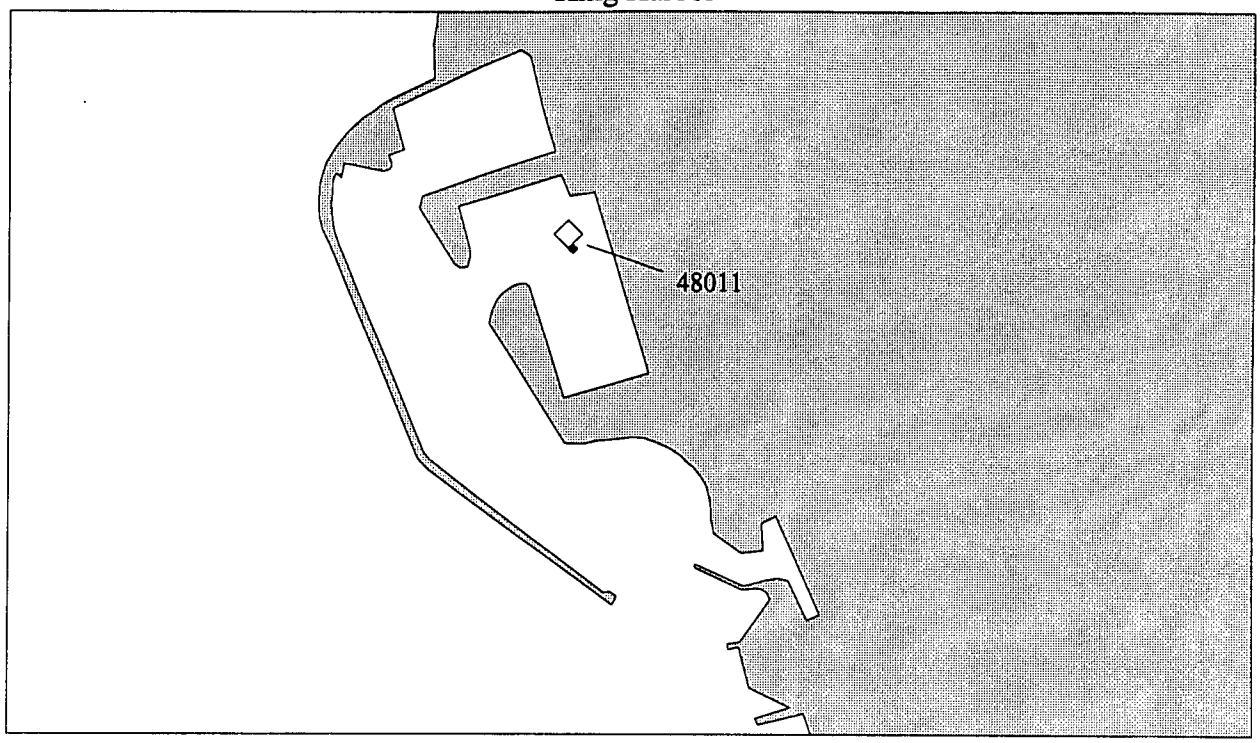


Los Alamitos Bay

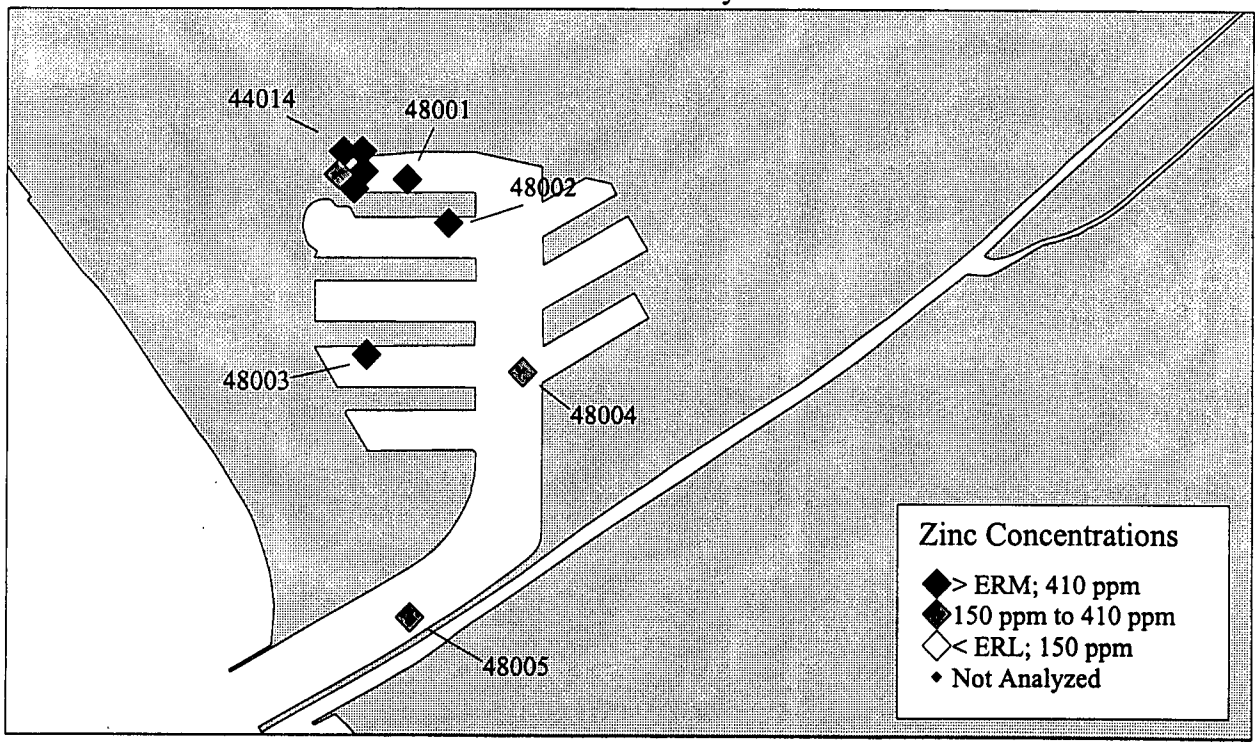


Figures 35a and 35b. Distribution of samples in Shoreline Marina (a), and Los Alamitos Bay (b), exceeding the ERM for Zinc

King Harbor



Marina Del Rey



Figures 36a and 36b. Distribution of samples in King Harbor (a), and Marina Del Rey (b), exceeding the ERM for Zinc

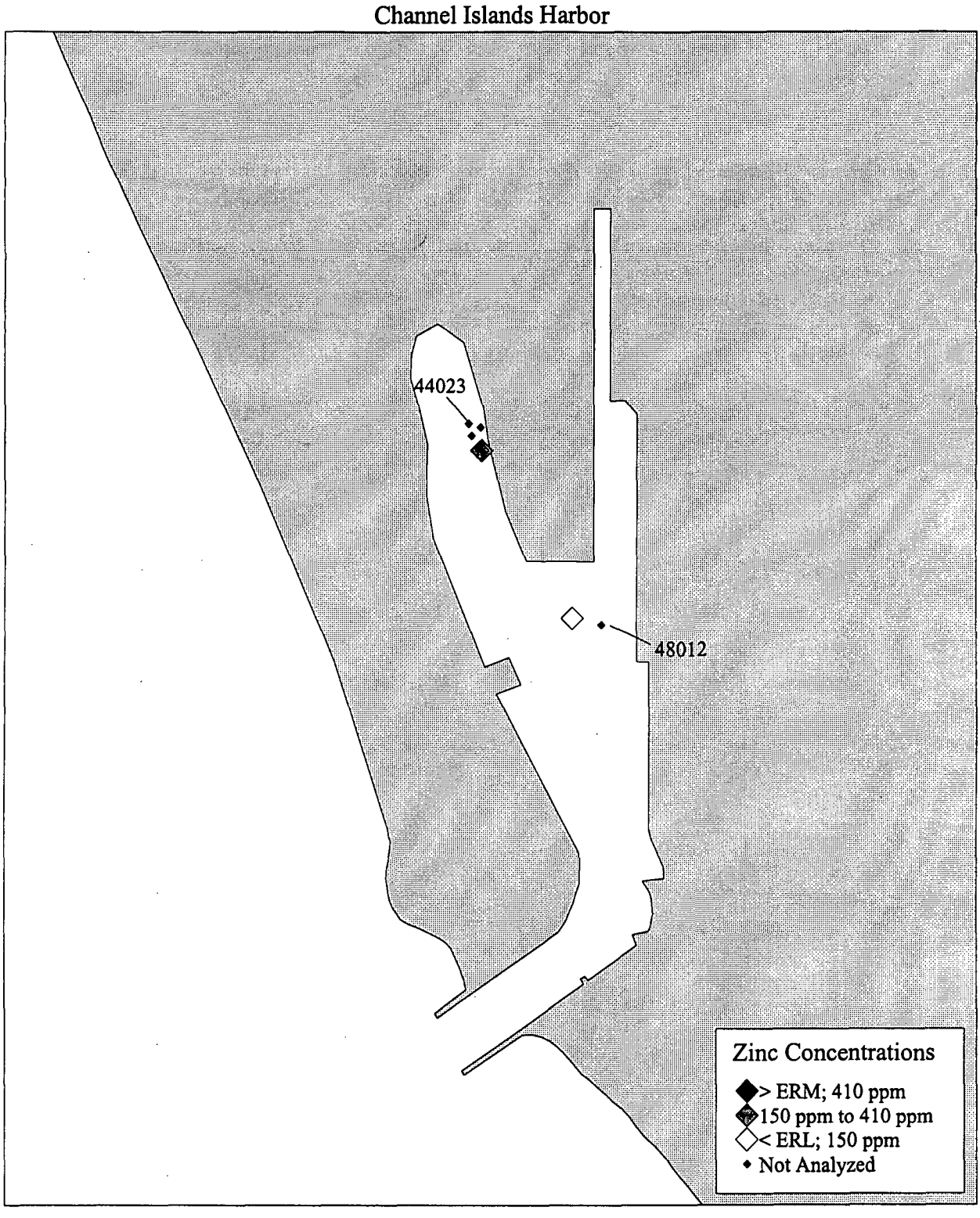
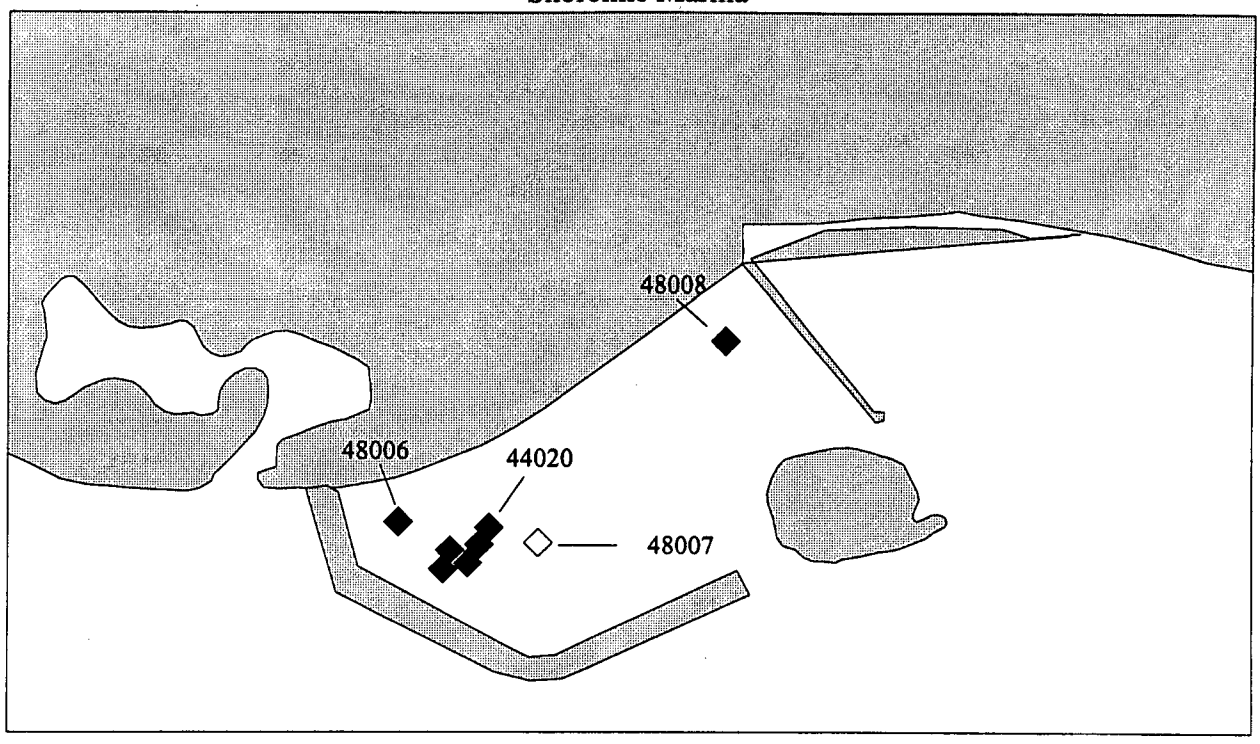
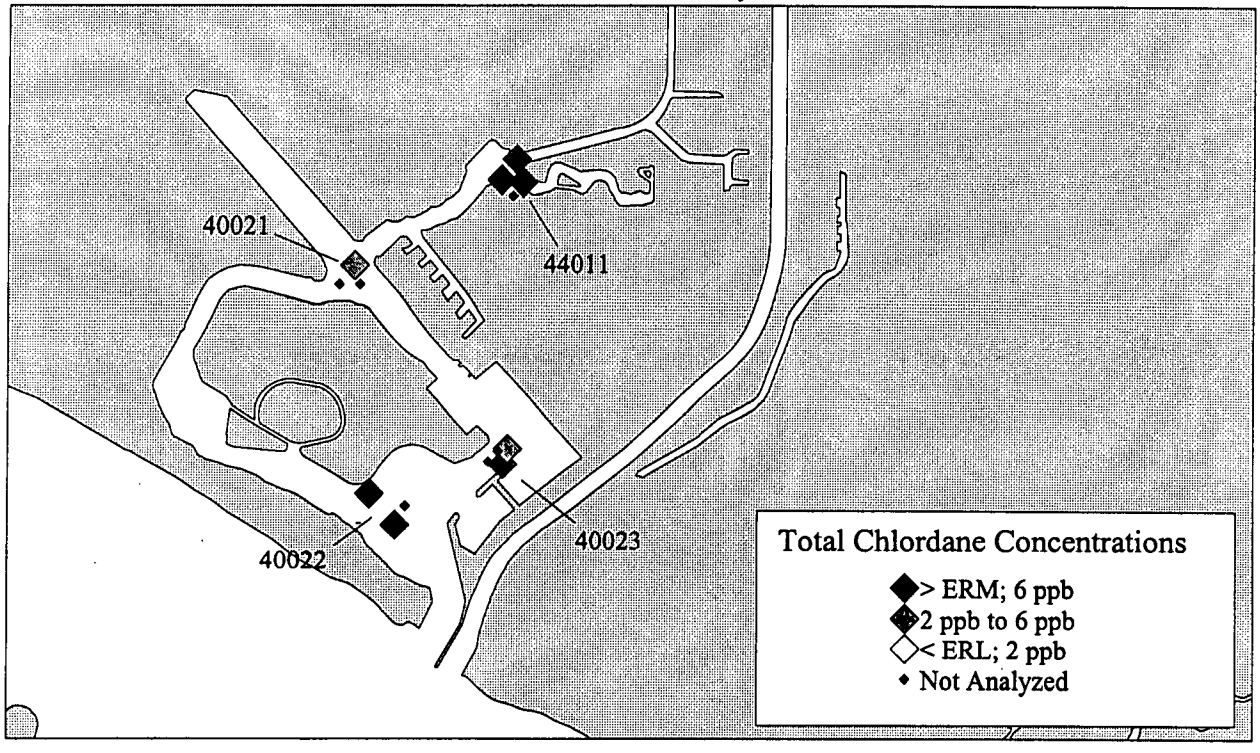


Figure 37. Distribution of samples in Channel Islands Harbor exceeding the ERM for Zinc.

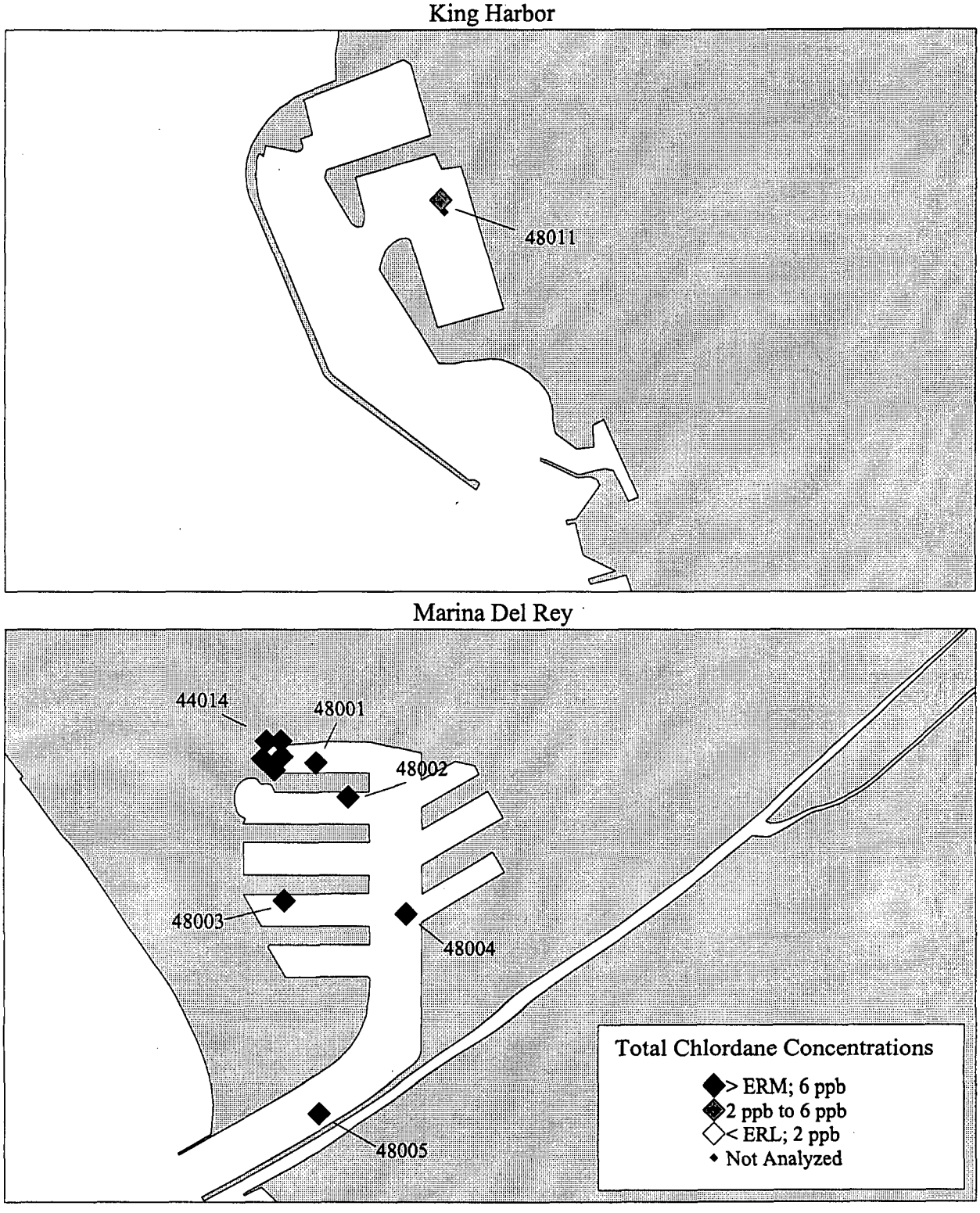
Shoreline Marina



Los Alamitos Bay



Figures 38a and 38b. Distribution of samples in Shoreline Marina (a), and Los Alamitos Bay (b), exceeding the ERM for Total Chlordane.



Figures 39a and 39b. Distribution of samples in King Harbor (a), and Marina Del Rey (b), exceeding the ERM for Total Chlordane.

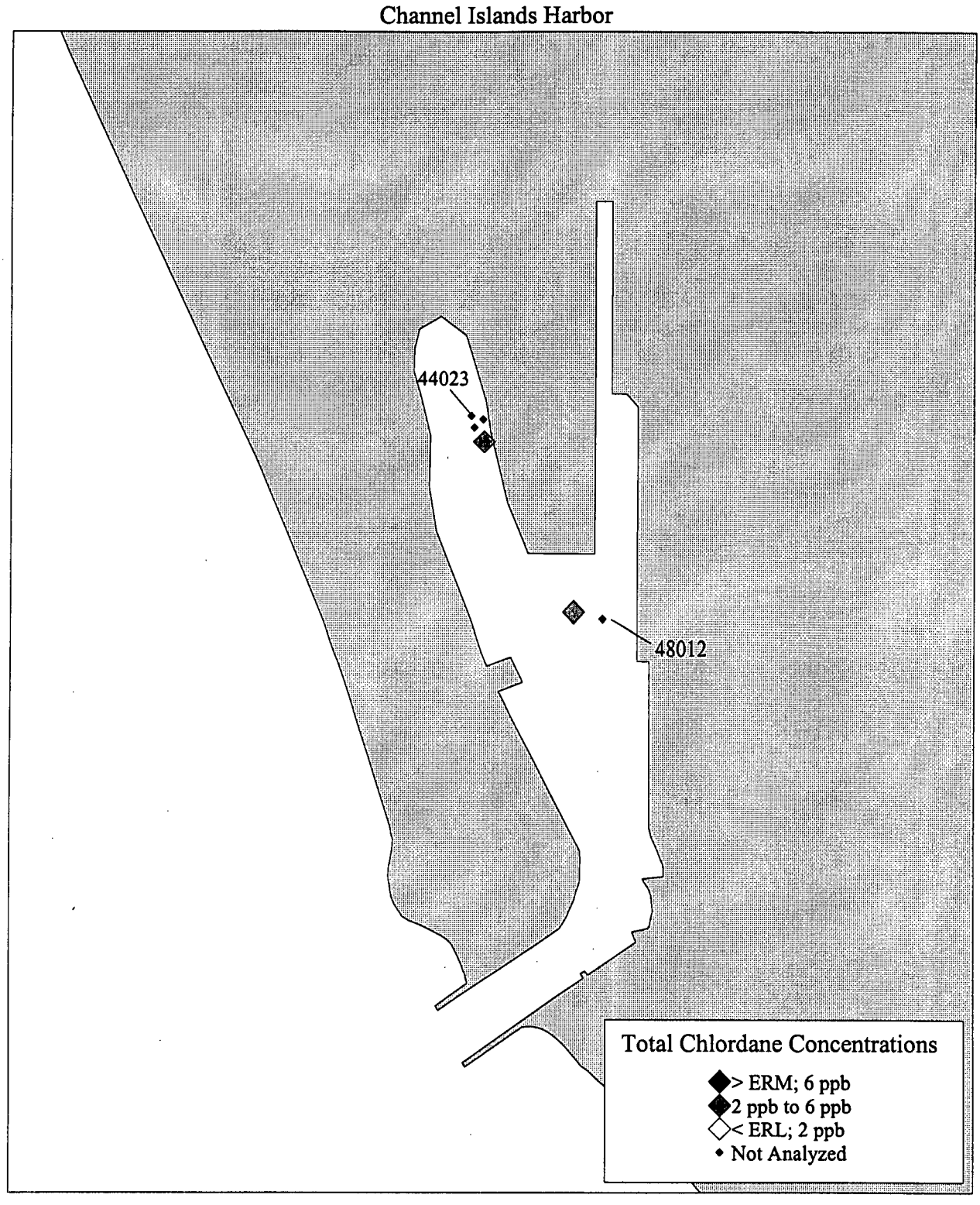
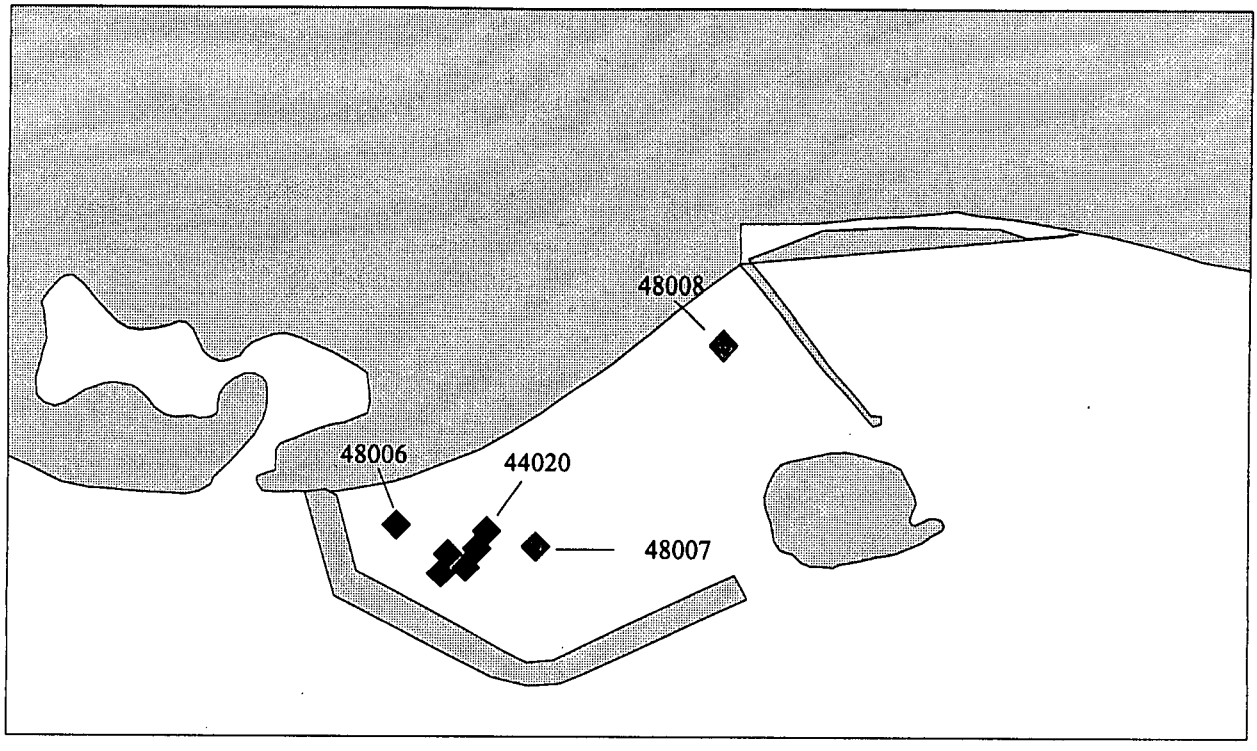
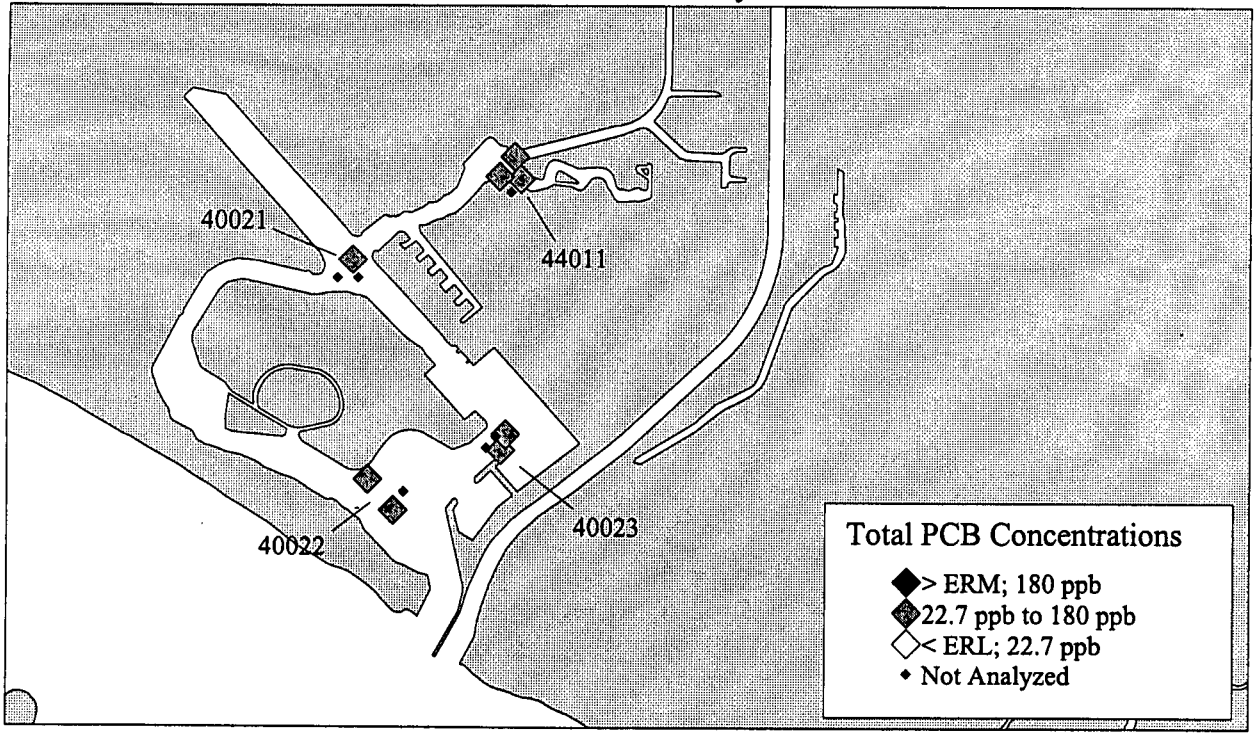


Figure 40. Distribution of samples in Channel Islands Harbor exceeding the ERM for Total Chlordane.

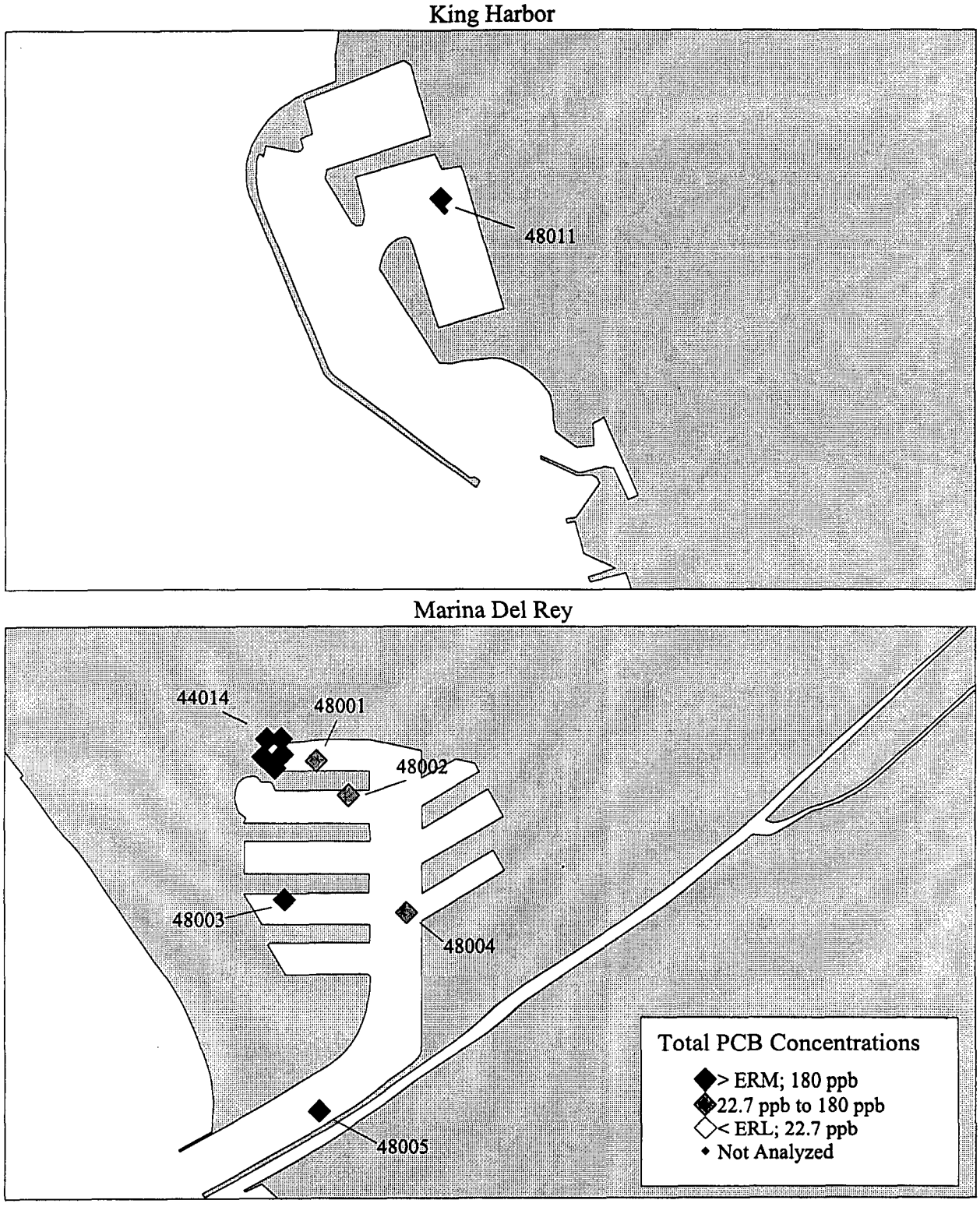
Shoreline Marina



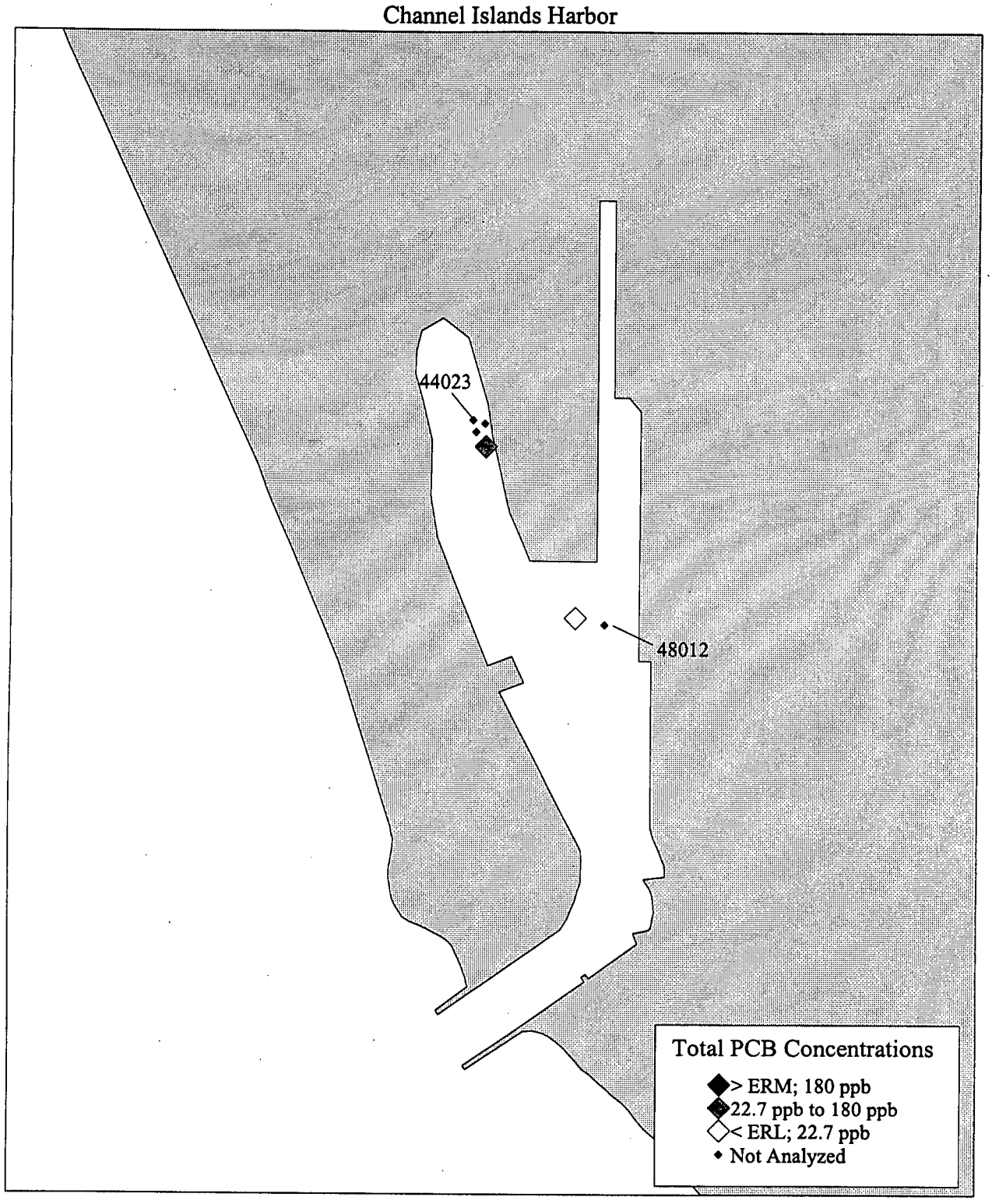
Los Alamitos Bay



Figures 41a and 41b. Distribution of samples in Shoreline Marina (a), and Los Alamitos Bay (b), exceeding the ERM for Total PCB.

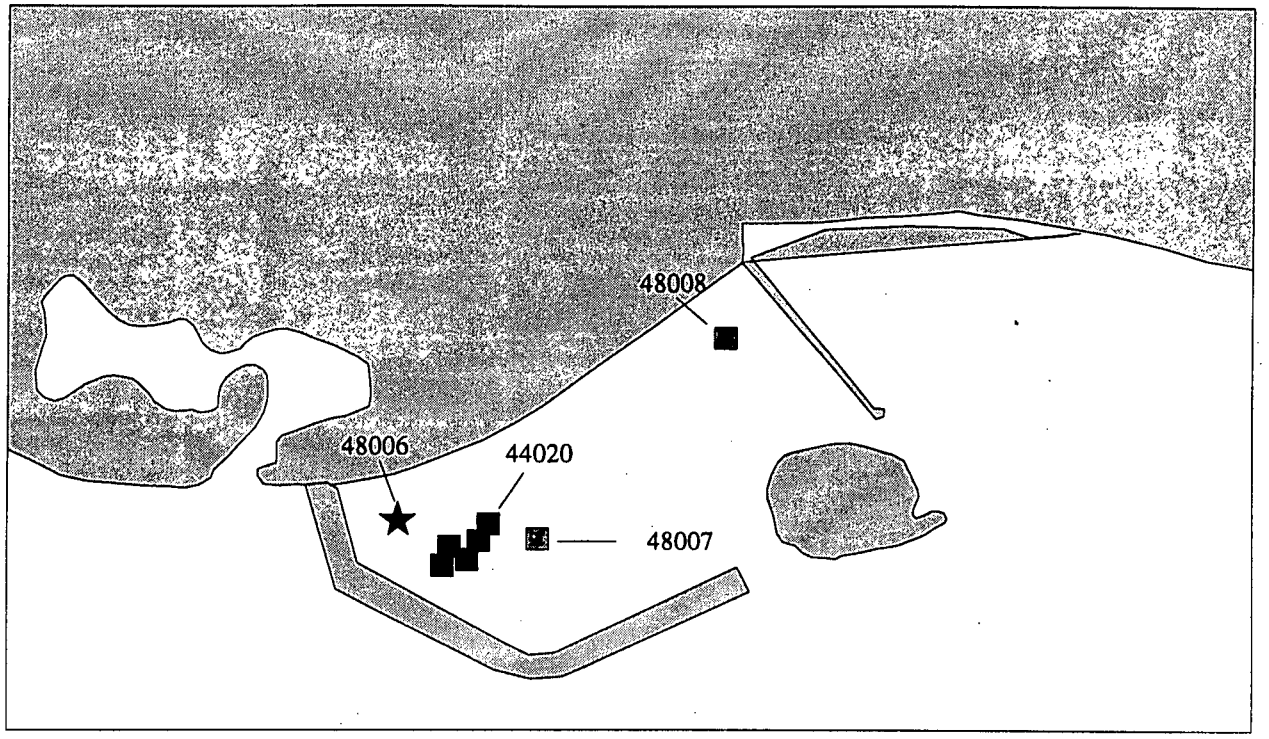


Figures 42a and 42b. Distribution of samples in King Harbor (a), and Marina Del Rey (b), exceeding the ERM for Total PCB.

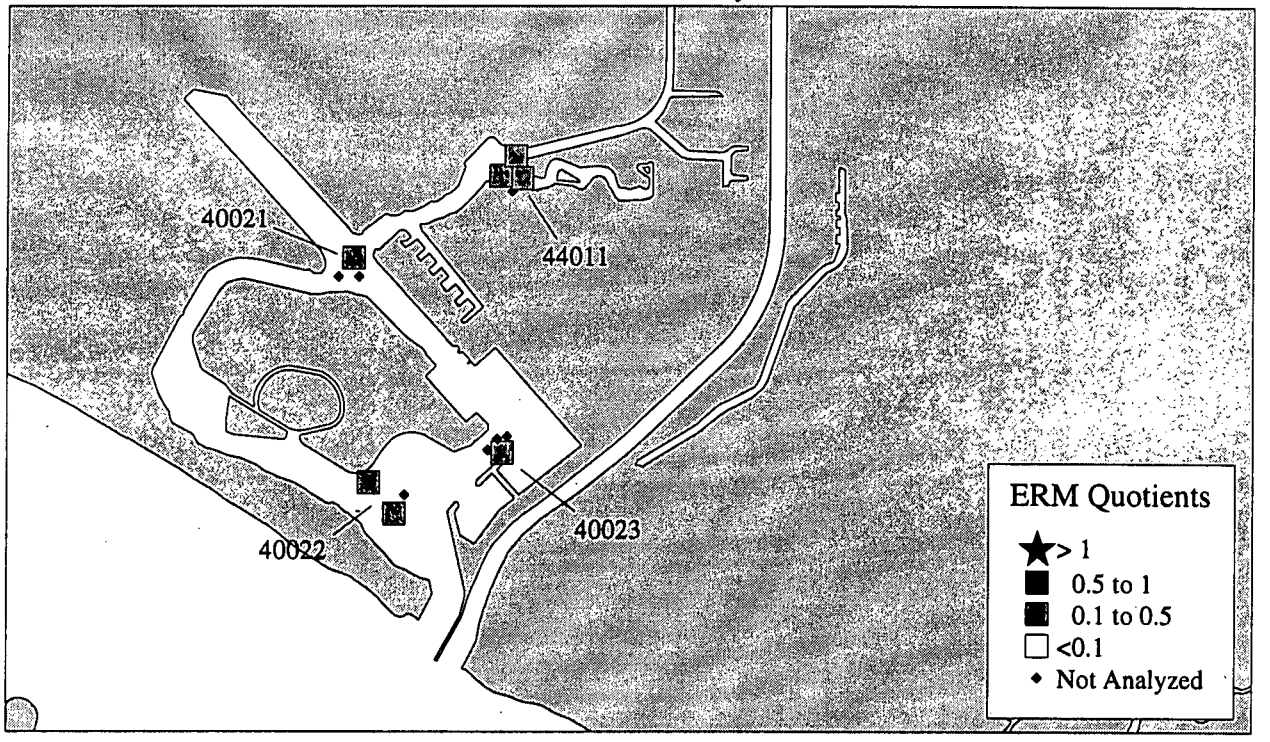


Figures 43. Distribution of samples in Channel Islands Harbor exceeding the ERM for Total PCB.

Shoreline Marina

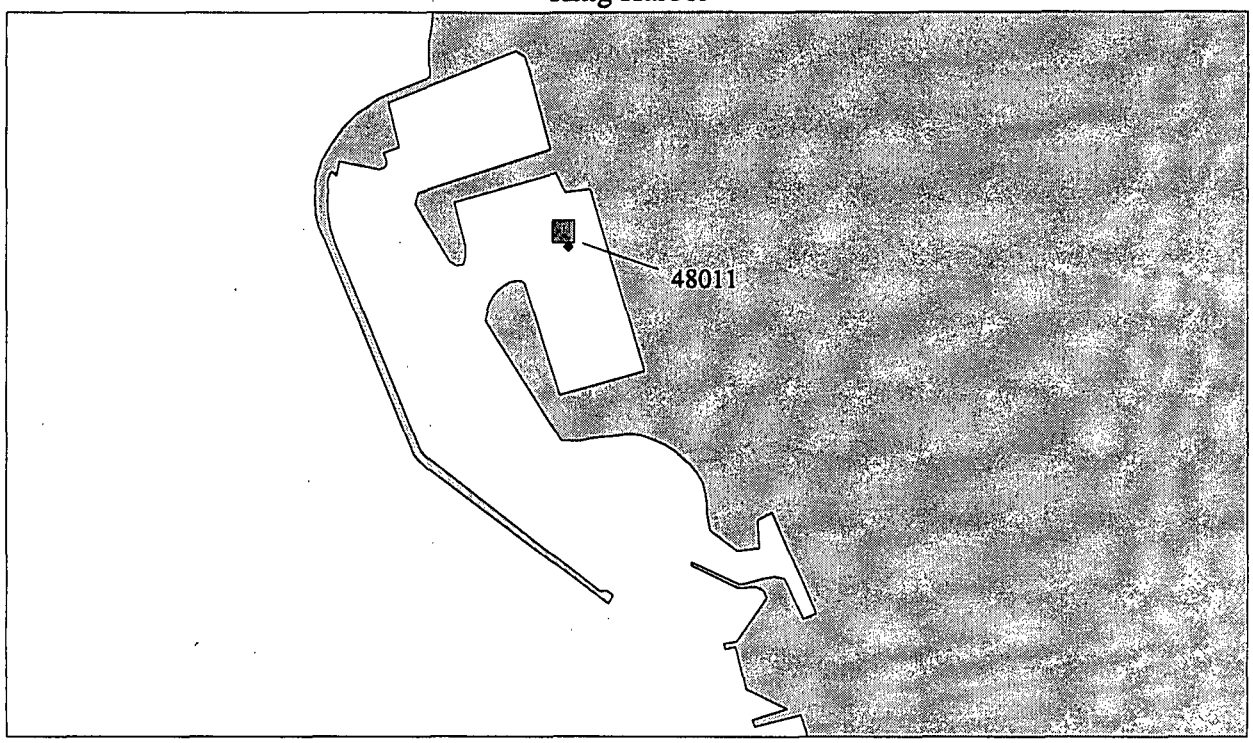


Los Alamitos Bay

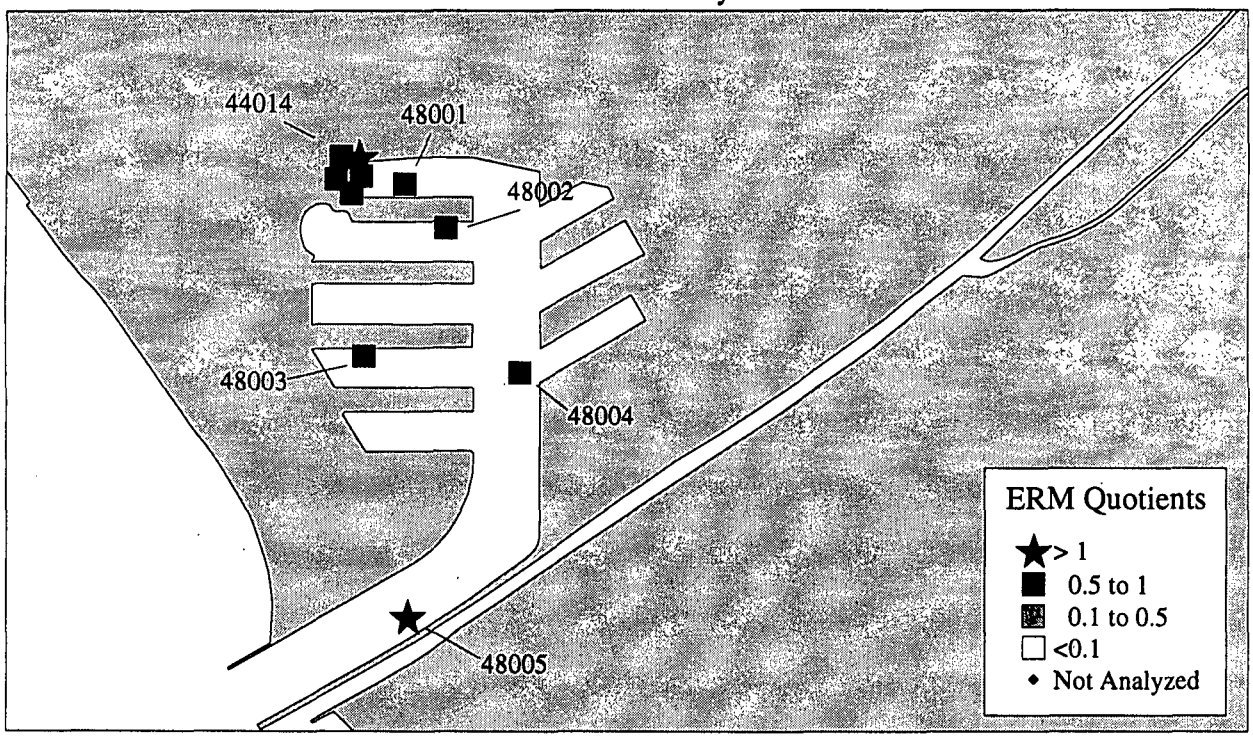


Figures 44a and 44b. ERM Quotient values at Shoreline Marina (a), and Los Alamitos Bay (b), Sampling Stations.

King Harbor



Marina Del Rey



Figures 45a and 45b. ERM Quotient values at King Harbor (a), and Marina Del Rey (b), Sampling Stations.

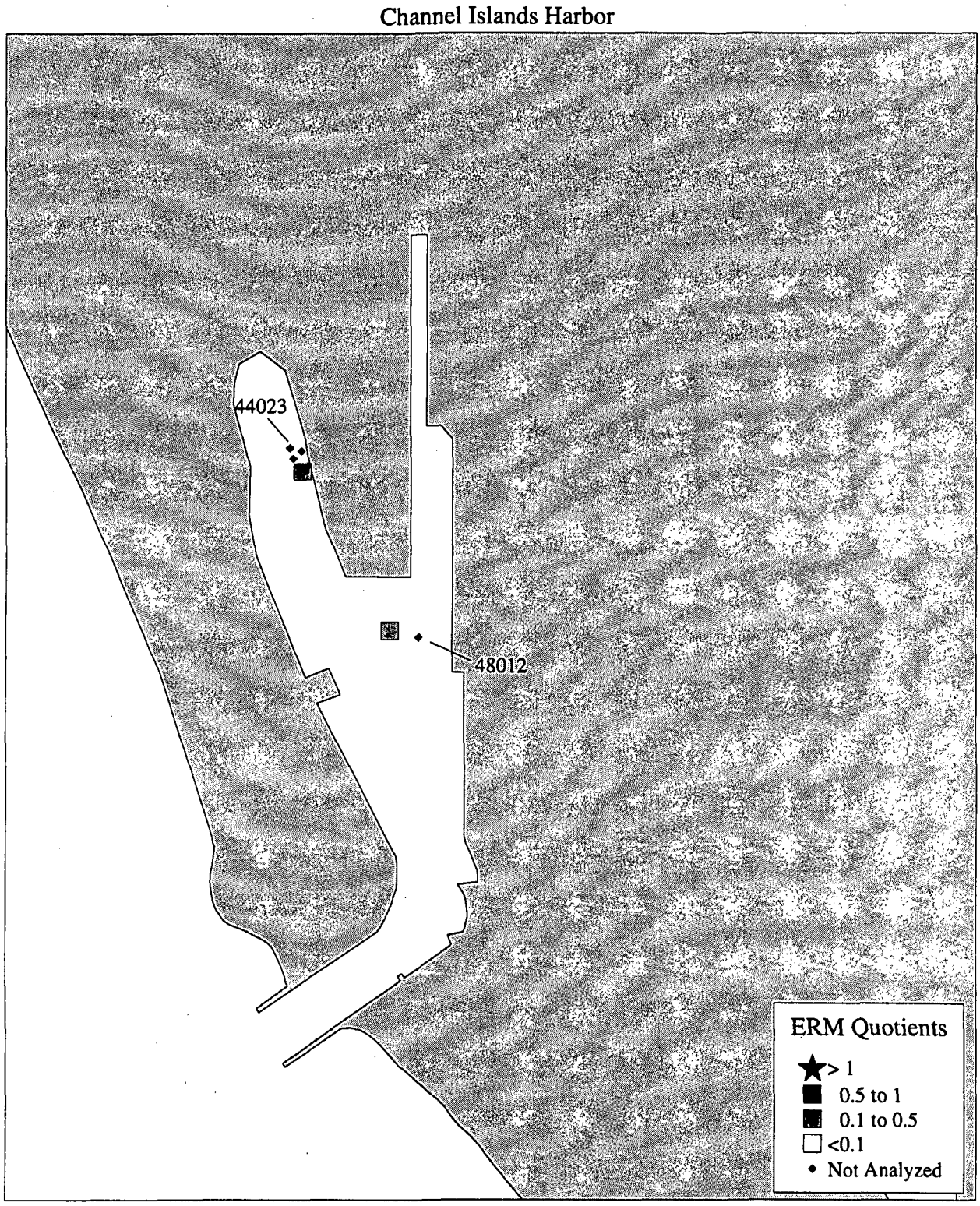
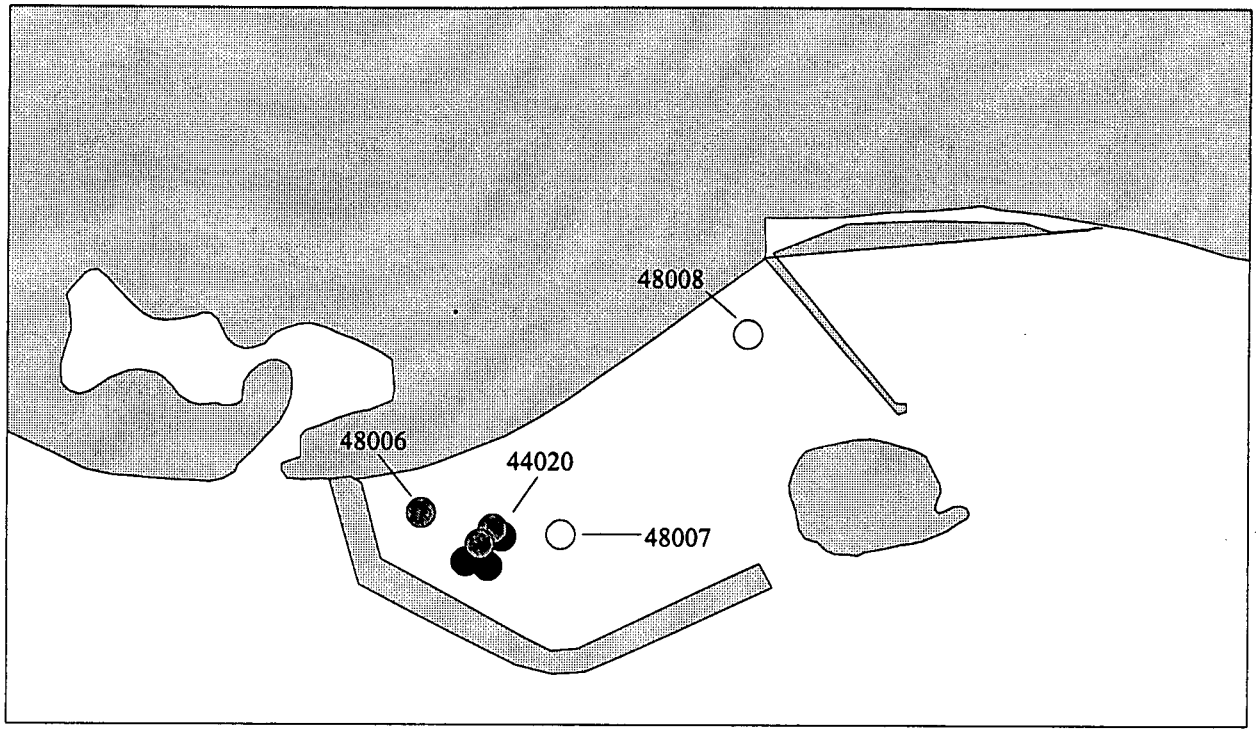
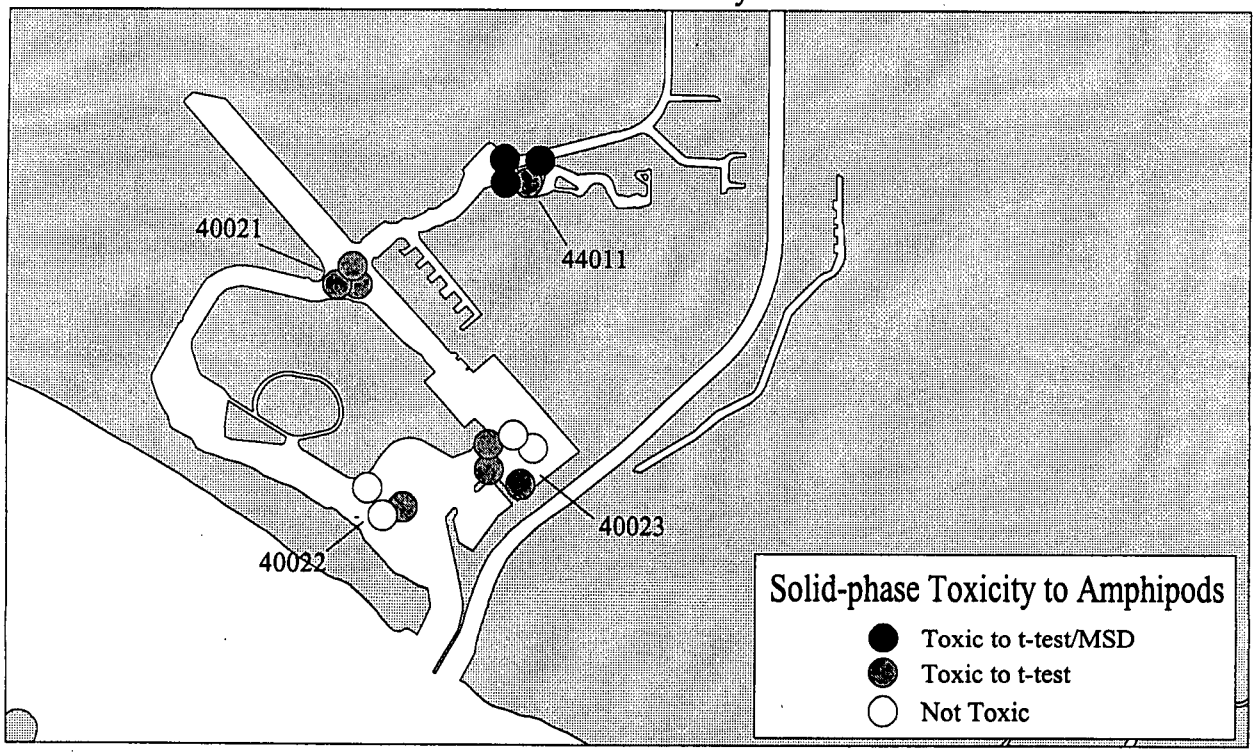


Figure 46. ERM Quotient values at Channel Islands Harbor Sampling Stations.

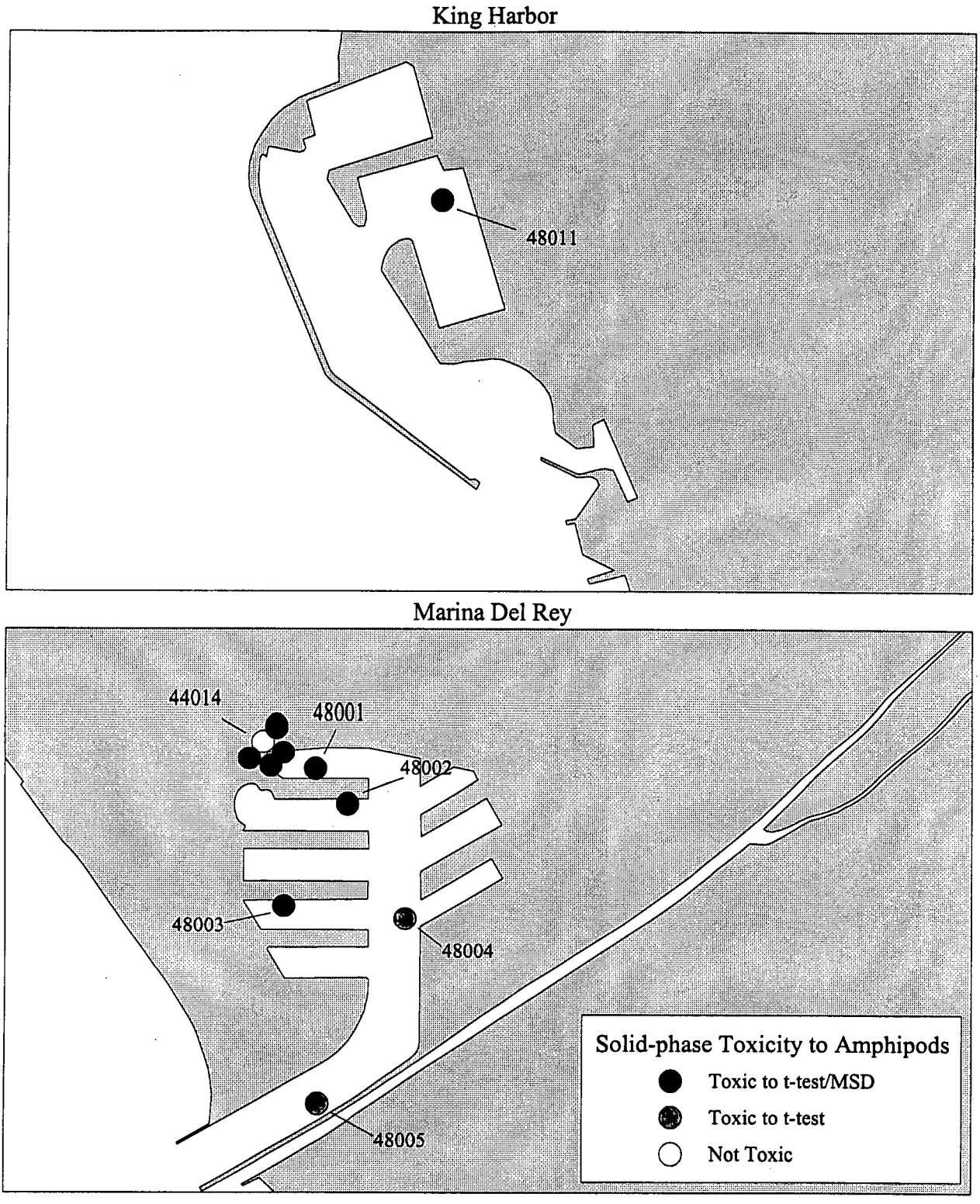
Shoreline Marina



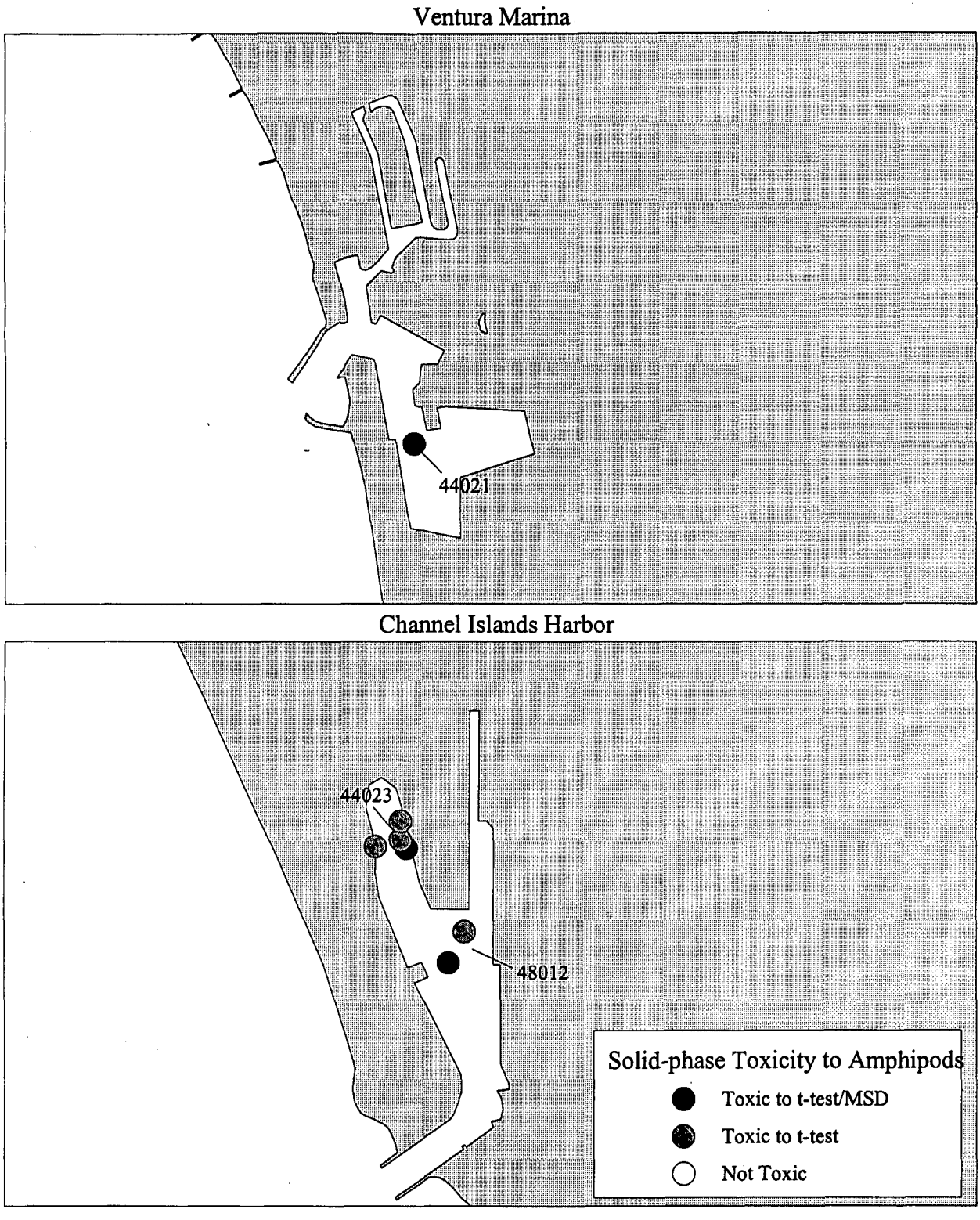
Los Alamitos Bay



Figures 47a and 47b. Toxicity of Sediment Samples in Shoreline Marina (a), and Los Alamitos Bay (b).



Figures 48a and 48b. Toxicity of Sediment Samples in King Harbor (a), and Marina Del Rey (b).



Figures 49a and 49b. Toxicity of Sediment Samples in Ventura Harbor (a), and Channel Islands Harbor (b).

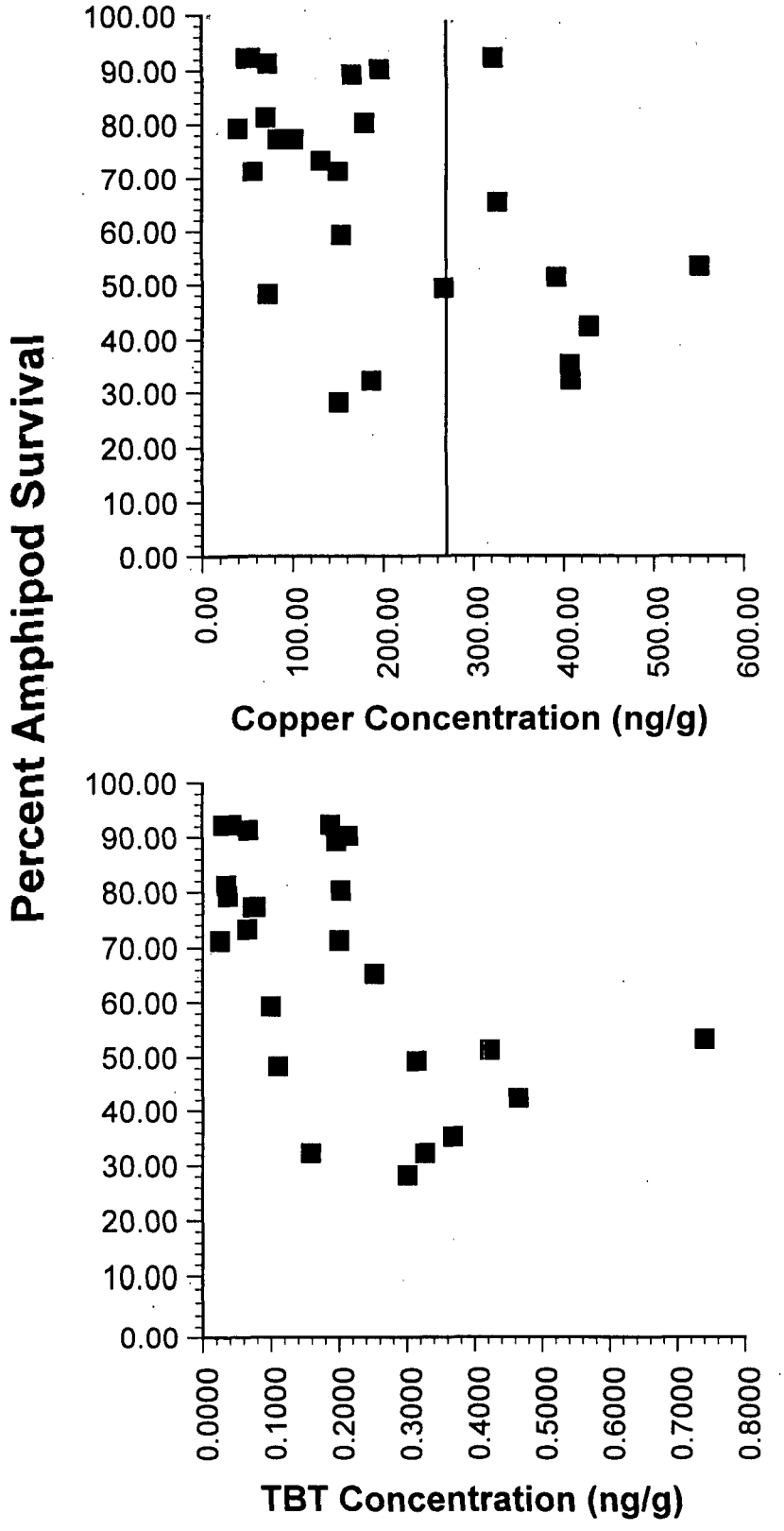
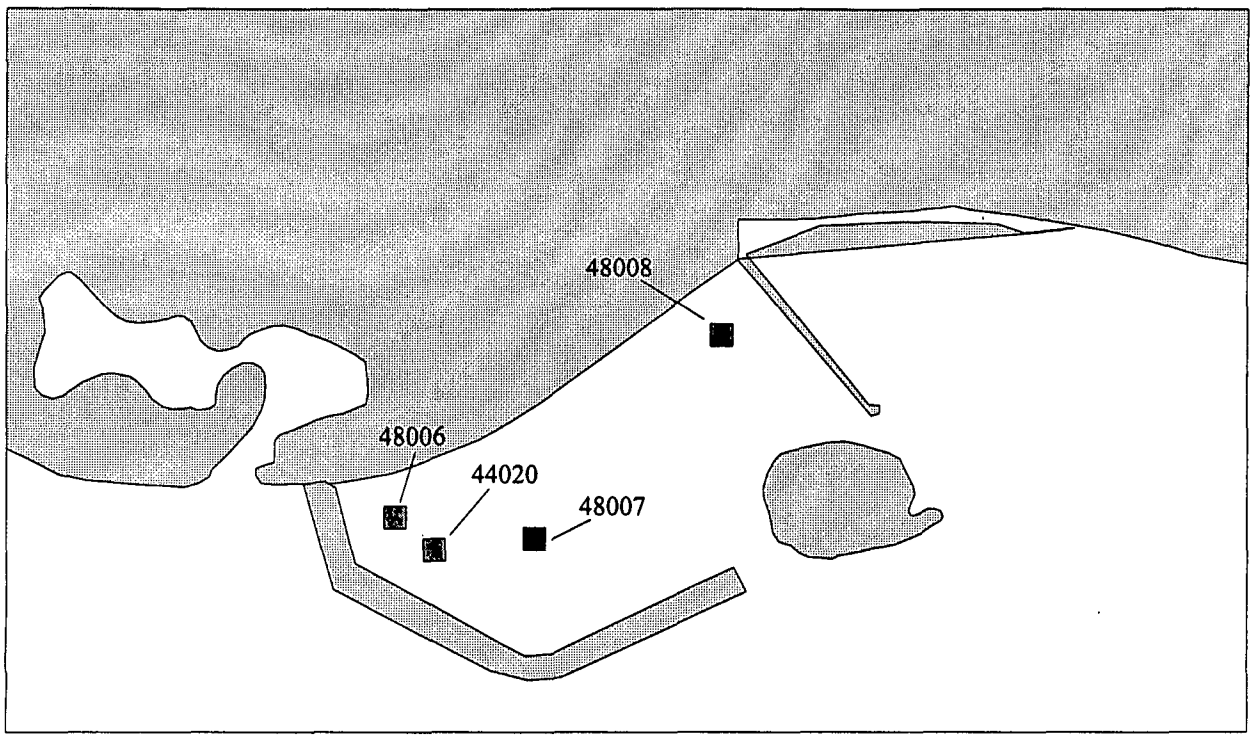
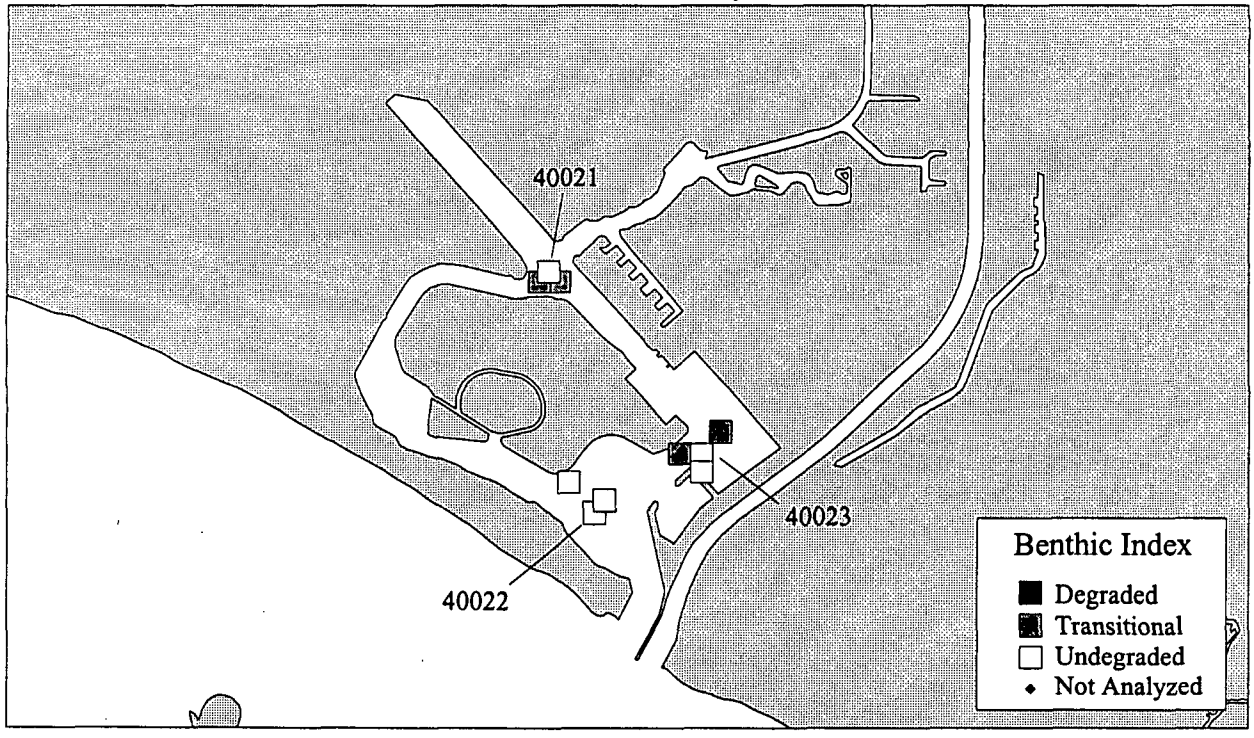


Figure 50. Amphipod survival at Marina stations in relation to copper and TBT concentrations. Vertical line indicates ERM value for copper.

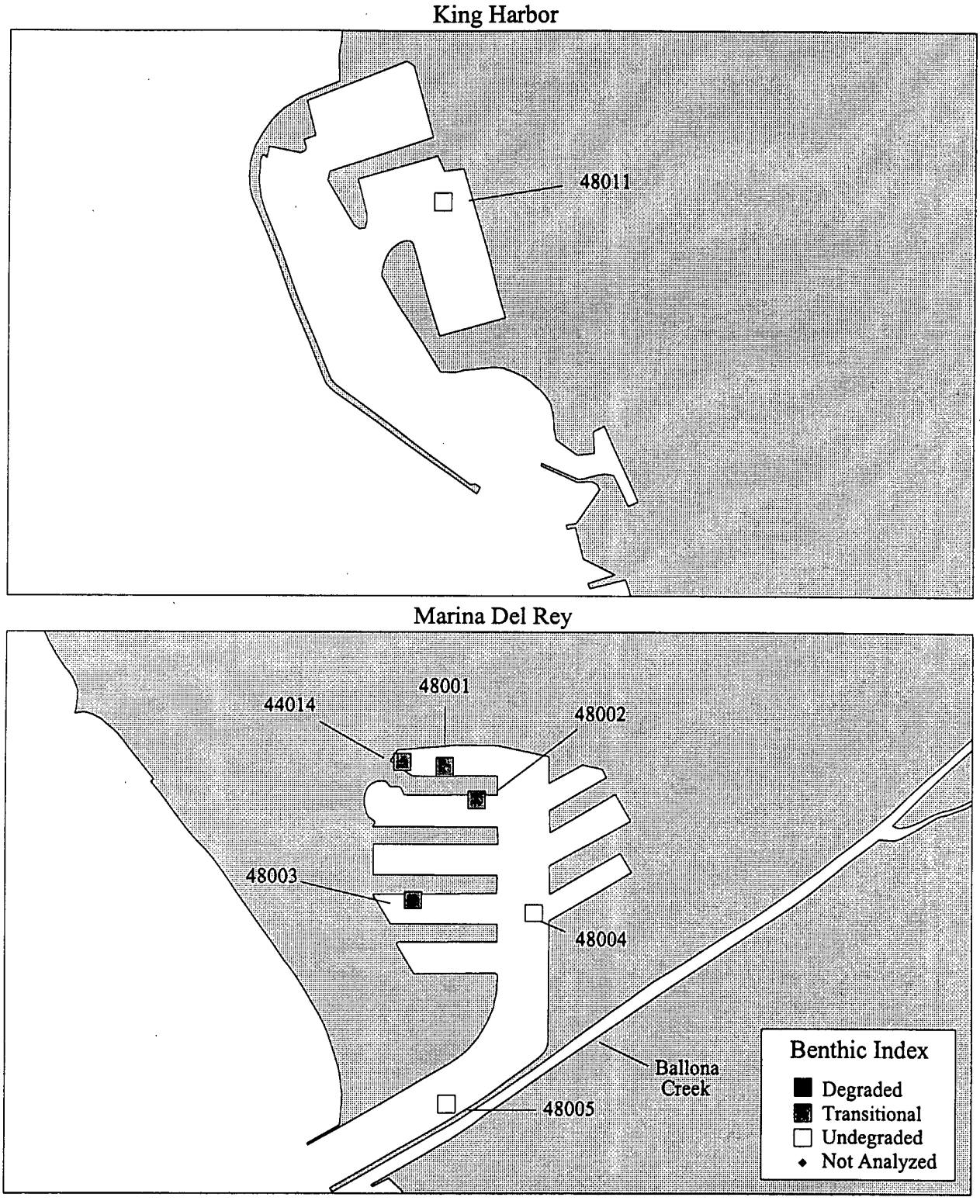
Shoreline Marina



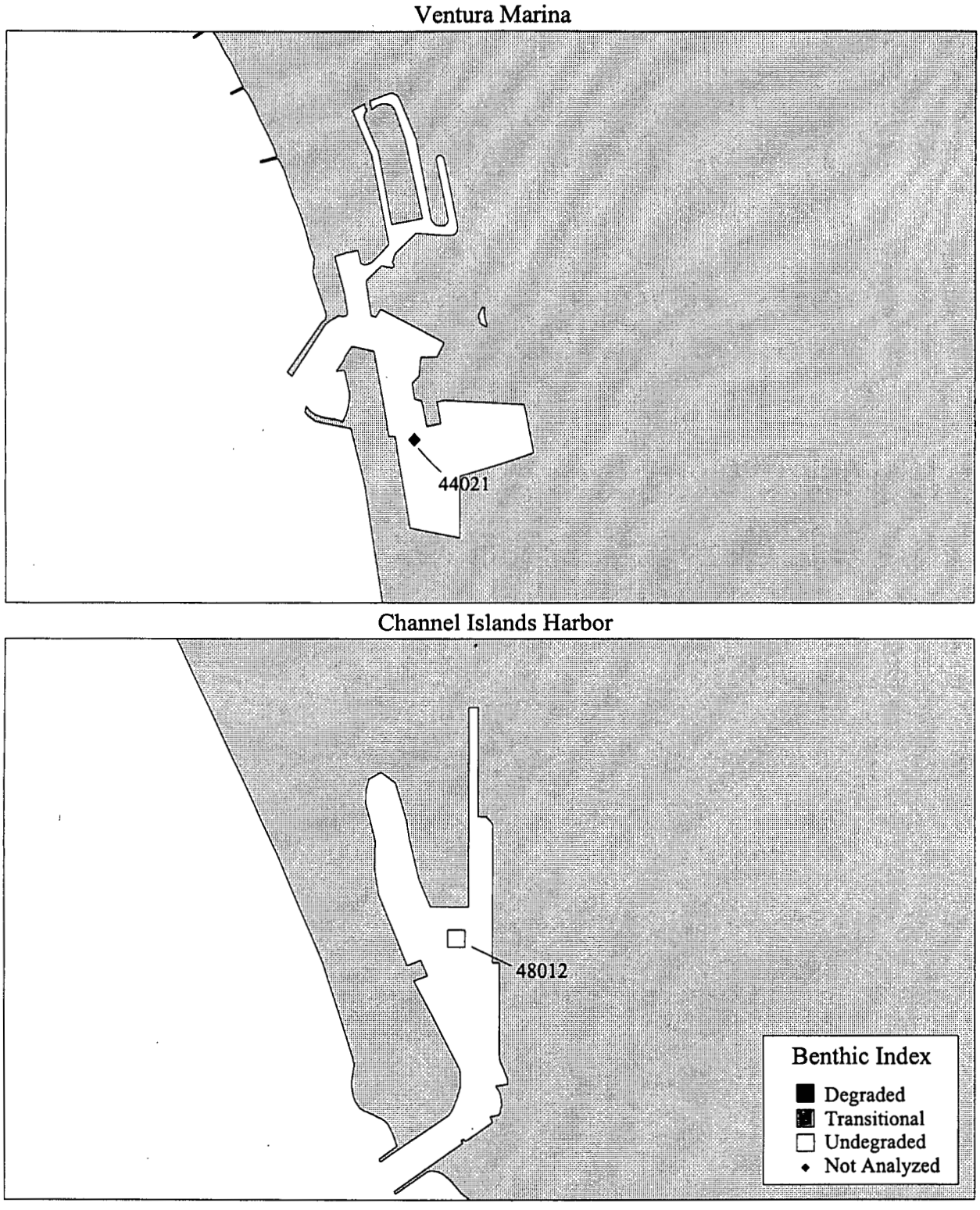
Los Alamitos Bay



Figures 51a and 51b. Distribution of Stations in Shoreline Marina (a), and Los Alamitos Bay (b), Demonstrating Benthic Community Structure.



Figures 52a and 52b. Distribution of Stations in King Harbor (a), and Marina Del Rey (b), Demonstrating Benthic Community Structure.



Figures 53a and 53b. Distribution of Stations in Ventura Harbor (a), and Channel Islands Harbor (b), Demonstrating Benthic Community Structure.

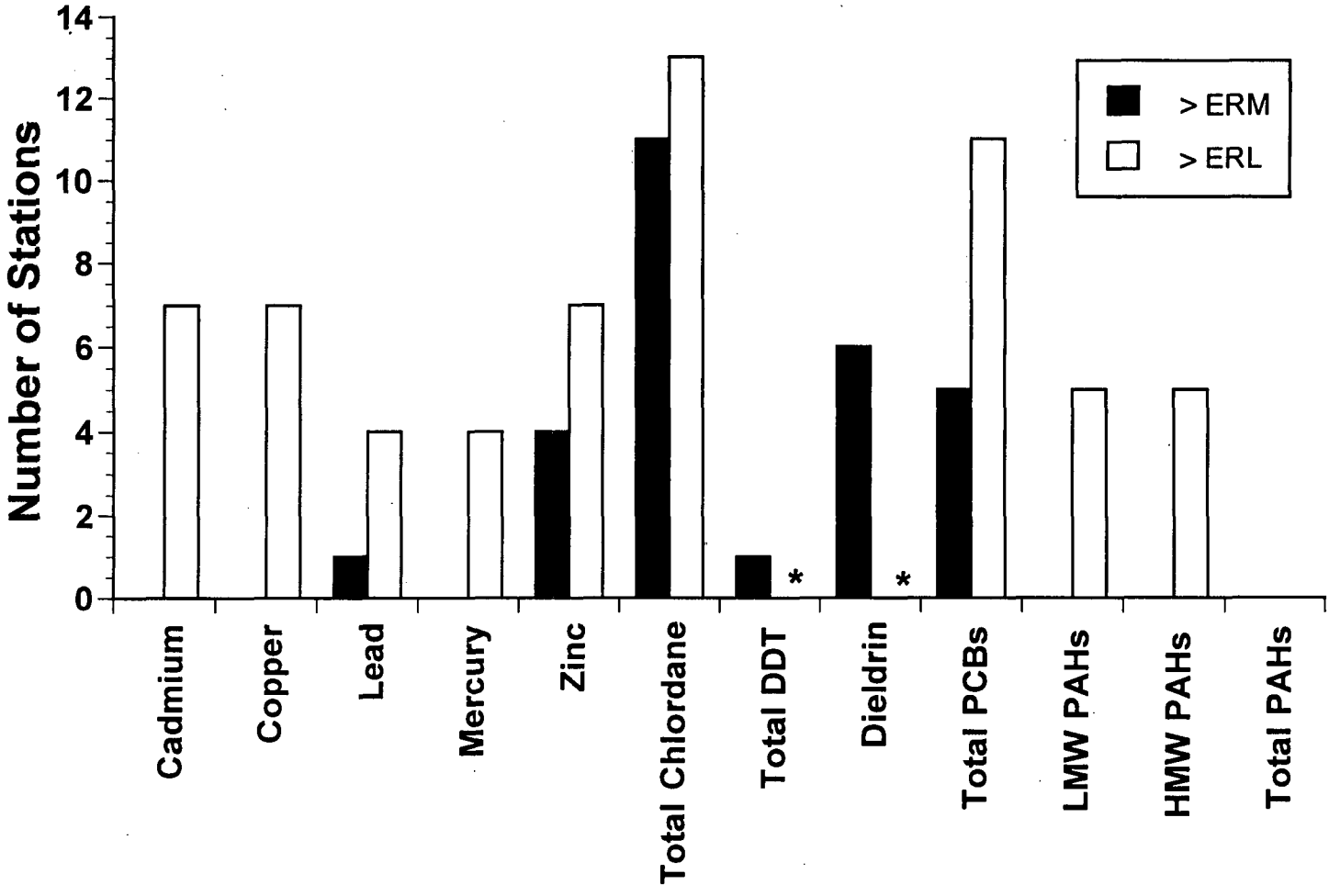
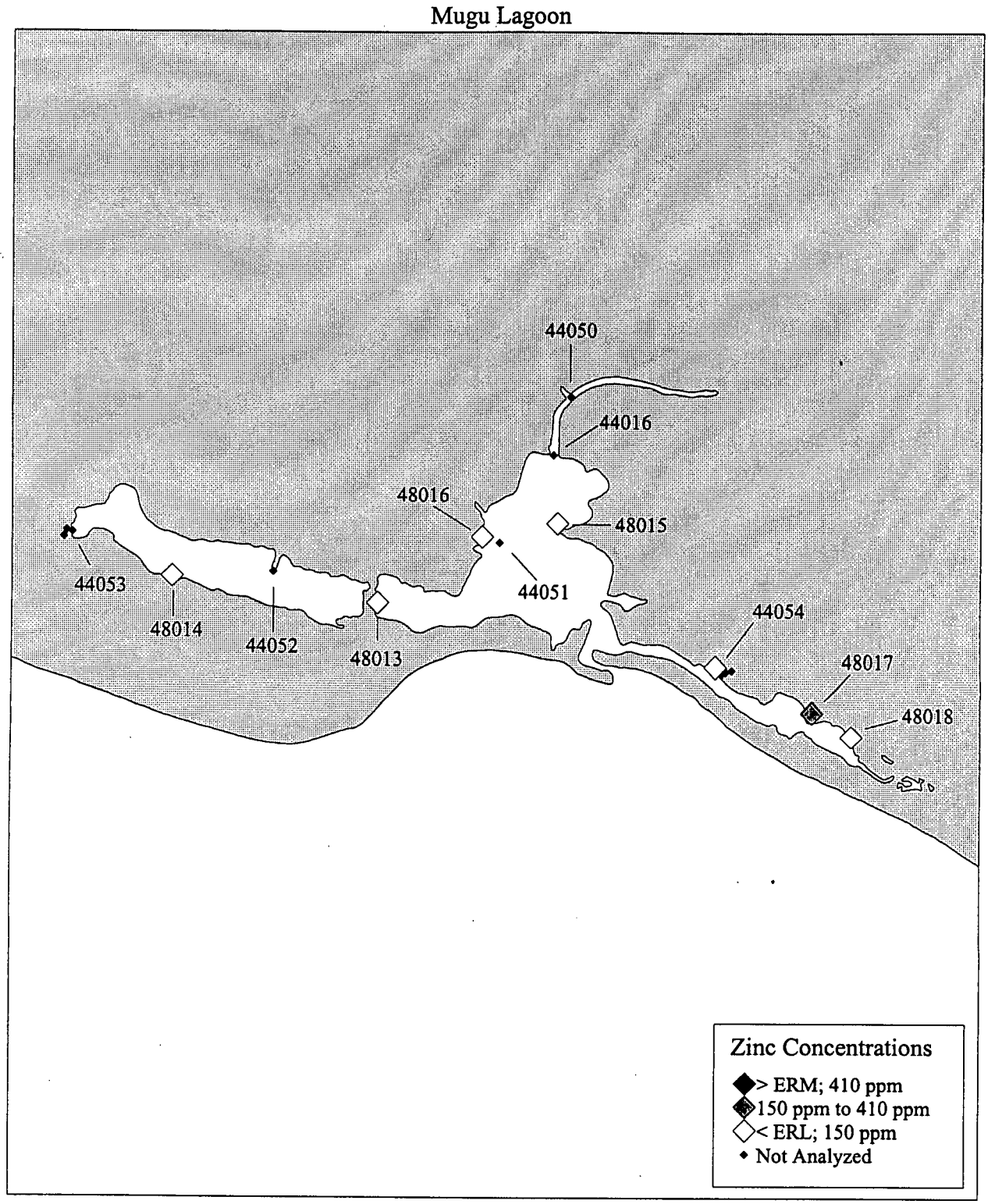
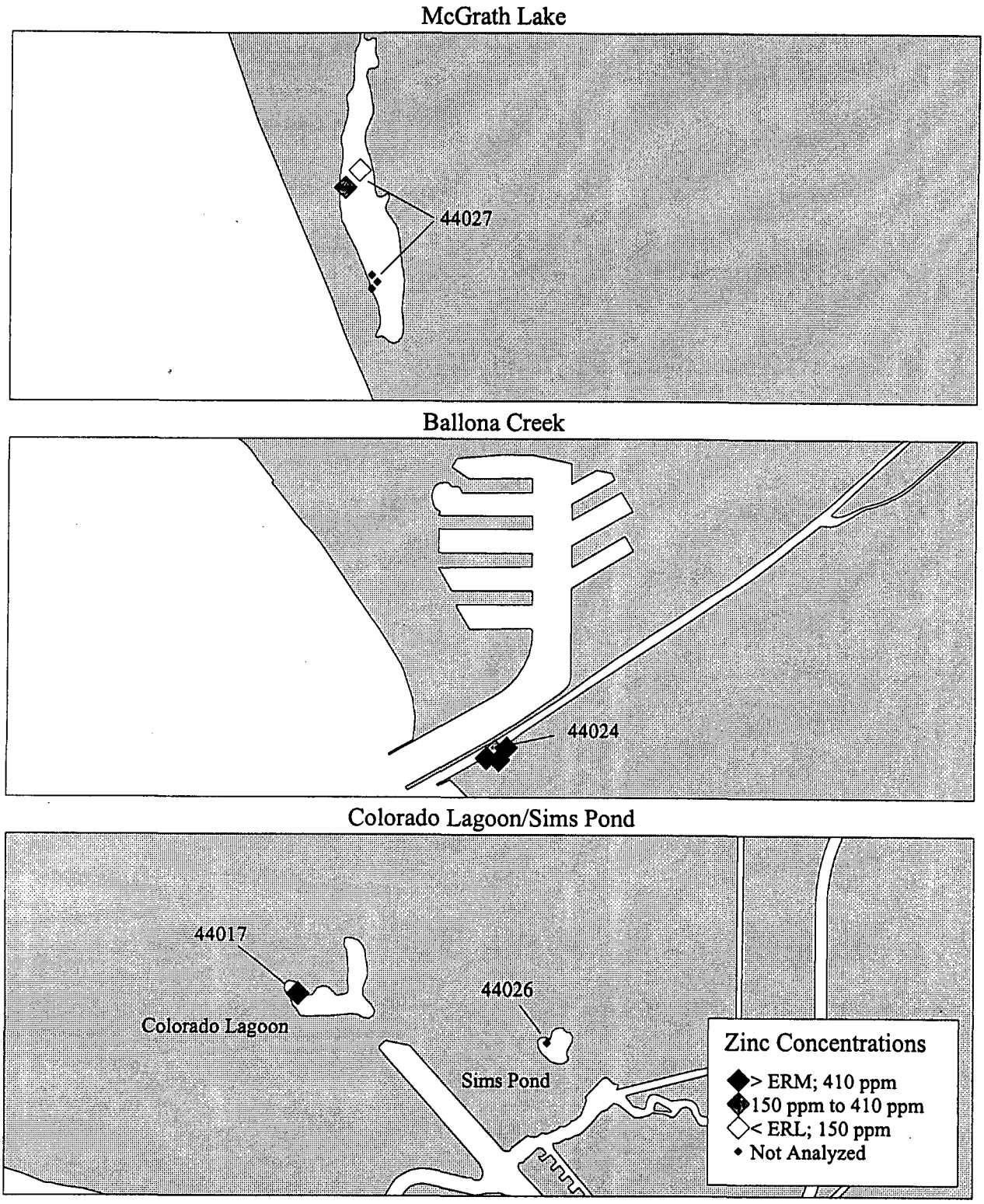


Figure 54 . Number of Lagoon station samples exceeding either the ERM or ERL sediment quality guidelines. (Total DDT was compared to the Swartz *et al.* sediment effect concentration, 100 ug/g OC. * no ERL exceedances were calculated for Total DDT or Dieldrin; see text for details).



Figures 55. Distribution of samples in Mugu Lagoon exceeding the ERM for Zinc.



Figures 56a, 56b, and 56c. Distribution of samples in McGrath Lake (a), Ballona Creek (b), and Colorado Lagoon/Sims Pond (c), exceeding the ERM for Zinc.

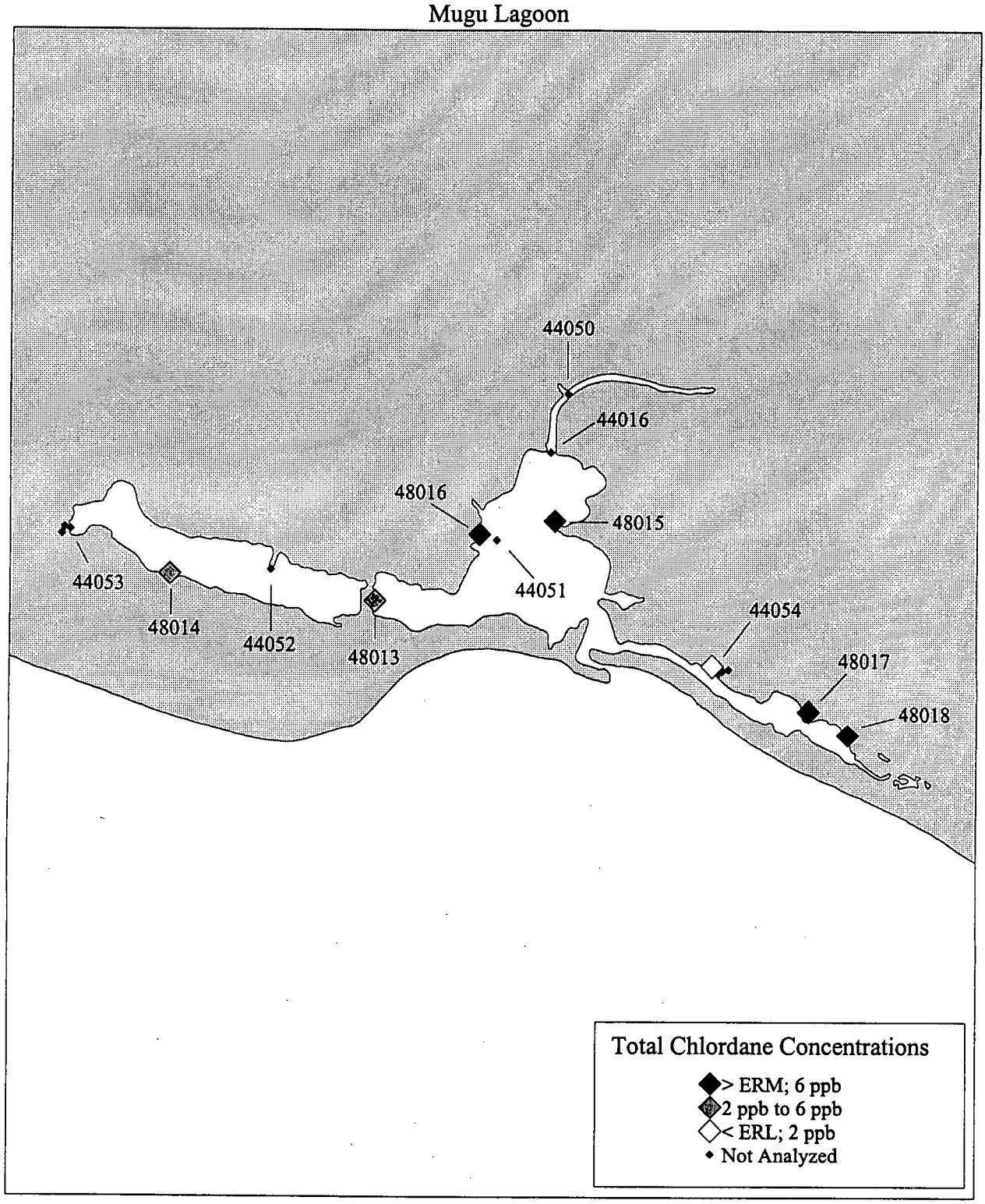
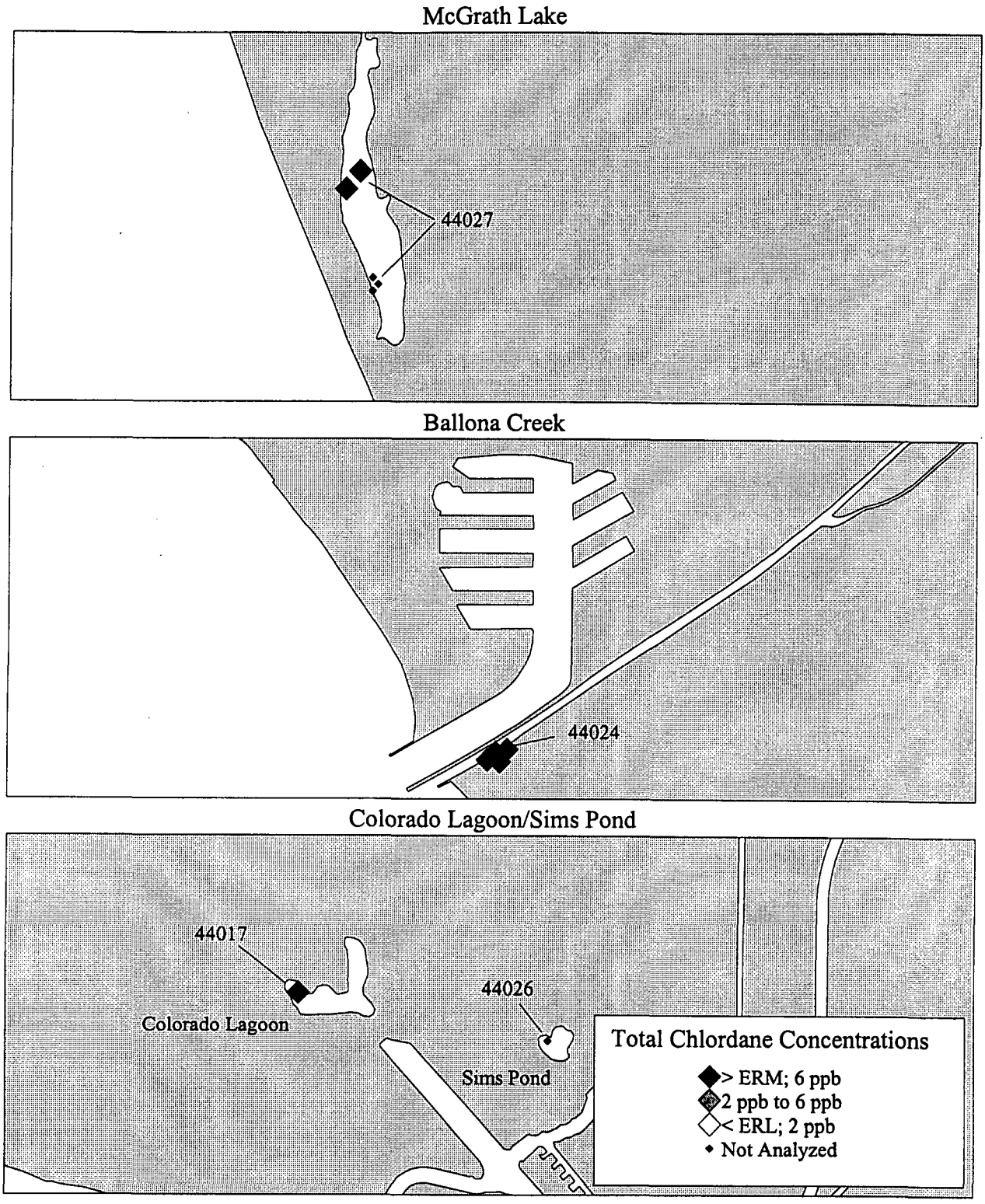


Figure 57. Distribution of samples in Mugu Lagoon exceeding the ERM for Total Chlordane.



Figures 58a, 58b, and 58c. Distribution of samples in McGrath Lake (a), Ballona Creek (b), and Colorado Lagoon/Sims Pond (c), exceeding the ERM for Total Chlordane.

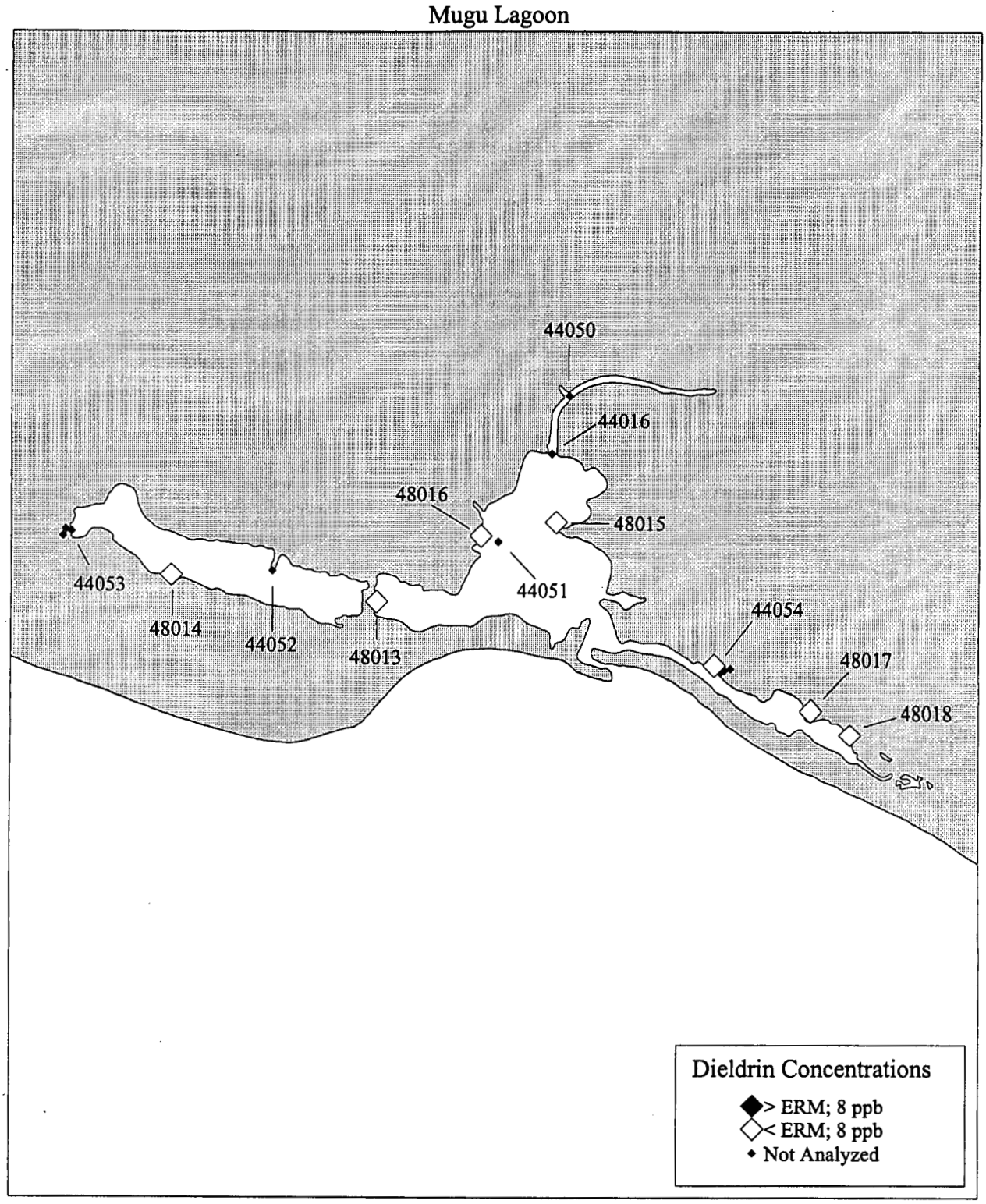
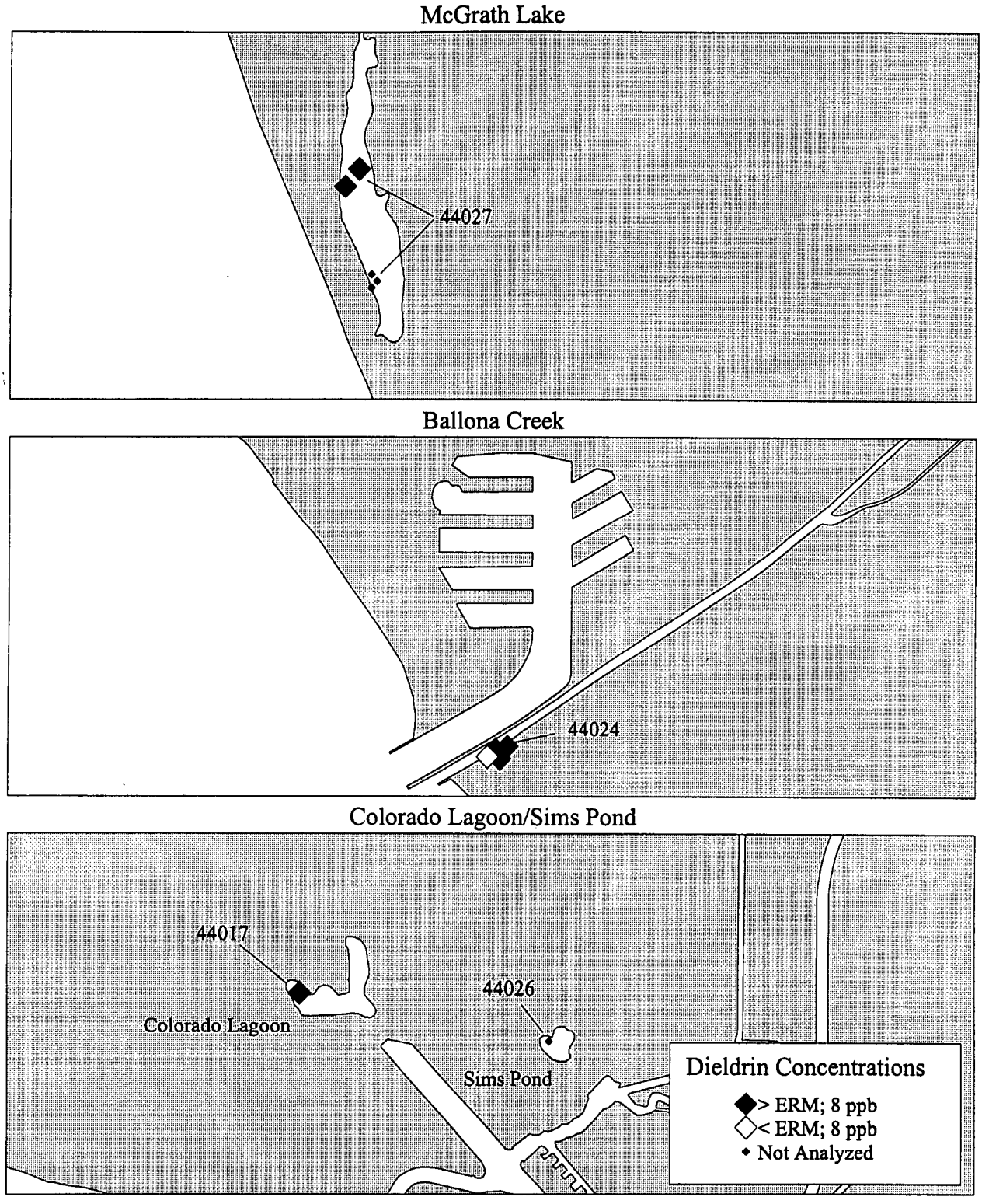


Figure 59. Distribution of samples in Mugu Lagoon exceeding the ERM for Dieldrin.



Figures 60a, 60b, and 60c. Distribution of samples in McGrath Lake (a), Ballona Creek (b), and Colorado Lagoon/Sims Pond (c), exceeding the ERM for Dieldrin.

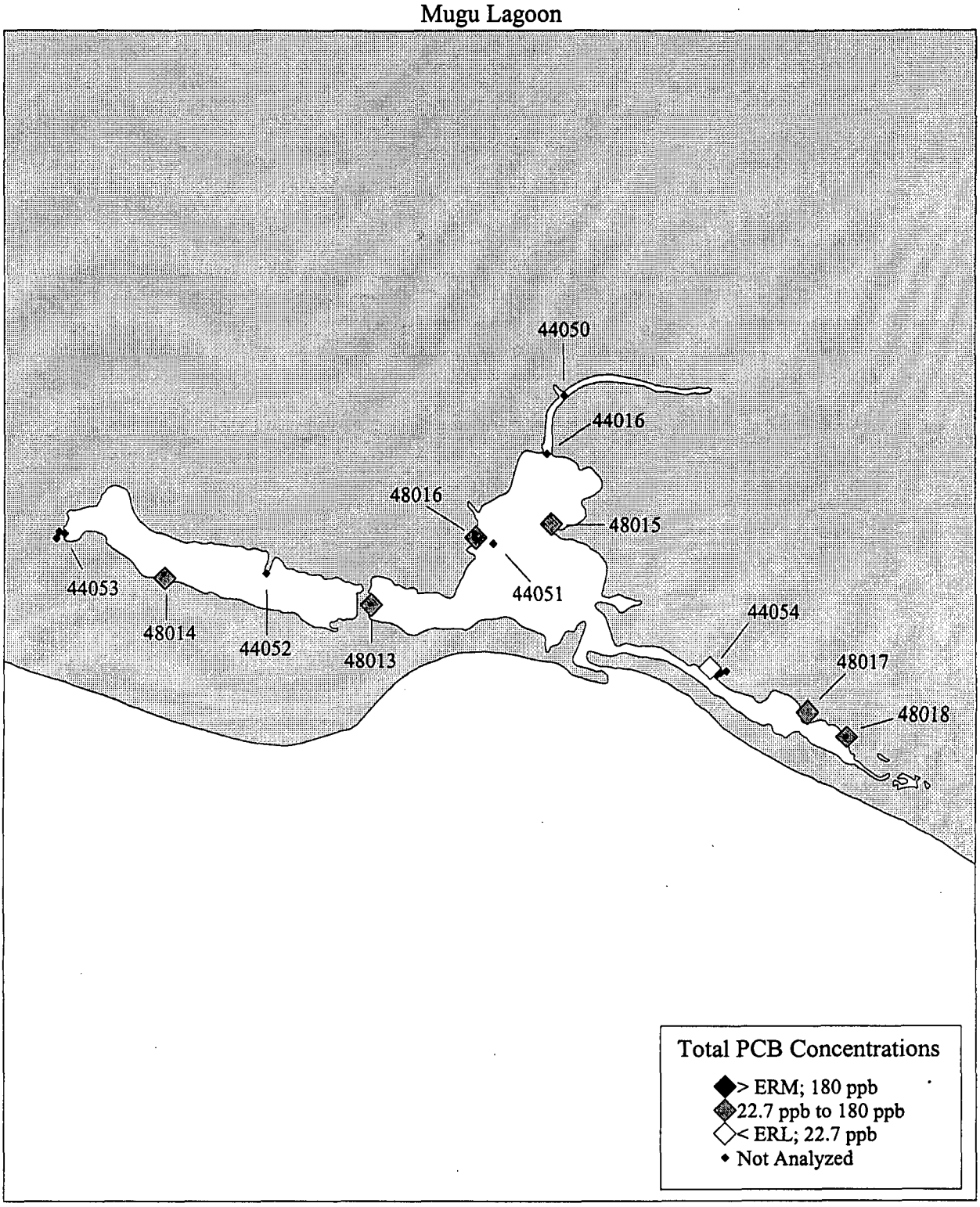
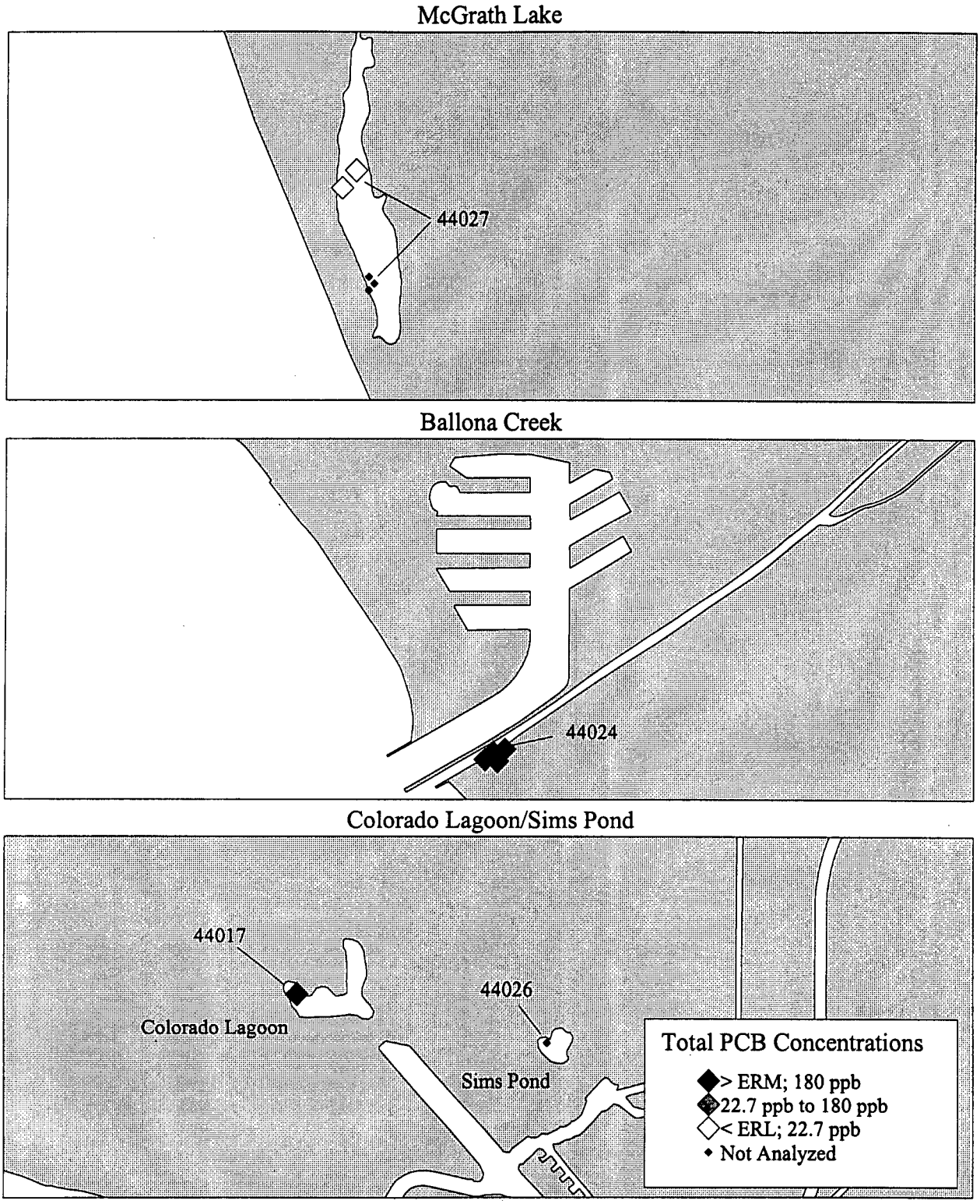


Figure 61. Distribution of samples in Mugu Lagoon exceeding the ERM for Total PCB.



Figures 62a, 62b, and 62c. Distribution of samples in McGrath Lake (a), Ballona Creek (b), and Colorado Lagoon/Sims Pond (c), exceeding the ERM for Total PCB.

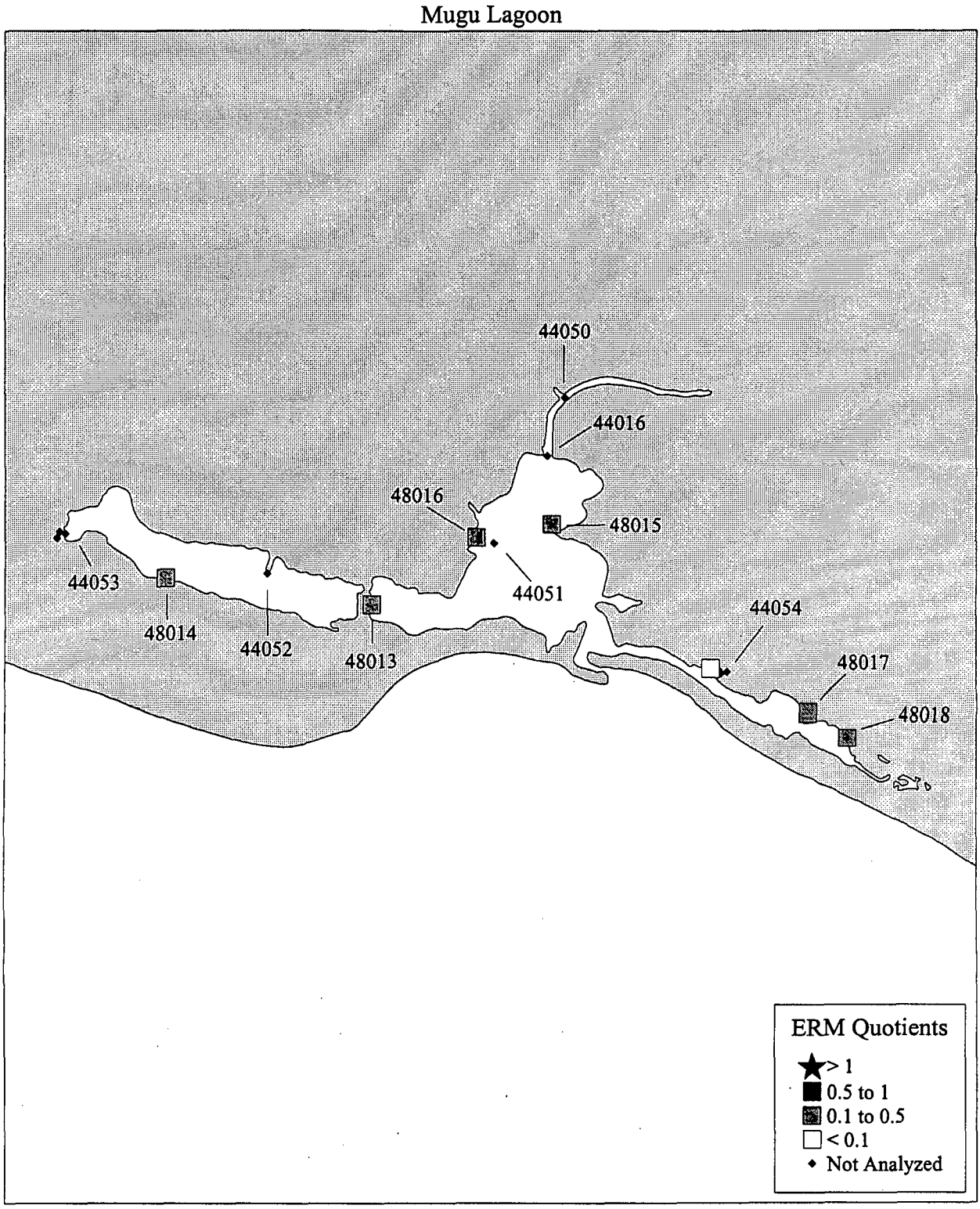
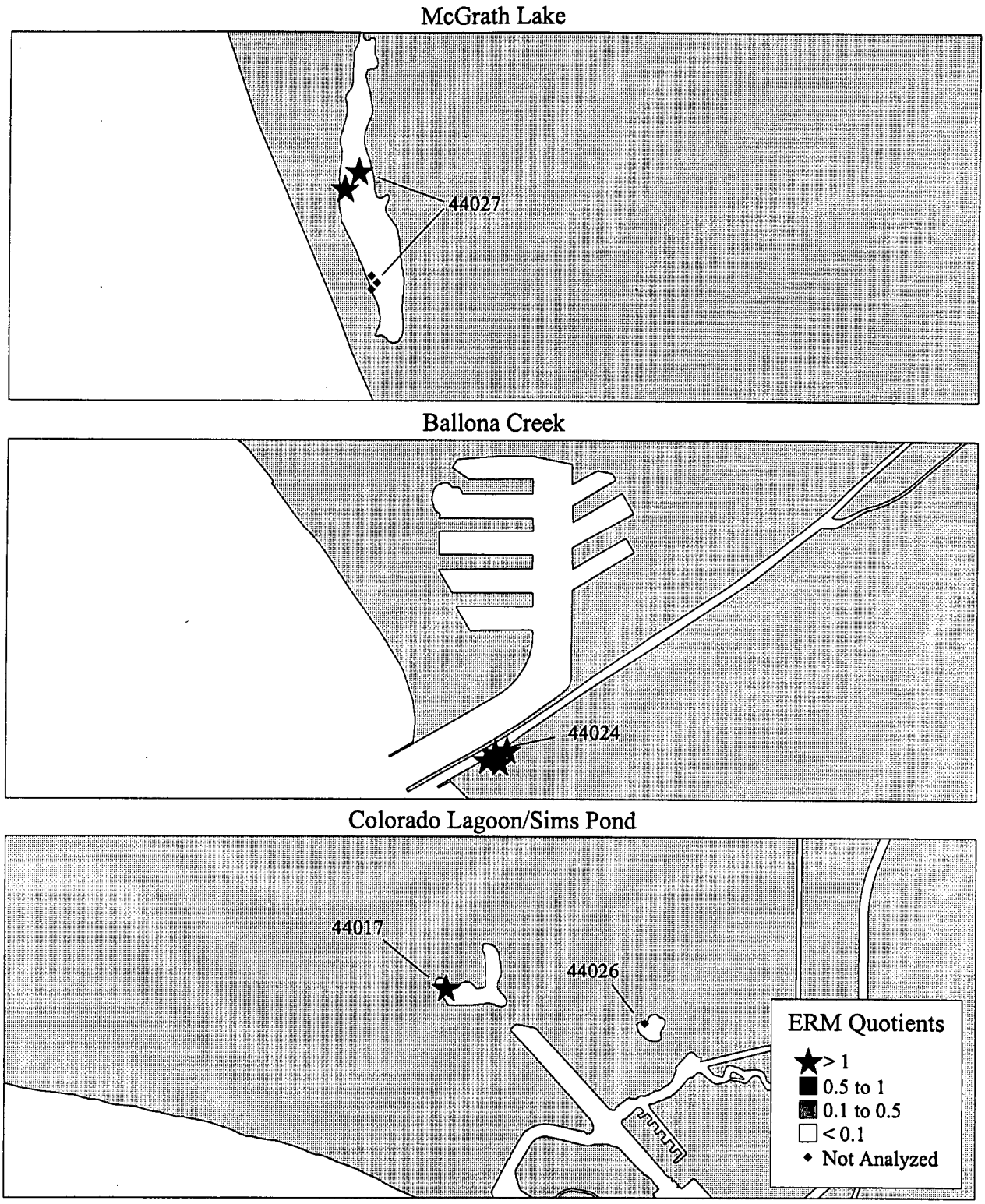


Figure 63. ERM values at Mugu Lagoon Sampling Stations.



Figures 64a, 64b, and 64c. ERM values at McGrath Lake (a), Ballona Creek (b), and Colorado Lagoon/Sims Pond (c), Sampling Stations.

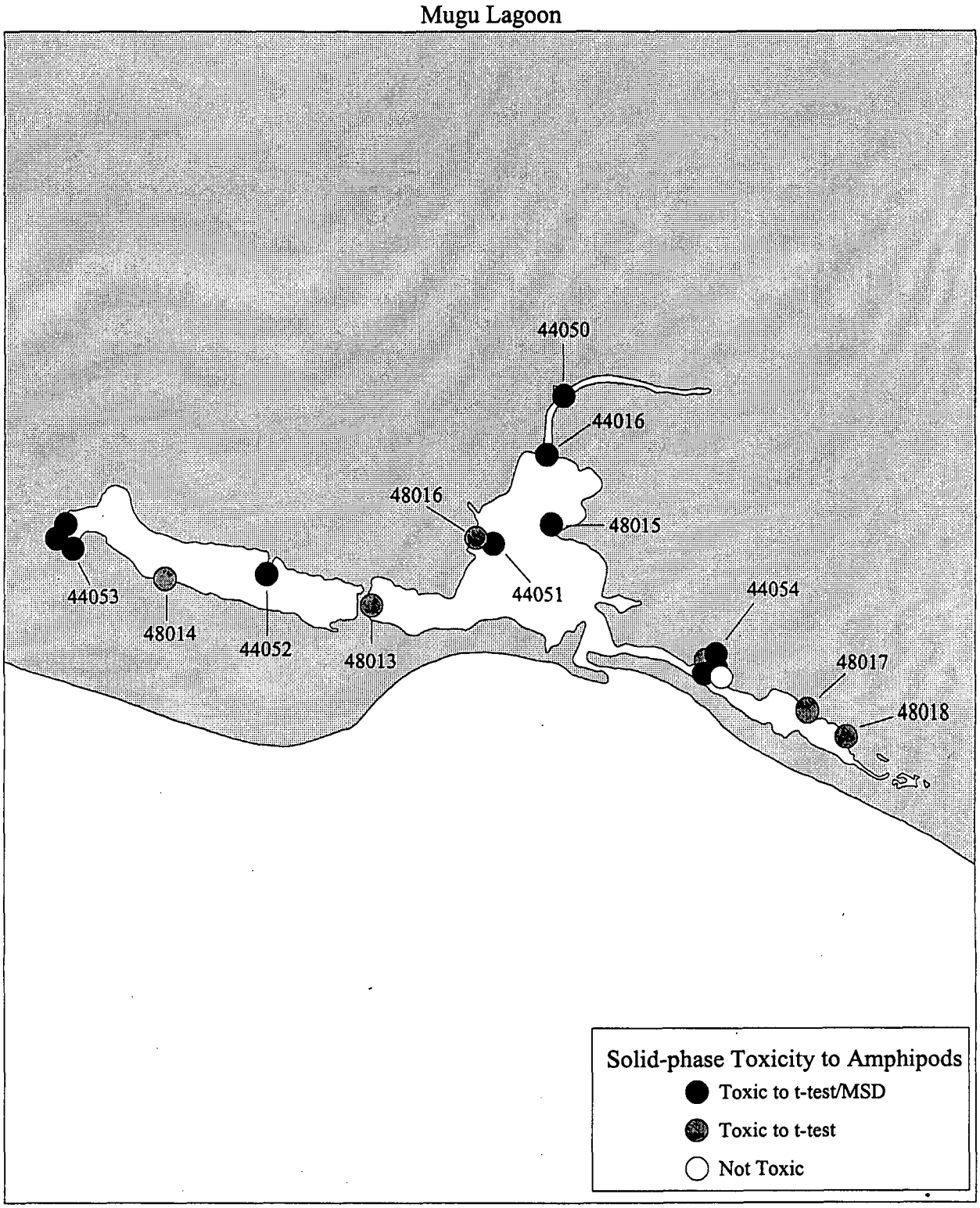


Figure 65. Toxicity of Sediment Samples in Mugu Lagoon.

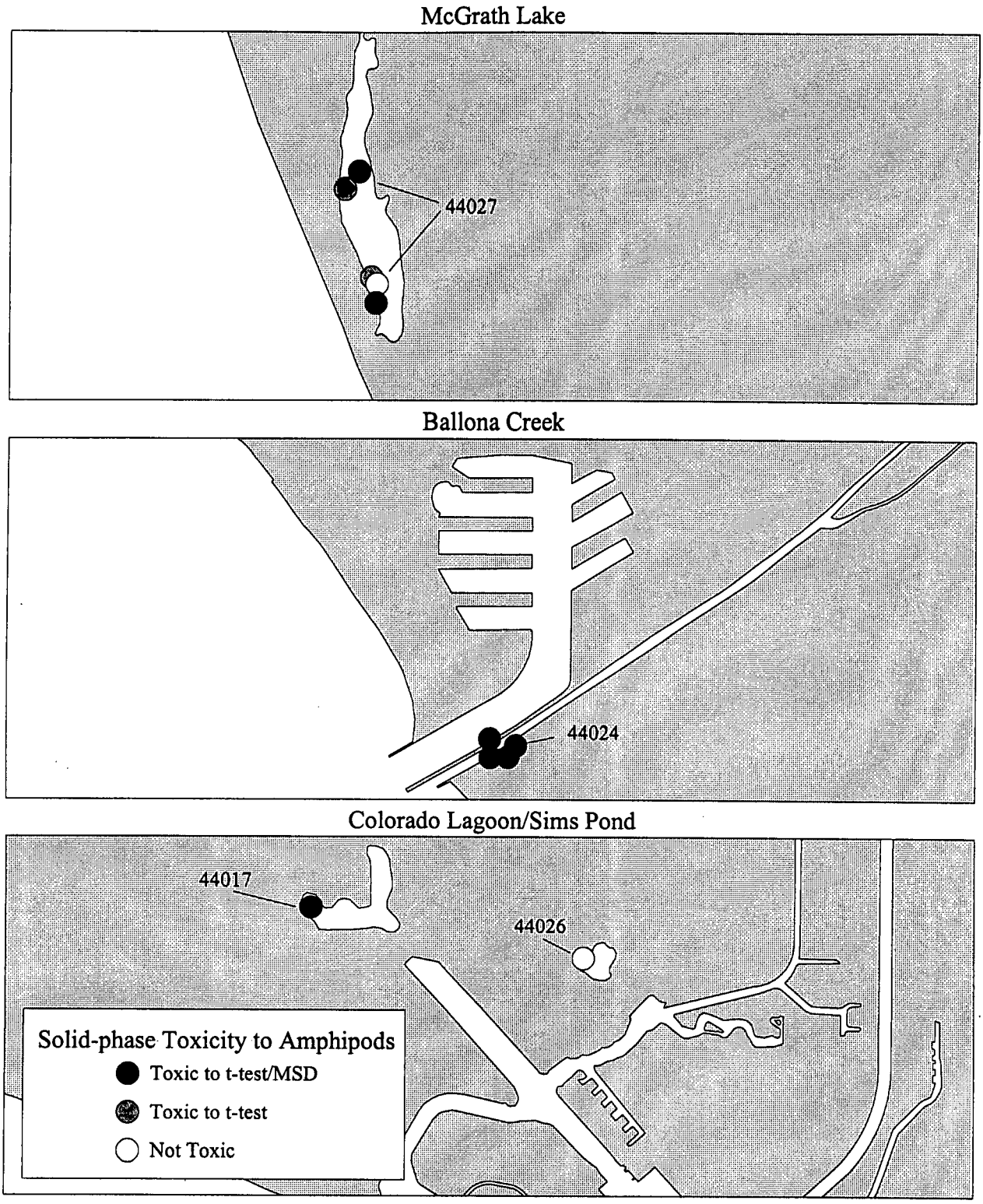
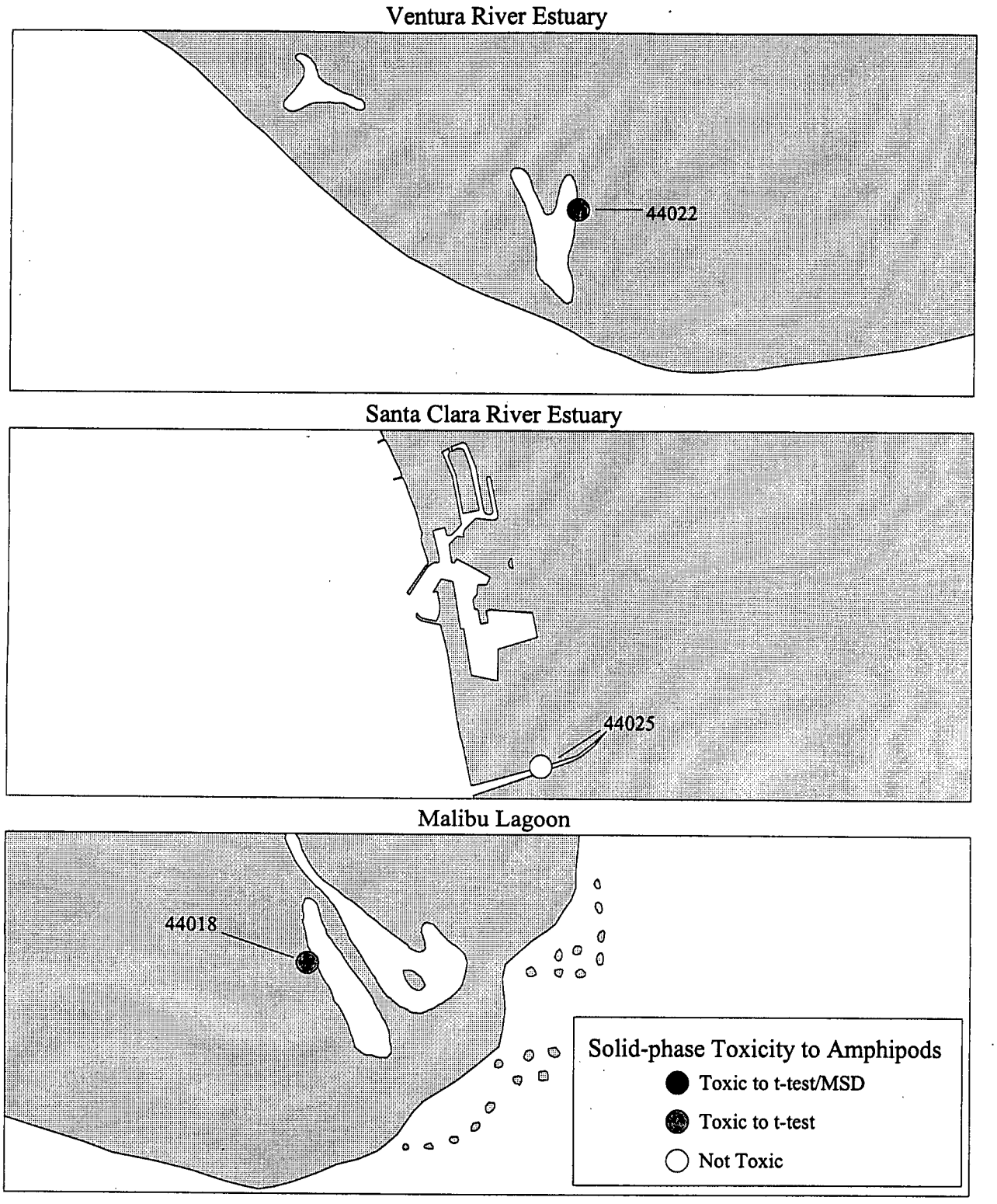


Figure 66a, 66b, and 66c. Toxicity of Sediment Samples in McGrath Lake (a), Ballona Creek (b), and Colorado Lagoon/Sims Pond (c).



Figures 67a, 67b, and 67c. Toxicity of Sediment Samples in Ventura River Estuary (a), Santa Clara River Estuary (b), and Malibu Lagoon (c).

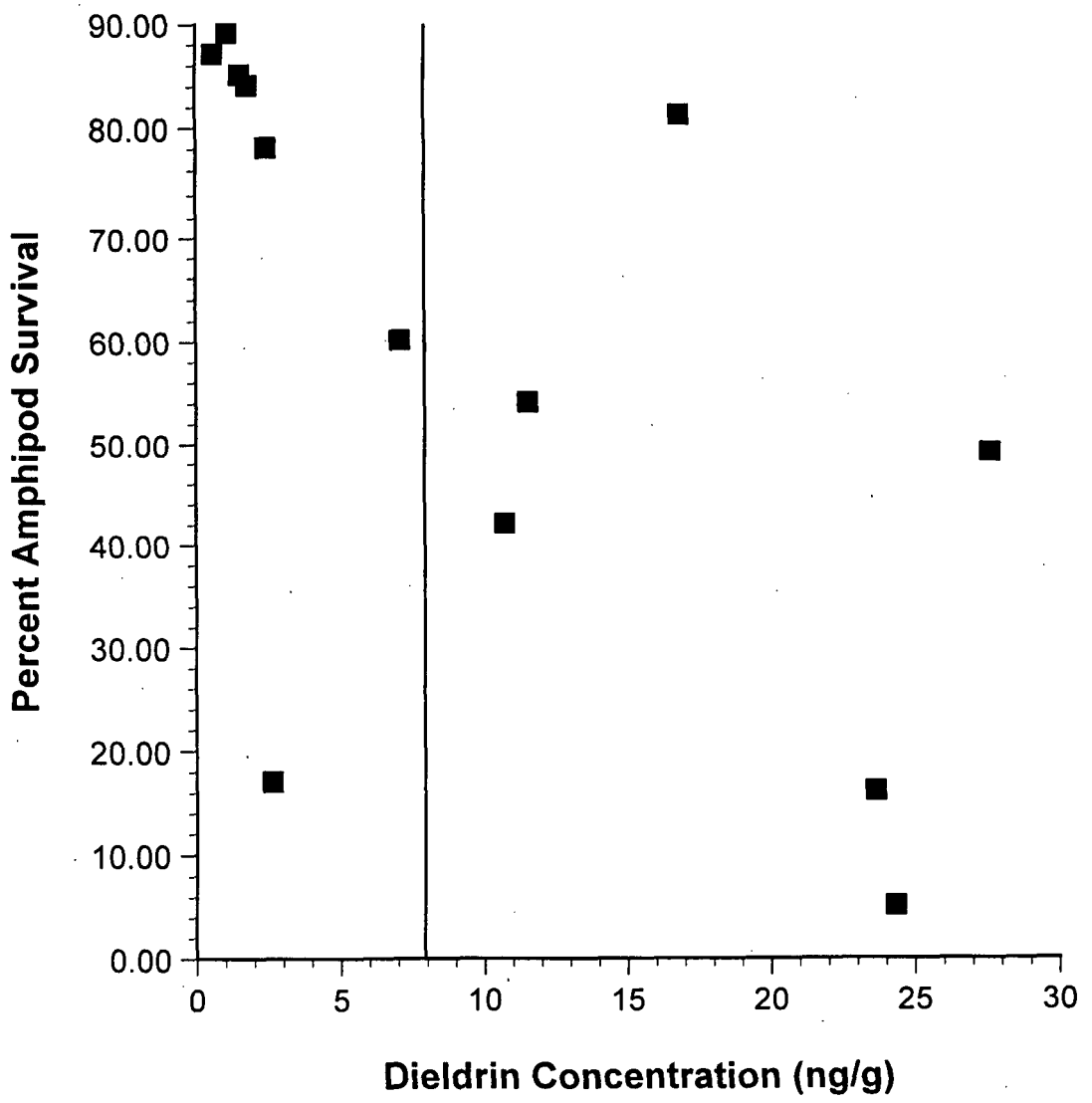


Figure 68. Amphipod survival at Lagoon stations in relation to Dieldrin concentrations. Vertical line indicates ERM guideline value.

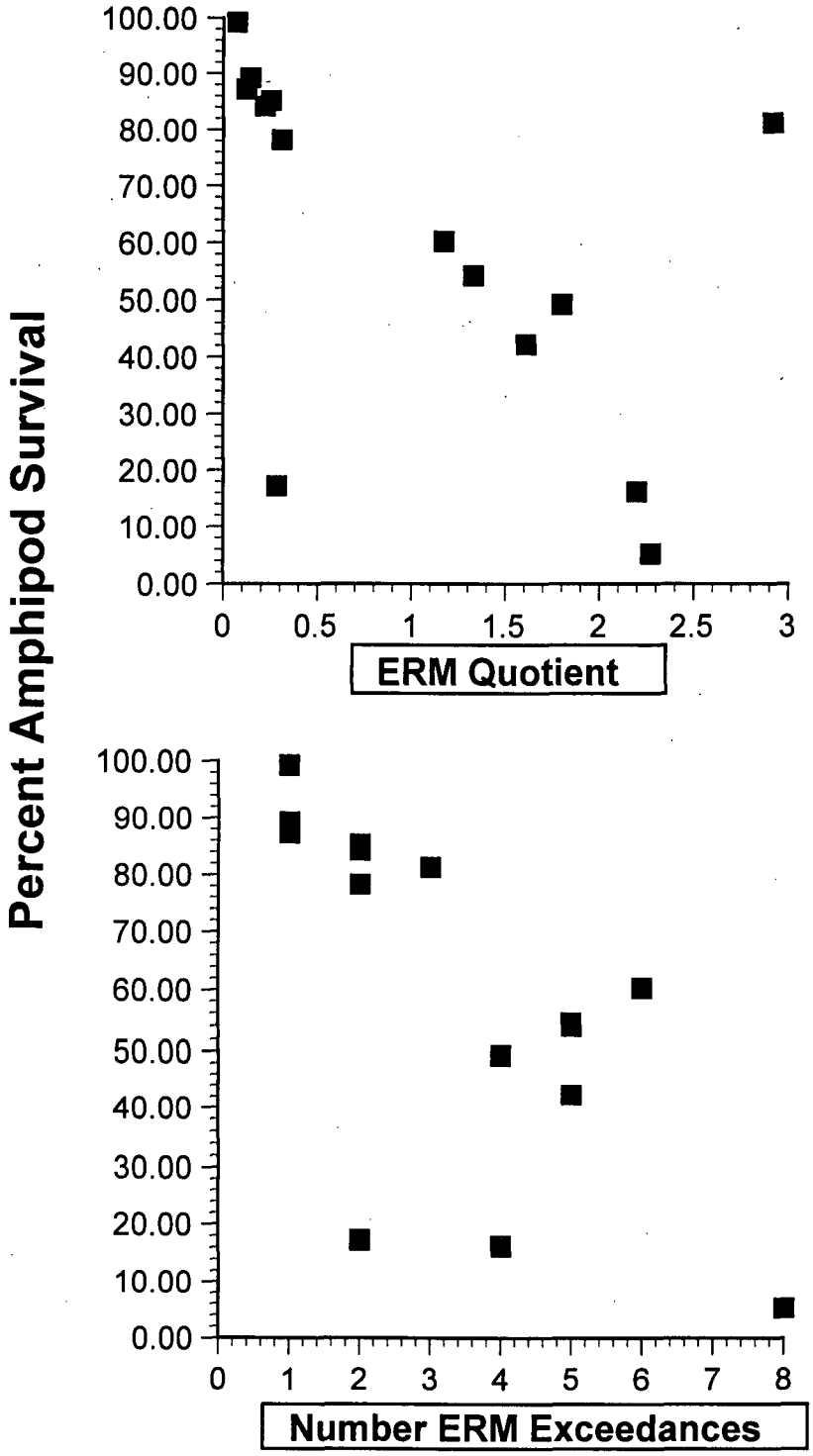


Figure 69 . Amphipod survival at Lagoon stations in relation to average ERM Quotient and Number of ERM Exceedances.

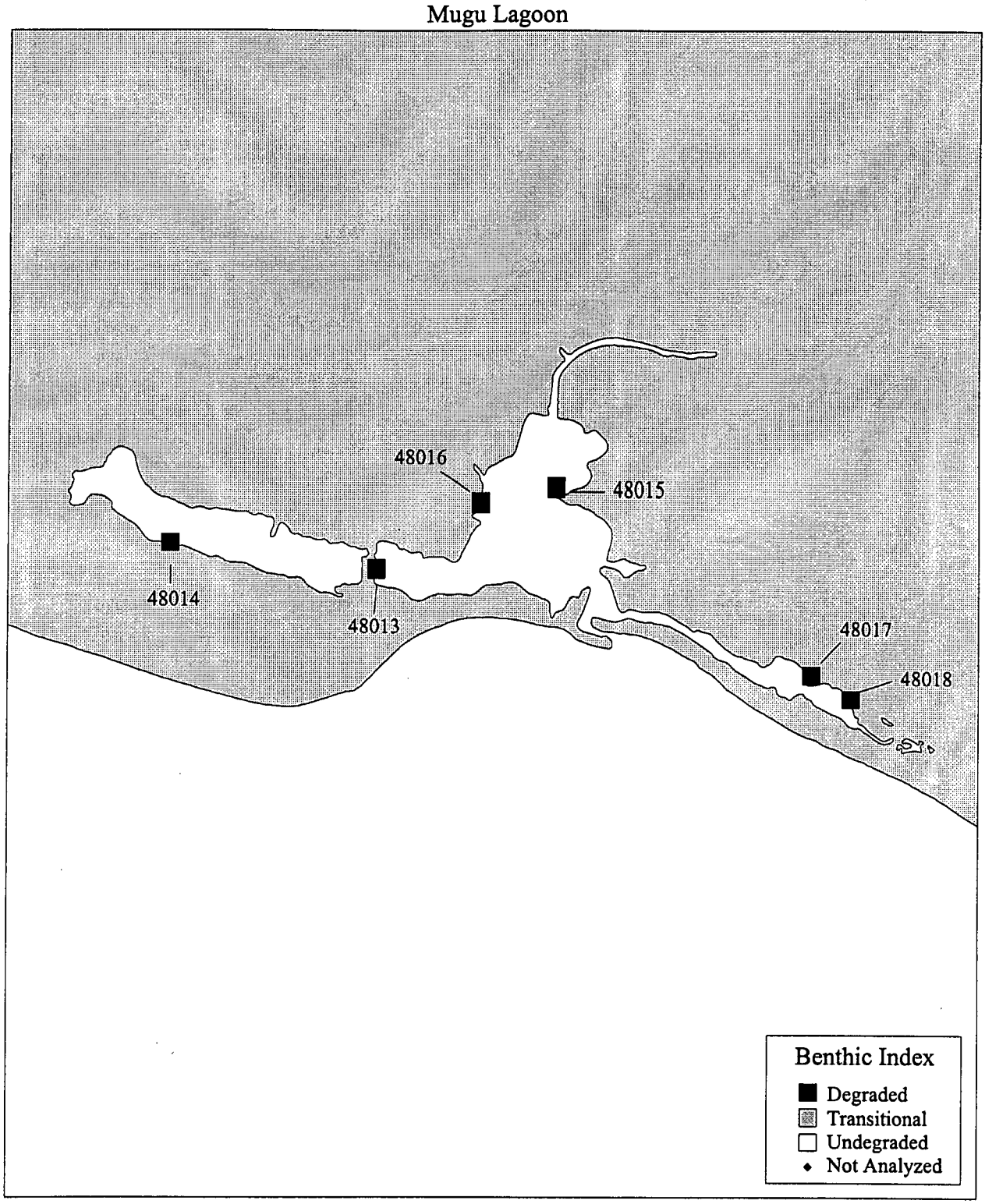


Figure 70. Distribution of Stations in Mugu Lagoon Demonstrating Benthic Community Structure.

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SEDIMENT CHEMISTRY, TOXICITY, AND BENTHIC COMMUNITY CONDITIONS IN SELECTED WATER BODIES OF THE LOS ANGELES REGION

APPENDIX A-D

California State Water Resources Control Board
Division of Water Quality
Bay Protection and Toxic Cleanup Program

California Regional Water Quality Control Board
Los Angeles Region

California Department of Fish and Game
Marine Pollution Studies Laboratory

University of California, Santa Cruz
Institute of Marine Sciences

San Jose State University
Moss Landing Marine Laboratories

August 1998

COV0082

Appendix A

Data Base Description

DATABASE DESCRIPTION

for the

Bay Protection and Toxic Cleanup Program

Prepared for:

California State Water Resources Control Board
Bays and Estuaries Unit

and

California Department of Fish and Game
Marine Pollution Studies Laboratories

by

Moss Landing Marine Laboratories

I. OVERVIEW OF THE BAY PROTECTION PROGRAM

The California State Water Resources Control Board (SWRCB) has contracted the California Department of Fish and Game (CDFG) to coordinate the scientific aspects of the Bay Protection and Toxic Cleanup Program (BPTCP), a SWRCB program mandated by the California Legislature. The BPTCP is a comprehensive, long-term effort to regulate toxic pollutants in California's enclosed bays and estuaries. The program consists of both short-term and long-term activities. The short-term activities include the identification and priority ranking of toxic hot spots, development and implementation of regional monitoring programs designed to identify toxic hot spots, development of narrative sediment quality objectives, development and implementation of cleanup plans, revision of waste discharge requirements as needed to alleviate impacts of toxic pollutants, and development of a comprehensive database containing information pertinent to describing and managing toxic hot spots. The long-term activities include development of numeric sediment quality objectives; development and implementation of strategies to prevent the formation of new toxic hot spots and to reduce the severity of effects from existing toxic hot spots; revision of water quality control plans, cleanup plans, and monitoring programs; and maintenance of the comprehensive database.

Actual field and laboratory work is performed under contract by the California Department of Fish and Game (CDFG). The CDFG subcontracts the toxicity testing to Dr. Ron Tjeerdema at the University of California at Santa Cruz (UCSC) and the laboratory testing is performed at the CDFG toxicity testing laboratory at Granite Canyon, south of Carmel. The CDFG contracts the majority of the sample collection activities to Dr. John Oliver of San Jose State University at the Moss Landing Marine Laboratories (MLML) in Moss Landing. Dr. Oliver also is subcontracted to perform the TOC and grain size analyses, as well as to perform the benthic community analyses. CDFG personnel perform the trace metals analyses at the trace metals facility at Moss Landing Marine Laboratories in Moss Landing. The synthetic organic pesticides, PAHs and PCBs are contracted by CDFG to Dr. Ron Tjeerdema at the UCSC trace organics facility at Long Marine Laboratory in Santa Cruz. MLML currently maintains the Bay Protection and Toxic Cleanup Database for the SWRCB. Described below is a description of that database system.

II. DESCRIPTION OF COMPUTER FILES

The sample collection/field information, chemical, and toxicity data are stored on hard copy, computer disks and on a 486DX PC at Moss Landing Marine Laboratories. Access is limited to Russell Fairey. Contact Russell Fairey at (408) 633-6035 for copies of data. The data are stored in a dBase 4 program and can be exported to a variety of formats. There are three backups of this database stored in two different laboratories. The data are entered into 1 of 5 files. CHEM1_56.DBF file contains a collection of chemical analyses data in sediments. TOX1_56.DBF file contains toxicity test data and associated water quality data. TISS1_56.DBF file contains a collection of chemical analyses in tissue matrix. WATR1_56.DBF file contains a collection of chemical analyses in water. BEN1_56.XLS file contains a summary of benthic community analyses. This file is

stored in Excel 5.0. A hardcopy printout of the dBase database structure is attached, showing precise characteristics of each field.

The CHEM1_56.DBF file contains the following fields (the number at the start of each field is the field number):

1. STANUM. This numeric field is 7 characters wide with 1 decimal place and contains the CDFG station numbers that are used statewide. The format is YXXXX.Z where Y is the Regional Water Quality Control Board Region number and XXXX is the number that corresponds to a given location or site and Z is the number of the station within that site. An example is San Pablo Bay- Island #1, in San Francisco Bay, where the STANUM is 20007.0. The 2 indicates Region 2. The 0007 indicates it is Site 7 and the .0 is the replicate (if any) at the station within Site 7.
2. STATION. This character field is 30 characters wide and contains the exact name of the station.
3. IDORG. This numeric field is 8 characters wide and contains the unique i.d. organizational number for the sample. For each station collected on a unique date, an idorg sample number is assigned. This should be the field that links the collection, toxicity, chemical, and other databases.
4. DATE. This date field is 8 characters wide and is the date that each sample was collected in the field. It is listed as MM/DD/YY.
5. LEG. This numeric field is 6 characters wide with 1 decimal place, and is the leg number of the project in which the sample was collected.
6. LATITUDE. This character field is 12 characters wide and contains the latitude of the center of the station sampled. The format is a character field as follows: XX,YY,ZZ, where XX is in degrees, YY is in minutes, and ZZ is in seconds or hundreds.
7. LONGITUDE. This character field is 14 characters wide and contains the longitude of the center of the station sampled. The format is a character field as follows: XXX,YY,ZZ, where XXX is in degrees, YY is in minutes, and ZZ is in seconds or hundreds.
8. HUND_SECS. This character field is 3 characters wide and contains the designation "h" if the latitude and longitude are given in degrees, minutes, hundredths of a minute. If differential accuracy was achieved with the GPS at the station the designation is given as "h/d". The designation "s" is given when latitude and longitude are given in degrees, minutes, seconds.
9. GISLAT. This numeric field is 12 characters wide with 8 decimal places and contains the latitude of the station sampled in Geographical Information System format. The format is a numeric field as follows: XX.YYYYYYYY, where XX is in degrees and YYYYYYYY is a decimal fraction of the preceding degree.
10. GISLONG. This numeric field is 14 characters wide with 8 decimal places and contains the longitude of the station sampled. The format is a character field as follows: XXXX.YYYYYYYY where XXXX is in degrees and YYYYYYYY is a decimal fraction of the preceding degree.

11. DEPTH. This character field is 4 characters wide and contains the depth at which the sediment sample was collected, in meters to the nearest one half meter.
12. METADATA. This is a text index directing the user to tables or files of ancillary data pertinent to the associated data file. Character field, width 12.

TRACE METALS IN SEDIMENT are presented in fields 13 through 32. All sediment trace metal results are reported on a dry weight basis in parts per million (ppm).

A. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed.
B. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected.

Sediment trace metals are numeric fields of varying character width, and including the following elements, listed by field number, then field name as it appears in the database, then numeric character width and number of decimal places:

13. TMMOIST. 6.2
14. ALUMINUM. 9.2
15. ANTIMONY. 7.3
16. ARSENIC. 6.3
17. CADMIUM. 7.4
18. CHROMIUM. 8.3
19. COPPER. 7.2
20. IRON. 7.1
21. LEAD. 7.3
22. MANGANESE. 7.2
23. MERCURY. 7.4
24. NICKEL. 7.3
25. SILVER. 7.4
26. SELENIUM. 6.3
27. TIN. 8.4
28. ZINC. 9.4
29. ASBATCH. 5.1
30. SEBATCH. 5.1
31. TMBATCH. The Batch number that the sample was digested in, numeric field width of 5 with 2 decimal place.
32. TMDATAQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 3. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are

made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA samples has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

TRACE METALS IN POREWATER are presented in fields 33 through 43. All porewater trace metal results are reported on a dry weight basis in parts per billion (ppb).

A. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed.

B. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected.

The porewater trace metals are numeric fields of varying character width, and including the following elements, listed by field number, then field name as it appears in the database, then numeric character width and number of decimal places:

33. PWAL. This field is porewater aluminum. 5.0
34. PWCD. This field is porewater cadmium. 5.3
35. PWCU. This field is porewater copper. 5.2
36. PWFE. This field is porewater iron. 6.0
37. PWPB. This field is porewater lead. 6.2
38. PWMN. This field is porewater manganese. 5.0
39. PWNI. This filed is porewater nickel. 5.2
40. PWAG. This field is porewater silver. 6.4
41. PWZN. This field is porewater zinc. 6.1
42. PWBATCH. The batch number the sample was extracted in, character field width 11.
43. PWDATAQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 3. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".

B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA samples has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

AVS/SEM concentrations are presented in fields 44 through 53. All AVS/SEM results are reported on a dry weight basis in parts per million (ppm or ug/g). Acid volatile sulfides (AVS) and simultaneous extracted metals (SEM) are numeric fields of varying character width, and including the following elements, listed by field number, then field name as it appears in the database, then numeric character width and number of decimal places.

44. AVS. 7.2
45. SEM_CD. 7.4
46. SEM_CU. 7.2
47. SEM_NI. 7.3
48. SEM_PB. 7.3
49. SEM_ZN. 9.4
50. SEM_SUM. 9.4
51. SEM_AVS. 9.3
52. AVS_BATCH. The batch number the sample was extracted in, numeric field width 5.
53. AVSDATAQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 3. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.
C. When the QA samples has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".
D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

SYNTHETIC ORGANICS are presented in fields 54 through 173 . All synthetic organic results are reported on a dry weight basis in parts per billion (ppb or ng/g).

A. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed.
B. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected.

Synthetic organics are reported on a dry weight basis in parts per billion (ppb or ng/g) and are numeric fields of varying width, and include the following compounds, listed by field number, then field name as it appears in database (and followed by the compound name if not obvious), and then finally, the numeric character width and number of decimal places is given:

54. SOWEIGHT. This numeric field is 6 characters wide with 2 decimal places and contains the weight of the sample extracted for analysis.
55. SOMOIST. This numeric field is 6 characters wide with 2 decimal places and contains the percent moisture of the sample extracted.
56. ALDRIN. 9.3
57. CCHLOR. cis-Chlordane. 9.3
58. TCHLOR. trans-Chlordane. 9.3
59. ACDEN. alpha-Chlordene. 9.3
60. GCDEN. gamma-Chlordene. 9.3
61. CLPYR. Chlorpyrifos (Dursban). 8.2
62. DACTH. Dacthal. 9.3
63. OPDDD. o,p'-DDD. 8.2
64. PPDDD. p,p'-DDD. 9.3
65. OPDDE. o,p'-DDE. 8.2
66. PPDDE. p,p'-DDE. 8.2
67. PPDDMS. p,p'-DDMS. 8.2
68. PPDDMU. p,p'-DDMU. 8.2
69. OPDDT. o,p'-DDT. 8.2
70. PPDDT. p,p'-DDT. 8.2
71. DICLB. p,p'-Dichlorobenzophenone. 8.2
72. DIELDRIN. 9.3
73. ENDO_I. Endosulfan I. 9.3
74. ENDO_II. Endosulfan II. 8.2
75. ESO4. Endosulfan sulfate. 8.2
76. ENDRIN. 8.2
77. ETHION. 8.2
78. HCHA. alpha HCH 9.3
79. HCHB. beta HCH 8.2
80. HCHG. gamma HCH (Lindane) 9.3
81. HCHD. delta HCH 9.3
82. HEPTACHLOR. 9.3
83. HE. Heptachlor Epoxide. 9.3
84. HCB. Hexachlorobenzene. 9.3
85. METHOXY. Methoxychlor. 8.2
86. MIREX. 9.3
87. CNONA. cis-Nonachlor. 9.3
88. TNONA. trans-Nonachlor. 9.3
89. OXAD. Oxadiazon. 8.2
90. OCDAN. Oxychlordane. 9.3
91. TOXAPH. Toxaphene. 7.2
92. PESBATCH. The batch number that the sample was extracted in, character field width 11.
93. TBT. Tributyltin. 8.4
94. TBTBATCH. The batch number that the sample was extracted in, numeric field width 5 and 1 decimal places.
95. PCB5. 9.3

96. PCB8. 9.3
97. PCB15. 9.3
98. PCB18. 9.3
99. PCB27. 9.3
100. PCB28. 9.3
101. PCB29. 9.3
102. PCB31. 9.3
103. PCB44. 9.3
104. PCB49. 9.3
105. PCB52. 9.3
106. PCB66. 9.3
107. PCB70. 9.3
108. PCB74. 9.3
109. PCB87. 9.3
110. PCB95. 9.3
111. PCB97. 9.3
112. PCB99. 9.3
113. PCB101. 9.3
114. PCB105. 9.3
115. PCB110. 9.3
116. PCB118. 9.3
117. PCB128. 9.3
118. PCB132. 9.3
119. PCB137. 9.3
120. PCB138. 9.3
121. PCB149. 9.3
122. PCB151. 9.3
123. PCB153. 9.3
124. PCB156. 9.3
125. PCB157. 9.3
126. PCB158. 9.3
127. PCB170. 9.3
128. PCB174. 9.3
129. PCB177. 9.3
130. PCB180. 9.3
131. PCB183. 9.3
132. PCB187. 9.3
133. PCB189. 9.3
134. PCB194. 9.3
135. PCB195. 9.3
136. PCB201. 9.3
137. PCB203. 9.3
138. PCB206. 9.3
139. PCB209. 9.3
140. ARO1248. 9.3
141. ARO1254. 9.3

142. ARO1260. 9.3
143. ARO5460. 9.3
144. PCBBATCH. The batch number that the sample was extracted in, character field width 11.
145. ACY. Acenaphthylene. 8.2
146. ACE. Acenaphthene. 8.2
147. ANT. Anthracene. 8.2
148. BAA. Benz[a]anthracene. 8.2
149. BAP. Benzo[a]pyrene. 8.2
150. BBF. Benzo[b]fluoranthene. 8.2
151. BKF. Benzo[k]fluoranthene. 8.2
152. BGP. Benzo[ghi]perylene. 8.2
153. BEP. Benzo[e]pyrene. 8.2
154. BPH. Biphenyl. 8.2
155. CHR. Chrysene. 8.2
156. COR. Coronene. 8.2
157. DBA. Dibenz[a,h]anthracene. 8.2
158. DBT. Dibenzothiophene. 8.2
159. DMN. 2,6-Dimethylnaphthalene. 8.2
160. FLA. Fluoranthene. 8.2
161. FLU. Fluorene. 8.2
162. IND. Indeno[1,2,3-cd]pyrene. 8.2
163. MNP1. 1-Methylnaphthalene. 8.2
164. MNP2. 2-Methylnaphthalene. 8.2
165. MPH1. 1-Methylphenanthrene. 8.2
166. NPH. Naphthalene. 8.2
167. PHN. Phenanthrene. 8.2
168. PER. Perylene. 8.2
169. PYR. Pyrene. 8.2
170. TMN. 2,3,5-Trimethylnaphthalene. 8.2
171. TRY. Triphenylene 8.2
172. PAHBATCH. The batch number that the sample was extracted in, character field width 11.
173. SODATAQA. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 3. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.
C. When QA samples have major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

SEDIMENT PARTICULATE SIZE ANALYSES DATA are presented in fields 174-182. The grain size results are reported as follows:

A. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed.
B. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected.

174. FINES. Sediment grain size for each station, reported as percent fines. Numeric field, width 5 with 2 decimal places.
175. FINEBATCH. The batch number that the sample was analyzed in, character field, width 6.
176. FINEDATAQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field, width 3. Data qualifier codes are as follows:
   A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
   B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, QA evaluations should be consulted before using the data.
   C. When QA samples have major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".
   D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".
177. COARSESAND. Sediment grain size greater than 0.500 mm (phi = 1.0) for each station, reported as a fractional percentage of the total sample wet weight. Numeric field, width 5 with 2 decimal places.
178. FINESAND. Sediment grain size less than 0.500 mm and greater than 0.063 mm (phi > 1.0 and phi ≤ 4.0) for each station, reported as a fractional percentage of the total sample wet weight. Numeric field, width 5 with 2 decimal places.
179. COARSESILT. Sediment grain size less than 0.063 and greater than 0.031 mm (phi > 4.0 and phi ≤ 5.0) for each station, reported as a fractional percentage of the total sample wet weight. Numeric field, width 5 with 2 decimal places.
180. FINESILT. Sediment grain size less than 0.031 and greater than 0.004 mm (phi >5.0 and phi ≤ 8.0) for each station, reported as a fractional percentage of the total sample wet weight. Numeric field, width 5 with 2 decimal places.
181. CLAY. Sediment grain size less than 0.004 mm (phi > 8.0) for each station, reported as a fractional percentage of the total sample wet weight. Numeric field, width 5 with 2 decimal places.

182. EXPANDEDQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field, width 3. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, QA evaluations should be consulted before using the data.
C. When QA samples have major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".
D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

SEDIMENT TOTAL ORGANIC CARBON (TOC) ANALYSES DATA. Field 183-186 presents the levels of total organic carbon detected in the sediment samples at each station. All TOC results are reported as percent of dry weight.

183. TOC. Total Organic Carbon (TOC) levels (percent of dry weight) in sediment, for each station. Numeric field, width 6 and 2 decimal places.

A. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed.
B. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected.

184. TOCBATCH. The batch number that the sample was analyzed in, numeric field width 4.

185. TOCDATAQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 3. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.
C. When QA samples have major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".
D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

DISSOLVED ORGANIC CARBON (DOC) ANALYSES DATA. Field 186 presents the levels of dissolved organic carbon (µM) detected in water or porewater for each station.

186. DOC. Dissolved Organic Carbon (DOC) levels (µM) in water or porewater, for each station. Numeric field, width 6.
   A. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed.
   B. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected.

The TISS1_56.DBF file contains the same fields as CHEM1_56.DBF file with the exception of the following fields:

1. TISS_TYPE. This character field is 25 characters wide and describes what type of tissue was analyzed.
2. NO_IN_COMP. The number of fish in each composite making up each sample. Numeric field, width 5.

The following purgeable aromatic hydrocarbons (BTEX) and extractable petroleum hydrocarbons (TPH) are reported on a dry weight basis in parts per billion (ppb or ng/g) and are numeric fields of varying width, and include the following compounds, listed by field number, then field name as it appears in database (and followed by the compound name if not obvious), and then by the numeric character width and number of decimal places is given:

1. BENZENE. 8.2
2. TOLUENE. 8.2
3. ETHBENZENE. Ethylbenzene. 8.2
4. XYLENES. (Total). 8.2
5. TPH_DIESEL. Total Petroleum Hydrocarbons (Diesel). 8.2

The TOX1_56.DBF file is the toxicity data file which contains the following fields (the number at the start of each field is the field number):

1. STANUM. This numeric field is 7 characters wide with 1 decimal place and contains the CDFG station numbers that are used statewide. The format is YXXXX.Z where Y is the Regional Water Quality Control Board Region number and XXXX is the number that corresponds to a given location or site and Z is the number of the station within that site. An example is Southwest Slip in Los Angeles Harbor where the STANUM is 40001.1. The 4 indicates Region 4. The 0001 indicates that it is Site #1 and the .1 is the replicate station within Site #1. A site with a .0 designation indicates this is the only station at the site.
2. STATION. This character field is 30 characters wide and contains the exact name of the station.

3. IDORG. This numeric field is 8 characters wide and contains the unique i.d. organizational number for the sample. For each station collected on a unique date, an idorg sample number is assigned. This should be the field that links the collection, toxicity, chemical, and other databases.
4. DATE. This date field is 8 characters wide and is the date that each sample was collected in the field. It is listed as MM/DD/YY.
5. LEG. This numeric field is 6 characters wide and is the leg number of the project in which the sample was collected.
6. TYPE. This character field is 7 characters wide and describes whether the sample was a field sample, replicate or control.
7. METADATA. This is an index directing the user to tables or files of ancillary data pertinent to associated test. Character field, width 12.
8. CTRL. This character field is 5 characters wide and indicates the type of control sample used for the test.
9. LATITUDE. This character field is 12 characters wide and contains the latitude of the center of the station sampled. The format is a character field as follows: XX,YY,ZZ, where XX is in degrees, YY is in minutes, and ZZ is in seconds or hundreds.
10. LONGITUDE. This character field is 14 characters wide and contains the longitude of the center of the station sampled. The format is a character field as follows: XXX,YY,ZZ, where XXX is in degrees, YY is in minutes, and ZZ is in seconds or hundreds.
11. HUND_SECS. This character is 3 character wide and contains the designation "h" if the latitude and longitude are given in degrees, minutes, hundredths of a minute. The designation "h/d" is given if differential accuracy is achieved with the GPS unit. The designation "s" is given when latitude and longitude are given in degrees, minutes, seconds.
12. GISLAT. This numeric field is 12 characters wide with 8 decimal places and contains the latitude of the station sampled in Geographical Information System format. The format is a numeric field as follows: XX.YYYYYYYY, where XX is in degrees and YYYYYYYY is a decimal fraction of the preceding degree.
13. GISLONG. This numeric field is 14 characters wide with 8 decimal places and contains the longitude of the station sampled. The format is a character field as follows: XXXX.YYYYYYYY where XXXX is in degrees and YYYYYYYY is a decimal fraction of the preceding degree.

AMPHIPOD SURVIVAL TOXICITY TEST DATA. The following are descriptions of the field headings for the amphipod *Rhepoxynius abronius* (RA) toxicity test using homogenized sediment samples; presented in fields 14 through 25.

14. RA_MN. Station mean percent survival. Numeric field width 6, with 2 decimal places..
15. RA_SD. Station standard deviation of percent survival. Numeric field, width 6 with 2 decimal places.

16. RA_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. A "-9" indicates no statistics were run. Character field, width 5.
17. RA_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (þ = 0.05). 2) If sample mean as a percent of the control mean is less than 77% of the control (MSD as a percent of the control). "NT" signifies non-toxic. Character field, width 3.
18. RA_OTNH3. Total ammonia concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
19. RA_OUNH3. Unionized ammonia concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
20. RA_OH2S. Hydrogen sulfide concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 4 decimal places.
21. RA_ITNH3. Total ammonia concentration (ppm in water) in interstitial water (water within bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
22. RA_IUNH3. Unionized ammonia concentration (ppm in water) interstitial water (water within bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
23. RA_IH2S. Hydrogen sulfide concentration (ppm in water) in interstitial water (water within bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 4 decimal places.

24. RA_BATCH. The batch number that the sample were run in, character width 10.

25. RAQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".

B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA sample has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

AMPHIPOD SURVIVAL TOXICITY TEST DATA. The following are descriptions of the field headings for the amphipod *Eohaustorius estuarius* (EE) toxicity test using homogenized sediment samples; presented in fields 26 through 37.

26. EE_MN. Station mean percent survival. Numeric field, width 6 and 2 decimal places.

27. EE_SD. Station standard deviation of percent survival. Numeric field, width 6 and 2 decimal places.

28. EE_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.

29. EE_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test ($\beta = 0.05$). 2) If sample mean as a percent of the control mean is less than 75% of the control (MSD as a percent of the control). "NT" signifies non-toxic. Character field, width 3.

30. EE_BATCH. The batch number that the sample were run in, character width 10.

31. EEQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".

B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported

as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA sample has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

32. EE_OTNH3. Total ammonia concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

33. EE_OUNH3. Unionized ammonia concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

34. EE_OH2S. Hydrogen sulfide concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 4 decimal places.

35. EE_ITNH3. Total ammonia concentration (ppm in water) in interstitial water (water within bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

36. EE_IUNH3. Unionized ammonia concentration (ppm in water) interstitial water (water within bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

37. EE_IH2S. Hydrogen sulfide concentration (ppm in water) in interstitial water (water within bedded sediment) for each station analyzed using amphipod toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 4 decimal places.

ABALONE LARVAL SHELL DEVELOPMENT TOXICITY TEST DATA. The following are descriptions of the field headings for the abalone larval (*Haliotis rufescens*) shell development toxicity tests, presented in fields 38 through 46. Results are given for undiluted subsurface water (100%).

38. HRS100_MN. Station mean percent normal development in 100% subsurface water. Numeric field, width 6 and 2 decimal places.
39. HRS100_SD. Station standard deviation of percent normal development in 100% subsurface water. Numeric field, width 6 and 2 decimal places.
40. HRS100_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.
41. HRS100_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (þ= 0.05). 2) If sample mean as a percent of the control mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3.
42. HRS_OUNH3. Unionized ammonia concentration (ppm in water) in overlying water for each station analyzed in abalone toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
43. HRS_OTNH3. Total ammonia concentration (ppm in water) in overlying water for each station analyzed in abalone toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
44. HRS_OH2S. Hydrogen sulfide concentration (ppm in water) in overlying water for each station analyzed in abalone toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0"= not detected. Numeric field, width 7 and 4 decimal places.
45. HRS_BATCH. The batch number that the sample were run in, character field width 10.
46. HRSQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported

as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA samples has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

ABALONE LARVAL SHELL DEVELOPMENT TOXICITY TEST DATA. The following are descriptions of the field headings for the abalone larval (*Haliotis rufescens*) shell development toxicity tests, presented in fields 47 through 63. Results are given for undiluted porewater (100%) and diluted porewater (50% and 25% dilutions).

47. HRP100_MN. Station mean percent normal development in 100% porewater. Numeric field, width 6 and 2 decimal places.
48. HRP100_SD. Station standard deviation of percent normal development in 100% porewater. Numeric field, width 6 and 2 decimal places.
49. HRP100_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.
50. HRP100_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (þ= 0.05). 2) If sample mean as a percent of the control mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3.
51. HRP50_MN. Station mean percent normal development in 50% porewater. Numeric field, width 6 and 2 decimal places.
52. HRP50_SD. Station standard deviation of percent normal development in 50% porewater. Numeric field, width 6 and 2 decimal places.
53. HRP50_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.
54. HRP50_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (þ= 0.05). 2) If sample mean as a percent of the control mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3.
55. HRP25_MN. Station mean percent normal development in 25% porewater. Numeric field, width 6 and 2 decimal places.
56. HRP25_SD. Station standard deviation of percent normal development in 25% porewater. Numeric field, width 6 and 2 decimal places.

57. HRP25_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.

58. HRP25_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (þ= 0.05). 2) If sample mean as a percent of the control mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3.

59. HRP_IUNH3. Unionized ammonia concentration (ppm) in porewater for each station analyzed in abalone toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

60. HRP_ITNH3. Total ammonia concentration (ppm) in porewater for each station analyzed in abalone toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

61. HRP_IH2S. Hydrogen sulfide concentration (ppm) in porewater for each station analyzed in abalone toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 4 decimal places.

62. HRPBATCH. The batch number that the sample were run in, character field width 10.

63. HRPQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".

B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA samples has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

The following are descriptions of the field headings for the sea urchin (*Strongylocentrotus purpuratus*) fertilization toxicity tests (SPPF) using sediment pore (interstitial) water samples; presented in fields 64 through 80. Results are given for undiluted porewater (100% porewater) and diluted porewater (50% and 25% porewater).

64. SPPF100_MN. Station mean percent fertilization in 100% porewater. Numeric field, width 6 and 2 decimal places.
65. SPPF100_SD. Station standard deviation of percent fertilization in 100% pore- water. Numeric field, width 6 and 2 decimal places.
66. SPPF100_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. A "-9" indicates that no statistics were run. Character field, width 5.
67. SPPF100TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (= 0.05). 2) If sample mean as a percent of the control mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3.
68. SPPF50_MN. Station mean percent fertilization in 50% porewater. Numeric field, width 6 and 2 decimal places.
69. SPPF50_SD. Station standard deviation of percent fertilization in 50% pore- water. Numeric field, width 6 and 2 decimal places.
70. SPPF50_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. A "-9" indicates that no statistics were run. Character field, width 5.
71. SPPF50_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (þ= 0.05). 2) If sample mean as a percent of the control mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3.
72. SPPF25_MN. Station mean percent fertilization in 25% porewater. Numeric field, width 6 and 2 decimal places.
73. SPPF25_SD. Station standard deviation of percent fertilization in 25% pore- water. Numeric field, width 6 and 2 decimal places.
74. SPPF25_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. A "-9" indicates that no statistics were run. Character field, width 5.
75. SPPF25_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (þ= 0.05). 2) If sample mean as a percent of the control

mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3.

76. SPPF_ITNH3. Total ammonia concentration (ppm) in porewater for each station analyzed using urchin toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

77. SPPF_IUNH3. Unionized ammonia concentration (ppm) in porewater for each station analyzed using urchin toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

78. SPPF_IH2S. Hydrogen sulfide concentration (ppm) in porewater for each station analyzed using urchin toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0"= not detected. Numeric field, width 7 and 4 decimal places.

79. SPPF_BATCH. The batch number that the samples were analyzed in, character width 10.

80. SPPFQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".

B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA sample has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

The following are descriptions of the field headings for the sea urchin (*Strongylocentrotus purpuratus*) development toxicity tests (SPPD) using sediment pore (interstitial) water samples; presented in fields 81 through 97. Results are given for undiluted interstitial water (100% porewater) and diluted (50% and 25% porewater).

81. SPPD100_MN. Station mean percent normal development in 100% porewater. Numeric field, width 6 and 2 decimal places.

82. SPPD100_SD. Station standard deviation of percent normal development in 100% porewater. Numeric field, width 6 and 2 decimal places.
83. SPPD100_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.
84. SPPD100TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean if significantly different from control mean when compared using a t-test ($\beta = 0.05$). 2) If sample mean as a percent of the control mean is less than 68% of the control (MSD as a percent of the control). "NT" signifies non-toxic. Character field, width 3.
85. SPPD50_MN. Station mean percent normal development in 50% porewater. Numeric field, width 6 and 2 decimal places.
86. SPPD50_SD. Station standard deviation of percent normal development in 50% porewater. Numeric field, width 6 and 2 decimal places.
87. SPPD50_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. A "-9" indicates that no statistics were run. Character field, width 5.
88. SPPD50_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean if significantly different from control mean when compared using a t-test ($\beta = 0.05$). 2) If sample mean as a percent of the control mean is less than 68% of the control (MSD as a percent of the control). "NT" signifies non-toxic. Character field, width 3.
89. SPPD25_MN. Station mean percent normal development in 25% porewater. Numeric field, width 6 and 2 decimal places.
90. SPPD25_SD. Station standard deviation of percent normal development in 25% porewater. Numeric field, width 6 and 2 decimal places.
91. SPPD25_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. A "-9" indicates that no statistics were run. Character field, width 5.
92. SPPD25_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean if significantly different from control mean when compared using a t-test ($\beta = 0.05$). 2) If sample mean as a percent of the control mean is less than 68% of the control (MSD as a percent of the control). "NT" signifies non-toxic. Character field, width 3.
93. SPPD_BATCH. The batch number that the samples were analyzed in, character width 10.
94. SPPDQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.
C. When the QA sample has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".
D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

95. SPPD_ITNH3. Total ammonia concentration (ppm) in porewater for each station analyzed using urchin toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
96. SPPD_IUNH3. Unionized ammonia concentration (ppm) in porewater for each station analyzed using urchin toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
97. SPPD_IH2S. Hydrogen sulfide concentration (ppm) in porewater for each station analyzed using urchin toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0"= not detected. Numeric field, width 7 and 4 decimal places.

The following are descriptions of the field headings for the sea urchin (*Strongylocentrotus purpuratus*) development toxicity tests (SPDI), using the sediment/water interface exposure to intact sediment cores; presented in fields 98 through 106.

98. SPDI_MN. Station mean percent normal development in the sediment/water interface exposure. Numeric field, width 6 and 2 decimal places.
99. SPDI_SD. Station standard deviation of percent normal development in the sediment/water interface exposure. Numeric field, width 6 and 2 decimal places.
100. SPDI_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents

significance at the .01 level. ns = not statistically significant. Character field, width 5.

101. SPDI_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (þ= 0.05). 2) If sample mean as a percent of the control mean is less than 59% of the control (MSD as a percent of the control). "NT" signifies non-toxic. Character field, width 3.

102. SPDI_BATCH. The batch number that the samples were analyzed in, character field width 10.

103. SPDIQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".

B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA sample has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

104. SPDI_OTNH3. Total ammonia concentration (ppm in water) in overlying water samples (water above bedded sediment used for urchin toxicity tests). When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

105. SPDI_OUNH3. Unionized ammonia concentration (ppm in water) in overlying water samples (water above bedded sediment) for each station analyzed using urchin toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

106. SPDI_OH2S. Hydrogen sulfide concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using urchin toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 4 decimal places.

The following are descriptions of the field headings for the mussel larval (*Mytilus* sp.) shell development toxicity tests, (MES) using subsurface water samples; presented in

fields 107 through 115. Results are given for undiluted subsurface water (100% subsurface water).

107. MES100_MN. Station mean percent normal development in 100% subsurface water. Numeric field, width 6 and 2 decimal places.
108. MES100_SD. Station standard deviation of percent normal development in 100% subsurface water. Numeric field, width 6 and 2 decimal places.
109. MES100_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.
110. MES100_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (β= 0.05). 2) If sample mean as a percent of the control mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3.
111. MES_OUNH3. Unionized ammonia concentration (ppm in water) in overlying water samples (water above bedded sediment) used for mussel toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
112. MES_OTNH3. Total ammonia concentration (ppm in water) in overlying water samples (water above bedded sediment) used for mussel toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.
113. MES_OH2S. Hydrogen sulfide concentration (ppm in water) in subsurface water samples (water above bedded sediment) used for mussel toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0"= not detected. Numeric field, width 7 and 4 decimal places.
114. MES_BATCH. The batch number that the samples were analyzed in, character field width 10.
115. MESQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".
B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are

made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA sample has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3"

The following are descriptions of the field headings for the mussel larval (*Mytilus* sp.) shell development toxicity tests, (MEP) using pore (interstitial) water samples; presented in fields 116 through 124. Results are given for undiluted interstitial water (100% porewater).

116. MEP100_MN. Station mean percent normal development in 100% porewater. Numeric field, width 6 and 2 decimal places.

117. MEP100_SD. Station standard deviation of percent normal development in 100% porewater. Numeric field, width 6 and 2 decimal places.

118. MEP100_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.

119. MEP100_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test ($p = 0.05$). 2) If sample mean as a percent of the control mean is less than 80% of the control. "NT" signifies non-toxic. Character field, width 3

120. MEP_ITNH3. Total ammonia concentration (ppm in water) in interstitial water samples (water within bedded sediment) used for mussel toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

121. MEP_IUNH3. Unionized ammonia concentration (ppm in water) in interstitial water samples (water within bedded sediment) used for mussel toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

122. MEP_IH2S. Hydrogen sulfide concentration (ppm in water) in interstitial water samples (water within bedded sediment) used for mussel toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0"= not detected. Numeric field, width 7 and 4 decimal places.

123. MEP_BATCH. The batch number that the samples were analyzed in, character field width 10.

124. MEPQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".

B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA sample has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

POLYCHAETE SURVIVAL TOXICITY TEST DATA. The following are descriptions of the field headings for the polychaete worm *Neanthes arenaceodentata* (NA), survival tests presented in fields 125 through 128.

125. NASURV_MN. Station mean percent survival of 5 replicates. Numeric field, width 6 with 2 decimal places.

126. NASURV_SD. Station standard deviation of percent survival. Numeric field, width 6 with 2 decimal places.

127. NASURV_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.

128. NASURV_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test ($p = 0.05$). 2) If sample mean as a percent of the control mean is less than 64% of the control (MSD as a percent of the control). "NT" signifies non-toxic. Character field, width 3.

POLYCHAETE WEIGHT CHANGE TOXICITY TEST DATA. The following are descriptions of the field headings for the polychaete worm *Neanthes arenaceodentata* (NAWT) weight change toxicity test using homogenized sediment samples; presented in fields 129 through 140.

129. NAWT_MN. Station mean weight (gm). Numeric field, width 6 and 2 decimal places.

130. NAWT_SD. Station standard deviation of weight (gm). Numeric field, width 6 and 2 decimal places.

131. NAWT_SG. Station statistical significance, representing the significance of the statistical test between the home sediment and the sample. A single * represents significance at the .05 level, and double ** represents significance at the .01 level. ns = not statistically significant. Character field, width 5.

132. NAWT_TOX. Sample is considered toxic and denoted with a "T" if: 1) Sample mean is significantly different from control mean when compared using a t-test (p= 0.05). 2) If sample mean as a percent of the control mean is less than 44% of the control (MSD as a percent of the control). "NT" signifies non-toxic. Character field, width 3.

133. NA_OTNH3. Total ammonia concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using polychaete toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

134. NA_OUNH3. Unionized ammonia concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using polychaete toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

135. NA_OH2S. Hydrogen sulfide concentration (ppm in water) in overlying water (water above bedded sediment) for each station analyzed using polychaete toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 4 decimal places.

136. NA_ITNH3. Total ammonia concentration (ppm in water) in interstitial water (water within bedded sediment) for each station analyzed using polychaete toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

137. NA_IUNH3. Unionized ammonia concentration (ppm in water) in interstitial water (water within bedded sediment) for each station analyzed using polychaete toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 3 decimal places.

138. NA_IH2S. Hydrogen sulfide concentration (ppm in water) in interstitial water (water within bedded sediment) for each station analyzed using polychaete toxicity tests. When the value is missing or not analyzed, the value is reported as "-9.0" = not analyzed. When the value is less than the detection limit of the analytical test, the value is reported as "-8.0" = not detected. Numeric field, width 7 and 4 decimal places.

139. NA_BATCH. The batch number that the samples were analyzed in, character field width 10.

140. NAQC. Data qualifier codes are notations used by data reviewers to briefly describe, or qualify data and the systems producing data, numeric field width 4. Data qualifier codes are as follows:

A. When the sample meets or exceeds the control criteria requirements, the value is reported as "-4".

B. When the sample has minor exceedences of control criteria but is generally usable for most assessments and reporting purposes, the value is reported as "-5". For samples coded "-5" it is recommended that if assessments are made that are especially sensitive or critical, the QA evaluations should be consulted before using the data.

C. When the QA sample has major exceedences of control criteria requirements and the data are not usable for most assessments and reporting purposes, the value is reported as "-6".

D. When the sample has minor exceedences of control criteria and is unlikely to affect assessments, the value is reported as "-3".

The BEN1_56.XLS file contains the following fields (the number at the start of each field is the field number):

1. STANUM. This field contains the CDFG station numbers that are used statewide. The format is YXXXX.Z where Y is the Regional Water Quality Control Board Region number and XXXX is the number that corresponds to a given location or site and Z is the number of the station within that site. An example is San Pablo Bay- Island #1, in San Francisco Bay, where the STANUM is 20007.0. The 2 indicates Region 2. The 0007 indicates it is Site 7 and the .0 is the replicate (if any) at the station within Site 7.
2. STATION. This field contains the exact name of the station.
3. IDORG. This field contains the unique i.d. organizational number for the sample. For each station collected on a unique date, an idorg sample number is assigned. This should be the field that links the collection, toxicity, chemical, and other databases.
4. DATE. This field is the date that each sample was collected in the field. It is listed as MM/DD/YY.
5. LEG. This field is the leg number of the project in which the sample was collected.
6. SPECIES. This field contains the different organisms found at a station, genus is given, and species if available.
7. TOTAL INDIVIDUALS. This field contains the total number of individuals found at a station.
8. TOTAL SPECIES. This field contains the total number of species found at a station.
9. TOTAL CRUST. INDIV. This field contains the total number of individuals in the Subphylum Crustacea found at a station.

10. TOTAL CRUST. SP. This field contains the total number of species in the Subphylum Crustacea found at a station.
    A. GAMMARID INDIV. This field contains the number of individuals in the Suborder Gammaridea found at a station.
    B. GAMMARID SP. This field contains the number of species in the Suborder Gammaridea found at a station.
    C. OTHER CRUSTACEAN INDIV. This field contains the number of individuals, other than in the Suborder Gammaridea, in the Subphylum Crustacea, found at a station.
    D. OTHER CRUSTACEAN SP. This field contains the number of species, other than in the Suborder Gammaridea, in the Subphylum Crustacea, found at a station.
11. TOTAL ECHINODERM INDIV. This field contains the number of individuals in the Phylum Echinodermata found at a station.
12. TOTAL ECHINODERM SP. This field contains the number of species in the Phylum Echinodermata found at a station.
13. TOTAL MOLLUSC INDIV. This field contains the number of individuals in the Phylum Mollusca found at a station.
14. TOTAL MOLLUSC SP. This field contains the number of species in the Phylum Mollusca found at a station.
15. TOTAL POLYCHAETE INDIV. This field contains the number of individuals in the Class Polychaeta found at a station.
16. TOTAL POLYCHAETE SP. This field contains the number of species in the Class Polychaeta found at a station.
17. TAXA. This field contains the different taxa found at a station.
18. NUMBER PER CORE. Number of individuals/species found in a numbered replicate core.
19. SUMMARY STATISTICS. This field contains a summary of statistical analyses. This field refers to fields 6-23.
    A. MEAN. Mean value of individuals/species in all cores analyzed.
    B. MEDIAN. Median of individuals/species in all cores analyzed.
    C. MIN. Minimum number of individuals/species found in any core.
    D. MAX. Maximum number of individuals/species found in any core.
    E. ST. DEV. Standard deviation of the above mean value.
    F. S.E. Standard error of the above mean value.
    G. 95%CL. 95% Confidence limit.
    H. SUM. This field contains the sum of individuals/species found in all cores analyzed.

Appendix B

Sampling Data

Sampling Data

STANUM	STATION	IDORG	DATE	LEG	LATITUDE	LONGITUDE	HUND_SECS	GISLAT	GISLONG	DEPTH
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	33,45,23N	118,16,42W	s	33.75638900	118.27833300	15.5
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	33,45,20N	118,16,46W	s	33.75555600	118.27944400	15.5
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	33,45,18N	118,16,45W	s	33.75500000	118.27916700	8.0
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	33,45,45N	118,16,28W	s	33.76250000	118.27444400	16.5
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	33,45,43N	118,16,29W	s	33.76194400	118.27472200	16.0
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	33,45,42N	118,16,28W	s	33.76166700	118.27444400	15.0
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	33,45,12N	118,16,11W	s	33.75333300	118.26972200	16.5
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	33,45,09N	118,16,14W	s	33.75250000	118.27055600	16.5
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	33,45,11N	118,16,10W	s	33.75305600	118.26944400	10.5
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	33,43,37N	118,16,18W	s	33.72694400	118.27166700	17.0
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	33,43,38N	118,16,20W	s	33.72722200	118.27222200	17.0
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	33,43,37N	118,16,22W	s	33.72694400	118.27277800	17.5
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	33,45,45N	118,15,18W	s	33.76250000	118.25500000	16.0
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	33,45,48N	118,15,24W	s	33.76333300	118.25666700	16.5
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	33,45,42N	118,15,22W	s	33.76166700	118.25611100	16.5
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	33,46,34N	118,14,39W	s	33.77611100	118.24416700	8.5
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	33,46,31N	118,14,44W	s	33.77527800	118.24555600	10.5
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	33,46,34N	118,14,34W	s	33.77611100	118.24277800	4.0
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	33,43,23N	118,14,51W	s	33.72305600	118.24750000	10.0
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	33,43,20N	118,14,49W	s	33.72222200	118.24694400	12.0
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	33,43,21N	118,14,46W	s	33.72250000	118.24611100	12.5
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	33,42,54N	118,15,40W	s	33.71500000	118.26111100	19.0
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	33,42,51N	118,15,36W	s	33.71416700	118.26000000	19.0
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	33,42,50N	118,15,42W	s	33.71388900	118.26166700	18.5
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	33,45,24N	118,12,51W	s	33.75666700	118.21416700	16.5
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	33,45,20N	118,12,50W	s	33.75555600	118.21388900	25.5
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	33,45,21N	118,12,47W	s	33.75583300	118.21305600	14.5
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	33,44,46N	118,13,12W	s	33.74611100	118.22000000	13.0
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	33,44,44N	118,13,07W	s	33.74555600	118.21861100	26.0
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	33,44,46N	118,13,10W	s	33.74611100	118.21944400	16.5
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	33,42,51N	118,16,54W	s	33.71416700	118.28166700	4.5
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	33,42,53N	118,16,54W	s	33.71472200	118.28166700	3.0
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	33,42,49N	118,16,54W	s	33.71361100	118.28166700	4.0
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	33,44,35N	118,12,19W	s	33.74305600	118.20527800	21.5
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	33,44,38N	118,12,09W	s	33.74388900	118.20250000	21.5
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	33,44,29N	118,12,13W	s	33.74138900	118.20361100	20.5
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	33,43,45N	118,15,56W	s	33.72916700	118.26555600	6.5
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	33,43,43N	118,15,57W	s	33.72861100	118.26583300	6.0

Sampling Data

STANUM	STATION	IDORG	DATE	LEG	LATITUDE	LONGITUDE	HUND_SECS	GISLAT	GISLONG	DEPTH
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	33,43,49N	118,16,01W	s	33.73027800	118.26694400	5.5
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	33,43,49N	118,15,04W	s	33.73027800	118.25111100	8.5
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	33,43,54N	118,15,15W	s	33.73166700	118.25416700	7.0
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	33,43,48N	118,15,11W	s	33.73000000	118.25305600	6.5
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	33,44,15N	118,16,02W	s	33.73762400	118.26732600	8.0
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	33,44,10N	118,16,02W	s	33.73611100	118.26722200	7.5
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	33,44,14N	118,15,59W	s	33.73720500	118.26633500	7.5
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	33,42,52N	118,13,40W	s	33.71444400	118.22777800	18.0
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	33,42,54N	118,13,22W	s	33.71500000	118.22277800	18.0
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	33,42,53N	118,13,41W	s	33.71472200	118.22805600	16.5
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	33,43,23N	118,14,51W	s	33.72305600	118.24750000	12.0
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	33,43,21N	118,14,44W	s	33.72250000	118.24555600	12.0
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	33,43,22N	118,14,45W	s	33.72277800	118.24583300	12.5
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	33,46,33N	118,12,40W	s	33.77586400	118.21101900	13.5
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	33,46,30N	118,12,48W	s	33.77500000	118.21333300	14.0
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	33,46,32N	118,12,44W	s	33.77555600	118.21222200	14.0
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	33,46,04N	118,13,19W	s	33.76777800	118.22194400	20.0
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	33,46,06N	118,13,21W	s	33.76833300	118.22250000	20.0
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	33,46,07N	118,13,20W	s	33.76861100	118.22222200	19.5
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	33,45,30N	118,11,56W	s	33.75833300	118.19888900	6.0
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	33,45,31N	118,11,54W	s	33.75861100	118.19833300	5.5
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	33,45,29N	118,11,52W	s	33.75805600	118.19777800	5.5
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	33,45,12N	118,11,07W	s	33.75333300	118.18527800	15.5
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	33,45,16N	118,11,06W	s	33.75444400	118.18500000	16.0
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	33,45,13N	118,11,04W	s	33.75361100	118.18444400	16.0
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	33,43,52N	118,12,04W	s	33.73111100	118.20111111	22.0
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	33,43,51N	118,11,59W	s	33.73083300	118.19972200	23.5
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	33,43,47N	118,12,02W	s	33.72972200	118.20055600	20.5
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	33,43,48N	118,10,02W	s	33.73000000	118.16722200	16.5
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	33,43,53N	118,10,03W	s	33.73138900	118.16750000	15.5
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	33,43,52N	118,09,58W	s	33.73111100	118.16611100	15.5
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	33,43,58N	118,08,23W	s	33.73277800	118.13972200	12.5
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	33,43,58N	118,08,29W	s	33.73277800	118.14138900	12.5
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	33,44,00N	118,08,24W	s	33.73333300	118.14000000	12.5
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	33,45,56N	118,27,11W	s	33.76555600	118.45305600	75.0
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	33,46,07N	118,27,18W	s	33.76861100	118.45500000	72.0
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	33,46,14N	118,27,12W	s	33.77055600	118.45333300	68.5
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	33,45,35N	118,07,14W	s	33.75972200	118.12055600	5.0

Sampling Data

STANUM	STATION	IDORG	DATE	LEG	LATITUDE	LONGITUDE	HUND_SECS	GISLAT	GISLONG	DEPTH
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	33,45,35N	118,07,18W	s	33.75972200	118.12166700	5.0
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	33,45,38N	118,07,15W	s	33.76055600	118.12083300	6.0
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	33,45,02N	118,07,12W	s	33.75055600	118.12000000	5.0
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	33,44,57N	118,07,07W	s	33.74916700	118.11861100	4.0
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	33,44,59N	118,07,05W	s	33.74972200	118.11805600	3.5
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	33,45,07N	118,06,45W	s	33.75194400	118.11250000	5.0
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	33,45,07N	118,06,48W	s	33.75194400	118.11333300	5.0
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	33,45,09N	118,06,45W	s	33.75250000	118.11250000	5.0
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	33,42,53N	118,16,56W	s	33.71472200	118.28222200	2.0
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	33,42,54N	118,16,49W	s	33.71500000	118.28027800	2.0
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	33,42,49N	118,16,53W	s	33.71361100	118.28138900	2.5
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	33,45,49N	118,06,44W	s	33.76361100	118.11222200	1.0
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	34,09,12N	119,12,38W	s	34.15320200	119.21048000	3.5
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	34,08,54N	119,12,08W	s	34.14818200	119.20231400	10.5
44014.0	MARINA DEL REY	614	1/14/93	11.0	33,58,58N	118,27,20W	s	33.98277800	118.45555600	3.0
44016.0	MUGU LAGOON	616	1/12/93	11.0	34,06,33N	119,05,34W	s	34.10924800	119.09274400	1.5
44017.0	COLORADO LAGOON	617	1/14/93	11.0	33,46,16N	118,08,11W	s	33.77111100	118.13638900	1.0
44018.0	MALIBU LAGOON	618	1/13/93	11.0	34,02,00N	118,40,56W	s	34.03333300	118.68222200	0.5
44020.0	SHORELINE MARINA	620	1/14/93	11.0	33,45,32N	118,11,18W	s	33.75888900	118.18833300	7.3
44021.0	VENTURA MARINA	621	1/13/93	11.0	34,14,41N	119,15,51W	s	34.24475800	119.26429800	5.5
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	34,10,12N	119,13,38W	s	34.17000000	119.22722200	5.0
44024.0	BALLONA CREEK	624	1/14/93	11.0	33,57,47N	118,27,10W	s	33.96305600	118.45277800	3.5
44026.0	SIM'S POND	626	1/14/93	11.0	33,46,05N	118,07,04W	s	33.76805600	118.11777800	1.5
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	34,12,49N	119,15,17W	s	34.21361100	119.25472200	1.5
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	34,06,44N	119,05,30W	s	34.11222200	119.09166700	1.0
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	34,06,17N	119,05,46W	s	34.10472200	119.09611100	1.0
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	34,06,11N	119,06,37W	s	34.10319300	119.11027700	1.0
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	34,06,18N	119,07,24W	s	34.10500000	119.12333300	0.5
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	34,05,59N	119,04,56W	s	34.09972200	119.08222200	0.5
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	34,16,34N	119,18,26W	s	34.27611100	119.30722200	0.5
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	34,13,58N	119,15,25W	s	34.23277800	119.25694400	0.5
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	33,43,38N	118,16,22W	s	33.72722200	118.27277800	15
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	33,44,75N	118,13,11W	h	33.74583300	118.21850000	18
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	33,45,50N	118,11,98W	h	33.75829100	118.19909000	3
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	33,43,71N	118,15,89W	h	33.72850000	118.26483300	6
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	33,43,78N	118,15,07W	h	33.72966700	118.25116700	7
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	33,42,76N	118,16,81W	h	33.71266700	118.28016700	4
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	33,43,45N	118,12,00W	s	33.72911200	118.20001500	14

Sampling Data

STANUM	STATION	IDORG	DATE	LEG	LATITUDE	LONGITUDE	HUND_SECS	GISLAT	GISLONG	DEPTH
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	33,44,53N	118,12,35W	h	33.74216700	118.20583300	19
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	33,43,38N	118,16,20W	h	33.72300000	118.27000000	15
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	33,43,40N	118,16,19W	h	33.72333300	118.26983300	14
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	33,43,39N	118,16,20W	h	33.72316700	118.27000000	14
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	33,44,46N	118,13,12W	s	33.74611100	118.22000000	13
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	33,44,44N	118,13,13W	s	33.74555600	118.22027800	14
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	33,44,46N	118,13,11W	s	33.74611100	118.21972200	14
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	33,43,87N	118,09,93W	h	33.73116700	118.16550000	15
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	33,43,85N	118,09,94W	h	33.73083300	118.16566700	15
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	33,43,92N	118,09,96W	h	33.73200000	118.16600000	14
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	33,46,08N	118,27,24W	h	33.76800000	118.45400000	69
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	33,46,01N	118,27,27W	h	33.76683300	118.45450000	69
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	33,46,08N	118,27,15W	h	33.76800000	118.45250000	69
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	33,42,90N	118,16,87W	h	33.71500000	118.28116700	2
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	33,42,88N	118,16,84W	h	33.71466700	118.28066700	3
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	33,42,86N	118,16,88W	h	33.71433300	118.28133300	2
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	33,42,82N	118,16,86W	h	33.71366700	118.28100000	2
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	33,46,07N	118,27,21W	h	33.76783300	118.45350000	70
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	33,46,14N	118,27,42W	h	33.76900000	118.45700000	70
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	33,46,04N	118,26,95W	h	33.76733300	118.44916700	70
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	33,43,87N	118,09,97W	h	33.73116700	118.16616700	14
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	33,43,90N	118,09,95W	h	33.73166700	118.16583300	14
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	33,43,89N	118,09,95W	h	33.73150000	118.16583300	14
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	33,44,57N	118,12,30W	h	33.74283300	118.20500000	23
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	33,44,53N	118,12,27W	h	33.74216700	118.20450000	20
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	33,44,53N	118,12,32W	h	33.74216700	118.20533300	20
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	33,46,57N	118,14,64W	h	33.77612900	118.24394300	8
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	33,46,57N	118,14,66W	h	33.77616700	118.24433300	7
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	33,46,55N	118,14,63W	h	33.77583300	118.24383300	7
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	33,45,15N	118,16,23W	h	33.75250000	118.27050000	15
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	33,45,16N	118,16,22W	h	33.75266700	118.27033300	15
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	33,45,18N	118,16,24W	h	33.75300000	118.27066700	15
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	33,45,52N	118,11,90W	h	33.75866700	118.19833300	3
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	33,45,51N	118,11,98W	h	33.75850000	118.19966700	3
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	33,45,48N	118,11,92W	h	33.75800000	118.19866700	4
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	33,43,78N	118,12,03W	h	33.72966700	118.20050000	20
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	33,43,75N	118,12,04W	h	33.72916700	118.20066700	21
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	33,43,76N	118,12,06W	h	33.72933300	118.20100000	20

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STANUM	STATION	IDORG	DATE	LEG	LATITUDE	LONGITUDE	HUND_SECS	GISLAT	GISLONG	DEPTH
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	33,45,33N	118,16,77W	h	33.75550000	118.27950000	13
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	33,45,33N	118,16,78W	h	33.75550000	118.27966700	13
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	33,45,35N	118,16,78W	h	33.75583300	118.27966700	13
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	33,45,50N	118,11,31W	h	33.75833300	118.18850000	9
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	33,45,51N	118,11,34W	h	33.75850000	118.18900000	9
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	33,45,54N	118,11,30W	h	33.75900100	118.18834000	9
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	33,42,88N	118,16,84W	h	33.71466700	118.28066700	3
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	33,42,90N	118,16,85W	h	33.71500000	118.28083300	3
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	33,42,88N	118,16,85W	h	33.71466700	118.28083300	3
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	33,42,91N	118,16,92W	h	33.71512600	118.28199600	2
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	33,42,94N	118,16,92W	h	33.71566700	118.28200000	3
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	33,42,88N	118,16,96W	h	33.71466700	118.28266700	2
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	33,42,82N	118,16,86W	h	33.71366700	118.28100000	3
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	33,42,79N	118,16,88W	h	33.71316700	118.28133300	3
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	33,42,76N	118,16,93W	h	33.71266700	118.28216700	3
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	33,45,85N	118,06,71W	h	33.76421200	118.11186400	1
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	33,45,86N	118,06,73W	h	33.76437400	118.11219000	1
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	33,45,88N	118,06,73W	h	33.76466700	118.11216700	1
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	33,58,97N	118,27,35W	h	33.98283300	118.45583300	3
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	33,58,98N	118,27,34W	h	33.98300000	118.45566700	3
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	33,58,97N	118,27,33W	h	33.98283300	118.45550000	3
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	33,57,79N	118,27,19W	h	33.96316700	118.45316700	3
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	33,57,79N	118,27,18W	h	33.96311300	118.45305400	3
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	33,57,78N	118,27,19W	h	33.96305000	118.45321200	3
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	33,46,12N	118,27,14W	h	33.76866700	118.45233300	72
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	33,46,09N	118,27,16W	h	33.76816700	118.45266700	72
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	33,45,90N	118,27,26W	h	33.76500000	118.45433300	72
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	33,43,93N	118,09,94W	h	33.73216700	118.16566700	14
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	33,43,93N	118,09,92W	h	33.73216700	118.16533300	14
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	33,43,94N	118,09,93W	h	33.73233300	118.16550000	14
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	33,45,23N	118,13,79W	h	33.75383300	118.22983300	13
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	33,45,25N	118,13,81W	h	33.75416700	118.23016700	12
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	33,45,27N	118,13,78W	h	33.75450000	118.22966700	12
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	34,10,22N	119,13,65W	h	34.17033300	119.22750000	3
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	34,10,23N	119,13,64W	h	34.17050000	119.22733300	3
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	34,10,23N	119,13,66W	h	34.17050000	119.22766700	3
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	34,12,66N	119,15,26W	h	34.21100000	119.25433300	1
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	34,12,65N	119,15,25W	h	34.21083300	119.25416700	1

Sampling Data

STANUM	STATION	IDORG	DATE	LEG	LATITUDE	LONGITUDE	HUND_SECS	GISLAT	GISLONG	DEPTH
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	34,12,64N	119,15,26W	h	34.21066700	119.25433300	1
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	34,05,96N	119,04,88W	h	34.09933300	119.08133300	1
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	34,05,94N	119,04,89W	h	34.09900000	119.08150000	1
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	34,05,95N	119,04,89W	h	34.09916700	119.08150000	1
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	34,06,30N	119,07,40W	h	34.10500000	119.12333300	.5
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	34,06,31N	119,07,40W	h	34.10516700	119.12333300	.5
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	34,06,32N	119,07,39W	h	34.10533300	119.12316700	.5
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	33,42,86N	118,16,88W	h	33.71433300	118.28133300	3
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	33,42,84N	118,16,89W	h	33.71400000	118.28150000	3
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	33,42,82N	118,16,84W	h	33.71366700	118.28066700	3
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	33,43,91N	118,09,95W	h	33.73183300	118.16583300	16
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	33,45,692N	118,15,263W	h/d	33.76070000	118.25438300	7
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	33,45,661N	118,15,221W	h/d	33.76101600	118.25368300	9
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	33,45,700N	118,15,120W	h	33.76166000	118.25200000	12
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	34,09,193N	119,12,618W	h/d	34.15321600	119.21030000	7
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	34,08,891N	119,12,128W	h/d	34.14818000	119.20213300	8
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	34,12,791N	119,15,309W	h/d	34.21318300	119.25515000	1
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	34,05,940N	119,04,878W	h/d	34.09900000	119.08130000	1
44014.0	MARINA DEL REY	1630	6/19/96	45.0	33,58,975N	118,27,348W	h/d	33.98291600	118.45580000	4
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	33,45,525N	118,11,346W	h	33.75875000	118.18910000	7
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	33,44,606N	118,12,314W	h	33.74343300	118.20523300	19
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	33,46,102N	118,15,101W	h/d	33.76836667	118.25168333	12
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	33,46,102N	118,15,101W	h/d	33.76836667	118.25168333	12
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	33,46,235N	118,14,998W	h/d	33.77058333	118.24996667	10
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	33,46,235N	118,14,998W	h/d	33.77058333	118.24996667	10
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	33,46,355N	118,14,936W	h/d	33.77258333	118.24893333	7
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	33,46,355N	118,14,936W	h/d	33.77258333	118.24893333	7
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	33,46,453N	118,14,823W	h/d	33.77421667	118.24705000	6
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	33,46,453N	118,14,823W	h/d	33.77421667	118.24705000	6
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	33,46,556N	118,14,577W	h	33.77593333	118.24295000	3
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	33,46,556N	118,14,577W	h	33.77593333	118.24295000	3
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	33,46,556N	118,14,577W	h	33.77593333	118.24295000	3
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	33,46,595N	118,14,501W	h/d	33.77658333	118.24168333	6
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	33,46,427N	118,14,911W	h/d	33.77378333	118.24851667	3
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	33,46,527N	118,14,702W	h/d	33.77545000	118.24503333	9
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	33,46,630N	118,14,467W	h/d	33.77716667	118.24116667	4
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	33,58,962N	118,27,185W	h/d	33.98270000	118.45308330	3
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	33,58,855N	118,27,062W	h/d	33.98091670	118.45103330	2

Sampling Data

STANUM	STATION	IDORG	DATE	LEG	LATITUDE	LONGITUDE	HUND_SECS	GISLAT	GISLONG	DEPTH
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	33,58,534N	118,27,303W	h/d	33.97556670	118.45505000	2
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	33,58,492N	118,26,841W	h/d	33.97486670	118.44735000	3
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	33,57,894N	118,27,173W	h/d	33.96490000	118.45288330	5
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	33,45,555N	118,11,390W	h/d	33.75925000	118.18983330	6
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	33,45,535N	118,11,234W	h/d	33.75891670	118.18723330	7
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	33,45,722N	118,11,025W	h/d	33.76203330	118.18375000	6
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	33,44,094N	118,13,259W	h/d	33.73490000	118.22098330	11
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	33,43,875N	118,09,937W	h/d	33.73125000	118.16561670	14
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	33,43,944N	118,08,498W	h/d	33.73240000	118.14163330	12
48010.0	TURNING BASIN	1697	2/4/97	48.0	33,45,229N	118,16,222W	h/d	33.75381670	118.27036670	16
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	33,43,748N	118,15,955W	h/d	33.72913330	118.26591670	16
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	33,44,778N	118,13,184W	h/d	33.74630000	118.21973330	16
48011.0	KING HARBOR	1700	2/5/97	48.0	33,50,864N	118,23,785W	h/d	33.84773330	118.39641670	6
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	33,45,112N	118,06,764W	h/d	33.75186670	118.11273330	3
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	34,09,970N	119,13,482W	h/d	34.16616670	119.22470000	3
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	34,06,097N	119,06,225W	h/d	34.10161670	119.10375000	1
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	34,06,179N	119,06,994W	h/d	34.10298330	119.11656670	1
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	34,06,343N	119,05,548W	h/d	34.10571670	119.09246670	0
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	34,06,301N	119,05,832W	h/d	34.10501670	119.09720000	0
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	34,05,780N	119,04,587W	h/d	34.09633330	119.07645000	1
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	34,05,705N	119,04,439W	h/d	34.09508330	119.07398330	1
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	33,44,097N	118,13,230W	h/d	33.73495000	118.22050000	11
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53.0	33,43,869N	118,09,945W	h/d	33.73115000	118.16575000	13
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53.0	33,43,947N	118,08,541W	h/d	33.73245000	118.14235000	11
48010.0	TURNING BASIN	1772	5/13/97	53.0	33,45,225N	118,16,224W	h/d	33.75375000	118.27040000	16
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	33,43,772N	118,15,958W	h/d	33.72953333	118.26596667	4
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	33,44,760N	118,13,203W	h/d	33.74600000	118.22005000	16
48011.0	KING HARBOR	1775	5/12/97	53.0	33,50,864N	118,23,785W	h/d	33.84773333	118.39641667	6
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	33,45,125N	118,06,782W	h/d	33.75208800	118.11303100	3
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53.0	34,09,980N	119,13,495W	h/d	34.16633333	119.22491667	4
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	33,42,923N	118,16,932W	h/d	33.71538333	118.28220000	2
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	33,42,542N	118,16,510W	h/d	33.70903333	118.27516667	6
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	33,42,600N	118,16,211W	h/d	33.71000000	118.27018333	11
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	33,42,959N	118,16,355W	h/d	33.71598333	118.27258330	19
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	33,42,864N	118,16,269W	h	33.71440000	118.27115000	16

Appendix C

Analytical Chemistry Data

Section 1

Trace Metal Concentrations

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	METADATA	TMMOIST	ALUMINUM	ANTIMONY	ARSENIC	CADMIUM
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-9	-9.00	41000.00	2.100	14.000	0.3700
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-9	-9.00	37000.00	2.400	13.000	0.4800
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9	-9.00	34000.00	2.000	15.000	0.5700
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-9	-9.00	42000.00	1.300	9.400	0.2200
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9	-9.00	48000.00	1.300	7.800	0.1900
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9	-9.00	68000.00	0.700	5.900	0.1300
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-9	-9.00	24000.00	2.000	17.000	1.2000
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9	-9.00	48000.00	1.400	17.000	0.9200
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9	-9.00	20000.00	2.000	8.700	0.6900
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-9	-9.00	30000.00	3.700	18.000	2.8000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-9	-9.00	22000.00	4.400	17.000	2.9000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9	-9.00	65000.00	0.900	5.000	0.2500
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-9	-9.00	51000.00	1.500	14.000	0.7900
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-9	-9.00	48000.00	2.110	14.000	0.3700
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-9	-9.00	43000.00	1.800	11.000	0.3100
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-9	-9.00	46000.00	1.910	10.000	0.2800
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-9	-9.00	45000.00	1.520	10.000	0.3000
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-9	-9.00	30000.00	1.300	18.000	1.9000
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-9	-9.00	37000.00	1.400	15.000	1.7000
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9	-9.00	37000.00	1.180	15.000	1.3200
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9	-9.00	35000.00	2.000	13.000	0.3100
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-9	-9.00	38000.00	2.100	13.000	0.3200
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-9	-9.00	50000.00	1.400	10.000	0.4700
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9	-9.00	60000.00	1.010	9.300	0.4000

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	METADATA	TMMOIST	ALUMINUM	ANTIMONY	ARSENIC	CADMIUM
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9	-9.00	48000.00	1.200	6.700	0.3200
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9	-9.00	42000.00	1.280	12.000	0.6200
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9	-9.00	47000.00	1.370	7.600	0.3600
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9	-9.00	36000.00	1.790	14.000	0.7600
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-9	-9.00	26000.00	2.100	19.000	0.8900
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-9	-9.00	22000.00	3.000	16.000	1.2000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9	-9.00	34000.00	4.100	34.000	1.6000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-9	-9.00	57000.00	1.160	6.900	0.2300
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-9	-9.00	54000.00	0.990	6.300	0.2900
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-9	-9.00	57000.00	0.600	5.000	0.2200
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-9	-9.00	53000.00	0.400	6.000	0.2400
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-9	-9.00	72000.00	0.630	6.300	0.2400
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-9	-9.00	69000.00	0.840	6.500	0.2300
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-9	-9.00	41000.00	2.200	19.000	0.5600
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-9	-9.00	31000.00	2.300	18.000	0.8300
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-9	-9.00	34000.00	1.450	19.000	0.8200
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-9	-9.00	30000.00	3.000	16.000	0.4700
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-9	-9.00	31000.00	1.600	8.300	1.2000
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-9	-9.00	44000.00	1.610	8.500	1.0600
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-9	-9.00	30000.00	2.300	14.000	1.5000
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-9	-9.00	24000.00	2.100	15.000	1.6000
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-9	-9.00	35000.00	1.800	11.000	0.4100
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-9	-9.00	24000.00	1.400	12.000	0.6300
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9	-9.00	47000.00	0.890	8.300	0.3700
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9	-9.00	49000.00	1.100	8.100	0.3900
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9	-9.00	49000.00	1.100	7.700	0.4300
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9	-9.00	18000.00	1.010	9.100	1.9700
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-9	-9.00	15000.00	1.100	6.500	1.4000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-9	-9.00	14000.00	1.000	5.800	1.2000
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	METADATA	TMMOIST	ALUMINUM	ANTIMONY	ARSENIC	CADMIUM
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-9	-9.00	83000.00	1.300	6.200	0.2900
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-9	-9.00	37000.00	1.400	6.800	0.6200
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-9	-9.00	39000.00	0.980	8.500	0.7500
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-9	-9.00	43000.00	0.900	5.500	0.3600
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-9	-9.00	30000.00	1.500	13.000	1.2000
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9	-9.00	-9.00	-9.000	-9.000	-9.0000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44014.0	MARINA DEL REY	614	1/14/93	11.0	QA5_23.TXT	-9.00	79000.00	2.800	14.000	0.8500
44016.0	MUGU LAGOON	616	1/12/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	QA5_23.TXT	-9.00	45000.00	2.720	9.500	1.9800
44018.0	MALIBU LAGOON	618	1/13/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	QA5_23.TXT	-9.00	50000.00	1.610	13.000	1.2400
44021.0	VENTURA MARINA	621	1/13/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	QA5_23.TXT	-9.00	17000.00	2.690	8.000	1.5200
44024.0	BALLONA CREEK	624	1/14/93	11.0	QA5_23.TXT	-9.00	83000.00	1.080	13.000	0.4800
44026.0	SIM'S POND	626	1/14/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	QA5_23.TXT	-9.00	28000.00	0.640	7.300	1.1800
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	METADATA	TMMOIST	ALUMINUM	ANTIMONY	ARSENIC	CADMIUM
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	QA5_23.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	QA5_23.TXT	-9.00	39000.00	1.040	11.000	0.5900
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	QA5_23.TXT	-9.00	40000.00	1.100	12.000	0.6200
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	QA5_23.TXT	-9.00	24000.00	1.190	14.000	0.8200
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	QA5_23.TXT	-9.00	32000.00	1.560	13.000	0.3600
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	QA5_23.TXT	-9.00	34000.00	1.480	13.000	0.3400
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	QA5_23.TXT	-9.00	32000.00	1.520	12.000	0.3600
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	QA5_23.TXT	-9.00	30000.00	1.420	14.000	0.7700
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	QA5_23.TXT	-9.00	38000.00	1.500	15.000	0.8500
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	QA5_23.TXT	-9.00	32000.00	1.250	14.000	0.7200
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	QA5_23.TXT	-9.00	27000.00	0.720	8.400	1.6000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	QA5_23.TXT	-9.00	16000.00	0.780	9.000	1.7000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	QA5_23.TXT	-9.00	23000.00	0.780	8.200	1.6000
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	QA5_23.TXT	-9.00	35000.00	1.130	16.000	2.2000
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	QA5_23.TXT	-9.00	49000.00	1.140	18.000	2.3000
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	QA5_23.TXT	-9.00	47000.00	1.170	16.000	2.2000
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	QA5_23.TXT	-9.00	35000.00	0.970	17.000	2.5000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	chmmeta2.txt	43.10	18700.00	0.897	13.000	1.3600
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	chmmeta2.txt	47.20	28400.00	1.020	8.700	1.4300
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	chmmeta2.txt	40.80	19100.00	0.698	7.600	1.4400
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	chmmeta2.txt	47.10	29900.00	0.939	13.000	0.6280
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	chmmeta2.txt	49.10	25100.00	1.240	12.000	0.6040
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	chmmeta2.txt	47.60	25300.00	0.774	12.000	0.4740
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	chmmeta2.txt	51.50	46100.00	2.250	12.900	0.5480
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	chmmeta2.txt	48.00	51600.00	2.040	11.500	0.4930
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	chmmeta2.txt	42.00	38400.00	1.810	10.400	0.3630
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	chmmeta2.txt	64.40	39200.00	3.340	18.300	2.7200
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	chmmeta2.txt	61.80	53200.00	3.430	23.900	2.6900
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	chmmeta2.txt	64.30	58700.00	3.850	19.100	2.9000
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	chmmeta2.txt	25.30	72300.00	0.990	3.980	0.1900
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	chmmeta2.txt	27.70	69100.00	1.080	4.450	0.2050
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	chmmeta2.txt	30.00	74100.00	1.060	5.900	0.1920
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	chmmeta2.txt	33.00	69000.00	0.835	3.960	0.9650
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	chmmeta2.txt	34.70	70400.00	1.180	4.120	1.0400
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	chmmeta2.txt	41.00	66400.00	1.550	6.430	1.5000
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	chmmeta2.txt	48.80	64500.00	1.520	12.500	0.5360
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	chmmeta2.txt	49.50	39700.00	1.560	12.200	0.4880
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	chmmeta2.txt	45.70	56800.00	1.590	11.600	0.4460

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	METADATA	TMMOIST	ALUMINUM	ANTIMONY	ARSENIC	CADMIUM
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	chmmeta2.txt	47.60	43000.00	1.830	16.800	0.4180
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	chmmeta2.txt	51.40	42800.00	1.780	15.700	0.5010
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	chmmeta2.txt	41.00	62700.00	1.900	12.400	0.4520
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	chmmeta2.txt	78.40	34200.00	2.100	17.800	1.6600
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	chmmeta2.txt	61.90	53400.00	2.460	18.800	1.5400
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	chmmeta2.txt	66.30	46400.00	2.060	19.200	1.3800
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	chmmeta2.txt	48.50	32600.00	1.010	26.000	2.4300
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	chmmeta2.txt	53.70	26400.00	1.110	27.000	2.6100
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	chmmeta2.txt	52.50	31300.00	1.150	26.000	2.3700
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	chmmeta2.txt	50.50	30500.00	1.160	23.000	1.9200
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	chmmeta2.txt	47.00	32700.00	1.100	21.000	1.7500
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	chmmeta2.txt	49.10	30400.00	1.050	22.000	1.5700
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	chmmeta2.txt	47.70	34600.00	1.500	23.000	1.7600
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	chmmeta2.txt	54.50	36700.00	1.450	23.000	1.8000
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	chmmeta2.txt	47.30	82400.00	0.950	19.000	0.9400
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	chmmeta2.txt	41.80	61000.00	1.560	7.610	0.5410
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	chmmeta2.txt	45.70	49900.00	1.400	7.840	0.5580
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	chmmeta2.txt	43.40	57700.00	1.610	6.870	0.5540
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	chmmeta2.txt	67.00	51700.00	1.970	19.600	0.7250
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	chmmeta2.txt	70.50	67700.00	2.180	17.300	1.2100
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	chmmeta2.txt	68.40	36500.00	1.570	19.100	0.4980
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	chmmeta2.txt	47.50	42800.00	2.320	13.300	1.9400
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	chmmeta2.txt	52.50	48400.00	3.070	14.000	2.4800
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	chmmeta2.txt	45.50	40900.00	2.300	15.200	2.0300
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	METADATA	TMMOIST	ALUMINUM	ANTIMONY	ARSENIC	CADMIUM
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	chmmeta2.txt	-9.00	-9.00	-9.000	-9.000	-9.0000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	CHEM3846.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	CHEM3846.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	CHEM3846.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	CHEM3846.TXT	38.80	61300.00	0.728	-9.000	0.5290
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	CHEM3846.TXT	43.00	49300.00	0.854	-9.000	0.6830
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	CHEM3846.TXT	78.40	12300.00	1.440	-9.000	2.6700
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	CHEM3846.TXT	30.00	74600.00	0.455	-9.000	0.5040
44014.0	MARINA DEL REY	1630	6/19/96	45.0	CHEM3846.TXT	62.40	43300.00	1.880	-9.000	1.0700
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	CHEM3846.TXT	73.00	42600.00	2.280	-9.000	2.6300
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	CHEM3846.TXT	48.50	40300.00	2.230	-9.000	0.4600
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	CHEM3846.TXT	51.90	27100.00	3.460	-9.000	2.8600
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	CHEM3846.TXT	40.80	58300.00	3.310	-9.000	2.6700
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	CHEM3846.TXT	52.90	35700.00	3.640	-9.000	3.0400
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	CHEM3846.TXT	38.60	38700.00	3.560	-9.000	2.2900
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	CHEM3846.TXT	46.50	52400.00	3.160	-9.000	2.8900
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	CHEM3846.TXT	45.00	81200.00	12.800	-9.000	8.5800
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	CHEM3846.TXT	50.00	32600.00	1.820	-9.000	3.6400
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	CHEM3846.TXT	36.40	22900.00	2.730	-9.000	6.1200
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	CHEM3846.TXT	49.50	40400.00	29.400	-9.000	7.7900
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	CHEM3846.TXT	54.10	84600.00	52.800	-9.000	6.3200
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	CHEM3846.TXT	42.40	112000.00	10.900	-9.000	3.9400
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	CHEM3846.TXT	46.50	52300.00	5.110	-9.000	3.7900
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	CHEM3846.TXT	52.90	69700.00	6.150	-9.000	14.5000
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	CHEM3846.TXT	53.50	19700.00	7.150	-9.000	5.7200
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	CHEM3846.TXT	55.00	44300.00	2.110	-9.000	2.3000
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	CHM47_56.TXT	65.70	114000.00	2.620	9.370	0.4890
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	CHM47_56.TXT	54.00	115000.00	1.830	12.100	0.4020

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	METADATA	TMMOIST	ALUMINUM	ANTIMONY	ARSENIC	CADMIUM
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	CHM47_56.TXT	69.60	114000.00	1.800	19.000	0.2650
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	CHM47_56.TXT	52.00	115000.00	1.570	12.700	0.5310
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	CHM47_56.TXT	50.00	94700.00	2.080	13.900	2.1200
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	CHM47_56.TXT	70.00	110000.00	3.660	15.700	2.2000
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	CHM47_56.TXT	83.00	114000.00	3.310	18.000	2.2200
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	CHM47_56.TXT	43.60	132000.00	0.765	9.180	0.9220
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	CHM47_56.TXT	36.00	47300.00	1.170	7.600	0.2680
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	CHM47_56.TXT	52.00	128000.00	1.420	12.800	0.7300
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	CHM47_56.TXT	45.50	116000.00	1.390	9.090	0.5960
48010.0	TURNING BASIN	1697	2/4/97	48.0	CHM47_56.TXT	30.40	108000.00	0.592	6.520	0.2190
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	CHM47_56.TXT	34.00	41400.00	0.994	8.490	0.2690
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	CHM47_56.TXT	41.60	122000.00	1.860	10.500	0.3390
48011.0	KING HARBOR	1700	2/5/97	48.0	CHM47_56.TXT	39.00	101000.00	0.782	5.910	0.3520
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	CHM47_56.TXT	49.00	93800.00	1.770	9.660	1.0400
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	CHM47_56.TXT	41.00	82100.00	0.530	9.680	0.4320
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	CHM47_56.TXT	34.00	95200.00	0.476	3.880	0.7210
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	CHM47_56.TXT	39.00	91400.00	0.355	5.470	0.7130
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	CHM47_56.TXT	39.60	108000.00	0.481	5.130	0.9780
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	CHM47_56.TXT	46.10	123000.00	1.040	6.270	1.3800
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	CHM47_56.TXT	67.00	114000.00	1.600	8.510	2.0100
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	CHM47_56.TXT	57.00	77000.00	0.888	6.460	1.1700
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
48010.0	TURNING BASIN	1772	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
48011.0	KING HARBOR	1775	5/12/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	CHM47_56.TXT	-9.00	-9.00	-9.000	-9.000	-9.0000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	CHM47_56.TXT	49.00	35100.00	2.810	-9.000	0.7380
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	CHM47_56.TXT	58.00	57700.00	1.790	-9.000	0.7670

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	CHROMIUM	COPPER	IRON	LEAD	MANGANESE	MERCURY	NICKEL	SILVER
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	110.000	11.00	47000.0	53.000	590.00	0.6200	43.000	0.3100
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	95.000	110.00	48000.0	49.000	550.00	0.7600	40.000	0.3000
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	100.000	120.00	44000.0	52.000	530.00	0.5700	43.000	0.3100
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	67.000	62.00	36000.0	36.000	450.00	0.2200	28.000	0.1600
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	55.000	49.00	33000.0	27.000	430.00	0.1900	23.000	0.1600
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	39.000	26.00	24000.0	21.000	710.00	0.1200	15.000	0.1000
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	110.000	180.00	47000.0	47.000	490.00	0.4600	47.000	0.7900
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	120.000	130.00	41000.0	33.300	360.00	0.3060	47.000	0.6700
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	63.000	78.00	28000.0	68.000	400.00	0.3600	28.000	0.2900
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	140.000	190.00	43000.0	140.000	350.00	0.7300	45.000	0.8900
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	140.000	200.00	46000.0	170.000	420.00	0.5600	46.000	0.9200
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	46.000	21.00	24000.0	23.000	440.00	0.1500	17.000	0.1100
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	110.000	110.00	48000.0	32.000	620.00	0.2500	47.000	0.7200
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	90.000	69.00	43000.0	30.900	440.00	0.2710	39.000	0.2800
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	64.000	60.00	40000.0	31.000	590.00	0.2200	33.000	0.2300
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	76.000	42.00	40000.0	26.900	610.00	0.1480	36.000	0.1600
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	79.000	44.00	39000.0	24.600	500.00	0.1970	34.000	0.1700
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	90.000	160.00	40000.0	32.000	340.00	0.3000	38.000	0.5500
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	81.000	100.00	32000.0	31.000	410.00	0.4300	34.000	0.4100
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	84.000	110.00	36000.0	36.700	390.00	0.3530	37.000	0.4000
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	83.000	71.00	45000.0	37.000	620.00	0.2000	39.000	0.2700
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	83.000	67.00	45000.0	35.000	650.00	0.2300	40.000	0.2700
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	67.000	50.00	31000.0	32.000	500.00	0.3400	27.000	0.2400
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	55.000	33.00	28000.0	28.400	370.00	0.2030	24.000	0.1800

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	CHROMIUM	COPPER	IRON	LEAD	MANGANESE	MERCURY	NICKEL	SILVER
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	43.000	40.00	29000.0	34.000	400.00	0.5400	21.000	0.1500
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	75.000	47.00	36000.0	25.600	400.00	0.2630	38.000	0.3000
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	70.000	29.00	35000.0	18.900	460.00	0.1290	35.000	0.1300
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	91.000	55.00	42000.0	29.400	510.00	0.2550	47.000	0.3500
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	96.000	320.00	43000.0	61.000	360.00	1.6000	39.000	0.5400
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	100.000	330.00	36000.0	65.000	460.00	1.9000	39.000	0.6200
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	120.000	520.00	57000.0	120.000	530.00	2.4000	48.000	0.7600
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	47.000	11.00	26000.0	18.900	430.00	0.0630	19.000	0.0800
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	47.000	13.00	27000.0	19.800	400.00	0.0570	22.000	0.1000
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	50.000	12.00	28000.0	22.000	630.00	0.0800	18.000	0.0600
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	47.000	27.00	25000.0	24.000	430.00	0.1800	18.000	0.1400
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	43.000	17.00	24000.0	20.700	360.00	0.1060	16.000	0.1000
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	41.000	19.00	26000.0	19.200	360.00	0.0840	16.000	0.1000
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	110.000	160.00	48000.0	72.000	580.00	1.2000	45.000	0.6000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	80.000	96.00	43000.0	38.200	410.00	0.6570	45.000	0.8400
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	99.000	110.00	47000.0	46.400	450.00	0.5180	48.000	0.7900
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	90.000	110.00	44000.0	52.000	650.00	3.1000	43.000	0.5200
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	55.000	51.00	37000.0	40.000	410.00	0.2300	31.000	0.3500
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	61.000	43.00	37000.0	39.500	380.00	0.1590	33.000	0.3500
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	76.000	68.00	50000.0	67.000	350.00	0.3100	38.000	0.4900
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	71.000	68.00	38000.0	64.000	380.00	0.2200	38.000	0.4500
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	78.000	47.00	40000.0	32.000	600.00	0.1800	34.000	0.2900
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	72.000	47.00	37000.0	48.000	470.00	0.2400	33.000	0.3600
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	57.000	23.00	32000.0	30.300	390.00	0.0860	27.000	0.1900
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	57.000	31.00	35000.0	44.000	490.00	0.1000	26.000	0.2500
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	60.000	33.00	37000.0	40.000	490.00	0.1200	29.000	0.2600
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	140.000	48.00	23000.0	28.100	210.00	0.3220	27.000	1.8900
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	140.000	53.00	17000.0	35.000	250.00	0.3000	26.000	1.6000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	110.000	42.00	20000.0	29.000	250.00	0.2600	23.000	1.2000
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	CHROMIUM	COPPER	IRON	LEAD	MANGANESE	MERCURY	NICKEL	SILVER
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	52.000	55.00	37000.0	51.000	430.00	0.1400	26.000	0.4200
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	52.000	48.00	32000.0	60.000	460.00	0.1200	30.000	0.3700
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	63.000	53.00	39000.0	49.000	420.00	0.1610	37.000	0.4800
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	44.000	35.00	26000.0	43.000	410.00	-9.0000	24.000	-9.0000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	79.000	120.00	35000.0	31.000	510.00	0.4900	36.000	0.4300
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44014.0	MARINA DEL REY	614	1/14/93	11.0	110.000	550.00	67000.0	240.000	400.00	0.8150	45.000	1.3200
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	56.000	87.00	38000.0	510.000	350.00	0.3630	34.000	0.6200
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	81.000	150.00	92000.0	180.000	390.00	0.2840	34.000	0.6700
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	61.000	71.00	32000.0	180.000	330.00	0.2250	24.000	5.1400
44024.0	BALLONA CREEK	624	1/14/93	11.0	92.000	120.00	29000.0	33.600	500.00	0.1280	31.000	0.3000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	47.000	29.00	38000.0	16.000	520.00	0.0490	21.000	0.1400
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	CHROMIUM	COPPER	IRON	LEAD	MANGANESE	MERCURY	NICKEL	SILVER
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	61.000	66.00	26000.0	24.000	320.00	0.3120	24.000	0.2900
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	63.000	64.00	26000.0	24.700	340.00	0.1660	26.000	0.2900
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	78.000	94.00	31000.0	27.500	380.00	0.2320	30.000	0.4000
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	67.000	53.00	39000.0	25.800	500.00	0.2700	31.000	0.2500
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	72.000	52.00	42000.0	29.100	640.00	0.1790	33.000	0.2100
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	71.000	53.00	42000.0	30.400	660.00	0.2150	31.000	0.2200
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	74.000	49.00	40000.0	56.800	530.00	0.0870	34.000	0.3600
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	73.000	52.00	44000.0	59.000	530.00	0.1320	35.000	0.3600
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	72.000	47.00	41000.0	42.200	470.00	0.1560	36.000	0.3800
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	130.000	46.00	25000.0	29.700	240.00	0.1990	27.000	1.0800
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	140.000	51.00	26000.0	34.000	260.00	0.2110	27.000	1.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	140.000	49.00	24000.0	32.800	260.00	0.3540	25.000	1.1300
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	84.000	89.00	37000.0	32.400	440.00	0.3800	33.000	0.4600
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	94.000	130.00	43000.0	37.400	440.00	0.4290	38.000	0.5200
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	76.000	97.00	37000.0	34.600	420.00	0.3560	38.000	0.4500
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	93.000	130.00	38000.0	29.700	350.00	0.4540	43.000	0.5300
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	142.000	43.00	24000.0	28.300	269.00	0.2210	22.200	0.7570
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	173.000	59.10	28400.0	37.200	286.00	0.2190	35.800	1.3800
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	117.000	34.10	23900.0	24.300	230.00	0.2160	24.400	1.1170
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	70.700	43.70	38600.0	45.000	472.00	0.1280	35.400	0.3670
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	70.900	48.40	36400.0	41.000	463.00	0.1370	42.200	0.4170
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	65.500	43.60	31700.0	40.400	456.00	0.1290	35.800	0.3580
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	87.900	79.40	51000.0	26.300	678.00	0.2430	46.400	0.3740
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	81.000	68.40	47100.0	27.400	669.00	0.2290	41.300	0.3280
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	69.200	55.40	43800.0	24.600	640.00	0.1590	34.600	0.2480
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	149.000	215.00	46600.0	109.000	485.00	0.6040	45.800	0.9760
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	139.000	210.00	47400.0	95.300	529.00	0.5610	45.300	0.9360
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	146.000	222.00	52200.0	95.600	600.00	0.7370	50.600	1.0500
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	37.000	21.00	19300.0	20.300	314.00	0.1100	13.300	0.0930
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	37.000	23.20	22200.0	17.500	378.00	0.1210	13.400	0.1010
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	42.600	28.40	25300.0	25.100	446.00	0.1330	15.300	0.1190
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	28.900	27.00	24700.0	72.500	359.00	0.1220	15.600	0.3810
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	31.500	28.60	24100.0	62.000	320.00	0.1190	14.100	0.3660
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	44.100	48.80	36700.0	65.700	493.00	0.2080	24.000	0.7620
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	87.100	55.10	49300.0	33.100	578.00	0.1590	39.400	0.3800
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	86.600	55.10	48900.0	35.900	548.00	0.1930	38.500	0.3850
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	79.000	49.70	43400.0	32.100	521.00	0.1870	36.600	0.3390

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	CHROMIUM	COPPER	IRON	LEAD	MANGANESE	MERCURY	NICKEL	SILVER
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	93.300	102.00	44400.0	46.300	526.00	0.4700	42.000	0.2870
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	93.300	107.00	41800.0	39.700	495.00	0.5660	39.900	0.3100
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	77.800	75.20	39900.0	44.400	476.00	0.3260	31.700	0.1980
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	93.300	186.00	54500.0	136.000	415.00	0.2880	45.200	0.6520
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	95.500	153.00	53100.0	131.000	392.00	0.2460	44.200	0.7180
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	86.900	130.00	44300.0	114.000	367.00	0.2410	37.000	0.6040
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	85.800	247.00	35100.0	31.400	353.00	0.4460	39.500	0.5750
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	94.900	274.00	36200.0	30.600	304.00	0.6380	47.500	0.6460
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	95.800	273.00	40200.0	37.000	420.00	0.4210	42.100	0.6400
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	88.800	218.00	39200.0	32.400	427.00	0.3030	36.800	0.5680
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	84.000	188.00	37100.0	33.300	421.00	0.3960	36.200	0.4720
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	69.900	194.00	28600.0	24.200	367.00	0.1930	33.600	0.5060
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	86.800	229.00	37700.0	33.600	461.00	0.3120	42.100	0.5840
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	94.900	261.00	40300.0	30.200	323.00	0.3350	43.100	0.6130
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	86.900	219.00	39900.0	28.300	501.00	0.2710	36.100	0.4230
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	62.400	57.00	38900.0	52.000	475.00	0.1880	34.900	0.2530
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	65.600	58.30	40800.0	46.200	518.00	0.1420	46.300	0.2840
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	61.100	55.80	36700.0	48.600	478.00	0.1330	33.000	0.2360
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	106.000	407.00	54000.0	121.000	310.00	1.1200	48.200	1.3000
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	121.000	427.00	61900.0	171.000	402.00	1.1100	52.900	1.2300
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	108.000	406.00	54300.0	100.000	318.00	0.6760	46.300	1.0800
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	66.900	88.60	27200.0	101.000	296.00	0.2310	29.200	3.6600
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	82.500	116.00	34300.0	117.000	361.00	0.2690	34.600	3.7600
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	71.400	96.30	29100.0	120.000	296.00	0.2640	31.400	3.2300
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	CHROMIUM	COPPER	IRON	LEAD	MANGANESE	MERCURY	NICKEL	SILVER
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	46.000	65.50	25000.0	33.300	317.00	0.1000	-9.000	0.1610
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	54.200	87.60	30700.0	20.100	305.00	0.0944	-9.000	0.1790
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	83.200	37.90	48400.0	17.800	873.00	0.0590	-9.000	0.1660
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	37.400	8.33	15000.0	15.300	167.00	0.0316	-9.000	0.0748
44014.0	MARINA DEL REY	1630	6/19/96	45.0	92.000	321.00	48200.0	149.000	365.00	1.1100	-9.000	0.7780
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	82.500	195.00	52900.0	162.000	444.00	0.2330	-9.000	0.6580
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	64.900	62.10	50300.0	36.800	680.00	0.2100	-9.000	0.2470
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	116.000	162.00	39500.0	139.000	466.00	0.5370	-9.000	0.8630
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	145.000	132.00	41300.0	223.000	631.00	0.1150	-9.000	0.8170
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	106.000	207.00	38500.0	138.000	484.00	0.5920	-9.000	0.7430
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	107.000	113.00	40000.0	180.000	714.00	0.5030	-9.000	0.7280
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	96.300	129.00	33300.0	142.000	440.00	0.4720	-9.000	0.6320
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	287.000	266.00	40400.0	385.000	547.00	1.5700	-9.000	2.4200
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	103.000	143.00	37100.0	150.000	484.00	0.4590	-9.000	0.9700
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	277.000	185.00	34100.0	325.000	427.00	0.7750	-9.000	1.4700
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	552.000	478.00	33100.0	460.000	369.00	3.2800	-9.000	2.5900
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	468.000	1740.00	44500.0	542.000	453.00	2.9400	-9.000	1.6200
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	89.800	144.00	55300.0	1590.000	634.00	1.4900	-9.000	3.0200
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	91.800	116.00	37500.0	91.800	507.00	0.3190	-9.000	0.4720
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	109.000	151.00	37300.0	85.900	306.00	0.4540	-9.000	0.6010
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	111.000	173.00	43000.0	107.000	320.00	0.4960	-9.000	0.6900
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	109.000	144.00	41000.0	79.700	345.00	0.4730	-9.000	0.4280
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	97.800	266.00	53500.0	206.000	423.00	0.8530	56.700	0.8170
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	92.400	326.00	47600.0	52.200	438.00	0.5890	29.200	1.1400

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	CHROMIUM	COPPER	IRON	LEAD	MANGANESE	MERCURY	NICKEL	SILVER
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	110.000	391.00	59600.0	168.000	394.00	1.5400	53.900	1.4900
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	85.000	164.00	43500.0	76.900	443.00	0.4230	34.900	1.4600
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	86.900	100.00	37300.0	150.000	441.00	0.3950	24.100	2.4500
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	90.600	178.00	53700.0	171.000	536.00	0.2990	25.400	1.1400
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	95.200	149.00	60600.0	168.000	551.00	0.3370	55.200	0.6660
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	65.000	71.40	46300.0	74.800	643.00	0.1690	38.700	0.2380
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	57.800	33.30	43100.0	26.500	659.00	0.1200	30.600	0.0988
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	66.900	47.50	43600.0	44.600	605.00	0.2360	34.500	0.3070
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	60.000	35.70	38600.0	44.400	539.00	0.1590	31.800	0.2620
48010.0	TURNING BASIN	1697	2/4/97	48.0	45.900	31.30	29300.0	23.000	511.00	0.1540	21.600	0.6230
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	45.300	34.50	28400.0	28.000	439.00	0.2930	23.200	0.2290
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	63.200	51.60	44200.0	64.400	682.00	0.2680	39.600	0.1400
48011.0	KING HARBOR	1700	2/5/97	48.0	65.700	82.50	24700.0	82.900	346.00	0.7060	27.000	0.4210
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	54.500	69.10	37800.0	94.600	478.00	0.2550	35.400	0.3500
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	61.200	38.30	30300.0	30.200	348.00	0.0951	25.700	0.1000
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	43.900	15.70	19600.0	19.000	219.00	0.1030	21.600	0.0915
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	40.200	16.90	18500.0	18.100	188.00	0.0450	20.900	0.1220
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	50.500	23.50	25800.0	17.600	373.00	0.0382	29.300	0.1200
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	62.200	29.90	32700.0	32.500	373.00	0.0279	34.300	0.1440
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	89.800	45.60	46900.0	16.100	436.00	0.0348	46.700	0.1750
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	59.900	28.20	29700.0	14.400	288.00	0.0264	31.100	0.1720
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
48010.0	TURNING BASIN	1772	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
48011.0	KING HARBOR	1775	5/12/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000	-9.000	-9.0000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	115.000	410.00	34900.0	21.500	288.00	0.2830	49.100	0.6080
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	95.200	216.00	59200.0	31.700	677.00	0.3500	51.400	0.5650

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	SELENIUM	TIN	ZINC	ASBATCH	SEBATCH	TMBATCH	TMDATAQC
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	0.460	6.3000	200.0000	-9.00	-9.00	-9.00	-9
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	0.470	4.5000	190.0000	-9.00	-9.00	-9.00	-9
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	0.590	4.8000	200.0000	-9.00	-9.00	-9.00	-9
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	0.270	4.3000	130.0000	-9.00	-9.00	-9.00	-9
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	0.280	3.3000	100.0000	-9.00	-9.00	-9.00	-9
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	0.120	3.6000	70.0000	-9.00	-9.00	-9.00	-9
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	2.400	3.1000	220.0000	-9.00	-9.00	-9.00	-9
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	2.500	3.6400	160.0000	3.10	3.10	3.10	-9
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	0.330	3.1000	190.0000	-9.00	-9.00	-9.00	-9
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	0.640	8.0000	540.0000	-9.00	-9.00	-9.00	-9
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	0.530	8.7000	570.0000	-9.00	-9.00	-9.00	-9
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	0.150	3.3000	76.0000	-9.00	-9.00	-9.00	-9
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	1.800	5.1000	200.0000	-9.00	-9.00	-9.00	-9
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	0.380	7.1800	150.0000	3.10	3.10	3.10	-9
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	0.220	3.8000	140.0000	-9.00	-9.00	-9.00	-9
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	0.200	5.2300	140.0000	3.10	3.10	3.10	-9
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-8.000	5.3400	130.0000	3.10	3.10	3.10	-9
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	1.900	3.4000	230.0000	-9.00	-9.00	-9.00	-9
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	1.600	2.7000	230.0000	-9.00	-9.00	-9.00	-9
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	1.700	3.9500	210.0000	3.10	3.10	3.10	-9
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	0.250	4.2000	170.0000	-9.00	-9.00	-9.00	-9
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	0.240	3.8000	170.0000	-9.00	-9.00	-9.00	-9
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	0.410	4.2000	120.0000	-9.00	-9.00	-9.00	-9
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	0.290	3.0200	100.0000	3.10	3.10	3.10	-9

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	SELENIUM	TIN	ZINC	ASBATCH	SEBATCH	TMBATCH	TMDATAQC
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	0.280	2.5000	110.0000	-9.00	-9.00	-9.00	-9
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	1.200	3.9600	120.0000	3.10	3.10	3.10	-9
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	0.480	2.7800	100.0000	3.10	3.10	3.10	-9
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	1.400	2.8100	150.0000	3.10	3.10	3.10	-9
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	1.600	6.5000	310.0000	-9.00	-9.00	-9.00	-9
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	1.000	9.1000	320.0000	-9.00	-9.00	-9.00	-9
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	1.600	11.3000	490.0000	-9.00	-9.00	-9.00	-9
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-8.000	3.1500	63.0000	3.10	3.10	3.10	-9
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-8.000	3.4600	65.0000	3.10	3.10	3.10	-9
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.000	3.6000	63.0000	-9.00	-9.00	-9.00	-9
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	0.200	3.6000	79.0000	-9.00	-9.00	-9.00	-9
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-8.000	2.2200	70.0000	3.10	3.10	3.10	-9
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-8.000	2.5200	77.0000	3.10	3.10	3.10	-9
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	0.420	7.7000	330.0000	-9.00	-9.00	-9.00	-9
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	0.560	8.5300	220.0000	3.10	3.10	3.10	-9
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	0.530	6.5500	230.0000	3.10	3.10	3.10	-9
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	0.330	5.6000	220.0000	-9.00	-9.00	-9.00	-9
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	0.470	3.7000	190.0000	-9.00	-9.00	-9.00	-9
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	0.530	4.2600	180.0000	3.10	3.10	3.10	-9
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	0.800	4.1000	200.0000	-9.00	-9.00	-9.00	-9
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	0.750	4.4000	210.0000	-9.00	-9.00	-9.00	-9
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	0.360	3.8000	140.0000	-9.00	-9.00	-9.00	-9
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	0.400	3.6000	150.0000	-9.00	-9.00	-9.00	-9
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-8.000	4.2600	100.0000	1.20	1.20	3.10	-9
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	0.280	4.9000	120.0000	-9.00	-9.00	-9.00	-9
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	0.180	4.7000	130.0000	-9.00	-9.00	-9.00	-9
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	0.890	9.8700	97.0000	3.10	3.10	3.10	-9
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	0.570	15.1000	100.0000	-9.00	-9.00	-9.00	-9
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	0.490	10.7000	88.0000	-9.00	-9.00	-9.00	-9
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	SELENIUM	TIN	ZINC	ASBATCH	SEBATCH	TMBATCH	TMDATAQC
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-8.000	3.9000	140.0000	-9.00	-9.00	-9.00	-9
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	0.170	4.5000	160.0000	-9.00	-9.00	-9.00	-9
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	0.270	5.0500	180.0000	3.10	3.10	3.10	-9
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-8.000	3.0000	120.0000	-9.00	-9.00	-9.00	-9
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	1.400	3.5000	220.0000	-9.00	-9.00	-9.00	-9
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	0.740	13.0000	620.0000	2.10	2.10	2.10	-4
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-8.000	8.6000	690.0000	2.10	2.10	2.10	-4
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	0.580	8.7000	290.0000	2.10	2.10	2.10	-4
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	0.280	10.0000	380.0000	2.10	2.10	2.10	-4
44024.0	BALLONA CREEK	624	1/14/93	11.0	0.520	4.3000	190.0000	2.10	2.10	2.10	-4
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	0.880	2.2000	120.0000	2.10	2.10	2.10	-4
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	SELENIUM	TIN	ZINC	ASBATCH	SEBATCH	TMBATCH	TMDATAQC
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	1.200	2.4400	110.0000	5.10	5.10	5.10	-9
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	1.200	1.7100	110.0000	5.10	5.10	5.10	-9
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	1.700	3.0800	140.0000	5.10	5.10	5.10	-9
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	0.270	3.2800	140.0000	5.10	5.10	5.10	-9
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	0.250	2.9900	150.0000	5.10	5.10	5.10	-9
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	0.230	2.7300	160.0000	5.10	5.10	5.10	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	0.420	2.5500	160.0000	5.40	5.30	5.20	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	0.550	2.3500	180.0000	5.40	5.30	5.20	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	0.450	2.3000	140.0000	5.40	5.30	5.20	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	0.800	6.8400	100.0000	5.50	5.40	5.20	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	0.720	7.8200	100.0000	5.50	5.50	5.20	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	0.730	6.8900	100.0000	5.50	5.50	5.20	-9
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	1.700	1.8800	260.0000	5.50	5.50	5.20	-9
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	1.900	2.1800	300.0000	5.50	5.50	5.20	-9
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	1.800	1.9300	260.0000	5.50	5.50	5.20	-9
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	2.200	2.3200	230.0000	5.50	5.50	5.20	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	0.790	12.1000	98.4000	7.10	7.10	7.10	-4
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	0.940	16.2000	125.0000	7.10	7.10	7.10	-4
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	0.710	9.3700	89.5000	7.10	7.10	7.10	-4
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	0.460	4.2700	162.0000	7.10	7.10	7.10	-4
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	0.530	5.0800	166.0000	7.10	7.10	7.10	-4
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	0.470	3.7300	149.0000	7.10	7.10	7.10	-4
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	0.449	2.5400	167.0000	8.10	8.10	8.10	-4
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	0.382	2.3300	147.0000	8.10	8.10	8.10	-4
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	0.283	1.9300	126.0000	8.10	8.10	8.10	-4
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	0.737	5.1100	463.0000	8.10	8.10	8.10	-4
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	0.598	5.0800	606.0000	8.10	8.10	8.10	-4
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	0.765	5.3300	616.0000	8.10	8.10	8.10	-4
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.000	1.0200	58.2000	8.20	8.20	8.10	-4
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-8.000	1.1700	62.9000	8.20	8.20	8.10	-4
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-8.000	1.5300	70.1000	8.20	8.20	8.10	-4
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	0.216	1.4200	131.0000	8.20	8.20	8.10	-4
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	0.215	2.3300	138.0000	8.20	8.20	8.10	-4
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	0.416	2.8900	214.0000	8.20	8.20	8.10	-4
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	0.435	3.3200	164.0000	8.20	8.20	8.10	-4
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	0.472	3.3600	169.0000	8.20	8.20	8.10	-4
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	0.403	2.9700	145.0000	8.20	8.20	8.10	-4

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	SELENIUM	TIN	ZINC	ASBATCH	SEBATCH	TMBATCH	TMDATAQC
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	0.415	2.7700	198.0000	8.20	8.20	8.10	-4
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	0.445	2.8300	189.0000	8.20	8.20	8.10	-4
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	0.300	2.1000	160.0000	8.20	8.20	8.10	-4
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	0.983	4.4100	364.0000	8.20	8.20	8.10	-4
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	0.907	7.3100	323.0000	8.20	8.20	8.10	-4
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	0.890	5.1900	276.0000	8.20	8.20	8.10	-4
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	2.400	3.6900	287.0000	7.20	7.20	7.10	-4
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	2.700	3.8900	263.0000	7.20	7.20	7.10	-4
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	2.500	4.2100	298.0000	7.20	7.20	7.10	-4
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	2.100	3.3600	283.0000	7.20	7.20	7.10	-4
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	1.900	3.4400	257.0000	7.20	7.20	7.10	-4
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	1.900	3.4000	210.0000	7.20	7.20	7.10	-4
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	2.200	3.3400	263.0000	7.20	7.20	7.10	-4
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	2.400	3.4200	229.0000	7.20	7.20	7.10	-4
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	1.300	3.0900	221.0000	7.20	7.20	7.10	-4
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-8.000	2.2900	189.0000	8.20	8.20	8.10	-4
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-8.000	2.4900	194.0000	8.20	8.20	8.10	-4
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-8.000	2.5200	185.0000	8.20	8.20	8.10	-4
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	0.818	5.7000	517.0000	8.20	8.20	8.10	-4
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	0.890	6.8500	636.0000	8.20	8.20	8.20	-4
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	1.300	5.4500	486.0000	8.20	8.20	8.20	-4
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	0.770	3.8900	423.0000	8.30	8.30	8.20	-4
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	0.820	7.8700	528.0000	8.30	8.30	8.20	-4
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	0.889	4.0300	442.0000	8.30	8.30	8.20	-4
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	SELENIUM	TIN	ZINC	ASBATCH	SEBATCH	TMBATCH	TMDATAQC
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-9.000	1.3000	114.0000	-9.00	-9.00	4.00	-4
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-9.000	1.6700	130.0000	-9.00	-9.00	4.00	-4
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-9.000	1.6600	170.0000	-9.00	-9.00	4.00	-4
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-9.000	0.5530	37.7000	-9.00	-9.00	4.00	-4
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-9.000	0.4600	400.0000	-9.00	-9.00	4.00	-4
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	-9.000	4.8200	358.0000	19.00	19.00	4.00	-4
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-9.000	2.8600	145.0000	19.00	19.00	4.00	-4
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	-9.000	5.2100	385.0000	-9.00	-9.00	4.00	-4
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	-9.000	3.5900	313.0000	-9.00	-9.00	4.00	-4
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	-9.000	4.1100	470.0000	-9.00	-9.00	4.00	-4
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	-9.000	3.9200	309.0000	-9.00	-9.00	4.00	-4
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	-9.000	2.1700	388.0000	-9.00	-9.00	4.00	-4
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-9.000	6.6600	568.0000	-9.00	-9.00	4.00	-4
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	-9.000	4.1700	473.0000	-9.00	-9.00	4.00	-4
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	-9.000	9.4500	737.0000	-9.00	-9.00	8.00	-4
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-9.000	4.1100	447.0000	-9.00	-9.00	4.00	-4
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-9.000	5.8800	700.0000	-9.00	-9.00	4.00	-4
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-9.000	9.1700	1010.0000	-9.00	-9.00	8.00	-4
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	-9.000	4.4600	265.0000	-9.00	-9.00	8.00	-4
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	-9.000	4.7200	347.0000	-9.00	-9.00	8.00	-4
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	-9.000	2.1700	477.0000	-9.00	-9.00	8.00	-4
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	-9.000	3.5800	207.0000	-9.00	-9.00	8.00	-4
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	0.712	4.1100	496.0000	98.20	98.10	97.30	-4
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	0.488	3.8600	520.0000	98.20	98.10	97.30	-4

Trace Metal Concentrations in Sediment (ppm)

STANUM	STATION	IDORG	DATE	LEG	SELENIUM	TIN	ZINC	ASBATCH	SEBATCH	TMBATCH	TMDATAQC
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	0.673	5.4700	589.0000	98.20	98.10	97.30	-4
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	0.455	3.1400	320.0000	98.20	98.10	97.30	-4
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	0.547	3.7200	260.0000	98.20	98.10	97.30	-4
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	0.861	4.4500	417.0000	98.20	98.10	97.30	-4
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	1.089	4.8300	409.0000	98.20	98.10	97.30	-4
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	0.249	2.5100	235.0000	98.20	98.10	97.30	-4
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	0.110	2.2300	158.0000	98.20	98.10	97.30	-4
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	0.387	1.7700	126.0000	98.20	98.10	97.30	-4
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	0.290	2.3500	159.0000	98.20	98.10	97.30	-4
48010.0	TURNING BASIN	1697	2/4/97	48.0	0.134	1.3900	105.0000	98.20	98.10	97.30	-4
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	0.210	1.4400	106.0000	98.20	98.10	97.30	-4
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	0.195	2.1900	184.0000	98.20	98.10	97.30	-4
48011.0	KING HARBOR	1700	2/5/97	48.0	0.200	2.2300	118.0000	98.20	98.10	97.30	-4
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	0.395	2.3900	200.0000	98.20	98.10	97.30	-4
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	0.399	1.3900	133.0000	98.20	98.10	97.30	-4
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	0.414	1.2400	67.0000	98.20	98.10	97.30	-4
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	0.525	0.8670	67.0000	98.20	98.10	97.30	-4
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	0.524	1.3200	94.4000	98.20	98.10	97.30	-4
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	0.720	1.4400	118.0000	98.20	98.10	97.30	-4
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	1.092	1.7500	219.0000	98.20	98.10	97.30	-4
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	0.653	1.3300	116.0000	98.20	98.10	97.30	-4
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
48010.0	TURNING BASIN	1772	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
48011.0	KING HARBOR	1775	5/12/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	-9.000	-9.0000	-9.0000	-9.00	-9.00	-9.00	-9
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-9.000	0.8900	141.0000	-9.00	-9.00	98.20	-4
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	-9.000	1.9000	208.0000	-9.00	-9.00	98.20	-4

Section 2

Trace Metal Concentrations in Porewater

Trace Metal Concentrations in Porewater (ppb)

STANUM	STATION	IDORG	DATE	LEG	PWAL	PWCD	PWCU	PWFE	PWPB	PWMN	PWNI	PWAG	PWZN	PWBATCH
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	16	-8.000	1.50	9200	0.02	2600	2.10	-8.0000	4.2	-9
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	42	0.006	7.70	9500	0.59	2900	2.30	-8.0000	9.9	-9
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	520	0.180	7.40	8700	8.60	1900	4.60	-8.0000	72.0	-9
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	23	0.033	1.40	9900	0.17	980	2.60	-8.0000	5.5	-9
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	98	0.023	1.00	1800	1.50	390	1.20	-8.0000	4.6	-9
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	55	0.012	0.99	1100	0.66	600	2.20	-8.0000	3.0	-9
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	37	0.035	1.60	9300	0.58	580	2.30	-8.0000	15.0	-9
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	16	0.089	1.60	8400	0.21	810	8.90	-8.0000	9.4	-9
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	74	0.020	0.81	2200	0.66	1200	1.20	-8.0000	3.9	-9
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	6	0.035	0.72	7300	0.35	2000	3.50	-8.0000	9.2	-9
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	14	0.013	1.30	510	0.35	30	2.00	-8.0000	2.8	-9
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	19	0.013	0.54	1300	0.58	130	0.34	-8.0000	2.3	-9
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	600	0.190	39.00	7000	18.00	2200	4.00	-8.0000	98.0	-9
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	62	0.025	1.50	8300	0.93	970	2.10	-8.0000	3.1	-9

Trace Metal Concentrations in Porewater (ppb)

STANUM	STATION	IDORG	DATE	LEG	PWAL	PWCD	PWCU	PWFE	PWPB	PWMN	PWNI	PWAG	PWZN	PWBATCH
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	33	0.052	0.79	11000	0.32	720	3.20	-8.0000	5.5	-9
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9	-9.000	-9.00	-9	-9.00	-9	-9.00	-9.0000	-9.0	-9
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	64	0.056	1.20	3900	0.93	80	1.40	-8.0000	16.0	-9
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	300	0.180	6.20	16000	6.90	620	8.20	-8.0000	61.0	-9
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	638	2.450	17.00	4130	9.10	640	4.90	0.0113	67.6	athpwm96
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	1620	0.700	17.50	7960	3.61	49	4.88	0.0039	15.5	athpwm96
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	770	0.450	4.05	1710	0.36	1750	2.40	0.0122	4.7	athpwm96
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	1400	0.380	3.73	6940	0.78	630	5.39	0.0061	6.4	athpwm96
44014.0	MARINA DEL REY	1630	6/19/96	45.0	889	0.240	14.50	6430	8.13	100	2.20	0.0114	11.5	athpwm96
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	707	0.570	4.75	300	6.94	23	1.99	0.0046	8.5	athpwm96
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	2460	0.120	9.08	8530	1.53	1840	5.25	0.0094	13.9	athpwm96

Trace Metal Concentrations in Porewater (ppb)

STANUM	STATION	IDORG	DATE	LEG	PWDATAQC
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-4
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-4
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-4
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-4
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-4
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-4
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-4
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-4
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-4
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-4
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-4
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-4
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-4
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-4

Trace Metal Concentrations in Porewater (ppb)

STANUM	STATION	IDORG	DATE	LEG	PWDATAQC
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-4
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-4
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-4
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-9
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-9
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-9
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-9
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-9
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	-9
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-9

Section 3

Acid Volatile Sulfides and Simultaneous Extracted Metals Concentrations

Acid Volatile Sulfides and Simultaneous Extracted Metals Concentrations (ppm)

STANUM	STATION	IDORG	DATE	LEG	AVS	SEM_CD	SEM_CU	SEM_NI	SEM_PB	SEM_ZN	SEM_SUM	SEM_AVS
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	11.2400	0.00460	0.9300	0.1310	0.1240	1.5600	2.7500	0.2450
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	11.5500	0.00490	1.7600	0.1000	0.0790	1.4800	3.4200	0.2960
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	155.1900	0.02220	0.5500	0.3150	0.0510	1.6700	2.6100	0.0170
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	30.9700	0.00370	0.0700	0.0720	0.0170	0.2800	0.4400	0.0140
44014.0	MARINA DEL REY	1630	6/19/96	45.0	17.8100	0.00930	3.0100	0.1500	0.9320	6.0600	10.1500	0.5700
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	249.6500	0.01970	1.7800	0.2370	1.0960	4.7400	7.8700	0.0320
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	1.8900	0.00240	0.5300	0.1390	0.1640	1.0800	1.9100	1.0160
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	37.4300	0.01830	1.4700	0.1590	0.6180	5.3400	7.6100	0.2030
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	69.4700	0.01920	1.2200	0.1450	0.8590	4.8200	7.0600	0.1020
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	86.9200	0.02780	1.9000	0.1940	0.8830	6.9900	10.0000	0.1150
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	50.7300	0.01520	1.1700	0.1450	0.7140	4.1500	6.1800	0.1220
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	93.7900	0.02000	1.1100	0.1350	0.5990	6.1200	7.9800	0.0850
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	136.7800	0.02920	1.0500	0.1980	1.6410	6.0700	8.9900	0.0660
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	130.0900	0.03020	1.1500	0.2010	0.8740	8.1700	10.4200	0.0800
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	163.8700	0.05520	0.5100	0.2830	2.3410	12.8300	16.0200	0.0980
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	123.5700	0.04780	1.5300	0.2210	1.2650	6.8500	9.9200	0.0800
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	322.7600	0.08100	1.2300	0.7990	2.6210	12.3700	17.1000	0.0530
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	212.8700	0.06240	0.0700	0.6970	8.0120	36.1000	44.9400	0.2110
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	45.5000	0.01980	1.1500	0.1660	0.7770	6.2000	8.3100	0.1830
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	112.1800	0.02240	1.3800	0.2110	1.0710	6.9600	9.6400	0.0860
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	160.4000	0.04040	1.5600	0.3000	1.2600	9.9100	13.0800	0.0820
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	120.9000	0.01570	1.5400	0.1860	0.6520	4.1100	6.5100	0.0540
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	0.9290	0.00290	2.2800	0.2160	1.2900	4.6000	8.3900	9.0300
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	14.5000	0.00335	3.5200	0.1740	1.0400	4.5000	9.2400	0.6370
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	10.0000	0.00230	1.4000	0.1670	1.6000	5.0900	8.2600	0.8260
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	2.5500	0.00510	0.6890	0.1190	0.9850	2.8400	4.6400	1.8200
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	5.7000	0.02490	0.4230	0.1380	1.5900	3.5600	5.7400	1.0100
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	106.0000	0.02830	0.7450	0.1790	2.0200	2.9400	5.9100	0.0558
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	199.0000	0.02970	0.6260	0.2320	1.9100	3.0900	5.8900	0.0296
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	6.6500	0.00899	0.1730	0.0809	0.6270	1.1300	2.0200	0.3040
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	6.7900	0.00206	0.0330	0.0772	0.9460	0.5280	1.5900	0.2340
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	7.2200	0.00842	0.1860	0.1250	0.5600	0.8260	1.7100	0.2370
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	0.4730	0.00343	0.2410	0.1790	0.3870	0.7130	1.5200	3.2100
48010.0	TURNING BASIN	1697	2/4/97	48.0	0.0610	0.00104	0.2720	0.0325	0.0700	0.3990	0.7750	12.7000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	1.0500	0.00269	0.0362	0.0649	0.0796	0.4910	0.6740	0.6420
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	1.3200	0.00349	0.2110	0.1020	0.1140	0.7740	1.2000	0.9090
48011.0	KING HARBOR	1700	2/5/97	48.0	4.6000	0.00305	0.5150	0.0750	0.2170	1.2400	2.0500	0.4460
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	3.2100	0.01150	0.2960	0.0964	0.2300	1.3800	2.0100	0.6260
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	2.1900	0.00936	0.1580	0.0787	0.0416	0.3660	0.6480	0.2980

Acid Volatile Sulfides and Simultaneous Extracted Metals Concentrations (ppm)

STANUM	STATION	IDORG	DATE	LEG	AVS	SEM_CD	SEM_CU	SEM_NI	SEM_PB	SEM_ZN	SEM_SUM	SEM_AVS
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	36.2000	0.01020	0.0162	0.1460	0.0343	0.2160	0.4230	0.0117
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	34.6000	0.00674	0.0173	0.0625	0.0394	0.1490	0.2750	0.0080
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	3.2800	0.01070	0.0532	0.1190	0.0478	0.3070	0.5380	0.1640
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	46.3000	0.01320	0.0236	0.1140	0.0450	0.2710	0.4670	0.0101
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	81.7000	0.02470	0.3740	0.1910	0.0763	0.4790	1.1500	0.0141
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	47.7000	0.01470	0.0406	0.1290	0.0483	0.1940	0.4270	0.0090

Acid Volatile Sulfides and Simultaneous Extracted Metals Concentrations (ppm)

STANUM	STATION	IDORG	DATE	LEG	AVS_BATCH	AVSDATAQC
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	19.00	-3
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	19.00	-3
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	19.00	-3
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	19.00	-3
44014.0	MARINA DEL REY	1630	6/19/96	45.0	19.00	-3
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	19.00	-3
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	19.00	-3
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	19.00	-3
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	19.00	-3
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	19.00	-3
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	19.00	-3
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	19.00	-3
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	19.00	-3
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	19.00	-3
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	19.00	-3
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	19.00	-3
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	19.00	-3
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	19.00	-3
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	19.00	-3
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	19.00	-3
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	19.00	-3
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	19.00	-3
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	22.40	-3
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	22.40	-3
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	22.50	-3
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	22.60	-3
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	22.70	-3
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	22.70	-3
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	22.70	-3
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	22.70	-3
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	22.70	-3
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	22.70	-3
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	22.14	-3
48010.0	TURNING BASIN	1697	2/4/97	48.0	22.14	-3
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	22.90	-3
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	22.90	-3
48011.0	KING HARBOR	1700	2/5/97	48.0	22.10	-3
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	22.10	-3
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	22.10	-3

Acid Volatile Sulfides and Simultaneous Extracted Metals Concentrations (ppm)

STANUM	STATION	IDORG	DATE	LEG	AVS_BATCH	AVSDATAQC
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	22.11	-3
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	22.11	-3
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	22.11	-3
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	22.12	-3
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	22.12	-3
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	22.12	-3

Section 4

Pesticide Concentrations

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	SOWEIGHT	SOMOIST	ALDRIN	CCHLOR	TCHLOR	ACDEN	GCDEN	CLPYR	DACTH
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-9.00	-9.00	-8.000	1.200	-9.000	-9.000	-9.000	-9.00	-9.000
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-9.00	-9.00	-8.000	1.300	-9.000	-9.000	-9.000	-9.00	-9.000
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9.00	-9.00	-8.000	2.200	-9.000	-9.000	-9.000	-9.00	-9.000
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-9.00	-9.00	-8.000	1.200	-9.000	-9.000	-9.000	-9.00	-9.000
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9.00	-9.00	-8.000	0.500	-9.000	-9.000	-9.000	-9.00	-9.000
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-9.00	-9.00	-8.000	0.800	-9.000	-9.000	-9.000	-9.00	-9.000
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9.00	-9.00	-8.000	0.900	-9.000	-8.000	-9.000	-9.00	-9.000
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9.00	-9.00	-8.000	4.600	-9.000	-9.000	-9.000	-9.00	-9.000
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-9.00	-9.00	-8.000	26.000	-9.000	-9.000	-9.000	-9.00	-9.000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-9.00	-9.00	-8.000	23.000	-9.000	-9.000	-9.000	-9.00	-9.000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-9.00	-9.00	-8.000	0.900	-9.000	-9.000	-9.000	-9.00	-9.000
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-9.00	-9.00	-8.000	0.700	-9.000	-9.000	-9.000	-9.00	-9.000
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-9.00	-9.00	-8.000	0.700	-9.000	-9.000	-9.000	-9.00	-9.000
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9.00	-9.00	-8.000	1.100	-9.000	-8.000	-9.000	-9.00	-9.000
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	SOWEIGHT	SOMOIST	ALDRIN	CCHLOR	TCHLOR	ACDEN	GCDEN	CLPYR	DACTH
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-9.00	-9.00	-8.000	1.100	-9.000	-9.000	-9.000	-9.00	-9.000
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-9.00	-9.00	-8.000	1.000	-9.000	-9.000	-9.000	-9.00	-9.000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9.00	-9.00	-8.000	1.600	-9.000	-9.000	-9.000	-9.00	-9.000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-9.00	-9.00	-8.000	2.000	-9.000	-9.000	-9.000	-9.00	-9.000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-9.00	-9.00	-8.000	0.900	-9.000	-8.000	-9.000	-9.00	-9.000
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-9.00	-9.00	-8.000	1.000	-9.000	-8.000	-9.000	-9.00	-9.000
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-9.00	-9.00	-8.000	0.600	-9.000	-9.000	-9.000	-9.00	-9.000
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-9.00	-9.00	-8.000	7.400	-9.000	-9.000	-9.000	-9.00	-9.000
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-9.00	-9.00	-8.000	9.800	-9.000	1.900	-9.000	-9.00	-9.000
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-9.00	-9.00	-8.000	9.400	-9.000	-9.000	-9.000	-9.00	-9.000
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-9.00	-9.00	-8.000	9.900	-9.000	-9.000	-9.000	-9.00	-9.000
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-9.00	-9.00	-8.000	-8.000	-9.000	-9.000	-9.000	-9.00	-9.000
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-9.00	-9.00	-8.000	1.600	-9.000	-9.000	-9.000	-9.00	-9.000
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9.00	-9.00	-8.000	1.200	-9.000	-8.000	-9.000	-9.00	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9.00	-9.00	-8.000	1.100	-9.000	-9.000	-9.000	-9.00	-9.000
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9.00	-9.00	-8.000	1.400	-9.000	-9.000	-9.000	-9.00	-9.000
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9.00	-9.00	-8.000	-8.000	-9.000	-8.000	-9.000	-9.00	-9.000
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-9.00	-9.00	-8.000	0.700	-9.000	-9.000	-9.000	-9.00	-9.000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-9.00	-9.00	-8.000	1.000	-9.000	-9.000	-9.000	-9.00	-9.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	SOWEIGHT	SOMOIST	ALDRIN	CCHLOR	TCHLOR	ACDEN	GCDEN	CLPYR	DACTH
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-9.00	-9.00	-8.000	1.600	-9.000	-9.000	-9.000	-9.00	-9.000
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-9.00	-9.00	-8.000	3.500	-9.000	-9.000	-9.000	-9.00	-9.000
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-9.00	-9.00	-8.000	3.400	-9.000	-8.000	-9.000	-9.00	-9.000
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-9.00	-9.00	-8.000	1.200	-9.000	-9.000	-9.000	-9.00	-9.000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-9.00	-9.00	-8.000	0.600	-9.000	-9.000	-9.000	-9.00	-9.000
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9.00	-9.00	-8.000	11.300	-9.000	1.600	-9.000	-9.00	-9.000
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.00	-9.00	8.200	70.300	-9.000	11.200	-9.000	-9.00	-9.000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.00	-9.00	-8.000	9.700	-9.000	1.300	-9.000	-9.00	-9.000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.00	-9.00	-8.000	1.300	-9.000	-8.000	-9.000	-9.00	-9.000
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.00	-9.00	-8.000	58.300	-9.000	13.600	-9.000	-9.00	-9.000
44026.0	SIMS POND	626	1/14/93	11.0	-9.00	-9.00	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.00	-9.00	4.700	75.200	-9.000	14.400	-9.000	-9.00	-9.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	10.55	40.83	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	10.77	40.65	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	10.56	47.19	-8.000	-8.000	0.572	-8.000	-8.000	-8.00	-8.000
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	10.42	42.60	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	10.18	42.90	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	10.09	41.49	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	10.07	47.70	-8.000	1.040	1.790	-8.000	-8.000	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	10.00	51.01	-8.000	1.130	2.290	-8.000	-8.000	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	10.54	50.39	-8.000	1.680	2.540	-8.000	-8.000	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	10.00	48.30	-8.000	0.532	0.741	-8.000	-8.000	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	10.56	43.77	1.920	-8.000	0.740	0.537	-8.000	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	10.16	45.21	-8.000	1.470	1.710	-8.000	-8.000	-8.00	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	SOWEIGHT	SOMOIST	ALDRIN	CCHLOR	TCHLOR	ACDEN	GCDEN	CLPYR	DACTH
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	10.44	47.61	-8.000	-8.000	1.090	-8.000	-8.000	-8.00	-8.000
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	10.16	54.09	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	11.51	46.14	-8.000	0.780	1.400	-8.000	-8.000	-8.00	-8.000
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	11.16	51.34	-8.000	-8.000	0.917	-8.000	-8.000	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	10.36	43.46	-8.000	-8.000	0.838	-8.000	-8.000	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	10.62	47.45	-8.000	-8.000	1.300	-8.000	0.795	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	10.09	42.37	-8.000	-8.000	0.737	-8.000	-8.000	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	10.45	48.79	-8.000	0.773	1.860	-8.000	-8.000	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	10.71	48.33	-8.000	1.660	2.550	-8.000	-8.000	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	10.36	46.83	-8.000	1.110	1.760	-8.000	-8.000	-8.00	-8.000
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	10.14	49.80	-8.000	-8.000	0.546	-8.000	-8.000	-8.00	-8.000
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	11.03	47.77	-8.000	-8.000	0.618	-8.000	-8.000	-8.00	-8.000
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	10.56	42.52	-8.000	-8.000	-8.000	-8.000	-8.000	1.22	-8.000
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	10.15	60.56	-8.000	29.900	36.700	2.950	2.990	9.21	1.410
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	10.02	59.23	-8.000	21.300	24.600	3.270	3.000	18.90	0.983
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	10.36	60.91	-8.000	13.900	19.100	3.540	1.850	1.58	1.080
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	10.63	24.17	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	10.20	26.51	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	10.33	29.18	-8.000	-8.000	0.520	-8.000	-8.000	-8.00	-8.000
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	10.22	31.16	-8.000	3.710	4.020	0.702	-8.000	3.57	0.309
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	10.24	31.74	-8.000	4.270	4.800	0.755	-8.000	3.68	0.240
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	10.22	43.41	-8.000	6.850	7.640	1.410	0.859	7.30	0.219
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	10.53	51.68	-8.000	0.590	0.608	-8.000	-8.000	1.60	-8.000
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	10.52	51.33	-8.000	0.912	1.200	-8.000	-8.000	-8.00	-8.000
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	10.54	48.83	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	10.59	48.59	-8.000	0.901	1.100	-8.000	-8.000	-8.00	-8.000
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	10.38	49.56	-8.000	1.080	1.600	-8.000	-8.000	-8.00	-8.000
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	10.27	41.20	-8.000	0.531	0.706	-8.000	-8.000	-8.00	-8.000
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	10.12	69.01	-8.000	7.300	10.100	1.470	-8.000	1.84	-8.000
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	10.12	65.60	-8.000	8.140	11.200	1.590	0.584	1.01	-8.000
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	10.12	63.79	-8.000	11.600	15.700	1.730	0.588	1.19	-8.000
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	10.08	49.95	-8.000	0.529	0.595	-8.000	-8.000	-8.00	-8.000
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	11.03	52.02	-8.000	-8.000	-8.000	-8.000	-8.000	1.08	-8.000
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	10.46	51.84	-8.000	0.621	0.671	-8.000	-8.000	-8.00	-8.000
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	10.04	50.85	-8.000	-8.000	1.120	-8.000	-8.000	1.03	-8.000
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	10.37	49.20	-8.000	0.669	0.766	-8.000	-8.000	-8.00	-8.000
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	10.13	50.53	-8.000	0.639	0.911	-8.000	-8.000	1.22	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	SOWEIGHT	SOMOIST	ALDRIN	CCHLOR	TCHLOR	ACDEN	GCDEN	CLPYR	DACTH
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	10.14	49.51	-8.000	0.600	0.731	-8.000	-8.000	-8.00	-8.000
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	10.22	53.29	-8.000	-8.000	1.220	-8.000	-8.000	-8.00	0.223
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	10.77	50.59	-8.000	-8.000	0.868	-8.000	-8.000	-8.00	0.223
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	10.20	43.63	-8.000	2.280	3.550	-8.000	-8.000	1.62	-8.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	10.12	44.66	-8.000	2.190	2.960	-8.000	-8.000	1.34	-8.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	10.66	41.33	-8.000	2.710	3.480	0.540	-8.000	2.56	-8.000
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	10.28	65.28	-8.000	5.020	9.000	1.780	-8.000	2.18	-8.000
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	10.20	57.10	-8.000	8.710	13.200	2.540	0.690	1.64	-8.000
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	10.33	69.86	-8.000	4.730	7.090	1.180	-8.000	-8.00	-8.000
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	10.11	53.06	1.240	19.700	23.500	5.680	4.450	38.10	14.500
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	11.06	54.20	-8.000	15.600	22.000	6.290	-8.000	-8.00	-8.000
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	10.42	56.25	-8.000	25.900	33.800	5.920	3.680	78.00	-8.000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	10.22	46.05	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	9.99	45.55	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	10.35	38.26	-9.000	-9.000	-9.000	-9.000	-9.000	-9.00	-9.000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	9.98	38.97	-8.000	0.744	0.651	-8.000	-8.000	1.54	0.246
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	10.12	43.17	-8.000	-8.000	0.829	-8.000	-8.000	-8.00	-8.000
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	10.20	66.87	-8.000	71.600	80.200	4.300	0.812	5.51	19.000
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	10.23	32.27	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	0.204
44014.0	MARINA DEL REY	1630	6/19/96	45.0	10.07	61.68	-8.000	4.760	8.170	-8.000	-8.000	2.53	-8.000
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	10.16	68.70	-8.000	8.050	11.000	1.100	0.706	1.08	-8.000
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	10.14	47.16	-8.000	-8.000	0.619	-8.000	-8.000	-8.00	-8.000
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	10.31	49.15	-8.000	14.400	18.800	3.010	1.620	11.10	-8.000
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	10.68	40.54	-8.000	16.800	25.500	5.840	2.290	-8.00	-8.000
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	11.33	50.55	-8.000	13.300	19.300	1.110	-8.000	21.30	-8.000
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	10.05	39.16	-8.000	19.300	27.200	5.240	2.820	2.44	-8.000
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	10.10	47.01	0.736	12.400	15.500	1.230	-8.000	20.10	-8.000
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	10.22	44.73	-8.000	-9.000	-9.000	11.600	4.100	-9.00	-9.000
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	10.03	50.75	1.840	11.300	15.300	2.540	0.832	27.30	-8.000
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	11.34	40.37	-8.000	59.500	83.700	25.900	7.010	6.49	-8.000
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	10.10	52.70	-8.000	-9.000	-9.000	5.600	3.470	-9.00	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	11.32	50.88	-8.000	-9.000	-9.000	3.950	-8.000	-9.00	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	10.49	46.20	-8.000	-8.000	-8.000	1.230	-8.000	5.65	-8.000
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	9.98	45.11	-8.000	11.600	16.300	2.900	1.860	14.20	-8.000
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	10.53	53.27	-8.000	15.100	19.200	4.460	2.380	20.70	-8.000
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	10.27	53.30	1.840	15.600	21.800	2.580	0.711	35.10	0.619
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	10.78	55.02	-8.000	8.150	10.900	1.290	0.616	4.85	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	SOWEIGHT	SOMOIST	ALDRIN	CCHLOR	TCHLOR	ACDEN	GCDEN	CLPYR	DACTH
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	19.93	63.88	-8.000	3.300	4.660	0.661	-9.000	-8.00	-8.000
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	20.18	54.07	-8.000	2.420	3.520	0.379	-9.000	0.52	0.106
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	20.17	64.80	-8.000	3.900	5.490	0.560	-9.000	-8.00	0.155
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	19.87	51.44	-8.000	4.430	6.720	0.833	-9.000	0.95	-8.000
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	19.95	50.98	-8.000	15.800	22.000	3.730	-9.000	6.69	-8.000
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	18.77	60.04	-8.000	10.100	13.000	1.560	-9.000	-8.00	0.408
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	19.39	64.51	-8.000	0.182	1.050	-8.000	-9.000	-8.00	-8.000
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	20.60	45.05	-8.000	2.310	3.300	0.286	-9.000	-8.00	-8.000
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	19.50	35.24	-8.000	4.490	6.120	0.814	-9.000	0.24	0.052
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	19.79	47.55	-8.000	1.400	2.480	0.310	-9.000	0.76	-8.000
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	20.38	44.20	-8.000	1.450	1.970	0.329	-9.000	0.89	-8.000
48010.0	TURNING BASIN	1697	2/4/97	48.0	20.40	30.18	-8.000	0.500	-8.000	-8.000	-9.000	0.66	-8.000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	20.04	31.08	-8.000	0.176	-8.000	0.037	-9.000	0.14	-8.000
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	20.77	39.87	-8.000	0.181	0.303	-8.000	-9.000	-8.00	-8.000
48011.0	KING HARBOR	1700	2/5/97	48.0	20.20	39.20	-8.000	0.507	0.486	0.141	-9.000	0.43	-8.000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	20.15	48.23	-8.000	3.510	4.180	0.635	-9.000	3.34	-8.000
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	20.18	39.88	-8.000	1.110	0.983	0.168	-9.000	1.74	0.465
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	14.33	33.93	-8.000	0.873	0.932	-8.000	-9.000	1.02	-8.000
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	20.11	39.10	-8.000	1.410	1.360	-8.000	-9.000	3.66	1.740
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	20.24	39.42	-8.000	3.900	4.150	0.369	-9.000	28.00	24.200
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	21.00	45.95	-8.000	3.720	3.310	0.432	-9.000	4.75	1.630
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	20.07	62.03	-8.000	2.860	3.740	0.167	-9.000	15.90	5.820
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	20.30	53.10	-8.000	2.900	2.710	0.106	-9.000	10.80	5.260
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	21.12	51.51	-8.000	1.080	0.614	-8.000	-9.000	1.37	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	19.97	48.97	-8.000	0.237	-8.000	-8.000	-9.000	0.37	-8.000
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	20.53	48.21	-8.000	0.078	-8.000	-8.000	-9.000	0.19	-8.000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	10.52	32.17	-8.000	1.110	-8.000	-8.000	-9.000	4.26	-8.000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	6.80	55.04	-8.000	0.272	-8.000	-8.000	-9.000	-8.00	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	OPDDD	PPDDD	OPDDE	PPDDE	PPDDMS	PPDDMU	OPDDT	PPDDT	DICLB
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	3.60	15.000	9.70	89.00	-9.00	-9.00	-8.00	10.00	-9.00
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	4.60	16.000	9.60	96.00	-9.00	-9.00	5.40	10.00	-9.00
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	3.80	17.000	9.30	93.00	-9.00	-9.00	-8.00	-8.00	-9.00
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	2.40	8.600	5.40	41.00	-9.00	-9.00	-8.00	3.70	-9.00
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	2.10	7.500	4.90	42.00	-9.00	-9.00	-8.00	9.70	-9.00
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	1.00	2.500	2.10	17.00	-9.00	-9.00	-8.00	2.20	-9.00
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	7.70	20.000	48.00	270.00	-9.00	-9.00	-8.00	2.50	-9.00
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	6.90	17.700	41.60	231.00	-9.00	-9.00	-8.00	4.30	-9.00
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	8.70	29.000	5.00	84.00	-9.00	-9.00	2.20	34.00	-9.00
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	35.00	140.000	10.00	270.00	-9.00	-9.00	9.70	52.00	-9.00
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	33.00	140.000	12.00	270.00	-9.00	-9.00	7.50	36.00	-9.00
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	1.90	5.500	13.00	110.00	-9.00	-9.00	-8.00	2.50	-9.00
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	7.80	22.000	33.00	440.00	-9.00	-9.00	-8.00	5.10	-9.00
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	1.60	4.500	6.10	31.90	-9.00	-9.00	-8.00	-8.00	-9.00
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	1.10	3.300	4.40	27.00	-9.00	-9.00	-8.00	1.60	-9.00
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	1.20	2.300	5.30	22.90	-9.00	3.40	-8.00	-8.00	-9.00
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	1.20	2.300	5.50	25.40	-9.00	3.00	-8.00	-8.00	-9.00
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	4.50	10.000	32.00	220.00	-9.00	-9.00	-8.00	-8.00	-9.00
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	3.30	8.000	25.00	170.00	-9.00	-9.00	-8.00	-8.00	-9.00
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	4.10	9.800	27.80	161.00	-9.00	-9.00	-8.00	-8.00	-9.00
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-8.00	2.900	7.40	59.00	-9.00	-9.00	-8.00	-8.00	-9.00
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	1.00	4.000	6.50	55.00	-9.00	-9.00	-8.00	5.00	-9.00
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-8.00	2.900	8.60	70.00	-9.00	-9.00	-8.00	-8.00	-9.00
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-8.00	2.500	5.90	45.00	-9.00	-9.00	-8.00	-8.00	-9.00

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	OPDDD	PPDDD	OPDDE	PPDDE	PPDDMS	PPDDMU	OPDDT	PPDDT	DICLB
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-8.00	2.200	3.70	33.00	-9.00	-9.00	-8.00	-8.00	-9.00
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	2.00	6.800	16.20	111.00	-9.00	-9.00	-8.00	5.30	-9.00
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-8.00	2.200	4.20	23.80	-9.00	-9.00	-8.00	3.70	-9.00
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	1.90	5.900	15.30	92.70	-9.00	-9.00	-8.00	1.00	-9.00
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	2.70	8.800	17.00	210.00	-9.00	-9.00	-8.00	-8.00	-9.00
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	3.50	9.500	21.00	200.00	-9.00	-9.00	-8.00	1.00	-9.00
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	5.10	16.000	23.00	260.00	-9.00	-9.00	1.00	7.80	-9.00
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	1.30	4.500	11.30	82.90	-9.00	-9.00	-8.00	1.80	-9.00
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	1.70	5.900	11.00	89.90	-9.00	-9.00	-8.00	2.10	-9.00
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	1.30	3.600	8.90	85.00	-9.00	-9.00	-8.00	-8.00	-9.00
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	1.20	3.100	8.80	75.00	-9.00	-9.00	-8.00	-8.00	-9.00
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	1.10	4.100	10.50	74.50	-9.00	-9.00	-8.00	1.50	-9.00
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	2.10	7.000	22.80	157.00	-9.00	-9.00	-8.00	2.90	-9.00
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	3.30	11.000	9.90	88.00	-9.00	-9.00	-8.00	-8.00	-9.00
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	2.30	7.300	10.90	65.70	-9.00	-9.00	-8.00	2.40	-9.00
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	2.60	8.400	11.50	70.60	-9.00	-9.00	-8.00	1.20	-9.00
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	2.10	6.500	8.10	61.00	-9.00	-9.00	-8.00	-8.00	-9.00
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	1.60	11.000	1.40	27.00	-9.00	-9.00	1.20	7.30	-9.00
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	2.30	13.000	1.60	24.00	-9.00	-9.00	1.70	11.70	-9.00
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	1.20	16.000	4.40	47.00	-9.00	-9.00	-8.00	6.70	-9.00
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	4.10	17.000	4.10	41.00	-9.00	-9.00	-8.00	4.60	-9.00
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	1.70	4.600	13.00	110.00	-9.00	-9.00	-8.00	1.30	-9.00
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	2.90	7.900	11.00	73.00	-9.00	-9.00	-8.00	3.00	-9.00
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	1.20	5.000	7.90	45.80	-9.00	-9.00	-8.00	1.00	-9.00
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	1.40	5.900	7.40	54.00	-9.00	-9.00	-8.00	2.40	-9.00
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	1.60	5.500	7.60	61.00	-9.00	-9.00	-8.00	1.20	-9.00
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	37.20	113.000	246.00	2270.00	-9.00	-9.00	2.20	60.90	-9.00
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	36.00	69.000	310.00	2900.00	-9.00	-9.00	1.50	21.00	-9.00
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	31.00	57.000	230.00	2200.00	-9.00	-9.00	-8.00	2.20	-9.00

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	OPDDD	PPDDD	OPDDE	PPDDE	PPDDMS	PPDDMU	OPDDT	PPDDT	DICLB
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-8.00	3.200	1.70	20.00	-9.00	-9.00	-8.00	-8.00	-9.00
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	1.40	6.000	3.20	36.00	-9.00	-9.00	-8.00	-8.00	-9.00
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	1.40	6.100	4.40	39.80	-9.00	-9.00	-8.00	2.00	-9.00
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	1.10	2.700	1.50	14.00	-9.00	-9.00	-8.00	-8.00	-9.00
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	3.00	8.600	23.00	160.00	-9.00	-9.00	-8.00	-8.00	-9.00
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44014.0	MARINA DEL REY	614	1/14/93	11.0	5.50	16.600	2.20	69.40	-9.00	-9.00	-8.00	2.80	-9.00
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44017.0	COLORADO LAGOON	617	1/14/93	11.0	13.40	40.600	2.90	89.90	-9.00	-9.00	10.40	50.90	-9.00
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44020.0	SHORELINE MARINA	620	1/14/93	11.0	4.80	22.200	5.70	52.90	-9.00	-9.00	-8.00	2.10	-9.00
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	4.00	19.500	1.80	61.10	-9.00	-9.00	2.20	10.50	-9.00
44024.0	BALLONA CREEK	624	1/14/93	11.0	6.40	27.500	3.20	106.00	-9.00	-9.00	10.90	44.40	-9.00
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	214.00	627.000	33.20	1540.00	-9.00	-9.00	182.00	591.00	-9.00
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	3.05	9.910	26.40	142.00	7.30	12.50	-8.00	-8.00	-8.00
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	5.54	9.400	22.30	181.00	8.41	10.40	-8.00	-8.00	-8.00
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	4.33	11.400	29.20	195.00	11.60	11.70	-8.00	-8.00	-8.00
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	1.27	3.010	6.49	30.60	-8.00	3.15	-8.00	-8.00	-8.00
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	2.24	2.810	4.62	31.10	-8.00	2.99	-8.00	-8.00	-8.00
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	1.67	2.540	5.50	22.70	-8.00	3.12	-8.00	-8.00	-8.00
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	2.58	7.320	14.60	86.30	6.07	13.60	-8.00	1.27	-8.00
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	3.71	7.950	8.38	77.30	5.11	7.49	-8.00	2.07	-8.00
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-8.00	8.700	11.00	61.30	5.49	9.50	-8.00	2.99	6.60
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	31.50	81.400	284.00	2090.00	47.60	267.00	7.06	21.80	33.80
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	28.60	75.600	377.00	3030.00	38.30	173.00	1.56	56.50	23.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	50.80	125.000	309.00	2010.00	67.50	281.00	2.84	107.00	39.70

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	OPDDD	PPDDD	OPDDE	PPDDE	PPDDMS	PPDDMU	OPDDT	PPDDT	DICLB
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	4.95	10.000	23.90	150.00	-8.00	-8.00	-8.00	-8.00	-8.00
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	4.55	10.500	27.70	261.00	20.30	15.40	-8.00	-8.00	-8.00
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	6.96	12.800	24.30	159.00	23.50	18.80	-8.00	1.05	-8.00
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	4.71	11.200	28.10	170.00	-8.00	-8.00	-8.00	-8.00	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	33.70	104.000	385.00	2760.00	50.10	245.00	1.69	59.80	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	30.30	86.300	376.00	2800.00	39.30	177.00	2.09	36.80	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	20.80	52.200	265.00	1710.00	30.40	205.00	1.09	14.80	-8.00
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	1.53	6.100	11.20	58.00	3.89	10.30	-8.00	2.27	-8.00
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	2.74	7.450	9.34	56.50	4.76	9.23	-8.00	2.51	-8.00
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	1.59	6.400	10.10	53.60	4.43	8.04	-8.00	1.23	-8.00
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	1.70	3.940	8.15	50.40	4.65	7.81	-8.00	1.80	-8.00
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	1.70	4.040	7.10	47.40	3.06	8.39	-8.00	1.87	-8.00
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-8.00	2.090	5.70	31.80	-8.00	3.31	-8.00	-8.00	-8.00
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	35.90	164.000	7.27	360.00	-8.00	40.90	2.23	34.40	-8.00
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	35.40	158.000	11.40	226.00	-8.00	29.10	6.46	32.40	-8.00
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	27.60	98.700	10.90	212.00	8.41	14.80	6.24	21.50	-8.00
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.00	2.640	2.08	13.60	-8.00	-8.00	-8.00	1.65	-8.00
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	1.07	3.000	2.14	14.70	-8.00	-8.00	-8.00	1.46	-8.00
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	1.25	3.880	3.01	20.60	-8.00	2.38	-8.00	3.70	-8.00
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	1.35	5.230	-8.00	8.71	-8.00	-8.00	-8.00	3.06	-8.00
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	1.13	5.570	-8.00	7.88	-8.00	-8.00	-8.00	-8.00	-8.00
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	2.49	12.600	1.26	14.70	-8.00	4.46	-8.00	5.80	-8.00
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	2.57	6.030	13.70	106.00	5.36	12.50	-8.00	4.24	-8.00
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	3.26	6.590	15.00	99.90	5.63	13.10	-8.00	2.22	-8.00
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	1.68	3.520	10.40	60.70	3.22	6.40	-8.00	-8.00	-8.00
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	3.02	10.100	8.68	61.70	3.24	2.90	-8.00	1.87	-8.00
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	2.57	12.500	8.47	58.00	4.98	5.02	-8.00	5.08	-8.00
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	1.80	6.610	6.65	47.50	-8.00	2.71	-8.00	-8.00	-8.00
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	3.65	14.200	5.43	43.50	6.77	7.83	-8.00	-8.00	-8.00
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	5.44	22.200	6.18	47.10	10.70	12.80	-8.00	3.46	4.92
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	6.81	27.400	5.45	43.80	9.36	19.30	-8.00	6.39	-8.00
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	2.88	7.560	27.60	136.00	12.60	15.70	-8.00	-8.00	-8.00
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	3.01	9.060	27.50	146.00	13.20	15.00	-8.00	-8.00	-8.00
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	4.79	8.590	25.00	135.00	16.20	13.50	-8.00	-8.00	-8.00
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	3.88	9.200	33.10	160.00	15.70	16.20	-8.00	-8.00	-8.00
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	4.51	8.580	21.70	133.00	15.70	17.20	-8.00	-8.00	-8.00
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	3.10	8.940	25.40	142.00	15.50	13.90	-8.00	-8.00	-8.00

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	OPDDD	PPDDD	OPDDE	PPDDE	PPDDMS	PPDDMU	OPDDT	PPDDT	DICLB
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	5.01	9.220	18.40	138.00	17.30	16.10	-8.00	-8.00	-8.00
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	5.13	11.700	30.20	164.00	23.30	23.00	-8.00	-8.00	-8.00
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	3.20	8.070	22.00	126.00	12.10	14.10	-8.00	3.46	-8.00
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	1.56	3.630	1.67	17.70	-8.00	-8.00	-8.00	-8.00	-8.00
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	1.20	3.370	1.50	15.10	-8.00	-8.00	-8.00	-8.00	-8.00
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	1.35	3.500	1.79	16.50	-8.00	-8.00	-8.00	-8.00	-8.00
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	3.65	12.200	4.06	71.10	6.67	5.25	-8.00	1.30	-8.00
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	1.93	13.800	-8.00	62.20	7.73	12.00	1.00	1.61	-8.00
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	3.16	11.400	3.92	54.70	5.76	6.77	-8.00	1.59	-8.00
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	7.60	27.400	2.91	54.10	4.64	6.95	11.50	57.10	3.24
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	3.11	13.500	3.29	58.10	3.96	4.59	3.52	6.18	-8.00
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	6.29	12.300	3.01	51.50	3.26	-8.00	3.11	11.60	-8.00
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.00	-9.000	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	2.80	27.800	-8.00	13.50	4.76	10.20	1.16	5.87	-8.00
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	2.36	17.700	-8.00	15.70	5.02	3.76	-8.00	4.46	-8.00
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	164.00	466.000	12.10	1090.00	193.00	94.20	13.00	238.00	28.30
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	1.17	3.620	-8.00	30.50	-8.00	-8.00	-8.00	1.70	-8.00
44014.0	MARINA DEL REY	1630	6/19/96	45.0	3.50	11.500	1.32	71.30	9.67	13.80	-8.00	2.63	7.20
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	3.26	18.200	6.26	58.20	13.80	12.90	-8.00	2.55	-8.00
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	1.16	4.870	2.14	49.30	3.72	6.33	-8.00	-8.00	-8.00
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	26.80	104.000	11.30	198.00	19.20	14.80	3.14	16.20	6.69
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	40.20	179.000	18.50	235.00	147.00	26.90	1.92	14.10	12.10
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	23.90	98.500	3.47	188.00	23.40	25.40	2.23	42.50	8.75
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	39.10	173.000	14.00	200.00	56.30	26.90	3.41	24.30	11.30
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	26.40	196.000	3.67	170.00	132.00	32.70	2.77	435.00	7.42
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-9.00	-9.000	29.40	316.00	-9.00	-9.00	3.01	-9.00	-9.00
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	22.20	299.000	5.74	204.00	35.20	9.90	2.11	15.50	13.90
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	132.00	695.000	48.30	380.00	268.00	126.00	4.57	57.30	63.30
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-9.00	-9.000	8.80	140.00	-9.00	-9.00	2.81	-9.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-9.00	-9.000	7.21	81.60	-9.00	-9.00	1.50	-9.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	5.08	3.190	-8.00	3.24	20.60	-8.00	2.98	60.20	-8.00
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	20.60	81.900	5.70	115.00	13.30	15.80	3.00	9.83	3.98
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	31.40	99.400	9.44	178.00	20.10	16.20	4.41	32.80	10.50
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	33.70	145.000	4.81	290.00	50.40	15.90	2.64	18.00	22.10
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	13.10	61.900	6.48	105.00	12.30	10.70	3.75	14.30	3.10

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	OPDDD	PPDDD	OPDDE	PPDDE	PPDDMS	PPDDMU	OPDDT	PPDDT	DICLB
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	2.51	9.790	3.00	32.20	-9.00	5.36	-8.00	1.93	2.81
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	1.93	7.010	1.82	20.80	-9.00	3.60	0.88	1.52	1.59
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	1.99	6.750	2.60	25.90	-9.00	3.08	1.38	1.62	1.84
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	2.88	9.500	3.45	25.40	-9.00	6.36	0.17	2.07	1.34
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	6.52	15.100	7.81	37.40	-9.00	9.93	3.36	6.53	2.24
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	5.41	19.400	3.93	28.70	-9.00	7.26	0.40	2.15	4.17
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	0.95	2.660	6.52	25.10	-9.00	4.56	-8.00	0.46	1.88
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	-8.00	4.200	2.74	14.80	-9.00	2.94	-8.00	0.71	1.93
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	2.35	9.380	2.59	17.10	-9.00	3.46	0.95	1.51	1.92
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	1.71	5.810	9.01	36.50	-9.00	8.65	0.28	3.08	5.09
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	2.17	5.950	8.25	55.40	-9.00	5.46	0.56	4.01	2.71
48010.0	TURNING BASIN	1697	2/4/97	48.0	4.78	4.440	2.87	17.70	-9.00	0.66	0.79	3.11	0.59
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	1.45	2.008	4.57	31.24	-9.00	1.45	0.18	1.36	1.07
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	1.61	2.780	5.46	26.90	-9.00	2.82	0.26	1.04	1.39
48011.0	KING HARBOR	1700	2/5/97	48.0	2.48	4.830	5.01	55.20	-9.00	2.91	0.76	1.06	0.79
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	2.37	6.180	3.35	31.80	-9.00	2.04	0.78	5.69	0.91
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	3.36	11.200	1.08	27.60	-9.00	2.33	2.00	7.45	1.29
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	2.60	7.270	1.23	44.70	-9.00	2.39	2.42	6.45	1.57
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	5.07	11.200	1.90	68.10	-9.00	2.84	4.76	12.40	1.67
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	6.13	18.200	4.21	131.00	-9.00	2.99	9.18	86.40	2.06
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	6.06	18.900	3.21	112.00	-9.00	-8.00	7.23	19.30	3.35
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	7.34	23.200	5.03	165.00	-9.00	-8.00	21.70	54.50	3.17
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	5.51	17.800	3.62	129.00	-9.00	-8.00	19.80	56.90	2.19
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	3.30	10.400	22.50	148.00	-9.00	10.30	0.31	8.40	5.15
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	3.06	5.120	13.80	74.60	-9.00	5.81	0.50	2.97	3.31
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	1.74	3.240	8.19	38.30	-9.00	3.25	-8.00	1.49	1.04
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-8.00	9.440	2.99	70.80	-9.00	10.60	-8.00	5.00	4.41
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	3.46	9.990	73.80	234.00	-9.00	17.70	-8.00	1.18	6.21

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	DIELDRIN	ENDO_I	ENDO_II	ESO4	ENDRIN	ETHION	HCHA	HCHB	HCHG	HCHD
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	1.200	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	7.100	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	6.200	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	0.500	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	0.700	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	3.800	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	DIELDRIN	ENDO_I	ENDO_II	ESO4	ENDRIN	ETHION	HCHA	HCHB	HCHG	HCHD
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	2.400	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	3.700	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	6.500	0.600	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	4.300	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	2.200	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	DIELDRIN	ENDO_I	ENDO_II	ESO4	ENDRIN	ETHION	HCHA	HCHB	HCHG	HCHD
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11.0	3.300	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	24.300	0.700	2.80	2.70	-8.00	-9.00	-9.000	-9.00	0.800	-9.000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	2.000	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	0.500	-8.000	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	-8.000	-9.000
44024.0	BALLONA CREEK	624	1/14/93	11.0	27.600	1.100	-8.00	-8.00	-8.00	-9.00	-9.000	-9.00	1.200	-9.000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	23.600	13.400	59.80	45.60	21.80	-9.00	-9.000	-9.00	0.500	-9.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	0.696	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	DIELDRIN	ENDO_I	ENDO_II	ESO4	ENDRIN	ETHION	HCHA	HCHB	HCHG	HCHD
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	1.160	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	3.47	-8.000	-8.000
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	2.470	-8.000	-8.00	-8.00	-8.00	-9.00	0.437	-8.00	-8.000	-8.000
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	5.360	-8.000	-8.00	2.67	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	1.650	-8.000	1.33	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	3.770	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	0.529	-8.000	2.19	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	1.490	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	1.960	-8.000	2.37	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	0.365	-8.00	-8.000	-8.000
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	DIELDRIN	ENDO_I	ENDO_II	ESO4	ENDRIN	ETHION	HCHA	HCHB	HCHG	HCHD
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	0.394	-8.00	-8.000	-8.000
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	0.520	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	0.513	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	1.930	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	2.550	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	1.340	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	11.500	-8.000	4.88	2.81	-8.00	-9.00	-8.000	1.85	-8.000	-8.000
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	7.040	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	10.700	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	3.370	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	16.800	-8.000	13.60	9.31	-8.00	-9.00	1.250	3.60	-8.000	11.900
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.000	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
44014.0	MARINA DEL REY	1630	6/19/96	45.0	5.860	-8.000	-8.00	-8.00	-8.00	-9.00	0.384	-8.00	-8.000	2.230
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	0.997	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	0.901	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	3.420	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	4.540	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	9.390	1.880	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	3.830
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	3.630	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	10.100	2.690	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	3.530
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	7.060	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	33.300	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	4.300
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-9.000	-9.000	-9.00	-9.00	-9.00	-9.00	-9.000	-9.00	-9.000	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-8.000	-8.000	-8.00	2.55	8.75	-9.00	-8.000	-8.00	1.330	-8.000
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	4.160	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	6.310	-8.000	-8.00	-8.00	-8.00	-9.00	1.500	-8.00	-8.000	-8.000
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	14.100	2.660	3.16	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	4.310
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	1.610	-8.000	-8.00	-8.00	-8.00	-9.00	-8.000	-8.00	-8.000	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	DIELDRIN	ENDO_I	ENDO_II	ESO4	ENDRIN	ETHION	HCHA	HCHB	HCHG	HCHD
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	2.440	-8.000	0.83	1.95	-8.00	-8.00	-8.000	-8.00	-8.000	0.138
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	2.090	-8.000	0.61	1.64	0.36	-8.00	-8.000	-8.00	-8.000	-8.000
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	2.850	-8.000	1.07	-8.00	0.47	-8.00	-8.000	0.09	0.664	-8.000
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	1.810	-8.000	0.64	1.48	0.33	-8.00	-8.000	-8.00	-8.000	-8.000
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	4.960	-8.000	1.72	3.63	1.76	-8.00	-8.000	-8.00	0.468	-8.000
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	3.430	0.418	1.46	3.78	-8.00	-8.00	-8.000	-8.00	0.288	-8.000
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	1.110	-8.000	0.16	0.53	0.29	-8.00	-8.000	-8.00	-8.000	-8.000
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	1.060	-8.000	-8.00	1.10	-8.00	-8.00	-8.000	-8.00	-8.000	-8.000
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	1.950	-8.000	0.64	1.44	-8.00	-8.00	-8.000	-8.00	0.161	-8.000
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	1.360	-8.000	0.46	0.90	0.47	-8.00	-8.000	-8.00	0.427	-8.000
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	0.936	-8.000	1.06	0.70	-8.00	-8.00	0.348	-8.00	-8.000	-8.000
48010.0	TURNING BASIN	1697	2/4/97	48.0	0.806	-8.000	2.86	3.51	-8.00	-8.00	0.141	-8.00	0.192	-8.000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	0.489	-8.000	1.18	0.60	-8.00	-8.00	0.126	-8.00	0.253	-8.000
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	0.435	-8.000	0.79	0.58	-8.00	-8.00	0.186	-8.00	-8.000	-8.000
48011.0	KING HARBOR	1700	2/5/97	48.0	1.070	-8.000	1.36	1.85	-8.00	-8.00	0.461	-8.00	0.138	-8.000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	1.470	-8.000	1.48	1.39	-8.00	-8.00	-8.000	-8.00	-8.000	-8.000
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	0.624	-8.000	0.99	0.42	-8.00	-8.00	-8.000	-8.00	0.296	-8.000
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	0.565	-8.000	0.19	0.65	-8.00	-8.00	0.207	-8.00	-8.000	-8.000
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	1.050	-8.000	0.39	0.97	-8.00	-8.00	-8.000	-8.00	-8.000	-8.000
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	2.600	-8.000	0.88	1.46	1.23	-8.00	-8.000	-8.00	-8.000	-8.000
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	1.500	-8.000	0.49	0.86	-8.00	-8.00	-8.000	-8.00	-8.000	-8.000
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	2.400	-8.000	0.86	1.75	-8.00	-8.00	-8.000	-8.00	-8.000	-8.000
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	1.770	-8.000	0.28	1.87	-8.00	-8.00	-8.000	-8.00	0.388	-8.000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	3.030	-8.000	4.92	2.05	-8.00	-8.00	0.299	-8.00	-8.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	0.733	-8.000	2.46	0.60	-8.00	-8.00	0.107	-8.00	-8.000	-8.000
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	0.381	-8.000	0.91	-8.00	-8.00	-8.00	-8.000	-8.00	-8.000	-8.000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	0.848	4.140	17.20	3.43	2.36	36.40	0.228	1.44	-8.000	2.230
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	0.923	-8.000	1.17	0.43	-8.00	-8.00	-8.000	-8.00	1.050	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	HEPTACHLOR	HE	HCB	METHOXY	MIREX	CNONA	TNONA	OXAD	OCDAN
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.200	-9.00	-9.000
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.300	-9.00	-9.000
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	2.400	-9.00	-9.000
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.100	-9.00	-9.000
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-8.000	-8.000	0.200	-8.00	-8.000	-9.000	0.600	-9.00	-9.000
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	0.500	-8.000	0.400	-8.00	-8.000	-9.000	5.300	-9.00	-9.000
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	1.900	-8.000	1.600	-8.00	-8.000	-9.000	24.000	-9.00	-9.000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	2.800	-8.000	1.600	-8.00	-8.000	-9.000	23.000	-9.00	-9.000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	0.600	-9.00	-9.000
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-8.000	-8.000	0.200	-8.00	-8.000	-9.000	0.600	-9.00	-9.000
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-8.000	-8.000	0.200	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-8.000	-8.000	0.200	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	HEPTACHLOR	HE	HCB	METHOXY	MIREX	CNONA	TNONA	OXAD	OCDAN
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	1.000	-8.000	-8.000	1.80	-8.000	-9.000	0.800	-9.00	-9.000
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	1.400	-8.000	-8.000	-8.00	-8.000	-9.000	0.800	-9.00	-9.000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	0.600	-8.000	-8.000	-8.00	-8.000	-9.000	1.200	-9.00	-9.000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	2.100	-8.000	0.300	-8.00	1.400	-9.000	2.000	-9.00	-9.000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	0.800	-9.00	-9.000
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	0.800	-9.00	-9.000
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	0.600	-9.00	-9.000
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-8.000	-8.000	0.400	-8.00	-8.000	-9.000	7.400	-9.00	-9.000
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-8.000	-8.000	0.300	-8.00	-8.000	-9.000	9.100	-9.00	-9.000
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	1.400	-8.000	-8.000	-8.00	-8.000	-9.000	8.100	-9.00	-9.000
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	1.200	-8.000	0.400	-8.00	-8.000	-9.000	9.000	-9.00	-9.000
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.400	-9.00	-9.000
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-8.000	-8.000	0.300	-8.00	-8.000	-9.000	1.100	-9.00	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.000	-9.00	-9.000
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.400	-9.00	-9.000
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	0.700	-8.000	-8.000	-8.00	-8.000	-9.000	2.800	-9.00	-9.000
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	0.700	-8.000	-8.000	-8.00	-8.000	-9.000	0.900	-9.00	-9.000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	HEPTACHLOR	HE	HCB	METHOXY	MIREX	CNONA	TNONA	OXAD	OCDAN
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.900	-9.00	-9.000
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-8.000	-8.000	0.200	-8.00	-8.000	-9.000	3.800	-9.00	-9.000
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	4.100	-9.00	-9.000
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.400	-9.00	-9.000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-8.000	-8.000	0.200	-8.00	-8.000	-9.000	-8.000	-9.00	-9.000
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	10.800	-9.00	-9.000
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	1.500	2.500	1.200	-8.00	-8.000	-9.000	60.200	-9.00	-9.000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-8.000	-8.000	0.200	-8.00	-8.000	-9.000	9.100	-9.00	-9.000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-8.000	-8.000	-8.000	-8.00	-8.000	-9.000	1.900	-9.00	-9.000
44024.0	BALLONA CREEK	624	1/14/93	11.0	2.400	2.600	1.700	12.90	-8.000	-9.000	50.100	-9.00	-9.000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-8.000	3.100	6.400	8.50	-8.000	-9.000	75.600	-9.00	-9.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	0.583	-8.000	-8.000	-8.00	-8.000	0.935	1.250	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-8.000	-8.000	-8.000	-8.00	-8.000	0.841	1.400	2.42	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-8.000	-8.000	-8.000	-8.00	-8.000	1.400	1.820	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	0.756	-8.000	-8.000	-8.00	-8.000	-8.000	0.646	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	0.736	-8.000	-8.000	-8.00	-8.000	-8.000	0.516	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-8.000	-8.000	0.214	-8.00	-8.000	0.641	0.967	-8.00	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	HEPTACHLOR	HE	HCB	METHOXY	MIREX	CNONA	TNONA	OXAD	OCDAN
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-8.000	-8.000	-8.000	-8.00	-8.000	0.802	-8.000	-8.00	-8.000
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-8.000	-8.000	0.298	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	0.607	-8.000	0.240	-8.00	-8.000	0.997	0.572	-8.00	-8.000
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-8.000	-8.000	0.314	-8.00	-8.000	0.773	-8.000	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	0.692	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	0.531	-8.000	0.230	-8.00	-8.000	-8.000	0.624	-8.00	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	0.592	-8.00	-8.000
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	0.818	1.500	-8.00	0.763
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	1.220	1.900	-8.00	1.440
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	0.906	1.070	-8.00	0.914
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	0.504	-8.000	-8.00	-8.000
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	-8.000	0.941	1.540	6.65	-8.000	10.300	34.200	-8.00	1.670
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	-8.000	1.100	2.190	3.96	-8.000	14.000	22.200	-8.00	1.480
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	-8.000	0.558	1.320	-8.00	-8.000	8.620	15.700	-8.00	0.783
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-8.000	-8.000	0.205	1.78	-8.000	1.190	3.170	-8.00	-8.000
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-8.000	-8.000	0.261	-8.00	-8.000	1.810	3.990	-8.00	-8.000
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-8.000	-8.000	0.346	1.94	-8.000	2.780	6.740	5.49	0.862
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	0.509	-8.00	-8.000
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	0.567	0.861	-8.00	-8.000
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	1.380	0.922	-8.00	-8.000
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	1.010	1.360	-8.00	-8.000
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	0.646	0.527	-8.00	-8.000
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	3.800	6.440	-8.00	-8.000
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-8.000	-8.000	-8.000	-8.00	-8.000	5.070	7.820	-8.00	0.535
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-8.000	-8.000	0.268	-8.00	-8.000	7.000	10.600	6.56	0.776
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-8.000	-8.000	0.246	-8.00	-8.000	-8.000	0.777	-8.00	-8.000
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	-8.000	-8.000	0.283	-8.00	-8.000	1.120	0.654	-8.00	-8.000
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-8.000	-8.000	0.268	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-8.000	-8.000	0.256	1.66	-8.000	1.180	-8.000	-8.00	-8.000
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	-8.000	-8.000	-8.000	1.77	-8.000	1.160	-8.000	-8.00	-8.000
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-8.000	-8.000	0.229	-8.00	-8.000	1.140	-8.000	-8.00	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	HEPTACHLOR	HE	HCB	METHOXY	MIREX	CNONA	TNONA	OXAD	OCDAN
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-8.000	-8.000	0.301	-8.00	-8.000	0.939	-8.000	-8.00	-8.000
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	0.565	-8.000	0.364	1.78	-8.000	-8.000	0.602	-8.00	-8.000
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-8.000	-8.000	0.387	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-8.000	-8.000	-8.000	-8.00	-8.000	1.550	2.310	-8.00	-8.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-8.000	-8.000	-8.000	-8.00	-8.000	1.480	2.380	-8.00	-8.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-8.000	-8.000	-8.000	-8.00	-8.000	1.720	2.780	-8.00	-8.000
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-8.000	-8.000	-8.000	-8.00	-8.000	5.030	4.740	-8.00	-8.000
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	-8.000	-8.000	-8.000	-8.00	-8.000	7.130	8.770	-8.00	-8.000
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-8.000	-8.000	-8.000	-8.00	-8.000	4.020	4.640	-8.00	-8.000
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	-8.000	0.809	0.737	14.70	-8.000	8.650	18.400	-8.00	1.470
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	-8.000	-8.000	0.760	-8.00	-8.000	5.880	11.600	-8.00	-8.000
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	0.731	0.713	1.070	-8.00	-8.000	11.400	23.600	-8.00	0.923
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.000	-9.000	-9.000	-9.00	-9.000	-9.000	-9.000	-9.00	-9.000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-8.000	-8.000	-8.000	131.00	-8.000	1.290	0.654	-8.00	-8.000
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.000	2.170	3.170	5.16	-8.000	21.800	47.200	-8.00	12.300
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-8.00	-8.000
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-8.000	-8.000	-8.000	-8.00	-8.000	5.270	5.190	-8.00	1.490
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	2.840	-8.000	0.265	-8.00	2.030	5.050	8.970	0.94	-8.000
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-8.000	-8.000	-8.000	16.30	-8.000	-8.000	-8.000	-8.00	2.170
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	-8.000	-8.000	1.700	-8.00	0.737	5.830	14.400	12.90	0.710
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	3.920	-8.000	2.650	-8.00	1.150	7.090	15.800	2.39	1.010
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	0.524	-8.000	1.830	55.30	-8.000	6.030	12.100	20.20	-8.000
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	3.430	-8.000	2.070	-8.00	0.965	8.780	18.500	4.60	0.809
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	0.796	-8.000	2.390	69.40	-8.000	5.610	10.000	28.60	9.850
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	7.340	-9.000	1.850	-9.00	0.622	-9.000	-9.000	-9.00	-9.000
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	-8.000	-8.000	1.850	83.50	0.514	9.670	9.330	36.20	8.900
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	12.800	0.849	7.070	-8.00	2.000	25.500	47.000	-8.00	30.300
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	15.800	-9.000	7.010	-9.00	-8.000	-9.000	-9.000	-9.00	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-8.000	-9.000	2.020	-9.00	1.280	-9.000	-9.000	-9.00	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	4.900	-8.000	0.857	71.60	-8.000	-8.000	-8.000	-8.00	10.700
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	-8.000	-8.000	1.320	-8.00	-8.000	4.180	11.900	9.34	0.703
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	0.918	-8.000	2.360	-8.00	0.732	7.420	15.600	18.50	0.997
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	0.957	-8.000	1.950	78.60	-8.000	7.870	12.600	45.80	11.900
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	0.680	-8.000	0.571	-8.00	-8.000	4.020	9.120	3.46	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	HEPTACHLOR	HE	HCB	METHOXY	MIREX	CNONA	TNONA	OXAD	OCDAN
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	0.338	-8.000	7.280	-8.00	-8.000	3.320	3.340	-8.00	-8.000
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	-8.000	1.080	0.673	-8.00	0.289	2.510	2.450	0.31	-8.000
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	0.395	0.832	0.522	-8.00	0.248	3.960	4.030	-8.00	-8.000
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	0.276	0.264	0.662	-8.00	0.144	3.380	4.800	-8.00	0.334
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	-8.000	0.271	0.493	-8.00	1.120	9.300	15.900	-8.00	0.993
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	1.030	2.430	0.451	-8.00	0.710	6.380	9.450	-8.00	0.721
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	0.287	0.359	1.130	-8.00	-8.000	0.146	-8.000	-8.00	-8.000
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	0.598	0.593	1.490	-8.00	-8.000	1.680	2.060	-8.00	-8.000
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	0.429	0.711	0.325	-8.00	0.253	2.460	4.140	-8.00	0.318
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	0.259	0.554	0.108	-8.00	-8.000	1.060	1.390	-8.00	-8.000
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	-8.000	0.314	0.213	2.16	0.086	1.050	1.560	-8.00	-8.000
48010.0	TURNING BASIN	1697	2/4/97	48.0	-8.000	0.121	0.039	-8.00	-8.000	0.476	0.446	-8.00	-8.000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	-8.000	-8.000	-8.000	-8.00	-8.000	0.150	0.113	-8.00	-8.000
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	-8.000	0.296	0.044	1.09	-8.000	-8.000	0.197	-8.00	-8.000
48011.0	KING HARBOR	1700	2/5/97	48.0	-8.000	-8.000	0.199	-8.00	-8.000	0.953	0.716	-8.00	-8.000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	-8.000	0.256	0.244	-8.00	-8.000	2.410	4.120	-8.00	-8.000
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	0.274	-8.000	0.139	-8.00	-8.000	0.342	0.834	-8.00	-8.000
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	-8.000	-8.000	0.083	-8.00	-8.000	0.500	0.768	-8.00	-8.000
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	-8.000	-8.000	0.093	-8.00	-8.000	0.828	1.030	-8.00	-8.000
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	0.370	-8.000	0.296	1.96	-8.000	1.350	3.320	-8.00	-8.000
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	-8.000	-8.000	0.301	0.84	-8.000	1.140	2.490	-8.00	-8.000
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	-8.000	-8.000	0.388	-8.00	-8.000	1.130	3.540	1.63	-8.000
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	-8.000	-8.000	0.225	-8.00	-8.000	0.993	2.080	-8.00	-8.000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	-8.000	-8.000	0.398	-8.00	-8.000	0.532	0.522	-8.00	0.224
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	-8.000	0.254	0.048	-8.00	-8.000	0.109	0.185	-8.00	0.055
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	-8.000	0.125	-8.000	-8.00	-8.000	-8.000	0.082	-8.00	-8.000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-8.000	0.962	1.390	-8.00	-8.000	-8.000	0.815	-8.00	-8.000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	-8.000	0.121	1.840	-8.00	-8.000	-8.000	0.524	-8.00	-8.000

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	TOXAPH	PESBATCH	TBT	TBTBATCH
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-8.00	-9	0.1200	-9.0
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-8.00	-9	0.2700	-9.0
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-8.00	-9	0.1900	-9.0
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.00	-9	-9.0000	-9.0
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-8.00	-9	0.1300	-9.0
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.00	-9	-9.0000	-9.0
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-8.00	-9	-8.0000	-9.0
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-8.00	-9	-8.0000	-9.0
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.00	-9	-9.0000	-9.0
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.00	-9	-9.0000	-9.0
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-8.00	-9	0.0900	-9.0
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-8.00	-9	0.1200	3.1
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	51.00	-9	0.4700	-9.0
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.00	-9	-9.0000	-9.0
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.00	-9	-9.0000	-9.0
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	160.00	-9	0.3800	-9.0
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	100.00	-9	5.1000	-9.0
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.00	-9	-9.0000	-9.0
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.00	-9	-9.0000	-9.0
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.00	-9	-9.0000	-9.0
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-8.00	-9	0.0280	-9.0
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-8.00	-9	0.0860	-9.0
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.00	-9	-9.0000	-9.0
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.00	-9	-9.0000	-9.0
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-8.00	-9	0.0800	3.1
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.00	-9	-9.0000	-9.0
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-8.00	-9	0.0170	-9.0
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-8.00	-9	-8.0000	3.1
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.00	-9	-9.0000	-9.0
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-8.00	-9	-8.0000	3.1
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-8.00	-9	0.1000	-9.0
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-8.00	-9	0.0910	-9.0
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-8.00	-9	0.1100	3.1
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-8.00	-9	0.2800	-9.0
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-8.00	-9	0.0350	-9.0
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.00	-9	-9.0000	-9.0
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-8.00	-9	0.0270	-9.0
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-8.00	-9	0.0200	3.1

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	TOXAPH	PESBATCH	TBT	TBTBATCH
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-8.00	-9	0.0290	-9.0
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-8.00	-9	0.0200	3.1
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-8.00	-9	-8.0000	3.2
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-8.00	-9	-8.0000	3.1
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-8.00	-9	0.6900	-9.0
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-8.00	-9	0.6500	-9.0
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-8.00	-9	1.7000	-9.0
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-8.00	-9	-8.0000	3.1
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-8.00	-9	-8.0000	3.1
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.00	-9	-8.0000	-9.0
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-8.00	-9	0.0150	-9.0
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-8.00	-9	0.0500	3.1
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-8.00	-9	0.0200	3.1
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.00	-9	-9.0000	-9.0
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-8.00	-9	0.2200	-9.0
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.00	-9	-9.0000	-9.0
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-8.00	-9	0.1000	3.1
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-8.00	-9	0.1600	3.1
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-8.00	-9	0.0460	-9.0
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-8.00	-9	0.0310	-9.0
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	32.40	-9	0.0200	3.1
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.00	-9	-9.0000	-9.0
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.00	-9	-9.0000	-9.0
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-8.00	-9	0.0420	-9.0
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-8.00	-9	0.0480	-9.0
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.00	-9	-9.0000	-9.0
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.00	-9	-9.0000	-9.0
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-8.00	-9	-8.0000	-9.0
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.00	-9	-9.0000	-9.0
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.00	-9	-9.0000	-9.0
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-8.00	-9	0.0550	-9.0
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-8.00	-9	-8.0000	3.1
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-8.00	-9	-8.0000	-9.0
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-8.00	-9	-8.0000	-9.0
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-8.00	-9	0.0200	3.1
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-8.00	-9	0.0180	-9.0
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-8.00	-9	-8.0000	-9.0

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	TOXAPH	PESBATCH	TBT	TBTBATCH
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.00	-9	-9.0000	-9.0
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.00	-9	-9.0000	-9.0
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-8.00	-9	0.0240	-9.0
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-8.00	-9	0.0420	-9.0
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-8.00	-9	0.0300	3.1
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.00	-9	-9.0000	-9.0
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.00	-9	-9.0000	-9.0
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.00	-9	-9.0000	-9.0
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-8.00	-9	0.0270	-9.0
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-8.00	-9	0.1600	-9.0
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.00	-9	-9.0000	-9.0
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.00	-9	-9.0000	-9.0
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.00	-9	-9.0000	-9.0
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9	-9.0000	-9.0
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9	-9.0000	-9.0
44014.0	MARINA DEL REY	614	1/14/93	11.0	-8.00	-9	0.7400	2.1
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9	-9.0000	-9.0
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-8.00	-9	0.0900	2.2
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9	-9.0000	-9.0
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-8.00	-9	0.3000	2.1
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9	-9.0000	-9.0
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	44.30	-9	0.1100	2.1
44024.0	BALLONA CREEK	624	1/14/93	11.0	-8.00	-9	0.1400	2.1
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9	-9.0000	-9.0
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	3200.00	-9	-8.0000	3.1
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	-8.00	73.60	0.0200	5.1
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	-8.00	73.80	0.0900	5.1
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	-8.00	73.10	0.1500	5.1
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	-8.00	73.60	0.0400	5.1
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	-8.00	73.80	-8.0000	5.1
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	-8.00	73.10	0.0300	5.1
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	-8.00	73.60	0.0800	5.3
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-8.00	73.80	0.0500	5.3
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-8.00	73.11	0.0300	5.3
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-8.00	73.60	0.0300	5.4
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-8.00	73.80	0.1000	5.4
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-8.00	73.11	0.0400	5.4

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	TOXAPH	PESBATCH	TBT	TBTBATCH
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-8.00	73.12	0.1700	5.4
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-8.00	73.80	0.1400	5.4
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-8.00	73.11	0.1900	5.4
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-8.00	73.12	0.1400	5.4
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	-8.00	73.21	0.0200	-9.0
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	-8.00	73.21	0.0380	-9.0
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-8.00	73.22	-8.0000	-9.0
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-8.00	73.21	-8.0000	-9.0
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-8.00	73.21	0.0450	-9.0
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-8.00	73.22	0.0200	-9.0
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	-8.00	73.28	0.1262	-9.0
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-8.00	73.27	0.3530	-9.0
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-8.00	73.31	0.0350	-9.0
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	-8.00	73.23	0.6190	-9.0
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	-8.00	73.27	0.4960	-9.0
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	-8.00	73.28	0.4550	-9.0
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.00	73.27	0.0678	-9.0
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-8.00	73.28	0.1040	-9.0
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-8.00	73.32	0.0778	-9.0
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-8.00	73.33	0.0400	-9.0
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-8.00	73.28	0.0261	-9.0
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-8.00	73.32	0.0461	-9.0
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-8.00	73.28	0.0330	-9.0
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-8.00	73.32	0.0606	-9.0
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-8.00	73.31	0.0376	-9.0
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-8.00	73.31	0.2000	-9.0
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	-8.00	73.32	0.2730	-9.0
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	-8.00	73.30	0.1500	-9.0
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	-8.00	73.31	0.1580	-9.0
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-8.00	73.32	0.0985	-9.0
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-8.00	73.27	0.0642	-9.0
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-8.00	73.21	0.2400	-9.0
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	-8.00	73.22	0.1610	-9.0
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-8.00	73.21	0.1560	-9.0
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-8.00	73.22	0.1790	-9.0
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	-8.00	73.21	0.1390	-9.0
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-8.00	73.22	0.1880	-9.0

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	TOXAPH	PESBATCH	TBT	TBTBATCH
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-8.00	73.22	0.1860	-9.0
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-8.00	73.23	0.1240	-9.0
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-8.00	73.23	0.1700	-9.0
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-8.00	73.30	0.0408	-9.0
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-8.00	73.31	-8.0000	-9.0
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-8.00	73.31	-8.0000	-9.0
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-8.00	73.30	0.3260	-9.0
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	-8.00	73.29	0.4640	-9.0
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-8.00	73.31	0.3670	-9.0
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	-8.00	73.32	-8.0000	-9.0
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	-8.00	73.30	0.0360	-9.0
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	-8.00	73.29	0.0376	-9.0
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.00	-9	-9.0000	-9.0
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.00	-9	-9.0000	-9.0
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.00	-9	-9.0000	-9.0
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-8.00	75.11	0.1040	28.0
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-8.00	75.11	0.5580	28.0
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.00	75.11	-9.0000	-9.0
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.00	75.12	-9.0000	-9.0
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-8.00	75.11	0.1870	28.0
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	-8.00	75.10	0.2130	28.0
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-8.00	75.11	-8.0000	28.0
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	-8.00	75.10	0.4480	28.0
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	-8.00	75.10	0.2120	28.0
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	-8.00	75.11	0.2550	28.0
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	-8.00	75.10	0.3360	28.0
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	-8.00	75.11	0.2110	28.0
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-8.00	75.10	-8.0000	28.0
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	-8.00	75.11	0.2650	28.0
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	-8.00	75.12	0.2880	28.0
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-8.00	75.10	-8.0000	28.0
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-8.00	75.10	-8.0000	28.0
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-8.00	75.11	-8.0000	28.0
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	-8.00	75.10	0.7240	28.0
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	-8.00	75.10	0.2020	28.0
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	-8.00	75.11	0.2910	28.0
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	-8.00	75.10	0.2280	28.0

Pesticide Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	TOXAPH	PESBATCH	TBT	TBTBATCH
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	-8.00	97-319	0.3140	31.0
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	-8.00	97-319	0.2510	31.0
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	-8.00	97-319	0.4220	31.0
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	-8.00	97-319	0.1950	31.0
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	-8.00	97-319	0.0759	31.0
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	-8.00	97-319	0.2020	31.0
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	-8.00	97-319	0.1990	31.0
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	-8.00	97-319	0.0660	31.0
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	-8.00	97-319	-8.0000	31.0
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	-8.00	97-319	-8.0000	31.0
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	-8.00	97-325	-8.0000	31.0
48010.0	TURNING BASIN	1697	2/4/97	48.0	-8.00	97-325	0.0200	31.0
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	-8.00	97-325	0.0361	31.0
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	-8.00	97-325	0.0232	31.0
48011.0	KING HARBOR	1700	2/5/97	48.0	-8.00	97-325	0.0715	31.0
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	-8.00	97-325	0.0340	31.0
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	-8.00	97-325	0.0354	31.0
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	-8.00	97-325	-9.0000	-9.0
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	-8.00	97-325	-9.0000	-9.0
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	-8.00	97-325	-9.0000	-9.0
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	-8.00	97-325	-9.0000	-9.0
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	-8.00	97-325	-9.0000	-9.0
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	-8.00	97-325	-9.0000	-9.0
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	-8.00	97-325	-9.0000	-9.0
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	-8.00	97-325	-9.0000	-9.0
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	-8.00	97-325	-9.0000	-9.0
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-8.00	98-007	-9.0000	-9.0
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	-8.00	98-007	-9.0000	-9.0

Section 5

PCB and Arochlor Concentrations

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB5	PCB8	PCB15	PCB18	PCB27	PCB28	PCB29	PCB31	PCB44	PCB49	PCB52
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	1.700	-9.000	3.000
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	2.200	-9.000	4.600
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	2.200	-9.000	4.700
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	1.200	-9.000	2.200
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	1.300
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.000	-9.000	-9.000	1.900	-9.000	2.600
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	2.100	-9.000	-9.000	3.200	-9.000	4.900
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9.000	-8.000	-9.000	0.900	-9.000	1.000	-9.000	-9.000	2.600	-9.000	4.400
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9.000	-8.000	-9.000	1.400	-9.000	2.400	-9.000	-9.000	3.100	-9.000	4.400
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-9.000	-8.000	-9.000	4.600	-9.000	9.900	-9.000	-9.000	11.000	-9.000	14.000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-9.000	1.500	-9.000	7.700	-9.000	13.000	-9.000	-9.000	13.000	-9.000	17.000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-9.000	-8.000	-9.000	-8.000	-9.000	2.100	-9.000	-9.000	2.900	-9.000	4.300
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-9.000	-8.000	-9.000	0.600	-9.000	0.600	-9.000	-9.000	0.800	-9.000	1.500
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	1.100
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-9.000	-8.000	-9.000	-8.000	-8.000	0.500	-9.000	-9.000	0.600	-9.000	0.600
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	0.800
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-9.000	-8.000	-9.000	1.400	-9.000	2.400	-9.000	-9.000	3.600	-9.000	6.100
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-9.000	-8.000	-9.000	1.300	-9.000	2.300	-9.000	-9.000	3.300	-9.000	5.200
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9.000	-8.000	-9.000	1.200	-9.000	1.900	-9.000	-9.000	3.000	-9.000	4.100
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.000	-9.000	-9.000	-9.000	-9.000	1.200
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	1.100	-9.000	2.000
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9.000	-8.000	-9.000	0.500	-9.000	0.600	-9.000	-9.000	0.900	-9.000	1.700

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB5	PCB8	PCB15	PCB18	PCB27	PCB28	PCB29	PCB31	PCB44	PCB49	PCB52
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	1.200
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9.000	-8.000	-9.000	0.700	-9.000	0.900	-9.000	-9.000	1.500	-9.000	2.500
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9.000	-8.000	-9.000	0.600	-9.000	-8.000	-9.000	-9.000	0.700	-9.000	1.600
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9.000	-8.000	-9.000	0.700	-9.000	0.900	-9.000	-9.000	1.500	-9.000	2.700
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-9.000	-8.000	-9.000	1.700	-9.000	4.000	-9.000	-9.000	6.500	-9.000	12.000
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-9.000	-8.000	-9.000	2.100	-9.000	5.200	-9.000	-9.000	9.100	-9.000	15.000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9.000	-8.000	-9.000	3.000	-9.000	6.800	-9.000	-9.000	10.000	-9.000	19.000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	0.600
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	0.600
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	0.700
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.800	-9.000	-9.000	0.900	-9.000	1.200
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-9.000	1.400	-9.000	5.200	-9.000	11.000	-9.000	-9.000	11.000	-9.000	14.000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-9.000	-8.000	-9.000	0.900	-9.000	0.700	-9.000	-9.000	1.400	-9.000	2.600
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-9.000	-8.000	-9.000	0.900	-9.000	1.000	-9.000	-9.000	1.500	-9.000	2.800
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.000	-9.000	-9.000	1.400	-9.000	2.400
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-9.000	-8.000	-9.000	1.000	-9.000	1.700	-9.000	-9.000	2.300	-9.000	2.800
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-9.000	-8.000	-9.000	1.100	-9.000	1.500	-9.000	-9.000	2.000	-9.000	2.700
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-9.000	1.100	-9.000	3.100	-9.000	5.400	-9.000	-9.000	6.400	-9.000	8.300
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-9.000	1.300	-9.000	3.000	-9.000	5.000	-9.000	-9.000	6.200	-9.000	8.100
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	1.100
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-9.000	-8.000	-9.000	-8.000	-9.000	2.200	-9.000	-9.000	2.400	-9.000	3.100
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9.000	-8.000	-9.000	0.700	-9.000	0.800	-9.000	-9.000	1.000	-9.000	1.600
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.000	-9.000	-9.000	1.100	-9.000	1.400
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.100	-9.000	-9.000	1.200	-9.000	1.700
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9.000	-8.000	-9.000	0.900	-9.000	2.900	-9.000	-9.000	5.500	-9.000	1.000
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-9.000	-8.000	-9.000	-8.000	-9.000	3.300	-9.000	-9.000	5.800	-9.000	7.100
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-9.000	-8.000	-9.000	-8.000	-9.000	2.300	-9.000	-9.000	4.100	-9.000	5.200

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB5	PCB8	PCB15	PCB18	PCB27	PCB28	PCB29	PCB31	PCB44	PCB49	PCB52
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.000	-9.000	-9.000	1.200	-9.000	1.900
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-9.000	-8.000	-9.000	0.700	-9.000	0.800	-9.000	-9.000	1.200	-9.000	2.000
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.800	-9.000	-9.000	2.700	-9.000	4.300
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9.000	-8.000	-9.000	-8.000	-9.000	2.400	-9.000	-9.000	5.700	-9.000	9.100
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.000	-8.000	-9.000	1.200	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	7.200
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.000	-8.000	-9.000	5.700	-9.000	15.200	-9.000	-9.000	16.100	-9.000	24.500
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	0.500	-9.000	1.100
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.000	0.800	-9.000	1.800	-9.000	-8.000	-9.000	-9.000	9.200	-9.000	10.000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	-8.000	-8.000	-8.000	-8.000	-8.000	0.759	-8.000	-8.000	1.280	1.120	3.300
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	-8.000	-8.000	-8.000	-8.000	-8.000	1.270	-8.000	0.696	2.060	1.720	5.270
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	-8.000	-8.000	-8.000	-8.000	-8.000	2.200	-8.000	1.100	2.670	2.520	3.380
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	0.523	0.545	1.540
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	0.506	0.571	1.750
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	-8.000	-8.000	-8.000	-8.000	-8.000	0.569	-8.000	-8.000	0.643	0.644	1.890
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	-8.000	0.750	0.782	-8.000	-8.000	1.930	-8.000	1.370	2.120	2.050	4.610
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-8.000	-8.000	0.629	-8.000	-8.000	2.010	-8.000	1.270	2.120	1.960	3.940
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-8.000	0.732	-8.000	0.837	-8.000	2.770	-8.000	1.710	2.520	2.440	3.580
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-8.000	-8.000	-8.000	-8.000	-8.000	2.400	-8.000	1.310	4.090	4.150	7.150
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-8.000	-8.000	0.909	-8.000	-8.000	3.870	-8.000	1.990	6.110	5.800	10.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-8.000	-8.000	-8.000	0.739	-8.000	4.120	-8.000	2.050	6.230	6.440	8.770

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB5	PCB8	PCB15	PCB18	PCB27	PCB28	PCB29	PCB31	PCB44	PCB49	PCB52
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-8.000	-8.000	-8.000	1.250	-8.000	2.570	-8.000	1.760	3.550	2.810	6.680
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-8.000	-8.000	1.210	0.586	-8.000	2.710	-8.000	1.650	3.460	3.190	7.970
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-8.000	-8.000	-8.000	1.400	-8.000	2.770	-8.000	1.760	3.670	3.020	6.620
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-8.000	-8.000	-8.000	1.100	-8.000	2.460	-8.000	1.550	3.720	2.690	6.080
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	-9.000	-8.000	-9.000	0.736	-9.000	3.390	-9.000	-9.000	5.060	-9.000	7.170
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	-9.000	-8.000	-9.000	0.866	-9.000	3.080	-9.000	-9.000	5.350	-9.000	6.900
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-9.000	-8.000	-9.000	0.621	-9.000	2.450	-9.000	-9.000	5.190	-9.000	5.490
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-9.000	-8.000	-9.000	1.010	-9.000	2.290	-9.000	-9.000	2.320	-9.000	3.180
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-9.000	0.652	-9.000	0.842	-9.000	1.820	-9.000	-9.000	2.460	-9.000	3.040
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-9.000	0.660	-9.000	0.897	-9.000	2.100	-9.000	-9.000	2.460	-9.000	2.840
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.020	-9.000	-9.000	0.968	-9.000	1.570
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.791	-9.000	-9.000	0.774	-9.000	1.200
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.585	-9.000	-9.000	0.579	-9.000	0.955
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	-9.000	-8.000	-9.000	1.590	-9.000	-8.000	-9.000	-9.000	7.350	-9.000	13.100
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	-9.000	-8.000	-9.000	2.030	-9.000	4.770	-9.000	-9.000	7.540	-9.000	11.700
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	-9.000	-8.000	-9.000	1.860	-9.000	4.700	-9.000	-9.000	6.930	-9.000	10.500
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	0.706
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	0.646
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000	0.805
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-9.000	-8.000	-9.000	0.549	-9.000	1.000	-9.000	-9.000	1.180	-9.000	1.430
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.926	-9.000	-9.000	1.200	-9.000	1.490
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-9.000	-8.000	-9.000	1.240	-9.000	1.500	-9.000	-9.000	2.120	-9.000	2.220
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.940	-9.000	-9.000	1.340	-9.000	1.770
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.914	-9.000	-9.000	1.020	-9.000	1.170
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.645	-9.000	-9.000	0.668	-9.000	1.030
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.663	-9.000	-9.000	2.540	-9.000	6.720
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.577	-9.000	-9.000	1.880	-9.000	4.470
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.583	-9.000	-9.000	1.490	-9.000	3.400
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	-9.000	2.510	-9.000	6.180	-9.000	13.800	-9.000	-9.000	12.900	-9.000	20.800
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-9.000	3.790	-9.000	8.040	-9.000	15.600	-9.000	-9.000	15.600	-9.000	23.900
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-9.000	4.760	-9.000	7.350	-9.000	16.300	-9.000	-9.000	17.000	-9.000	25.100
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-9.000	-8.000	-9.000	1.340	-9.000	2.460	-9.000	-9.000	3.660	-9.000	5.620
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	-9.000	-8.000	-9.000	1.290	-9.000	2.270	-9.000	-9.000	2.730	-9.000	4.980
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-9.000	-8.000	-9.000	1.340	-9.000	2.310	-9.000	-9.000	3.840	-9.000	5.930
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-9.000	-8.000	-9.000	1.310	-9.000	2.450	-9.000	-9.000	3.860	-9.000	6.530
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	-9.000	-8.000	-9.000	1.200	-9.000	1.740	-9.000	-9.000	3.530	-9.000	5.840
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-9.000	-8.000	-9.000	1.200	-9.000	2.040	-9.000	-9.000	3.380	-9.000	5.630

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB5	PCB8	PCB15	PCB18	PCB27	PCB28	PCB29	PCB31	PCB44	PCB49	PCB52
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-9.000	-8.000	-9.000	1.150	-9.000	1.180	-9.000	-9.000	3.390	-9.000	5.610
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-9.000	-8.000	-9.000	1.000	-9.000	2.360	-9.000	-9.000	3.750	-9.000	6.000
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-9.000	-8.000	-9.000	0.565	-9.000	1.650	-9.000	-9.000	2.320	-9.000	4.380
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.656	-9.000	-9.000	0.855	-9.000	1.640
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.519	-9.000	-9.000	0.721	-9.000	1.350
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-9.000	-8.000	-9.000	-8.000	-9.000	0.607	-9.000	-9.000	0.908	-9.000	1.550
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-9.000	-8.000	-9.000	-8.000	-9.000	2.670	-9.000	-9.000	5.050	-9.000	9.960
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	-9.000	0.862	-9.000	0.944	-9.000	3.150	-9.000	-9.000	5.890	-9.000	11.000
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-9.000	-8.000	-9.000	-8.000	-9.000	1.940	-9.000	-9.000	4.490	-9.000	8.260
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	-9.000	-8.000	-9.000	1.180	-9.000	1.560	-9.000	-9.000	3.470	-9.000	5.880
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	-9.000	-8.000	-9.000	0.751	-9.000	1.200	-9.000	-9.000	4.220	-9.000	6.070
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	-9.000	0.665	-9.000	1.130	-9.000	1.760	-9.000	-9.000	4.930	-9.000	5.540
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-8.000	-8.000	-9.000	3.390	-8.000	4.820	-8.000	6.680	5.790	4.260	8.390
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-8.000	1.540	-9.000	6.550	0.659	8.330	-8.000	11.000	8.550	5.940	12.000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-8.000	-8.000	-9.000	1.810	-8.000	2.850	-8.000	3.980	3.370	2.490	4.960
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-8.000	-8.000	-9.000	-8.000	-8.000	0.613	-8.000	0.562	4.440	5.530	19.600
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-8.000	-8.000	-9.000	0.748	-8.000	1.270	-8.000	1.050	0.978	1.130	2.980
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.000	-8.000	-9.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	0.613
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.000	-8.000	-9.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-8.000	-8.000	-9.000	0.984	-8.000	2.270	-8.000	2.310	3.120	6.140	12.000
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	-8.000	2.940	-9.000	5.900	0.578	14.000	-8.000	16.000	12.200	12.400	18.200
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-8.000	-8.000	-9.000	-8.000	-8.000	0.577	-8.000	-8.000	-8.000	-8.000	1.110
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	-8.000	0.907	-9.000	2.950	-8.000	5.100	2.020	8.640	7.640	5.680	13.400
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	-8.000	2.850	-9.000	10.100	1.400	13.400	0.516	20.100	14.900	9.890	20.600
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	0.546	0.726	-9.000	2.370	-8.000	4.330	-8.000	7.470	0.898	7.080	16.800
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	-8.000	2.230	-9.000	7.340	0.802	11.200	-8.000	13.700	11.200	7.440	15.700
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	-8.000	0.847	-9.000	2.910	-8.000	5.170	-8.000	6.880	4.450	7.880	16.900
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	1.940	7.220	-9.000	19.100	1.520	22.800	1.720	40.400	25.300	15.800	35.500
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	0.664	1.010	-9.000	3.300	-8.000	6.050	-8.000	8.110	6.250	5.320	11.800
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	0.959	18.900	-9.000	27.100	3.260	-8.000	3.860	50.100	41.200	22.500	45.800
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	3.800	14.300	-9.000	77.500	4.880	60.600	49.300	74.600	85.800	50.100	111.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	4.770	24.300	-9.000	10.400	8.960	7.800	0.780	12.700	9.190	8.170	15.400
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	2.360	0.928	-9.000	2.470	0.511	3.730	1.700	4.590	1.490	2.060	2.480
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	-8.000	-8.000	-9.000	1.860	-8.000	3.570	-8.000	6.870	4.340	3.470	7.560
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	0.794	1.050	-9.000	3.430	-8.000	5.380	0.916	7.820	7.960	6.090	13.600
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	0.600	0.833	-9.000	2.720	-8.000	5.700	-8.000	6.700	5.070	4.710	10.600
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	-8.000	-8.000	-9.000	1.250	-8.000	2.800	0.691	4.990	4.020	3.070	6.390

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB5	PCB8	PCB15	PCB18	PCB27	PCB28	PCB29	PCB31	PCB44	PCB49	PCB52
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	2.380	2.480	0.621	0.558	0.197	1.720	-8.000	0.994	2.600	2.770	5.030
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	1.190	0.161	0.943	0.634	0.110	1.180	-8.000	0.491	1.750	1.870	3.020
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	1.140	0.624	6.610	1.380	0.223	2.610	-8.000	0.995	3.930	3.860	7.000
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	0.736	0.485	0.614	0.332	0.152	0.787	-8.000	0.282	1.330	1.440	2.440
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	0.355	0.566	2.240	1.220	0.293	2.400	-8.000	1.230	2.920	2.200	5.960
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	-8.000	8.270	37.900	14.800	1.000	28.800	-8.000	17.700	27.900	33.300	40.000
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	-8.000	-8.000	-8.000	-8.000	-8.000	0.553	-8.000	-8.000	0.353	0.507	0.832
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	2.150	1.160	3.170	1.680	-8.000	6.080	-8.000	2.680	5.250	5.190	8.160
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	-8.000	2.250	-8.000	4.390	0.252	8.480	-8.000	5.170	8.350	8.580	12.100
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	-8.000	-8.000	1.660	0.767	0.115	2.230	-8.000	0.989	2.130	1.930	2.920
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	-8.000	-8.000	0.497	0.715	0.064	1.430	-8.000	0.758	1.000	0.821	1.110
48010.0	TURNING BASIN	1697	2/4/97	48.0	-8.000	-8.000	-8.000	0.233	-8.000	0.427	-8.000	-8.000	0.188	0.312	0.575
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	0.300	-8.000	0.352	0.324	-8.000	0.523	-8.000	-8.000	0.509	0.554	0.949
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	0.359	-8.000	0.232	0.505	-8.000	0.604	-8.000	-8.000	0.272	0.451	0.619
48011.0	KING HARBOR	1700	2/5/97	48.0	0.230	-8.000	1.080	1.380	0.172	1.860	-8.000	0.538	1.650	2.860	4.000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	-8.000	1.460	-8.000	0.880	-8.000	1.470	-8.000	-8.000	0.844	1.170	1.760
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	-8.000	0.688	-8.000	0.733	0.072	0.274	-8.000	0.305	0.283	0.345	0.579
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	0.471	0.354	-8.000	0.304	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	0.118
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	-8.000	6.740	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	0.308
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	-8.000	-8.000	-8.000	0.292	-8.000	-8.000	-8.000	-8.000	0.185	0.258	0.485
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	-8.000	-8.000	0.648	0.420	0.758	-8.000	-8.000	-8.000	-8.000	-8.000	2.250
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	0.396	-8.000	0.383
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	0.347	-8.000	0.209
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	0.388	-8.000	-8.000	1.500	0.347	3.030	-8.000	1.330	3.340	2.410	5.060
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	-8.000	1.460	-8.000	0.322	-8.000	1.110	-8.000	0.258	1.310	0.742	1.110
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	-8.000	0.831	-8.000	-8.000	-8.000	0.563	-8.000	-8.000	0.210	0.324	0.418
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-8.000	-8.000	-8.000	-8.000	-8.000	1.300	-8.000	1.400	0.417	-8.000	-8.000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	-8.000	-8.000	-8.000	-8.000	-8.000	1.500	-8.000	0.722	1.650	1.670	2.040

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB66	PCB70	PCB74	PCB87	PCB95	PCB97	PCB99	PCB101	PCB105	PCB110	PCB118
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	3.100	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	10.000	3.600	-9.000	9.300
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	3.400	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	12.000	4.200	-9.000	11.000
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	3.500	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	14.000	3.800	-9.000	13.000
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	1.900	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	7.100	2.800	-9.000	6.800
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	1.300	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.900	1.100	-9.000	2.700
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	4.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.300	1.100	-9.000	2.200
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	5.800	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	10.000	3.800	-9.000	9.700
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	4.800	-9.000	-9.000	4.400	-9.000	-9.000	-9.000	11.000	2.900	-9.000	10.800
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	4.800	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	9.000	2.500	-9.000	6.800
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	16.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	23.000	6.800	-9.000	18.000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	20.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	24.000	7.600	-9.000	18.000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	1.100	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.300	-8.000	-9.000	1.400
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	5.800	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	7.700	3.800	-9.000	8.200
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	1.600	-9.000	-9.000	1.000	-9.000	-9.000	-9.000	3.000	0.600	-9.000	3.000
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	1.300	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.500	-8.000	-9.000	2.200
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	1.500	-9.000	-9.000	0.800	-9.000	-9.000	-9.000	2.400	0.800	-9.000	2.300
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	1.100	-9.000	-9.000	0.600	-9.000	-9.000	-9.000	1.700	-8.000	-9.000	2.000
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	4.900	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	7.200	2.700	-9.000	6.400
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	4.400	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	6.200	2.300	-9.000	5.300
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	4.300	-9.000	-9.000	2.500	-9.000	-9.000	-9.000	6.100	1.500	-9.000	6.000
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	1.800	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.100	1.000	-9.000	2.300
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	1.600	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.700	-8.000	-9.000	2.100
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	2.100	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	4.300	1.300	-9.000	4.400
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	1.700	-9.000	-9.000	1.300	-9.000	-9.000	-9.000	3.100	0.800	-9.000	3.400

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB66	PCB70	PCB74	PCB87	PCB95	PCB97	PCB99	PCB101	PCB105	PCB110	PCB118
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	1.400	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.800	1.000	-9.000	2.700
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	2.800	-9.000	-9.000	1.800	-9.000	-9.000	-9.000	4.300	1.000	-9.000	4.500
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	0.900	-9.000	-9.000	1.100	-9.000	-9.000	-9.000	2.400	0.500	-9.000	2.500
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	2.600	-9.000	-9.000	1.900	-9.000	-9.000	-9.000	4.900	1.200	-9.000	5.000
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	14.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	20.000	7.700	-9.000	21.000
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	18.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	25.000	9.900	-9.000	21.000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	22.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	35.000	14.000	-9.000	9.800
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	0.700	-9.000	-9.000	-8.000	-9.000	-9.000	-9.000	0.700	-8.000	-9.000	1.100
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	0.800	-9.000	-9.000	-8.000	-9.000	-9.000	-9.000	0.700	-8.000	-9.000	1.200
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-8.000	-8.000	-9.000	-8.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	1.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.000	-8.000	-9.000	1.100
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	0.800	-9.000	-9.000	-8.000	-9.000	-9.000	-9.000	0.900	-8.000	-9.000	1.200
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	2.400	-9.000	-9.000	-8.000	-9.000	-9.000	-9.000	2.000	1.000	-9.000	2.600
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	19.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	14.000	6.100	-9.000	14.000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	3.200	-9.000	-9.000	1.800	-9.000	-9.000	-9.000	4.900	1.200	-9.000	5.300
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	3.500	-9.000	-9.000	2.000	-9.000	-9.000	-9.000	4.900	1.300	-9.000	5.600
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	2.800	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	4.900	1.800	-9.000	4.900
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	2.700	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	3.100	1.700	-9.000	3.000
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	3.000	-9.000	-9.000	1.300	-9.000	-9.000	-9.000	2.800	0.700	-9.000	2.800
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	9.300	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	6.700	1.800	-9.000	6.600
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	9.200	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	6.700	2.900	-9.000	6.300
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	1.900	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.000	1.000	-9.000	2.300
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	4.400	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	4.100	1.800	-9.000	4.300
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	2.100	-9.000	-9.000	0.900	-9.000	-9.000	-9.000	2.300	0.700	-9.000	2.700
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	2.100	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.500	1.100	-9.000	2.700
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	2.200	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.800	1.300	-9.000	-8.000
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	15.100	-9.000	-9.000	7.800	-9.000	-9.000	-9.000	15.900	6.800	-9.000	19.400
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	16.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	16.000	7.900	-9.000	18.000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	11.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	12.000	6.000	-9.000	13.000

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB66	PCB70	PCB74	PCB87	PCB95	PCB97	PCB99	PCB101	PCB105	PCB110	PCB118
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	1.500	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.200	-8.000	-9.000	2.500
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	2.300	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	3.700	1.500	-9.000	-8.000
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	2.400	-9.000	-9.000	1.400	-9.000	-9.000	-9.000	3.900	1.000	-9.000	4.400
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-8.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.600	-8.000	-9.000	1.600
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	4.300	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	5.700	1.900	-9.000	5.100
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11.0	12.000	-9.000	-9.000	6.500	-9.000	-9.000	-9.000	20.200	9.000	-9.000	20.700
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	4.000	-9.000	-9.000	4.900	-9.000	-9.000	-9.000	12.300	3.700	-9.000	10.600
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	28.600	-9.000	-9.000	6.100	-9.000	-9.000	-9.000	16.500	8.000	-9.000	16.900
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	0.800	-9.000	-9.000	0.700	-9.000	-9.000	-9.000	2.400	1.000	-9.000	2.300
44024.0	BALLONA CREEK	624	1/14/93	11.0	5.900	-9.000	-9.000	9.700	-9.000	-9.000	-9.000	21.400	10.000	-9.000	22.000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-8.000	-9.000	-9.000	-8.000	-9.000	-9.000	-9.000	-8.000	-8.000	-9.000	-8.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	2.610	2.520	0.965	1.950	3.070	-8.000	2.070	4.900	1.960	5.020	4.790
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	3.720	3.850	1.570	3.800	6.510	2.510	4.040	8.080	2.350	9.180	8.840
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	5.760	4.900	1.960	3.200	7.820	-8.000	3.870	8.550	3.430	8.750	8.150
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	1.190	0.822	-8.000	-8.000	1.960	0.510	1.270	2.650	0.777	2.780	2.630
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	1.410	0.982	0.588	0.531	1.950	0.679	1.430	2.830	0.748	2.570	2.760
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	1.670	0.932	0.583	0.788	2.530	-8.000	1.400	2.820	1.160	3.010	2.820
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	4.920	3.970	1.800	-8.000	3.350	1.170	2.380	4.330	1.910	5.020	4.320
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	4.850	3.390	1.800	1.290	3.300	1.390	2.310	4.290	1.060	4.180	4.190
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	5.310	3.550	2.080	1.590	3.690	1.230	2.460	4.490	2.280	5.200	4.870
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	15.400	11.200	4.490	-8.000	11.400	4.960	6.990	15.300	9.320	17.000	16.700
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	19.000	14.100	6.150	9.490	16.700	6.190	10.400	19.700	8.390	19.600	18.800
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	18.100	12.300	5.850	8.320	12.700	7.760	10.300	17.700	10.700	18.800	18.900

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB66	PCB70	PCB74	PCB87	PCB95	PCB97	PCB99	PCB101	PCB105	PCB110	PCB118
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	4.720	-8.000	2.100	2.420	6.660	1.400	3.210	7.530	2.700	8.230	6.870
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	6.010	4.520	2.590	1.870	6.720	-8.000	3.760	7.790	2.100	7.520	7.690
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	5.420	4.340	2.260	2.650	6.610	1.920	3.050	7.350	2.330	7.640	6.520
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	5.080	4.520	2.120	3.100	6.740	0.773	3.360	7.460	2.930	8.150	6.870
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	15.900	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	18.500	8.160	-9.000	15.800
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	16.900	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	17.100	10.200	-9.000	19.100
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	13.100	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	15.100	7.450	-9.000	14.000
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	4.460	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	3.780	2.020	-9.000	3.480
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	4.720	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	4.310	1.340	-9.000	4.330
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	4.820	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	4.060	1.780	-9.000	4.340
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	2.190	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.230	0.892	-9.000	2.400
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	1.870	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.740	1.080	-9.000	2.010
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	1.360	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.670	0.811	-9.000	1.820
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	10.400	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	24.800	1.700	-9.000	19.100
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	13.700	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	22.600	8.050	-9.000	17.100
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	13.200	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	22.600	9.770	-9.000	17.600
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	0.617	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.350	0.518	-9.000	1.070
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	0.589	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.310	-8.000	-9.000	1.040
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	0.794	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.170	0.778	-9.000	2.200
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	1.740	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.650	0.760	-9.000	1.630
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	1.470	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.630	0.680	-9.000	1.480
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	3.500	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	3.140	1.960	-9.000	2.920
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	2.830	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.250	1.070	-9.000	2.620
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	2.460	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	2.260	1.250	-9.000	2.920
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	1.820	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	1.570	0.922	-9.000	1.960
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	3.700	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	16.400	5.990	-9.000	15.500
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	3.530	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	12.400	5.360	-9.000	11.600
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	2.770	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	9.490	3.370	-9.000	8.710
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	27.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	16.400	6.900	-9.000	14.500
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	34.500	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	18.000	8.800	-9.000	16.300
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	32.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	18.100	7.320	-9.000	14.300
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	4.630	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	6.940	2.730	-9.000	6.330
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	5.810	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	8.250	2.520	-9.000	6.090
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	4.820	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	6.980	2.090	-9.000	6.720
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	5.190	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	7.460	2.880	-9.000	5.990
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	5.240	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	8.100	1.520	-9.000	6.890
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	5.440	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	6.490	1.970	-9.000	6.460

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB66	PCB70	PCB74	PCB87	PCB95	PCB97	PCB99	PCB101	PCB105	PCB110	PCB118
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	4.220	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	6.620	3.390	-9.000	5.890
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	5.400	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	7.360	2.590	-9.000	6.410
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	4.470	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	5.320	2.310	-9.000	5.400
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	2.210	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	3.560	1.740	-9.000	3.780
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	1.750	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	3.260	1.500	-9.000	3.500
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	2.160	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	3.700	1.610	-9.000	3.680
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	12.800	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	21.400	8.790	-9.000	20.500
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	12.600	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	23.300	10.200	-9.000	23.200
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	11.200	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	17.900	7.340	-9.000	17.600
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	4.030	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	12.300	5.660	-9.000	13.600
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	4.540	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	13.800	5.850	-9.000	13.700
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	4.320	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	13.500	7.050	-9.000	13.500
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	8.560	7.250	2.880	5.660	19.600	4.490	6.550	20.100	4.540	16.200	12.900
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	11.200	10.100	4.000	6.900	16.000	5.370	7.330	19.800	5.980	18.100	14.800
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	4.630	4.080	1.690	2.890	6.410	2.680	3.530	8.980	2.790	8.570	7.110
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	5.040	10.100	3.110	8.680	26.100	8.850	17.300	42.200	3.800	19.800	37.000
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	1.880	2.570	1.170	1.360	2.880	1.220	3.210	6.260	1.070	3.260	7.630
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.000	-8.000	-8.000	-8.000	1.970	-8.000	-8.000	0.715	-8.000	1.080	-8.000
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000
44014.0	MARINA DEL REY	1630	6/19/96	45.0	9.980	9.770	5.150	3.220	8.680	4.050	9.510	20.300	1.250	7.030	19.100
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	24.800	22.400	11.700	5.720	14.300	6.790	8.200	17.100	6.310	16.100	15.400
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	0.970	0.899	-8.000	-8.000	0.825	-8.000	0.912	1.740	-8.000	0.848	1.930
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	13.600	11.500	4.990	9.510	46.900	6.770	12.900	40.400	6.570	28.500	19.300
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	24.500	23.200	11.100	12.200	33.300	6.210	8.800	30.000	10.100	26.400	21.700
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	8.690	11.600	4.700	6.160	54.100	5.070	21.700	96.800	1.830	22.100	26.400
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	18.400	16.300	7.890	10.700	36.500	7.320	8.570	32.200	8.150	25.100	19.300
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	8.090	10.500	4.690	5.980	47.500	4.410	26.500	82.900	2.170	23.400	21.000
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	50.600	43.400	20.000	12.700	57.500	12.900	14.900	42.600	17.300	43.700	34.500
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	9.860	12.400	5.000	5.010	15.200	6.150	11.300	26.200	4.110	18.900	16.100
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	97.600	60.500	26.400	16.800	88.900	17.700	19.600	62.400	21.100	55.900	52.200
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	99.800	86.600	44.500	29.300	72.000	14.300	26.600	65.800	29.900	91.400	59.100
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	13.100	20.500	5.400	10.100	20.900	7.530	8.360	23.200	9.030	31.200	19.400
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	3.180	4.150	1.960	-8.000	1.460	-8.000	1.460	2.190	-8.000	1.770	1.240
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	8.710	8.450	3.430	5.380	13.600	4.880	4.710	13.300	5.180	15.400	12.200
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	12.700	11.400	5.420	8.810	57.700	4.490	15.100	46.400	5.490	29.600	18.200
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	8.880	11.400	5.460	2.530	10.700	3.370	7.740	23.100	2.820	10.300	18.400
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	7.110	6.910	3.030	5.610	17.200	4.080	5.940	17.700	4.410	15.600	12.800

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB66	PCB70	PCB74	PCB87	PCB95	PCB97	PCB99	PCB101	PCB105	PCB110	PCB118
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	5.420	3.770	2.270	-9.000	5.650	3.150	5.950	11.900	4.620	11.700	12.100
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	4.530	2.510	1.550	-9.000	4.190	2.240	4.160	8.580	3.660	8.740	9.330
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	9.220	5.820	3.470	-9.000	7.540	4.510	8.230	16.700	6.980	17.000	17.900
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	2.710	1.860	0.982	-9.000	3.620	1.900	3.190	6.950	2.680	7.250	6.780
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	3.830	3.960	2.330	-9.000	7.130	3.100	5.110	13.000	4.920	13.300	12.600
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	40.000	35.600	19.500	-9.000	15.900	9.310	14.700	27.800	9.880	27.900	24.200
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	0.877	-8.000	-8.000	-9.000	-8.000	-8.000	-8.000	1.570	0.705	1.570	1.620
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	8.870	6.840	3.690	-9.000	3.660	2.180	3.710	7.030	2.850	6.870	6.160
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	11.000	9.660	5.700	-9.000	4.210	2.790	4.560	9.050	3.830	9.680	8.710
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	3.300	2.710	1.490	-9.000	2.260	1.270	2.280	4.490	1.890	4.550	4.480
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	1.630	1.020	0.496	-9.000	1.410	0.739	1.460	2.220	1.320	2.700	3.410
48010.0	TURNING BASIN	1697	2/4/97	48.0	0.748	0.426	0.107	-9.000	1.880	0.395	1.710	3.150	0.707	2.180	2.980
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	0.939	0.721	0.264	-9.000	1.074	0.562	0.987	2.228	0.934	2.216	2.635
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	0.755	0.521	0.399	-9.000	0.867	0.478	0.975	1.470	0.904	1.570	2.040
48011.0	KING HARBOR	1700	2/5/97	48.0	5.680	2.940	1.710	-9.000	4.250	3.370	5.500	11.000	4.540	10.300	15.500
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	2.310	1.090	0.557	-9.000	1.510	0.790	1.880	3.100	1.600	3.630	5.250
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	0.415	0.321	0.100	-9.000	0.678	0.700	0.576	1.200	0.505	1.060	1.250
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	-8.000	-8.000	-8.000	-9.000	0.569	0.514	0.423	1.100	0.215	0.550	0.856
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	-8.000	-8.000	-8.000	-9.000	0.570	1.180	0.605	1.570	0.322	0.949	0.983
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	-8.000	0.142	-8.000	-9.000	1.390	-8.000	0.964	2.640	0.982	0.743	0.567
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	-8.000	0.116	-8.000	-9.000	0.550	-8.000	0.545	1.310	0.258	0.736	1.090
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	-8.000	-8.000	-8.000	-9.000	0.685	-8.000	0.857	0.568	0.632	0.589	1.740
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	-8.000	-8.000	-8.000	-9.000	0.579	-8.000	0.579	1.290	0.397	0.214	1.180
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	3.560	2.870	1.110	-9.000	5.230	2.050	2.890	7.180	2.810	6.830	7.960
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	1.180	0.724	0.329	-9.000	1.430	0.558	0.958	2.000	1.090	1.940	2.810
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	0.358	0.495	0.158	-9.000	0.699	0.252	0.569	0.962	0.582	1.140	1.230
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-8.000	4.410	2.110	-9.000	2.830	-8.000	5.430	3.330	4.200	14.200	4.400
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	2.890	2.720	1.010	-9.000	2.700	1.330	2.490	5.690	2.510	5.390	6.000

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB128	PCB132	PCB137	PCB138	PCB149	PCB151	PCB153	PCB156	PCB157	PCB158
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	2.700	-9.000	-9.000	16.000	-9.000	-9.000	12.000	-9.000	-9.000	-9.000
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	3.200	-9.000	-9.000	19.000	-9.000	-9.000	14.000	-9.000	-9.000	-9.000
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	3.400	-9.000	-9.000	21.000	-9.000	-9.000	13.000	-9.000	-9.000	-9.000
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	2.000	-9.000	-9.000	11.000	-9.000	-9.000	7.600	-9.000	-9.000	-9.000
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-8.000	-9.000	-9.000	4.600	-9.000	-9.000	3.800	-9.000	-9.000	-9.000
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-8.000	-9.000	-9.000	2.600	-9.000	-9.000	2.200	-9.000	-9.000	-9.000
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	2.300	-9.000	-9.000	13.000	-9.000	-9.000	9.900	-9.000	-9.000	-9.000
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	2.700	-9.000	-9.000	15.900	-9.000	-9.000	10.600	-9.000	-9.000	-9.000
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	1.600	-9.000	-9.000	18.000	-9.000	-9.000	16.000	-9.000	-9.000	-9.000
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	4.300	-9.000	-9.000	38.000	-9.000	-9.000	35.000	-9.000	-9.000	-9.000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	4.100	-9.000	-9.000	39.000	-9.000	-9.000	36.000	-9.000	-9.000	-9.000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-8.000	-9.000	-9.000	1.900	-9.000	-9.000	1.200	-9.000	-9.000	-9.000
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	1.700	-9.000	-9.000	10.000	-9.000	-9.000	6.100	-9.000	-9.000	-9.000
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	0.700	-9.000	-9.000	5.800	-9.000	-9.000	4.800	-9.000	-9.000	-9.000
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-8.000	-9.000	-9.000	4.700	-9.000	-9.000	4.400	-9.000	-9.000	-9.000
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	0.500	-9.000	-9.000	3.500	-9.000	-9.000	3.100	-9.000	-9.000	-9.000
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	0.600	-9.000	-9.000	3.400	-9.000	-9.000	2.600	-9.000	-9.000	-9.000
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	1.300	-9.000	-9.000	7.600	-9.000	-9.000	5.200	-9.000	-9.000	-9.000
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	1.200	-9.000	-9.000	5.900	-9.000	-9.000	4.400	-9.000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	1.300	-9.000	-9.000	7.100	-9.000	-9.000	5.200	-9.000	-9.000	-9.000
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-8.000	-9.000	-9.000	3.400	-9.000	-9.000	2.900	-9.000	-9.000	-9.000
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-8.000	-9.000	-9.000	3.100	-9.000	-9.000	2.200	-9.000	-9.000	-9.000
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	1.100	-9.000	-9.000	5.900	-9.000	-9.000	4.300	-9.000	-9.000	-9.000
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	0.800	-9.000	-9.000	4.300	-9.000	-9.000	3.200	-9.000	-9.000	-9.000

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB128	PCB132	PCB137	PCB138	PCB149	PCB151	PCB153	PCB156	PCB157	PCB158
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-8.000	-9.000	-9.000	4.500	-9.000	-9.000	3.000	-9.000	-9.000	-9.000
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	1.100	-9.000	-9.000	5.800	-9.000	-9.000	4.400	-9.000	-9.000	-9.000
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	0.600	-9.000	-9.000	3.300	-9.000	-9.000	2.200	-9.000	-9.000	-9.000
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	1.300	-9.000	-9.000	6.800	-9.000	-9.000	4.600	-9.000	-9.000	-9.000
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	3.600	-9.000	-9.000	26.000	-9.000	-9.000	23.000	-9.000	-9.000	-9.000
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	3.900	-9.000	-9.000	29.000	-9.000	-9.000	16.000	-9.000	-9.000	-9.000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	5.100	-9.000	-9.000	41.000	-9.000	-9.000	25.000	-9.000	-9.000	-9.000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-8.000	-9.000	-9.000	1.400	-9.000	-9.000	0.900	-9.000	-9.000	-9.000
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-8.000	-9.000	-9.000	1.500	-9.000	-9.000	1.000	-9.000	-9.000	-9.000
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.000	-9.000	-9.000	1.100	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-8.000	-9.000	-9.000	1.400	-9.000	-9.000	1.100	-9.000	-9.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-8.000	-9.000	-9.000	1.600	-9.000	-9.000	1.100	-9.000	-9.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	0.700	-9.000	-9.000	3.300	-9.000	-9.000	2.500	-9.000	-9.000	-9.000
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	2.900	-9.000	-9.000	19.000	-9.000	-9.000	15.000	-9.000	-9.000	-9.000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	1.400	-9.000	-9.000	9.400	-9.000	-9.000	7.300	-9.000	-9.000	-9.000
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	1.600	-9.000	-9.000	10.000	-9.000	-9.000	7.900	-9.000	-9.000	-9.000
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	1.100	-9.000	-9.000	8.100	-9.000	-9.000	5.800	-9.000	-9.000	-9.000
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	1.000	-9.000	-9.000	4.900	-9.000	-9.000	3.700	-9.000	-9.000	-9.000
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	0.600	-9.000	-9.000	4.600	-9.000	-9.000	3.300	-9.000	-9.000	-9.000
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	1.100	-9.000	-9.000	8.200	-9.000	-9.000	4.500	-9.000	-9.000	-9.000
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	1.100	-9.000	-9.000	8.000	-9.000	-9.000	4.700	-9.000	-9.000	-9.000
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-8.000	-9.000	-9.000	3.100	-9.000	-9.000	2.400	-9.000	-9.000	-9.000
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-8.000	-9.000	-9.000	5.800	-9.000	-9.000	3.700	-9.000	-9.000	-9.000
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	0.900	-9.000	-9.000	4.200	-9.000	-9.000	3.400	-9.000	-9.000	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-8.000	-9.000	-9.000	4.200	-9.000	-9.000	2.800	-9.000	-9.000	-9.000
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-8.000	-9.000	-9.000	4.400	-9.000	-9.000	3.200	-9.000	-9.000	-9.000
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	3.200	-9.000	-9.000	24.100	-9.000	-9.000	16.000	-9.000	-9.000	-9.000
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	3.700	-9.000	-9.000	22.000	-9.000	-9.000	15.000	-9.000	-9.000	-9.000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	2.800	-9.000	-9.000	17.000	-9.000	-9.000	12.000	-9.000	-9.000	-9.000

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB128	PCB132	PCB137	PCB138	PCB149	PCB151	PCB153	PCB156	PCB157	PCB158
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-8.000	-9.000	-9.000	3.900	-9.000	-9.000	3.000	-9.000	-9.000	-9.000
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	1.000	-9.000	-9.000	6.100	-9.000	-9.000	4.300	-9.000	-9.000	-9.000
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	1.400	-9.000	-9.000	7.400	-9.000	-9.000	5.600	-9.000	-9.000	-9.000
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-8.000	-9.000	-9.000	2.600	-9.000	-9.000	2.100	-9.000	-9.000	-9.000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-8.000	-9.000	-9.000	6.000	-9.000	-9.000	4.400	-9.000	-9.000	-9.000
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11.0	5.300	-9.000	-9.000	27.900	-9.000	-9.000	19.600	-9.000	-9.000	-9.000
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	3.000	-9.000	-9.000	19.400	-9.000	-9.000	12.400	-9.000	-9.000	-9.000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	3.200	-9.000	-9.000	17.300	-9.000	-9.000	13.300	-9.000	-9.000	-9.000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	0.600	-9.000	-9.000	3.700	-9.000	-9.000	2.700	-9.000	-9.000	-9.000
44024.0	BALLONA CREEK	624	1/14/93	11.0	7.100	-9.000	-9.000	46.900	-9.000	-9.000	29.500	-9.000	-9.000	-9.000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-8.000	-9.000	-9.000	1.200	-9.000	-9.000	1.200	-9.000	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	1.150	1.270	-8.000	6.180	3.540	0.521	4.730	0.668	-8.000	0.559
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	2.110	2.460	-8.000	10.800	5.480	1.650	8.350	1.250	-8.000	1.220
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	2.070	2.490	-8.000	9.870	6.260	1.550	7.530	1.230	-8.000	1.070
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	0.864	0.528	-8.000	4.480	2.630	0.895	3.840	0.524	-8.000	-8.000
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	-8.000	0.764	-8.000	4.340	2.650	0.779	3.900	-8.000	-8.000	-8.000
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	0.824	1.020	-8.000	4.370	2.690	0.986	3.700	-8.000	-8.000	-8.000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	1.250	0.926	-8.000	6.100	3.400	0.883	4.730	-8.000	-8.000	0.537
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-8.000	1.020	-8.000	5.660	3.410	0.953	4.720	-8.000	-8.000	0.531
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	1.140	1.620	-8.000	6.410	3.760	0.887	5.240	0.641	-8.000	0.526
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	4.040	3.860	0.762	20.400	9.580	2.800	14.400	1.190	0.530	1.940
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	2.950	5.060	1.150	23.700	13.200	4.260	17.900	3.270	0.882	2.520
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	4.320	5.250	1.060	22.200	11.400	2.400	16.900	2.540	-8.000	2.460

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB128	PCB132	PCB137	PCB138	PCB149	PCB151	PCB153	PCB156	PCB157	PCB158
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	1.470	1.980	-8.000	7.470	4.260	-8.000	5.650	0.800	-8.000	0.712
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	0.708	1.580	-8.000	8.200	5.330	1.820	6.550	0.667	-8.000	0.858
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	1.250	1.880	-8.000	6.960	4.040	0.852	5.400	0.767	-8.000	0.672
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	1.360	2.010	-8.000	7.650	4.490	-8.000	5.980	0.871	-8.000	0.701
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	4.160	-9.000	-9.000	21.700	-9.000	-9.000	15.100	-9.000	-9.000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	4.940	-9.000	-9.000	24.900	-9.000	-9.000	18.300	-9.000	-9.000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	3.470	-9.000	-9.000	17.300	-9.000	-9.000	11.700	-9.000	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	1.190	-9.000	-9.000	6.370	-9.000	-9.000	3.900	-9.000	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	0.911	-9.000	-9.000	7.050	-9.000	-9.000	5.020	-9.000	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	1.100	-9.000	-9.000	6.070	-9.000	-9.000	4.550	-9.000	-9.000	-9.000
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	0.717	-9.000	-9.000	3.960	-9.000	-9.000	2.890	-9.000	-9.000	-9.000
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	0.590	-9.000	-9.000	3.360	-9.000	-9.000	2.360	-9.000	-9.000	-9.000
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-8.000	-9.000	-9.000	3.350	-9.000	-9.000	2.780	-9.000	-9.000	-9.000
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	2.580	-9.000	-9.000	44.400	-9.000	-9.000	43.000	-9.000	-9.000	-9.000
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	5.970	-9.000	-9.000	40.300	-9.000	-9.000	38.000	-9.000	-9.000	-9.000
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	4.870	-9.000	-9.000	44.400	-9.000	-9.000	46.300	-9.000	-9.000	-9.000
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.000	-9.000	-9.000	2.310	-9.000	-9.000	1.610	-9.000	-9.000	-9.000
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-8.000	-9.000	-9.000	2.390	-9.000	-9.000	1.720	-9.000	-9.000	-9.000
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	0.592	-9.000	-9.000	3.810	-9.000	-9.000	3.120	-9.000	-9.000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	0.517	-9.000	-9.000	2.730	-9.000	-9.000	2.050	-9.000	-9.000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-8.000	-9.000	-9.000	2.690	-9.000	-9.000	1.820	-9.000	-9.000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	2.270	-9.000	-9.000	4.930	-9.000	-9.000	3.740	-9.000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	0.509	-9.000	-9.000	3.530	-9.000	-9.000	2.690	-9.000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	0.781	-9.000	-9.000	4.150	-9.000	-9.000	3.400	-9.000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-8.000	-9.000	-9.000	2.900	-9.000	-9.000	2.330	-9.000	-9.000	-9.000
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	4.400	-9.000	-9.000	24.700	-9.000	-9.000	18.800	-9.000	-9.000	-9.000
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	4.320	-9.000	-9.000	19.200	-9.000	-9.000	14.700	-9.000	-9.000	-9.000
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	2.350	-9.000	-9.000	13.800	-9.000	-9.000	10.600	-9.000	-9.000	-9.000
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	2.620	-9.000	-9.000	14.600	-9.000	-9.000	12.900	-9.000	-9.000	-9.000
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	3.430	-9.000	-9.000	16.500	-9.000	-9.000	13.600	-9.000	-9.000	-9.000
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	2.080	-9.000	-9.000	15.000	-9.000	-9.000	12.800	-9.000	-9.000	-9.000
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	1.480	-9.000	-9.000	7.580	-9.000	-9.000	6.130	-9.000	-9.000	-9.000
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	1.140	-9.000	-9.000	7.270	-9.000	-9.000	5.710	-9.000	-9.000	-9.000
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	1.240	-9.000	-9.000	8.280	-9.000	-9.000	5.530	-9.000	-9.000	-9.000
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	1.270	-9.000	-9.000	8.370	-9.000	-9.000	6.280	-9.000	-9.000	-9.000
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	1.450	-9.000	-9.000	7.540	-9.000	-9.000	5.810	-9.000	-9.000	-9.000
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	1.760	-9.000	-9.000	7.150	-9.000	-9.000	5.560	-9.000	-9.000	-9.000

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB128	PCB132	PCB137	PCB138	PCB149	PCB151	PCB153	PCB156	PCB157	PCB158
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	1.130	-9.000	-9.000	8.090	-9.000	-9.000	5.270	-9.000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	1.740	-9.000	-9.000	7.990	-9.000	-9.000	5.320	-9.000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	1.310	-9.000	-9.000	6.450	-9.000	-9.000	4.590	-9.000	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	1.150	-9.000	-9.000	5.740	-9.000	-9.000	4.750	-9.000	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	1.010	-9.000	-9.000	6.180	-9.000	-9.000	5.310	-9.000	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	1.090	-9.000	-9.000	5.920	-9.000	-9.000	4.820	-9.000	-9.000	-9.000
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	4.840	-9.000	-9.000	25.900	-9.000	-9.000	20.200	-9.000	-9.000	-9.000
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	6.400	-9.000	-9.000	37.600	-9.000	-9.000	29.600	-9.000	-9.000	-9.000
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	4.510	-9.000	-9.000	22.800	-9.000	-9.000	18.400	-9.000	-9.000	-9.000
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	8.420	-9.000	-9.000	19.700	-9.000	-9.000	16.000	-9.000	-9.000	-9.000
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	4.260	-9.000	-9.000	22.100	-9.000	-9.000	18.100	-9.000	-9.000	-9.000
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	3.850	-9.000	-9.000	21.900	-9.000	-9.000	18.000	-9.000	-9.000	-9.000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	3.900	9.720	0.814	38.200	33.400	11.600	41.700	2.930	0.984	3.470
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	3.950	7.710	0.825	30.500	26.700	8.270	32.900	2.520	1.050	3.080
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	2.020	3.700	-8.000	14.200	11.100	3.750	14.500	1.310	0.539	1.520
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	0.847	2.250	2.190	43.300	26.300	7.710	42.300	4.720	-8.000	4.960
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-8.000	-8.000	-8.000	9.140	4.750	1.480	9.100	1.060	-8.000	1.010
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.000	-8.000	-8.000	1.260	0.607	-8.000	0.936	-8.000	-8.000	-8.000
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.000	-8.000	-8.000	0.772	0.596	-8.000	0.989	-8.000	-8.000	-8.000
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-8.000	-8.000	0.778	18.200	10.500	2.670	17.000	1.860	-8.000	1.960
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	2.580	3.450	0.706	15.100	8.880	2.040	13.400	1.780	1.240	1.450
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-8.000	-8.000	-8.000	2.550	1.450	0.500	2.690	-8.000	-8.000	-8.000
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	6.460	18.700	1.610	86.700	85.000	29.000	108.000	6.520	2.630	6.230
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	5.100	10.300	1.320	46.700	34.500	11.400	43.200	4.530	2.480	4.140
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	0.667	13.100	1.500	201.000	213.000	94.600	274.000	13.600	2.900	20.800
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	5.830	14.900	1.280	64.200	55.100	17.800	68.100	4.500	2.380	5.080
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	1.120	6.020	1.840	84.200	139.000	69.300	185.000	7.830	2.240	13.200
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	8.010	-8.000	1.900	52.800	36.400	4.780	47.200	5.970	5.940	5.250
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	1.500	3.760	0.938	39.200	36.800	12.000	55.000	2.940	-8.000	3.710
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	13.000	9.610	2.050	72.800	44.900	18.500	63.000	7.190	1.040	7.100
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	9.430	15.700	2.630	68.600	35.700	10.900	44.300	7.800	5.760	6.920
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	4.360	10.700	-8.000	41.800	23.000	10.600	28.500	4.060	15.400	2.650
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-8.000	0.578	-8.000	-8.000	1.790	-8.000	-8.000	1.140	9.370	-8.000
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	3.190	4.750	0.736	19.300	13.100	4.000	17.100	2.120	1.170	1.750
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	6.090	20.400	1.470	82.100	88.200	30.800	101.000	5.200	2.170	5.670
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	1.030	2.310	0.743	30.800	22.000	8.940	38.500	2.630	0.587	3.200
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	3.790	8.420	0.900	36.400	27.600	8.760	34.700	3.470	1.400	3.270

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB128	PCB132	PCB137	PCB138	PCB149	PCB151	PCB153	PCB156	PCB157	PCB158
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	2.630	4.150	0.498	13.600	7.000	1.660	6.970	1.150	0.214	0.953
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	2.120	3.060	0.279	11.300	5.200	1.400	7.010	0.845	0.345	0.720
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	3.890	10.900	0.629	20.000	9.400	2.480	14.800	1.740	0.554	1.360
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	1.790	3.280	0.218	9.870	4.580	1.250	6.850	0.649	0.268	0.671
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	2.890	6.920	0.520	17.100	9.810	2.350	10.900	0.985	-8.000	1.360
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	3.180	-8.000	0.640	17.500	11.000	2.750	14.400	2.590	0.576	1.380
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	0.204	-8.000	-8.000	2.560	1.310	-8.000	2.600	1.710	-8.000	-8.000
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	1.030	1.840	0.185	6.230	3.420	0.902	4.390	0.725	-8.000	0.437
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	1.290	-8.000	0.251	7.750	4.650	0.985	5.280	0.450	-8.000	-8.000
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	0.926	-8.000	-8.000	5.580	2.710	0.644	3.870	0.300	-8.000	-8.000
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	0.750	0.916	0.080	4.810	1.620	0.463	4.320	0.556	0.347	0.246
48010.0	TURNING BASIN	1697	2/4/97	48.0	1.000	2.640	0.206	15.000	9.480	2.500	22.900	1.120	0.128	1.080
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	0.385	0.509	0.306	2.919	1.260	0.340	2.435	0.397	0.129	0.201
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	0.420	0.690	-8.000	2.740	1.310	0.372	2.430	0.380	0.140	0.187
48011.0	KING HARBOR	1700	2/5/97	48.0	2.640	2.710	0.804	15.300	5.940	1.250	16.700	1.240	0.683	0.899
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	0.928	1.520	-8.000	7.950	2.950	0.803	6.610	1.150	0.584	0.423
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	0.531	0.531	0.293	1.660	0.587	0.103	0.926	0.304	-8.000	0.082
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	0.530	0.611	0.279	2.640	1.610	0.481	2.800	0.359	-8.000	-8.000
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	1.180	0.722	0.873	4.350	2.360	0.651	3.660	0.517	-8.000	0.196
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	4.800	0.969	-8.000	5.140	3.090	0.534	2.710	0.738	-8.000	0.172
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	1.430	0.656	0.917	2.630	1.570	0.309	2.080	0.369	-8.000	0.099
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	3.850	0.935	3.470	4.740	2.370	0.216	2.100	0.879	-8.000	0.220
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	3.760	0.907	-8.000	3.930	1.820	0.157	1.440	0.645	-8.000	-8.000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	1.260	1.760	0.753	6.560	3.020	0.919	3.970	-8.000	-8.000	0.247
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	0.250	0.051	0.178	2.390	1.260	0.266	2.000	0.501	-8.000	0.100
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	0.130	0.280	-8.000	1.390	0.485	0.156	1.040	-8.000	-8.000	-8.000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-8.000	4.570	-8.000	-8.000	5.920	3.680	24.700	-8.000	-8.000	-8.000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	0.990	2.380	-8.000	5.770	4.030	1.300	7.410	0.740	-8.000	0.679

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB170	PCB174	PCB177	PCB180	PCB183	PCB187	PCB189	PCB194	PCB195	PCB201
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	2.900	-9.000	-9.000	6.100	-9.000	3.300	-9.000	-9.000	-8.000	-9.000
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	4.000	-9.000	-9.000	8.700	-9.000	3.800	-9.000	-9.000	-8.000	-9.000
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	3.800	-9.000	-9.000	7.900	-9.000	3.500	-9.000	-9.000	-8.000	-9.000
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	1.900	-9.000	-9.000	3.800	-9.000	1.900	-9.000	-9.000	-8.000	-9.000
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	1.000	-9.000	-9.000	2.200	-9.000	1.200	-9.000	-9.000	-8.000	-9.000
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-8.000	-9.000	-9.000	1.800	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	2.000	-9.000	-9.000	4.300	-9.000	2.400	-9.000	-9.000	-8.000	-9.000
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	2.200	-9.000	-9.000	5.900	-9.000	4.800	-9.000	-9.000	-8.000	-9.000
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	6.100	-9.000	-9.000	15.000	-9.000	7.500	-9.000	-9.000	1.100	-9.000
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	11.000	-9.000	-9.000	26.000	-9.000	15.000	-9.000	-9.000	1.800	-9.000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	11.000	-9.000	-9.000	35.000	-9.000	16.000	-9.000	-9.000	1.900	-9.000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	1.900	-9.000	-9.000	4.000	-9.000	2.100	-9.000	-9.000	-8.000	-9.000
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	1.400	-9.000	-9.000	3.400	-9.000	1.800	-9.000	-9.000	-8.000	-9.000
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	1.700	-9.000	-9.000	3.200	-9.000	1.900	-9.000	-9.000	-8.000	-9.000
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	0.800	-9.000	-9.000	1.700	-9.000	1.100	-9.000	-9.000	-8.000	-9.000
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	0.800	-9.000	-9.000	1.800	-9.000	1.100	-9.000	-9.000	-8.000	-9.000
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	1.400	-9.000	-9.000	2.700	-9.000	1.400	-9.000	-9.000	-8.000	-9.000
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	1.000	-9.000	-9.000	1.900	-9.000	1.100	-9.000	-9.000	-8.000	-9.000
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	1.200	-9.000	-9.000	2.300	-9.000	1.300	-9.000	-9.000	-8.000	-9.000
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-8.000	-9.000	-9.000	1.700	-9.000	1.100	-9.000	-9.000	-8.000	-9.000
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-8.000	-9.000	-9.000	1.500	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	1.100	-9.000	-9.000	2.000	-9.000	1.100	-9.000	-9.000	-8.000	-9.000
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	0.700	-9.000	-9.000	1.600	-9.000	0.900	-9.000	-9.000	-8.000	-9.000

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB170	PCB174	PCB177	PCB180	PCB183	PCB187	PCB189	PCB194	PCB195	PCB201
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	1.100	-9.000	-9.000	2.100	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	1.100	-9.000	-9.000	2.000	-9.000	1.100	-9.000	-9.000	-8.000	-9.000
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	0.600	-9.000	-9.000	1.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	1.000	-9.000	-9.000	2.300	-9.000	1.200	-9.000	-9.000	-8.000	-9.000
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	4.600	-9.000	-9.000	9.900	-9.000	14.000	-9.000	-9.000	-8.000	-9.000
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	4.900	-9.000	-9.000	11.000	-9.000	5.100	-9.000	-9.000	-8.000	-9.000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	7.600	-9.000	-9.000	18.000	-9.000	9.000	-9.000	-9.000	1.000	-9.000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-8.000	-9.000	-9.000	0.600	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	0.600	-9.000	-9.000	1.300	-9.000	0.900	-9.000	-9.000	-8.000	-9.000
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	5.300	-9.000	-9.000	11.000	-9.000	5.400	-9.000	-9.000	-8.000	-9.000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	2.100	-9.000	-9.000	5.100	-9.000	2.700	-9.000	-9.000	-8.000	-9.000
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	2.500	-9.000	-9.000	5.900	-9.000	2.900	-9.000	-9.000	-8.000	-9.000
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	1.900	-9.000	-9.000	3.900	-9.000	2.200	-9.000	-9.000	-8.000	-9.000
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	1.600	-9.000	-9.000	3.200	-9.000	1.400	-9.000	-9.000	-8.000	-9.000
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	1.600	-9.000	-9.000	3.100	-9.000	1.300	-9.000	-9.000	-8.000	-9.000
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	2.200	-9.000	-9.000	4.800	-9.000	2.100	-9.000	-9.000	-8.000	-9.000
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	2.300	-9.000	-9.000	4.700	-9.000	2.100	-9.000	-9.000	-8.000	-9.000
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-8.000	-9.000	-9.000	1.300	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	1.500	-9.000	-9.000	2.900	-9.000	1.500	-9.000	-9.000	-8.000	-9.000
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	1.400	-9.000	-9.000	3.700	-9.000	1.800	-9.000	-9.000	-8.000	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	1.100	-9.000	-9.000	2.300	-9.000	1.400	-9.000	-9.000	-8.000	-9.000
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	1.300	-9.000	-9.000	2.700	-9.000	1.500	-9.000	-9.000	-8.000	-9.000
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	4.400	-9.000	-9.000	9.300	-9.000	5.200	-9.000	-9.000	1.100	-9.000
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	4.200	-9.000	-9.000	8.700	-9.000	4.500	-9.000	-9.000	-8.000	-9.000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	3.400	-9.000	-9.000	6.700	-9.000	3.700	-9.000	-9.000	-8.000	-9.000

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB170	PCB174	PCB177	PCB180	PCB183	PCB187	PCB189	PCB194	PCB195	PCB201
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-8.000	-9.000	-9.000	1.500	-9.000	1.000	-9.000	-9.000	-8.000	-9.000
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	1.500	-9.000	-9.000	3.100	-9.000	1.600	-9.000	-9.000	-8.000	-9.000
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	1.500	-9.000	-9.000	3.700	-9.000	2.100	-9.000	-9.000	-8.000	-9.000
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-8.000	-9.000	-9.000	1.200	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-8.000	-9.000	-9.000	2.100	-9.000	1.200	-9.000	-9.000	-8.000	-9.000
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11.0	4.400	-9.000	-9.000	9.200	-9.000	5.400	-9.000	-9.000	-8.000	-9.000
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	4.000	-9.000	-9.000	10.000	-9.000	4.700	-9.000	-9.000	0.700	-9.000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	6.100	-9.000	-9.000	11.900	-9.000	5.000	-9.000	-9.000	1.700	-9.000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-8.000	-9.000	-9.000	1.100	-9.000	0.500	-9.000	-9.000	-8.000	-9.000
44024.0	BALLONA CREEK	624	1/14/93	11.0	9.100	-9.000	-9.000	19.200	-9.000	9.400	-9.000	-9.000	1.100	-9.000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-8.000	-9.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000	-8.000	-9.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	1.260	0.965	0.534	2.540	0.617	1.330	-8.000	0.529	-8.000	0.632
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	1.500	1.260	0.698	3.180	0.802	1.640	-8.000	0.566	-8.000	0.558
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	1.640	1.460	0.824	3.400	0.915	2.020	-8.000	0.917	-8.000	0.958
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	1.320	0.948	0.578	2.570	0.634	1.340	-8.000	0.551	-8.000	0.765
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	0.776	0.898	0.541	2.220	0.620	1.380	-8.000	0.667	-8.000	0.639
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	0.979	0.880	0.555	2.240	0.600	1.410	-8.000	0.689	-8.000	0.598
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	1.310	1.210	0.757	3.170	0.748	1.750	-8.000	0.730	-8.000	0.960
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	1.170	1.190	0.696	2.910	0.741	1.560	-8.000	0.898	-8.000	0.943
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	1.500	1.360	0.829	3.290	0.837	1.890	-8.000	0.949	-8.000	0.923
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	4.080	3.110	1.900	8.360	2.150	4.360	-8.000	2.190	0.839	2.350
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	2.680	3.610	2.250	8.190	2.510	5.040	-8.000	2.430	0.927	2.470
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	4.530	3.830	2.460	9.040	2.680	5.230	-8.000	2.620	-8.000	2.890

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB170	PCB174	PCB177	PCB180	PCB183	PCB187	PCB189	PCB194	PCB195	PCB201
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	0.983	0.853	0.550	2.020	0.533	1.160	-8.000	-8.000	-8.000	-8.000
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	1.020	1.090	0.610	2.530	0.699	1.640	-8.000	0.551	-8.000	0.603
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	0.860	0.865	0.544	2.080	0.602	1.320	-8.000	-8.000	-8.000	-8.000
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	1.200	1.000	0.674	2.510	0.725	1.420	-8.000	0.543	-8.000	0.773
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	3.150	-9.000	-9.000	8.890	-9.000	4.160	-9.000	-9.000	0.854	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	6.390	-9.000	-9.000	11.400	-9.000	5.760	-9.000	-9.000	1.200	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	2.030	-9.000	-9.000	6.370	-9.000	3.690	-9.000	-9.000	0.760	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	1.880	-9.000	-9.000	3.240	-9.000	1.830	-9.000	-9.000	0.570	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	1.590	-9.000	-9.000	3.930	-9.000	2.290	-9.000	-9.000	-8.000	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	1.530	-9.000	-9.000	2.850	-9.000	1.960	-9.000	-9.000	-8.000	-9.000
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	0.863	-9.000	-9.000	2.330	-9.000	1.190	-9.000	-9.000	-8.000	-9.000
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	0.833	-9.000	-9.000	1.890	-9.000	1.040	-9.000	-9.000	-8.000	-9.000
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	0.925	-9.000	-9.000	2.140	-9.000	1.100	-9.000	-9.000	-8.000	-9.000
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	15.700	-9.000	-9.000	41.300	-9.000	20.400	-9.000	-9.000	2.720	-9.000
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	12.900	-9.000	-9.000	39.900	-9.000	16.100	-9.000	-9.000	3.020	-9.000
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	16.800	-9.000	-9.000	54.800	-9.000	22.600	-9.000	-9.000	4.320	-9.000
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.000	-9.000	-9.000	1.150	-9.000	0.525	-9.000	-9.000	-8.000	-9.000
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-8.000	-9.000	-9.000	1.340	-9.000	0.604	-9.000	-9.000	-8.000	-9.000
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	0.884	-9.000	-9.000	2.020	-9.000	0.911	-9.000	-9.000	-8.000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	0.738	-9.000	-9.000	1.810	-9.000	0.845	-9.000	-9.000	-8.000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	0.911	-9.000	-9.000	1.990	-9.000	0.794	-9.000	-9.000	-8.000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	1.520	-9.000	-9.000	3.590	-9.000	1.460	-9.000	-9.000	-8.000	-9.000
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	0.944	-9.000	-9.000	2.010	-9.000	1.070	-9.000	-9.000	-8.000	-9.000
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	1.010	-9.000	-9.000	1.920	-9.000	1.210	-9.000	-9.000	-8.000	-9.000
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	0.696	-9.000	-9.000	1.370	-9.000	0.881	-9.000	-9.000	-8.000	-9.000
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	5.230	-9.000	-9.000	11.100	-9.000	4.610	-9.000	-9.000	1.160	-9.000
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	3.570	-9.000	-9.000	7.640	-9.000	3.610	-9.000	-9.000	0.561	-9.000
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	2.510	-9.000	-9.000	5.490	-9.000	2.310	-9.000	-9.000	-8.000	-9.000
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	4.100	-9.000	-9.000	9.100	-9.000	4.160	-9.000	-9.000	0.739	-9.000
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	4.870	-9.000	-9.000	10.900	-9.000	5.130	-9.000	-9.000	0.956	-9.000
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	4.320	-9.000	-9.000	11.000	-9.000	4.860	-9.000	-9.000	0.892	-9.000
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	1.580	-9.000	-9.000	2.680	-9.000	1.720	-9.000	-9.000	-8.000	-9.000
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	1.200	-9.000	-9.000	2.210	-9.000	1.290	-9.000	-9.000	-8.000	-9.000
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	1.080	-9.000	-9.000	2.780	-9.000	1.750	-9.000	-9.000	-8.000	-9.000
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	0.633	-9.000	-9.000	1.930	-9.000	1.430	-9.000	-9.000	-8.000	-9.000
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	0.821	-9.000	-9.000	2.190	-9.000	1.340	-9.000	-9.000	-8.000	-9.000
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	0.516	-9.000	-9.000	1.750	-9.000	1.220	-9.000	-9.000	-8.000	-9.000

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB170	PCB174	PCB177	PCB180	PCB183	PCB187	PCB189	PCB194	PCB195	PCB201
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	0.628	-9.000	-9.000	2.080	-9.000	1.390	-9.000	-9.000	-8.000	-9.000
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-8.000	-9.000	-9.000	2.840	-9.000	1.600	-9.000	-9.000	-8.000	-9.000
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	1.010	-9.000	-9.000	2.230	-9.000	1.270	-9.000	-9.000	-8.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	1.320	-9.000	-9.000	3.060	-9.000	1.760	-9.000	-9.000	-8.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	1.510	-9.000	-9.000	3.690	-9.000	1.870	-9.000	-9.000	-8.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	1.220	-9.000	-9.000	2.850	-9.000	1.920	-9.000	-9.000	-8.000	-9.000
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	4.110	-9.000	-9.000	8.810	-9.000	4.960	-9.000	-9.000	0.757	-9.000
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	6.890	-9.000	-9.000	13.300	-9.000	6.160	-9.000	-9.000	0.818	-9.000
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	5.160	-9.000	-9.000	13.300	-9.000	6.590	-9.000	-9.000	1.830	-9.000
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	4.220	-9.000	-9.000	9.880	-9.000	4.720	-9.000	-9.000	0.886	-9.000
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	4.530	-9.000	-9.000	10.900	-9.000	4.880	-9.000	-9.000	0.926	-9.000
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	4.630	-9.000	-9.000	11.200	-9.000	4.970	-9.000	-9.000	0.880	-9.000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	12.100	13.200	7.420	34.200	7.300	16.500	0.736	8.810	3.060	7.460
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	7.990	8.370	4.730	21.900	4.790	11.300	0.512	5.830	1.920	5.180
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	3.480	3.530	2.120	9.070	2.060	4.690	-8.000	2.460	0.729	2.310
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	5.000	4.780	3.080	17.700	4.060	7.930	-8.000	3.210	0.872	2.570
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	1.170	1.110	0.778	4.280	1.010	2.060	-8.000	0.889	-8.000	0.794
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.000	-8.000	-8.000	0.748	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.000	-8.000	-8.000	0.503	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000
44014.0	MARINA DEL REY	1630	6/19/96	45.0	1.530	1.650	1.120	6.180	1.620	3.850	-8.000	1.820	-8.000	1.920
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	3.560	2.680	2.210	8.300	2.040	3.540	-8.000	2.220	0.569	2.240
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-8.000	-8.000	-8.000	1.470	-8.000	0.969	-8.000	-8.000	-8.000	-8.000
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	29.800	34.700	19.400	92.300	18.000	42.100	1.340	20.000	7.360	19.400
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	13.300	14.800	8.900	38.900	8.970	16.800	0.727	10.000	3.420	10.100
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	51.600	79.600	44.900	216.000	62.100	122.000	3.530	49.100	18.600	47.300
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	22.900	26.000	15.400	70.200	14.300	29.700	1.040	16.400	5.920	16.300
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	42.500	63.500	29.800	140.000	44.100	84.200	2.750	46.300	13.200	44.000
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	14.000	14.500	8.850	40.500	8.840	3.290	1.050	11.200	3.650	12.900
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	8.280	10.200	5.520	27.600	6.380	19.400	-8.000	7.420	2.270	7.500
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	26.600	24.300	13.000	67.600	14.700	34.400	1.170	18.000	5.830	22.600
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	12.900	12.800	8.140	35.600	2.850	15.000	0.685	7.930	2.640	8.990
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	9.480	9.540	5.340	24.500	5.420	11.200	0.932	5.330	1.910	6.760
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-8.000	-8.000	-8.000	1.260	-8.000	0.928	-8.000	0.712	-8.000	2.700
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	4.570	4.000	2.950	11.800	2.590	5.190	-8.000	3.240	0.958	3.780
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	26.800	34.200	19.800	83.900	17.600	41.800	1.300	18.400	6.840	18.100
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	5.930	7.840	4.060	29.700	6.650	14.900	0.522	7.940	1.640	8.270
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	9.750	8.090	6.310	23.300	5.740	10.600	0.640	5.150	1.730	4.660

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB170	PCB174	PCB177	PCB180	PCB183	PCB187	PCB189	PCB194	PCB195	PCB201
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	2.710	1.620	0.992	5.210	1.030	3.270	-8.000	1.620	0.577	1.210
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	2.350	1.350	0.883	4.500	1.090	2.980	1.080	1.270	0.696	1.050
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	3.950	2.340	1.580	7.560	1.800	5.040	1.810	2.370	0.903	1.680
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	2.170	1.410	0.779	4.550	0.967	2.750	0.753	1.360	0.527	1.110
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	4.550	3.030	1.220	9.800	1.980	5.060	-8.000	2.720	0.524	2.130
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	4.630	3.410	1.750	9.270	2.350	5.390	-8.000	2.570	2.120	2.130
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	0.592	-8.000	-8.000	1.320	0.181	0.708	-8.000	-8.000	0.885	-8.000
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	1.880	1.270	0.653	3.610	0.706	2.080	-8.000	1.080	0.509	0.902
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	2.490	1.600	0.845	4.550	1.070	2.590	-8.000	1.190	0.761	1.080
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	1.860	0.892	0.507	3.410	0.600	1.730	-8.000	0.735	0.612	0.722
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	1.740	0.696	0.428	2.900	0.469	1.260	0.231	0.382	0.434	1.050
48010.0	TURNING BASIN	1697	2/4/97	48.0	12.800	5.850	3.170	20.500	3.860	7.760	0.788	5.070	1.580	2.710
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	1.002	0.467	0.199	1.069	0.235	0.557	-8.000	0.675	0.081	0.770
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	1.120	0.575	0.379	1.570	0.310	0.839	0.180	0.836	0.208	0.655
48011.0	KING HARBOR	1700	2/5/97	48.0	2.760	1.270	0.793	4.880	0.927	2.400	2.010	1.570	0.499	1.240
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	3.970	1.510	0.968	6.140	1.310	2.590	-8.000	2.250	0.441	1.340
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	0.617	0.146	0.103	0.573	0.201	0.229	-8.000	0.470	-8.000	0.163
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	1.540	0.714	0.570	2.720	0.866	1.420	-8.000	1.200	0.314	0.658
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	1.690	1.120	0.833	3.030	1.220	2.100	0.161	1.410	0.312	0.814
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	1.290	0.745	0.381	2.610	2.620	1.840	-8.000	1.100	0.260	0.811
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	1.240	0.478	0.340	1.470	0.942	1.210	-8.000	0.667	0.114	0.293
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	0.954	0.285	0.140	1.330	2.290	0.584	0.124	0.660	0.117	0.463
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	0.662	0.123	0.127	0.927	1.900	0.474	-8.000	0.308	0.068	0.167
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	5.690	2.260	0.330	2.420	0.823	2.190	-8.000	2.650	1.260	6.810
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	1.330	0.447	0.182	1.190	0.228	0.569	0.372	1.170	0.277	2.710
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	0.563	0.216	-8.000	0.684	0.101	0.291	0.308	0.292	-8.000	0.491
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	16.900	3.820	-8.000	15.100	-8.000	-8.000	3.960	6.340	-8.000	6.740
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	2.360	1.410	-8.000	4.200	0.320	1.370	-8.000	1.740	0.206	1.490

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB203	PCB206	PCB209	ARO1248	ARO1254	ARO1260	ARO5460	PCBBATCH
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-9.000	1.900	1.200	-9.000	-9.000	-9.000	-9.000	-9
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-9.000	1.100	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9.000	1.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9.000	40.900	8.700	-9.000	-9.000	-9.000	-9.000	73.10
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9.000	1.400	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-9.000	2.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-9.000	2.200	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-9.000	0.900	0.900	-9.000	-9.000	-9.000	-9.000	73.10
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-9.000	2.400	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.17
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-9.000	0.500	0.900	-9.000	-9.000	-9.000	-9.000	73.10
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.20
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-9.000	-8.000	2.200	-9.000	-9.000	-9.000	-9.000	-9
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.20

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB203	PCB206	PCB209	ARO1248	ARO1254	ARO1260	ARO5460	PCBBATCH
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9.000	-8.000	0.900	-9.000	-9.000	-9.000	-9.000	73.20
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.20
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.10
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-9.000	5.400	2.100	-9.000	-9.000	-9.000	-9.000	-9
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-9.000	2.900	2.400	-9.000	-9.000	-9.000	-9.000	-9
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9.000	3.600	3.500	-9.000	-9.000	-9.000	-9.000	-9
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.10
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.30
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.20
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	73.90
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-9.000	2.000	1.900	-9.000	-9.000	-9.000	-9.000	-9
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-9.000	2.400	3.100	-9.000	-9.000	-9.000	-9.000	73.10
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-9.000	2.200	2.600	-9.000	-9.000	-9.000	-9.000	73.20
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-9.000	1.300	1.700	-9.000	-9.000	-9.000	-9.000	-9
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-9.000	0.500	-8.000	-9.000	-9.000	-9.000	-9.000	73.20
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9.000	0.600	-8.000	-9.000	-9.000	-9.000	-9.000	-73.10
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9.000	1.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9.000	1.600	1.700	-9.000	-9.000	-9.000	-9.000	73.20
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-9.000	1.500	1.200	-9.000	-9.000	-9.000	-9.000	-9
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-9.000	1.100	1.000	-9.000	-9.000	-9.000	-9.000	-9

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB203	PCB206	PCB209	ARO1248	ARO1254	ARO1260	ARO5460	PCBBATCH
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-9.000	0.800	-8.000	-9.000	-9.000	-9.000	-9.000	73.10
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	-9
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9.000	1.600	1.200	-9.000	-9.000	-9.000	-9.000	72.10
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.000	1.700	0.700	-9.000	-9.000	-9.000	-9.000	72.10
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.000	2.700	0.800	-9.000	-9.000	-9.000	-9.000	72.10
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.000	-8.000	1.200	-9.000	-9.000	-9.000	-9.000	72.10
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.000	1.600	1.000	-9.000	-9.000	-9.000	-9.000	72.10
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9.000	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-9.000	72.10
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	0.673	-8.000	-8.000	-9.000	-9.000	-9.000	55.800	73.60
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	0.650	-8.000	-8.000	-9.000	-9.000	-9.000	17.000	73.80
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	0.932	0.623	-8.000	-9.000	-9.000	-9.000	24.400	73.10
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	0.749	0.514	0.517	-9.000	-9.000	-9.000	21.100	73.60
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	0.723	0.608	0.594	-9.000	-9.000	-9.000	-8.000	73.80
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	0.720	0.566	-8.000	-9.000	-9.000	-9.000	16.700	73.10
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	0.916	0.589	-8.000	-9.000	-9.000	-9.000	53.200	73.60
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	1.060	0.649	0.590	-9.000	-9.000	-9.000	-8.000	73.80
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	1.110	0.689	-8.000	-9.000	-9.000	-9.000	44.900	73.11
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	2.210	1.270	1.160	-9.000	-9.000	-9.000	81.000	73.60
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	2.370	1.500	1.460	-9.000	-9.000	-9.000	30.500	73.80
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	3.210	1.800	1.460	-9.000	-9.000	-9.000	62.400	73.11

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB203	PCB206	PCB209	ARO1248	ARO1254	ARO1260	ARO5460	PCBBATCH
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-8.000	-8.000	0.672	-9.000	-9.000	-9.000	17.300	73.12
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	0.673	0.527	-8.000	-9.000	-9.000	-9.000	-8.000	73.80
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-8.000	-8.000	-8.000	-9.000	-9.000	-9.000	15.900	73.11
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	0.664	-8.000	-8.000	-9.000	-9.000	-9.000	18.600	73.12
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	-9.000	1.370	1.290	-9.000	-9.000	-9.000	170.000	73.21
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	-9.000	1.750	2.000	-9.000	-9.000	-9.000	169.000	73.21
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-9.000	0.946	0.972	-9.000	-9.000	-9.000	106.000	73.22
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-9.000	0.541	-8.000	-9.000	-9.000	-9.000	78.100	73.21
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-9.000	0.675	-8.000	-9.000	-9.000	-9.000	42.500	73.21
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-9.000	0.538	0.564	-9.000	-9.000	-9.000	55.400	73.22
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	-9.000	-8.000	0.552	-9.000	-9.000	-9.000	35.100	73.28
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	28.500	73.27
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	22.300	73.31
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	-9.000	4.550	3.350	-9.000	-9.000	-9.000	49.600	73.23
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	-9.000	4.690	3.610	-9.000	-9.000	-9.000	198.000	73.27
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	-9.000	5.160	2.630	-9.000	-9.000	-9.000	198.000	73.28
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	10.100	73.27
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	10.100	73.28
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	13.700	73.32
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	35.700	73.33
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	37.800	73.28
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-9.000	0.747	-8.000	-9.000	-9.000	-9.000	63.300	73.32
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	42.200	73.28
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	38.400	73.32
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	27.800	73.31
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-9.000	2.210	0.955	-9.000	-9.000	-9.000	132.000	73.31
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	-9.000	1.330	0.839	-9.000	-9.000	-9.000	60.600	73.32
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	-9.000	0.920	0.551	-9.000	-9.000	-9.000	40.800	73.30
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	-9.000	1.530	0.900	-9.000	-9.000	-9.000	169.000	73.31
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-9.000	1.870	1.000	-9.000	-9.000	-9.000	178.000	73.32
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-9.000	1.850	1.400	-9.000	-9.000	-9.000	180.000	73.27
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-9.000	0.633	-8.000	-9.000	-9.000	-9.000	26.400	73.21
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	25.200	73.22
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-9.000	0.509	-8.000	-9.000	-9.000	-9.000	19.300	73.21
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	28.100	73.22
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	11.300	73.21
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	13.500	73.22

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB203	PCB206	PCB209	ARO1248	ARO1254	ARO1260	ARO5460	PCBBATCH
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	-8.000	73.22
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-9.000	0.522	-8.000	-9.000	-9.000	-9.000	43.300	73.23
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-9.000	-8.000	-8.000	-9.000	-9.000	-9.000	24.600	73.23
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-9.000	1.100	-8.000	-9.000	-9.000	-9.000	84.000	73.30
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-9.000	0.952	-8.000	-9.000	-9.000	-9.000	64.800	73.31
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-9.000	4.000	1.120	-9.000	-9.000	-9.000	72.100	73.31
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-9.000	2.020	1.500	-9.000	-9.000	-9.000	205.000	73.30
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	-9.000	2.090	1.750	-9.000	-9.000	-9.000	384.000	73.29
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-9.000	3.240	1.180	-9.000	-9.000	-9.000	200.000	73.31
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	-9.000	1.790	0.852	-9.000	-9.000	-9.000	279.000	73.32
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	-9.000	1.930	1.250	-9.000	-9.000	-9.000	197.000	73.30
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	-9.000	2.020	1.500	-9.000	-9.000	-9.000	269.000	73.29
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	4.780	3.120	1.240	150.000	140.000	290.000	-8.000	75.09
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	3.310	2.510	1.240	230.000	150.000	200.000	-8.000	75.09
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	1.430	1.270	0.852	88.000	84.000	88.000	-8.000	75.09
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	2.930	1.010	0.796	-8.000	440.000	100.000	-8.000	75.11
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	0.875	-8.000	-8.000	35.000	97.000	30.000	-8.000	75.11
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.000	-8.000	0.679	-8.000	-8.000	9.200	-8.000	75.11
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.000	-8.000	-8.000	-8.000	-8.000	5.300	-8.000	75.12
44014.0	MARINA DEL REY	1630	6/19/96	45.0	1.890	1.520	0.916	58.000	230.000	61.000	38.700	75.11
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	1.330	1.460	1.050	350.000	110.000	93.000	161.000	75.10
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-8.000	-8.000	-8.000	-8.000	29.000	18.000	-8.000	75.11
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	11.500	6.330	2.000	150.000	220.000	730.000	167.000	75.10
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	6.210	5.250	2.280	380.000	150.000	370.000	280.000	75.10
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	49.500	14.600	1.770	-8.000	-8.000	2200.000	30.900	75.11
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	9.620	6.560	2.540	270.000	140.000	610.000	207.000	75.10
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	32.600	13.800	1.830	110.000	-8.000	1600.000	26.200	75.11
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	7.870	13.400	8.940	650.000	230.000	430.000	233.000	75.10
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	7.860	4.160	1.400	170.000	230.000	270.000	63.100	75.11
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	22.600	13.800	7.210	2600.000	-8.000	760.000	302.000	75.12
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	5.210	4.650	3.020	1600.000	390.000	310.000	90.100	75.10
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	4.140	4.540	4.800	300.000	250.000	250.000	33.200	75.10
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	1.670	12.600	11.900	110.000	-8.000	65.000	-8.000	75.11
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	2.180	2.680	1.360	120.000	130.000	120.000	183.000	75.10
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	10.900	6.220	2.230	160.000	260.000	730.000	182.000	75.10
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	8.650	4.970	1.940	-8.000	-8.000	-8.000	36.100	75.11
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	2.850	2.220	1.240	86.000	180.000	190.000	117.000	75.10

PCB and Arochlor Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	PCB203	PCB206	PCB209	ARO1248	ARO1254	ARO1260	ARO5460	PCBBATCH
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	1.110	0.705	0.550	-8.000	174.000	-8.000	-9.000	97-319
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	0.977	0.947	0.366	-8.000	135.000	-8.000	-9.000	97-319
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	1.630	1.330	0.586	-8.000	253.000	-8.000	-9.000	97-319
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	1.040	0.857	0.604	-8.000	117.000	-8.000	-9.000	97-319
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	1.960	1.080	0.868	-8.000	207.000	-8.000	-9.000	97-319
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	2.150	1.540	0.939	-8.000	385.000	-8.000	-9.000	97-319
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	-8.000	-8.000	0.379	-8.000	28.300	-8.000	-9.000	97-319
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	0.948	0.404	0.579	-8.000	111.000	-8.000	-9.000	97-319
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	1.140	0.737	0.412	-8.000	153.000	-8.000	-9.000	97-319
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	0.682	0.494	0.382	-8.000	74.700	-8.000	-9.000	97-319
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	0.671	0.813	0.220	-8.000	49.900	-8.000	-9.000	97-325
48010.0	TURNING BASIN	1697	2/4/97	48.0	1.730	0.808	0.133	-8.000	111.000	-8.000	-9.000	97-325
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	0.157	0.112	0.218	-8.000	37.649	-8.000	-9.000	97-325
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	0.505	0.514	0.322	-8.000	32.100	-8.000	-9.000	97-325
48011.0	KING HARBOR	1700	2/5/97	48.0	0.869	0.921	0.567	-8.000	166.000	-8.000	-9.000	97-325
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	1.360	0.472	0.187	-8.000	75.700	-8.000	-9.000	97-325
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	0.262	0.026	-8.000	-8.000	19.300	-8.000	-9.000	97-325
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	0.830	0.203	-8.000	-8.000	24.400	-8.000	-9.000	97-325
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	0.882	0.126	0.065	-8.000	33.700	-8.000	-9.000	97-325
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	0.683	0.236	0.091	-8.000	40.300	-8.000	-9.000	97-325
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	0.236	0.104	4.130	-8.000	26.900	-8.000	-9.000	97-325
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	0.350	0.047	0.190	-8.000	37.600	-8.000	-9.000	97-325
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	0.305	0.084	0.145	-8.000	31.300	-8.000	-9.000	97-325
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	-8.000	1.260	0.223	-8.000	110.000	-8.000	-9.000	97-325
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	36.700	-8.000	-9.000	97-325
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	20.200	-8.000	-9.000	97-325
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	7.090	1.110	23.900	-8.000	-8.000	-8.000	-9.000	98-007
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	0.479	0.611	0.794	-8.000	101.000	-8.000	-9.000	98-007

Section 6

PAH Concentrations

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	ACY	ACE	ANT	BAA	BAP	BBF	BKF	BGP	BEP	BPH
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-9.00	83.00	620.00	970.00	1100.00	-9.00	-9.00	-9.00	950.00	19.00
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-9.00	21.00	390.00	860.00	1600.00	-9.00	-9.00	-9.00	1400.00	7.30
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9.00	130.00	1400.00	2200.00	3300.00	-9.00	-9.00	-9.00	2500.00	23.00
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-9.00	6.20	97.00	210.00	400.00	-9.00	-9.00	-9.00	370.00	-8.00
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9.00	20.00	190.00	280.00	280.00	-9.00	-9.00	-9.00	250.00	-8.00
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9.00	8.50	60.00	120.00	120.00	-9.00	-9.00	-9.00	120.00	-8.00
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-9.00	35.00	240.00	410.00	420.00	-9.00	-9.00	-9.00	350.00	9.80
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9.00	17.60	107.00	162.00	277.00	-9.00	-9.00	-9.00	242.00	7.20
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9.00	16.00	79.00	270.00	460.00	-9.00	-9.00	-9.00	430.00	6.30
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-9.00	38.00	160.00	690.00	630.00	-9.00	-9.00	-9.00	660.00	20.00
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-9.00	52.00	220.00	1000.00	920.00	-9.00	-9.00	-9.00	920.00	29.00
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9.00	-8.00	-8.00	17.00	31.00	-9.00	-9.00	-9.00	27.00	-8.00
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-9.00	-8.00	25.00	71.00	130.00	-9.00	-9.00	-9.00	120.00	-8.00
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-9.00	37.20	192.00	288.00	428.00	-9.00	-9.00	-9.00	294.00	8.90
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-9.00	12.00	86.00	170.00	240.00	-9.00	-9.00	-9.00	180.00	-8.00
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-9.00	-8.00	13.90	48.30	80.50	-9.00	-9.00	-9.00	72.30	-8.00
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-9.00	-8.00	34.50	69.90	111.00	-9.00	-9.00	-9.00	85.60	-8.00
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-9.00	8.10	58.00	200.00	290.00	-9.00	-9.00	-9.00	270.00	5.10
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-9.00	8.10	36.00	130.00	150.00	-9.00	-9.00	-9.00	180.00	-8.00
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9.00	-8.00	34.20	79.70	179.00	-9.00	-9.00	-9.00	171.00	-8.00
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9.00	9.80	140.00	280.00	300.00	-9.00	-9.00	-9.00	330.00	7.80
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-9.00	5.40	82.00	230.00	240.00	-9.00	-9.00	-9.00	240.00	5.20
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-9.00	7.40	13.00	62.00	110.00	-9.00	-9.00	-9.00	99.00	-8.00
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9.00	-8.00	12.60	35.30	73.60	-9.00	-9.00	-9.00	66.30	-8.00

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	ACY	ACE	ANT	BAA	BAP	BBF	BKF	BGP	BEP	BPH
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9.00	26.00	23.00	66.00	91.00	-9.00	-9.00	-9.00	69.00	-8.00
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9.00	-8.00	9.10	11.50	62.20	-9.00	-9.00	-9.00	57.30	-8.00
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9.00	-8.00	6.10	14.40	39.10	-9.00	-9.00	-9.00	35.30	-8.00
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9.00	-8.00	18.70	34.90	94.50	-9.00	-9.00	-9.00	77.30	-8.00
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-9.00	16.00	420.00	790.00	1000.00	-9.00	-9.00	-9.00	980.00	6.00
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-9.00	15.00	210.00	420.00	930.00	-9.00	-9.00	-9.00	820.00	5.40
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9.00	16.00	290.00	840.00	1600.00	-9.00	-9.00	-9.00	1300.00	11.00
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-9.00	-8.00	6.20	14.40	16.90	-9.00	-9.00	-9.00	12.20	-8.00
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-9.00	-8.00	-8.00	7.40	10.10	-9.00	-9.00	-9.00	11.10	-8.00
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-9.00	-8.00	-8.00	7.60	9.00	-9.00	-9.00	-9.00	12.00	-8.00
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-9.00	-8.00	14.00	71.00	58.00	-9.00	-9.00	-9.00	56.00	-8.00
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-9.00	-8.00	-8.00	7.90	17.00	-9.00	-9.00	-9.00	18.30	-8.00
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-9.00	-8.00	-8.00	17.30	29.70	-9.00	-9.00	-9.00	21.90	-8.00
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-9.00	65.00	440.00	910.00	1600.00	-9.00	-9.00	-9.00	1400.00	25.00
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-9.00	12.30	147.00	208.00	503.00	-9.00	-9.00	-9.00	388.00	7.20
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-9.00	10.00	184.00	258.00	540.00	-9.00	-9.00	-9.00	408.00	6.50
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-9.00	5.90	100.00	220.00	430.00	-9.00	-9.00	-9.00	350.00	-8.00
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-9.00	6.00	19.00	92.00	100.00	-9.00	-9.00	-9.00	130.00	28.00
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-9.00	11.00	14.40	73.50	93.60	-9.00	-9.00	-9.00	107.00	24.00
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-9.00	-8.00	14.00	72.00	99.00	-9.00	-9.00	-9.00	110.00	14.00
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-9.00	-8.00	14.00	68.00	95.00	-9.00	-9.00	-9.00	110.00	13.00
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-9.00	-8.00	11.00	34.00	44.00	-9.00	-9.00	-9.00	44.00	-8.00
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-9.00	-8.00	-8.00	28.00	45.00	-9.00	-9.00	-9.00	45.00	-8.00
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9.00	-8.00	5.20	22.30	36.20	-9.00	-9.00	-9.00	35.70	-8.00
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9.00	-8.00	-8.00	28.00	41.00	-9.00	-9.00	-9.00	39.00	-8.00
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9.00	-8.00	6.30	32.00	47.00	-9.00	-9.00	-9.00	45.00	-8.00
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9.00	-8.00	-8.00	9.10	28.50	-9.00	-9.00	-9.00	37.10	-8.00
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-9.00	-8.00	8.40	14.00	35.00	-9.00	-9.00	-9.00	41.00	-8.00
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-9.00	-8.00	6.20	16.00	26.00	-9.00	-9.00	-9.00	44.00	-8.00
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	ACY	ACE	ANT	BAA	BAP	BBF	BKF	BGP	BEP	BPH
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-9.00	-8.00	5.70	41.00	62.00	-9.00	-9.00	-9.00	75.00	-8.00
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-9.00	-8.00	9.50	68.00	97.00	-9.00	-9.00	-9.00	98.00	-8.00
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-9.00	-8.00	8.70	48.90	97.80	-9.00	-9.00	-9.00	96.70	-8.00
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-9.00	-8.00	8.40	54.00	60.00	-9.00	-9.00	-9.00	67.00	-8.00
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-9.00	-8.00	29.00	160.00	210.00	-9.00	-9.00	-9.00	250.00	-8.00
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9.00	6.30	15.80	109.00	140.00	-9.00	-9.00	-9.00	169.00	-8.00
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.00	113.00	188.00	701.00	691.00	-9.00	-9.00	-9.00	585.00	21.90
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.00	-8.00	9.40	61.50	88.90	-9.00	-9.00	-9.00	102.00	6.80
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.00	-8.00	9.00	34.10	33.80	-9.00	-9.00	-9.00	40.50	-8.00
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.00	41.30	116.00	440.00	397.00	-9.00	-9.00	-9.00	450.00	20.10
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.00	-8.00	-8.00	-8.00	5.10	-9.00	-9.00	-9.00	7.30	-8.00
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	6.27	5.85	84.70	152.00	145.00	265.00	88.70	86.60	127.00	-8.00
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	6.85	13.00	84.20	180.00	193.00	324.00	112.00	117.00	163.00	-8.00
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	17.00	11.10	116.00	197.00	252.00	407.00	134.00	149.00	206.00	-8.00
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	13.80	-8.00	42.40	93.90	134.00	200.00	74.80	110.00	98.50	-8.00
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	13.20	-8.00	50.10	69.20	120.00	188.00	65.50	92.80	101.00	-8.00
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	17.80	5.65	31.70	76.00	135.00	194.00	72.10	109.00	95.40	-8.00
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	-8.00	-8.00	16.80	16.50	38.50	59.30	19.20	52.80	42.10	-8.00
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-8.00	-8.00	18.90	21.50	47.20	77.40	25.60	72.30	49.90	-8.00
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-8.00	-8.00	-8.00	28.80	53.00	81.70	25.70	90.70	59.80	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	6.99	-8.00	16.40	9.42	35.00	42.50	13.50	46.80	35.90	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	8.08	-8.00	13.80	5.27	28.80	36.30	9.50	32.80	37.40	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	7.47	-8.00	-8.00	9.64	31.80	39.80	11.50	47.60	40.60	-8.00
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	5.40	6.04	39.30	112.00	181.00	336.00	105.00	111.00	188.00	-8.00
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	8.22	6.88	66.10	113.00	247.00	371.00	117.00	158.00	220.00	-8.00

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	ACY	ACE	ANT	BAA	BAP	BBF	BKF	BGP	BEP	BPH
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	7.62	-8.00	31.80	102.00	189.00	330.00	104.00	148.00	189.00	-8.00
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	6.20	5.44	33.90	123.00	246.00	395.00	121.00	158.00	239.00	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	6.72	-8.00	-8.00	9.82	46.00	39.70	10.60	30.40	28.20	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	9.38	-8.00	7.12	13.30	62.20	46.00	13.20	36.50	36.40	-8.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	5.72	-8.00	-8.00	6.93	33.00	24.90	7.00	21.30	20.20	-8.00
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-8.00	-8.00	-8.00	19.80	63.60	59.00	18.90	47.80	35.80	-8.00
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-8.00	-8.00	5.16	23.70	72.10	69.70	23.20	55.50	40.90	-8.00
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-8.00	-8.00	-8.00	25.90	79.20	70.40	26.20	47.90	37.40	-8.00
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	7.59	5.52	53.20	157.00	263.00	299.00	106.00	193.00	250.00	7.50
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	7.20	-8.00	65.90	154.00	271.00	317.00	107.00	177.00	233.00	6.66
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	5.07	-8.00	43.70	109.00	186.00	225.00	82.70	137.00	174.00	5.16
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	34.10	55.80	210.00	743.00	1320.00	1620.00	563.00	1100.00	1150.00	27.40
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	36.00	60.70	286.00	696.00	1340.00	1680.00	576.00	1120.00	1140.00	30.70
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	37.10	66.20	325.00	706.00	1400.00	1730.00	591.00	1160.00	1180.00	31.90
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.00	-8.00	26.90	37.50	88.30	158.00	60.60	47.50	74.20	-8.00
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-8.00	-8.00	43.10	53.10	107.00	180.00	71.70	63.20	94.20	-8.00
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	6.56	5.39	84.20	128.00	209.00	356.00	128.00	76.50	138.00	-8.00
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-8.00	-8.00	7.39	37.70	64.70	93.90	32.60	67.00	54.30	-8.00
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-8.00	6.53	8.85	53.00	80.70	119.00	47.80	97.70	73.80	-8.00
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-8.00	6.09	14.00	92.00	156.00	205.00	71.80	142.00	128.00	5.87
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	5.82	-8.00	6.45	24.50	49.90	62.50	24.30	54.00	43.70	-8.00
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-8.00	-8.00	5.02	30.00	72.30	83.40	29.10	54.70	46.60	-8.00
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-8.00	-8.00	-8.00	19.90	37.40	47.50	18.40	43.20	33.90	-8.00
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	39.20	34.50	1050.00	1350.00	2190.00	3270.00	1190.00	917.00	1500.00	12.60
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	63.00	30.70	911.00	1200.00	1950.00	3230.00	1150.00	830.00	1390.00	10.70
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	26.00	22.40	344.00	382.00	1080.00	1670.00	601.00	450.00	754.00	7.26
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	9.89	-8.00	7.64	43.50	89.90	128.00	44.60	122.00	98.00	9.41
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-8.00	-8.00	7.53	46.00	127.00	164.00	57.30	117.00	97.80	7.68
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-8.00	-8.00	-8.00	42.50	97.20	145.00	49.30	124.00	101.00	8.66
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	8.75	-8.00	43.00	99.60	331.00	390.00	122.00	136.00	184.00	-8.00
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	11.00	8.50	55.70	117.00	360.00	374.00	118.00	157.00	198.00	-8.00
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	13.00	5.44	40.80	106.00	390.00	476.00	165.00	157.00	220.00	-8.00
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	5.84	-8.00	32.20	85.30	289.00	323.00	102.00	113.00	160.00	-8.00
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	5.07	-8.00	23.90	70.90	243.00	252.00	79.40	90.40	135.00	-8.00
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	6.74	-8.00	30.90	81.40	255.00	286.00	88.80	97.60	146.00	-8.00
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	6.91	-8.00	30.90	87.90	345.00	344.00	110.00	135.00	180.00	-8.00
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	7.16	-8.00	26.40	134.00	282.00	373.00	122.00	157.00	223.00	5.18
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-8.00	-8.00	15.50	80.40	171.00	248.00	79.40	95.30	147.00	-8.00

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	ACY	ACE	ANT	BAA	BAP	BBF	BKF	BGP	BEP	BPH
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-8.00	-8.00	5.55	37.90	67.20	103.00	38.40	90.60	64.70	-8.00
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-8.00	-8.00	5.80	30.20	61.30	90.20	34.60	79.60	58.00	5.22
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-8.00	-8.00	7.87	48.20	90.50	130.00	47.70	104.00	76.80	-8.00
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-8.00	-8.00	7.71	54.80	122.00	226.00	70.70	196.00	131.00	-8.00
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	9.69	9.07	7.12	74.40	183.00	276.00	116.00	241.00	171.00	-8.00
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-8.00	-8.00	-8.00	37.30	86.60	150.00	50.60	140.00	93.90	-8.00
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	10.20	34.30	66.80	240.00	394.00	510.00	179.00	400.00	308.00	16.70
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	12.50	16.80	57.50	224.00	340.00	535.00	178.00	436.00	326.00	21.60
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	17.50	20.20	103.00	260.00	341.00	591.00	205.00	503.00	392.00	20.20
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	172.00	80.60	1120.00	1700.00	2690.00	4210.00	1590.00	1110.00	1870.00	20.10
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	90.70	67.50	765.00	1360.00	1420.00	2490.00	924.00	531.00	1040.00	16.30
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.00	-8.00	-8.00	-8.00	-8.00	10.40	-8.00	-8.00	7.40	-8.00
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-8.00	-8.00	11.50	70.30	114.00	192.00	63.60	152.00	103.00	-8.00
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	-8.00	-8.00	14.40	107.00	123.00	188.00	58.50	156.00	126.00	8.62
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	12.20	8.15	118.00	362.00	430.00	387.00	116.00	331.00	390.00	9.43
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	53.60	29.70	199.00	594.00	107.00	1490.00	519.00	800.00	895.00	22.90
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	78.40	16.70	286.00	497.00	1000.00	1330.00	469.00	519.00	776.00	19.10
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	62.70	37.20	290.00	701.00	1110.00	1470.00	511.00	841.00	925.00	29.80
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	58.40	16.00	151.00	354.00	877.00	1200.00	413.00	561.00	725.00	15.80
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	50.50	35.80	247.00	633.00	911.00	1210.00	410.00	750.00	785.00	55.70
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-9.00	-9.00	-9.00	-9.00	1550.00	-9.00	-9.00	818.00	1320.00	-9.00
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	142.00	43.30	293.00	748.00	969.00	1480.00	494.00	915.00	948.00	30.50
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	175.00	259.00	690.00	1140.00	1520.00	2060.00	621.00	1090.00	1460.00	229.00
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-9.00	-9.00	-9.00	-9.00	2380.00	-9.00	-9.00	1240.00	2230.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-9.00	-9.00	-9.00	-9.00	1470.00	-9.00	-9.00	902.00	1630.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-9.00	-9.00	-9.00	-9.00	635.00	-9.00	-9.00	329.00	208.00	-9.00
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	29.20	19.10	145.00	479.00	615.00	787.00	260.00	568.00	562.00	14.80
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	44.90	35.30	217.00	700.00	968.00	1280.00	426.00	817.00	870.00	25.40
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	40.50	77.90	264.00	1290.00	1490.00	1980.00	660.00	1320.00	1230.00	37.00
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	22.60	21.00	140.00	342.00	475.00	680.00	206.00	416.00	467.00	15.40
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	2.11	1.15	5.10	29.00	31.80	93.70	29.40	65.80	63.00	0.99
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	1.94	1.66	5.19	22.00	25.10	63.30	20.70	48.40	44.70	1.33
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	2.82	1.46	4.92	26.90	23.80	84.70	30.40	67.10	60.30	1.79
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	3.89	2.01	8.98	40.90	35.30	108.00	36.10	71.00	70.00	1.56

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	ACY	ACE	ANT	BAA	BAP	BBF	BKF	BGP	BEP	BPH
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	7.64	6.83	29.00	134.00	133.00	304.00	93.60	178.00	192.00	7.22
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	4.24	3.00	15.70	58.20	94.10	151.00	44.20	109.00	110.00	7.87
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	4.43	2.78	16.20	58.50	98.00	150.00	48.60	111.00	110.00	6.62
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	2.09	1.06	5.11	25.50	26.40	63.40	21.30	49.50	47.30	2.67
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	6.57	1.01	7.01	32.50	43.50	54.70	17.30	46.20	38.20	1.38
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	3.49	1.39	5.81	27.70	29.70	66.10	21.50	44.20	45.80	2.03
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	3.14	1.10	6.22	24.30	14.90	47.10	46.10	48.60	45.10	1.09
48010.0	TURNING BASIN	1697	2/4/97	48.0	37.10	21.60	151.00	178.00	56.20	263.00	236.00	83.40	180.00	21.50
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	4.27	5.67	10.10	28.50	15.70	51.70	54.30	32.50	41.90	5.63
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	12.00	1.38	24.80	38.10	35.50	71.80	70.20	53.50	60.00	1.48
48011.0	KING HARBOR	1700	2/5/97	48.0	7.27	1.64	20.10	41.60	41.60	74.80	70.70	53.60	58.80	1.63
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	4.34	2.19	12.00	46.50	56.00	84.50	87.70	89.20	84.90	2.18
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	1.74	1.73	3.15	16.30	4.16	24.40	26.50	16.50	22.60	1.72
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	-8.00	-8.00	-8.00	2.21	2.18	4.13	3.41	4.79	3.39	-8.00
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	-8.00	-8.00	-8.00	3.09	3.02	4.86	6.70	4.87	5.30	-8.00
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	-8.00	-8.00	1.82	7.54	6.94	9.98	13.20	10.60	11.90	-8.00
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	-8.00	-8.00	2.55	7.54	6.86	7.86	9.35	7.50	9.76	-8.00
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	-8.00	-8.00	-8.00	5.07	6.83	8.28	10.20	11.30	11.20	-8.00
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	-8.00	-8.00	-8.00	2.89	3.59	5.78	5.81	5.68	5.99	-8.00
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	15.90	2.64	36.20	70.30	18.00	190.00	169.00	77.20	156.00	2.62
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	5.89	2.27	15.80	37.20	13.90	69.60	66.00	42.90	64.60	2.25
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	2.52	1.20	11.00	19.90	11.30	27.00	30.10	15.00	26.70	1.20
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-8.00	218.00	1940.00	5560.00	6400.00	3000.00	1560.00	5010.00	7110.00	507.00
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	7.54	10.10	120.00	217.00	235.00	205.00	188.00	142.00	229.00	14.90

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	CHR	COR	DBA	DBT	DMN	FLA	FLU	IND	MNP1	MNP2
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	1700.00	-9.00	180.00	-9.00	11.00	2000.00	150.00	-9.00	23.00	60.00
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	1600.00	-9.00	270.00	-9.00	9.50	1000.00	77.00	-9.00	8.50	26.00
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	4000.00	-9.00	510.00	-9.00	-8.00	4400.00	310.00	-9.00	25.00	70.00
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	370.00	-9.00	70.00	-9.00	5.60	280.00	21.00	-9.00	5.10	13.00
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	410.00	-9.00	48.00	-9.00	6.00	680.00	47.00	-9.00	7.60	20.00
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	190.00	-9.00	24.00	-9.00	-8.00	230.00	20.00	-9.00	-8.00	7.40
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	560.00	-9.00	73.00	-9.00	11.00	1200.00	70.00	-9.00	24.00	46.00
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	225.00	-9.00	62.40	-9.00	15.10	455.00	25.60	-9.00	20.40	40.50
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	410.00	-9.00	94.00	-9.00	19.00	490.00	26.00	-9.00	15.00	43.00
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	1100.00	-9.00	150.00	-9.00	47.00	1300.00	76.00	-9.00	74.00	230.00
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	1500.00	-9.00	200.00	-9.00	67.00	1700.00	97.00	-9.00	79.00	210.00
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	21.00	-9.00	7.40	-9.00	-8.00	35.00	-8.00	-9.00	-8.00	5.80
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	99.00	-9.00	35.00	-9.00	14.00	170.00	8.90	-9.00	12.00	23.00
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	500.00	-9.00	78.00	-9.00	6.70	537.00	50.20	-9.00	12.10	28.30
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	300.00	-9.00	41.00	-9.00	-8.00	260.00	18.00	-9.00	5.10	12.00
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	71.30	-9.00	14.90	-9.00	-8.00	89.80	-8.00	-9.00	-8.00	-8.00
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	101.00	-9.00	27.40	-9.00	-8.00	137.00	6.90	-9.00	-8.00	6.80
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	250.00	-9.00	55.00	-9.00	12.00	450.00	22.00	-9.00	27.00	51.00
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	150.00	-9.00	29.00	-9.00	5.80	400.00	19.00	-9.00	13.00	23.00
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	103.00	-9.00	29.40	-9.00	11.50	346.00	6.50	-9.00	20.10	35.90
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	500.00	-9.00	110.00	-9.00	18.00	290.00	31.00	-9.00	19.00	50.00
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	400.00	-9.00	71.00	-9.00	11.00	210.00	26.00	-9.00	14.00	36.00
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	81.00	-9.00	25.00	-9.00	-8.00	130.00	7.40	-9.00	-8.00	7.00
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	45.10	-9.00	13.10	-9.00	-8.00	107.00	-8.00	-9.00	-8.00	-8.00

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	CHR	COR	DBA	DBT	DMN	FLA	FLU	IND	MNP1	MNP2
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	90.00	-9.00	19.00	-9.00	8.30	160.00	21.00	-9.00	6.90	9.40
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	26.50	-9.00	14.60	-9.00	-8.00	54.10	-8.00	-9.00	-8.00	8.80
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	18.40	-9.00	6.70	-9.00	-8.00	44.60	-8.00	-9.00	-8.00	-8.00
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	50.80	-9.00	23.90	-9.00	-8.00	70.90	-8.00	-9.00	-8.00	9.80
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	1200.00	-9.00	170.00	-9.00	9.30	1700.00	46.00	-9.00	10.00	24.00
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	750.00	-9.00	210.00	-9.00	10.00	720.00	120.00	-9.00	9.70	21.00
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	1400.00	-9.00	290.00	-9.00	7.10	840.00	45.00	-9.00	16.00	36.00
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	16.20	-9.00	-8.00	-9.00	-8.00	38.60	-8.00	-9.00	-8.00	-8.00
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	5.80	-9.00	-8.00	-9.00	-8.00	17.50	-8.00	-9.00	-8.00	-8.00
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	11.00	-9.00	-8.00	-9.00	-8.00	11.00	-8.00	-9.00	-8.00	-8.00
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	79.00	-9.00	15.00	-9.00	-8.00	130.00	7.90	-9.00	-8.00	-8.00
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	9.70	-9.00	-8.00	-9.00	-8.00	22.20	-8.00	-9.00	-8.00	-8.00
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	22.10	-9.00	9.30	-9.00	-8.00	36.50	-8.00	-9.00	-8.00	5.00
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	1600.00	-9.00	310.00	-9.00	23.00	1500.00	120.00	-9.00	28.00	57.00
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	360.00	-9.00	128.00	-9.00	11.10	365.00	29.90	-9.00	14.40	32.60
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	494.00	-9.00	129.00	-9.00	8.80	432.00	26.10	-9.00	9.40	27.00
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	400.00	-9.00	100.00	-9.00	8.60	240.00	25.00	-9.00	8.20	21.00
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	150.00	-9.00	29.00	-9.00	13.00	200.00	36.00	-9.00	39.00	56.00
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	110.00	-9.00	25.10	-9.00	9.90	268.00	25.10	-9.00	34.90	45.50
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	100.00	-9.00	27.00	-9.00	18.00	180.00	24.00	-9.00	22.00	34.00
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	100.00	-9.00	28.00	-9.00	10.00	190.00	22.00	-9.00	19.00	30.00
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	44.00	-9.00	11.00	-9.00	15.00	72.00	9.60	-9.00	5.00	11.00
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	40.00	-9.00	12.00	-9.00	9.90	61.00	6.70	-9.00	-8.00	8.60
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	41.50	-9.00	10.40	-9.00	-8.00	69.60	-8.00	-9.00	-8.00	-8.00
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	42.00	-9.00	10.00	-9.00	6.40	63.00	5.70	-9.00	-8.00	5.70
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	45.00	-9.00	12.00	-9.00	-8.00	82.00	-8.00	-9.00	-8.00	6.40
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	12.80	-9.00	8.40	-9.00	-8.00	21.50	-8.00	-9.00	-8.00	11.10
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	16.00	-9.00	12.00	-9.00	-8.00	22.00	7.80	-9.00	-8.00	10.00
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	22.00	-9.00	9.90	-9.00	-8.00	18.00	-8.00	-9.00	-8.00	7.40
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	CHR	COR	DBA	DBT	DMN	FLA	FLU	IND	MNP1	MNP2
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	140.00	-9.00	15.00	-9.00	8.90	130.00	6.20	-9.00	-8.00	8.70
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	100.00	-9.00	27.00	-9.00	12.00	190.00	-8.00	-9.00	-8.00	11.00
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	73.20	-9.00	31.00	-9.00	6.90	174.00	-8.00	-9.00	-8.00	11.90
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	79.00	-9.00	14.00	-9.00	-8.00	110.00	-8.00	-9.00	-8.00	5.90
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	200.00	-9.00	43.00	-9.00	11.00	370.00	8.60	-9.00	15.00	28.00
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44014.0	MARINA DEL REY	614	1/14/93	11.0	165.00	-9.00	32.40	-9.00	-8.00	332.00	7.00	-9.00	5.60	15.10
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44017.0	COLORADO LAGOON	617	1/14/93	11.0	889.00	-9.00	125.00	-9.00	34.10	2330.00	95.60	-9.00	34.30	71.80
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44020.0	SHORELINE MARINA	620	1/14/93	11.0	92.40	-9.00	20.00	-9.00	5.40	141.00	5.90	-9.00	9.60	20.00
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	49.60	-9.00	8.20	-9.00	-8.00	80.80	-8.00	-9.00	9.00	10.40
44024.0	BALLONA CREEK	624	1/14/93	11.0	629.00	-9.00	76.10	-9.00	45.20	1440.00	71.70	-9.00	53.50	132.00
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	7.90	-9.00	-8.00	-9.00	-8.00	12.50	-8.00	-9.00	-8.00	5.30
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	177.00	-9.00	28.90	-9.00	5.91	388.00	9.96	75.90	8.66	14.40
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	183.00	-9.00	37.70	-9.00	5.79	514.00	16.40	110.00	7.30	13.80
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	244.00	-9.00	45.30	-9.00	7.19	543.00	22.40	131.00	13.50	24.80
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	135.00	-9.00	27.60	-9.00	-8.00	198.00	5.44	98.30	-8.00	7.60
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	99.50	-9.00	22.60	-9.00	-8.00	161.00	5.00	78.00	-8.00	8.32
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	123.00	-9.00	26.90	-9.00	-8.00	196.00	7.11	87.80	5.69	9.32
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	22.80	-9.00	11.40	-9.00	-8.00	70.50	-8.00	36.20	-8.00	9.59
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	37.80	-9.00	13.50	-9.00	-8.00	118.00	-8.00	47.40	6.13	7.86
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	43.50	-9.00	14.10	-9.00	-8.00	77.70	-8.00	56.10	-8.00	7.37
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	7.50	-9.00	11.20	-9.00	5.04	38.40	-8.00	21.80	5.03	13.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-8.00	-9.00	7.90	-9.00	-8.00	37.40	-8.00	17.70	-8.00	7.87
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	11.60	-9.00	13.20	-9.00	-8.00	17.80	-8.00	24.80	-8.00	8.22
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	134.00	-9.00	35.10	-9.00	-8.00	433.00	8.35	89.90	9.52	17.10
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	119.00	-9.00	49.80	-9.00	8.76	497.00	-8.00	122.00	19.10	31.20

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	CHR	COR	DBA	DBT	DMN	FLA	FLU	IND	MNP1	MNP2
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	113.00	-9.00	39.30	-9.00	-8.00	407.00	5.19	114.00	10.70	16.00
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	143.00	-9.00	55.70	-9.00	10.40	423.00	8.57	123.00	20.70	35.10
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	11.90	-9.00	-8.00	-9.00	-8.00	17.90	-8.00	22.60	5.03	9.35
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	15.30	-9.00	12.40	-9.00	-8.00	21.40	-8.00	27.30	-8.00	10.50
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	8.10	-9.00	-8.00	-9.00	-8.00	11.30	-8.00	15.30	-8.00	6.70
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	29.90	-9.00	-8.00	-9.00	-8.00	51.70	-8.00	39.10	5.18	8.44
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	34.50	-9.00	11.70	-9.00	-8.00	59.50	-8.00	47.00	5.42	8.60
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	35.50	-9.00	10.60	-9.00	-8.00	58.10	-8.00	43.60	-8.00	7.81
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	272.00	-9.00	86.10	-9.00	8.46	139.00	14.50	111.00	20.30	39.80
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	268.00	-9.00	74.40	-9.00	7.98	121.00	14.00	113.00	14.30	36.20
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	181.00	-9.00	67.30	-9.00	5.08	109.00	8.64	93.20	14.20	29.60
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	993.00	-9.00	378.00	-9.00	81.70	1410.00	51.70	890.00	76.60	245.00
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	849.00	-9.00	329.00	-9.00	74.80	1360.00	57.50	873.00	88.50	254.00
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	918.00	-9.00	337.00	-9.00	93.40	1510.00	65.90	917.00	90.80	272.00
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	68.70	-9.00	15.00	-9.00	-8.00	70.20	-8.00	52.70	-8.00	-8.00
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	106.00	-9.00	20.90	-9.00	-8.00	99.50	7.49	68.20	-8.00	5.27
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	239.00	-9.00	30.40	-9.00	-8.00	223.00	15.20	86.80	-8.00	7.92
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	62.70	-9.00	14.90	-9.00	-8.00	115.00	5.01	41.60	5.09	11.00
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	72.50	-9.00	21.40	-9.00	8.07	133.00	5.48	78.90	7.78	11.40
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	146.00	-9.00	41.10	-9.00	44.80	234.00	9.89	95.30	9.60	20.50
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	36.90	-9.00	10.80	-9.00	6.66	63.20	-8.00	44.60	8.09	9.27
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	46.70	-9.00	14.20	-9.00	25.30	66.90	-8.00	39.90	5.76	8.86
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	33.50	-9.00	-8.00	-9.00	-8.00	54.10	-8.00	35.20	5.85	7.10
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	2040.00	-9.00	366.00	-9.00	9.96	2300.00	175.00	1190.00	12.60	40.60
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	2310.00	-9.00	341.00	-9.00	7.27	1910.00	129.00	1010.00	9.81	30.30
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	677.00	-9.00	187.00	-9.00	-8.00	571.00	54.70	621.00	8.25	19.20
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	57.30	-9.00	27.10	-9.00	6.77	133.00	6.10	97.20	15.50	24.50
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	73.80	-9.00	31.00	-9.00	5.37	107.00	5.90	84.80	13.10	20.70
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	65.80	-9.00	23.10	-9.00	-8.00	101.00	5.99	91.90	15.60	21.60
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	131.00	-9.00	53.90	-9.00	6.70	297.00	6.96	134.00	16.10	27.10
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	135.00	-9.00	59.50	-9.00	9.03	376.00	11.10	159.00	22.30	36.90
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	133.00	-9.00	73.40	-9.00	5.72	301.00	7.77	163.00	19.30	30.10
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	98.50	-9.00	40.30	-9.00	-8.00	314.00	5.30	115.00	13.40	21.80
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	75.60	-9.00	31.50	-9.00	-8.00	269.00	-8.00	91.90	9.84	15.90
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	89.90	-9.00	34.20	-9.00	-8.00	319.00	5.76	99.40	9.90	17.00
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	103.00	-9.00	52.50	-9.00	7.62	273.00	6.64	133.00	16.40	27.50
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	152.00	-9.00	54.20	-9.00	10.80	353.00	6.67	129.00	20.20	33.00
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	89.30	-9.00	32.80	-9.00	6.53	232.00	-8.00	77.40	14.10	24.00

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	CHR	COR	DBA	DBT	DMN	FLA	FLU	IND	MNP1	MNP2
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	58.30	-9.00	16.70	-9.00	-8.00	131.00	-8.00	80.40	6.21	12.40
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	48.10	-9.00	17.90	-9.00	-8.00	111.00	-8.00	63.80	5.90	10.30
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	56.90	-9.00	22.90	-9.00	-8.00	166.00	-8.00	92.50	5.83	13.00
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	71.40	-9.00	32.30	-9.00	-8.00	199.00	-8.00	177.00	7.66	14.50
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	121.00	-9.00	42.50	-9.00	-8.00	213.00	-8.00	189.00	10.70	14.20
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	52.70	-9.00	24.20	-9.00	-8.00	137.00	-8.00	119.00	6.67	8.90
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	350.00	-9.00	95.10	-9.00	74.80	675.00	43.10	291.00	25.00	65.40
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	267.00	-9.00	81.20	-9.00	23.60	663.00	28.40	332.00	23.50	76.70
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	392.00	-9.00	83.70	-9.00	77.40	791.00	27.70	317.00	37.10	93.00
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	3210.00	135.00	549.00	55.40	20.20	2640.00	234.00	1540.00	13.20	46.70
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	2130.00	66.10	248.00	53.50	16.40	2350.00	154.00	761.00	14.20	35.40
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	5.67	-8.00	-8.00	-8.00	-8.00	9.51	-8.00	5.16	-8.00	-8.00
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	5.55
44014.0	MARINA DEL REY	1630	6/19/96	45.0	79.70	83.10	32.50	-8.00	-8.00	117.00	-8.00	124.00	-8.00	9.20
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	98.80	70.50	36.80	7.25	65.10	128.00	8.53	113.00	13.00	27.00
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	540.00	57.20	180.00	34.40	39.70	183.00	28.40	151.00	38.90	103.00
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	778.00	258.00	291.00	40.30	52.70	688.00	34.60	697.00	48.40	143.00
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	534.00	129.00	210.00	20.00	45.70	401.00	42.00	474.00	36.90	90.30
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	879.00	301.00	301.00	62.50	75.10	1070.00	56.60	693.00	68.20	183.00
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	492.00	168.00	216.00	24.00	42.60	389.00	27.40	494.00	36.90	106.00
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	768.00	280.00	266.00	56.00	76.10	931.00	53.60	577.00	55.40	160.00
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-9.00	189.00	345.00	-9.00	-9.00	-9.00	-9.00	615.00	-9.00	-9.00
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	1210.00	346.00	701.00	88.10	95.60	1390.00	79.40	716.00	67.80	193.00
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	1500.00	352.00	314.00	244.00	1430.00	1660.00	612.00	757.00	954.00	855.00
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-9.00	218.00	441.00	-9.00	-9.00	-9.00	-9.00	468.00	-9.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-9.00	215.00	450.00	-9.00	-9.00	-9.00	-9.00	352.00	-9.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-9.00	65.80	145.00	-9.00	-9.00	-9.00	-9.00	216.00	-9.00	-9.00
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	577.00	212.00	196.00	48.70	46.70	723.00	30.10	426.00	44.90	121.00
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	837.00	299.00	283.00	51.10	78.00	897.00	46.10	642.00	61.20	175.00
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	972.00	525.00	454.00	105.00	132.00	1490.00	92.20	1060.00	84.50	258.00
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	390.00	125.00	149.00	41.80	48.20	560.00	40.30	323.00	34.00	97.00
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	52.20	23.20	10.30	2.45	3.12	85.30	1.94	50.30	3.28	8.01
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	40.90	19.60	7.49	2.61	3.25	67.00	3.57	35.00	3.83	10.20
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	51.50	23.30	10.70	2.73	4.78	77.30	2.58	48.40	3.97	12.10
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	74.20	26.10	12.30	3.19	5.20	105.00	2.75	53.40	4.46	11.60

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	CHR	COR	DBA	DBT	DMN	FLA	FLU	IND	MNP1	MNP2
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	229.00	36.20	33.00	11.90	13.50	405.00	10.60	128.00	12.50	34.50
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	97.30	40.20	22.20	7.48	12.90	144.00	7.69	78.10	9.15	27.30
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	99.60	32.00	23.60	7.31	11.30	145.00	6.66	80.10	13.50	32.00
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	48.10	16.50	12.10	3.19	4.50	55.20	2.22	34.70	4.36	11.30
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	46.70	10.20	7.79	2.16	3.91	77.90	1.85	36.00	3.45	7.74
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	47.50	14.00	8.81	3.29	5.84	72.00	3.01	34.10	3.95	8.91
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	51.90	12.30	9.69	2.23	4.47	81.10	1.81	43.40	2.70	5.94
48010.0	TURNING BASIN	1697	2/4/97	48.0	385.00	8.73	30.30	12.90	5.91	492.00	44.80	106.00	5.73	12.90
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	54.50	5.85	9.40	3.79	2.55	89.80	4.46	34.70	4.39	5.78
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	72.70	9.28	14.10	2.51	5.20	79.90	3.46	49.50	2.97	6.40
48011.0	KING HARBOR	1700	2/5/97	48.0	67.80	10.70	10.90	2.08	4.09	93.90	2.54	52.70	2.66	7.79
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	90.90	20.10	17.20	4.00	3.69	156.00	2.79	72.40	4.72	8.29
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	36.00	2.70	3.74	2.70	5.55	58.00	2.87	16.30	9.65	9.01
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	4.73	8.78	-8.00	-8.00	-8.00	7.87	-8.00	2.93	-8.00	-8.00
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	6.98	-8.00	0.82	-8.00	-8.00	12.40	-8.00	3.68	-8.00	-8.00
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	15.90	-8.00	1.82	1.26	-8.00	26.60	1.56	8.60	-8.00	-8.00
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	15.00	-8.00	1.40	1.33	-8.00	27.90	2.82	8.72	-8.00	-8.00
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	13.30	-8.00	1.64	-8.00	-8.00	21.80	-8.00	8.41	-8.00	-8.00
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	8.90	-8.00	-8.00	-8.00	-8.00	13.10	-8.00	4.68	-8.00	-8.00
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	171.00	8.49	24.30	3.53	13.60	353.00	4.63	79.40	10.50	17.40
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	82.20	6.62	10.70	4.14	19.90	122.00	5.81	30.50	18.90	26.30
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	40.30	2.57	4.74	2.57	8.57	74.60	3.44	12.20	10.80	14.10
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	12900.00	169.00	3460.00	749.00	10300.00	1500.00	1300.00	1510.00	11900.00	15700.00
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	385.00	12.50	57.70	32.30	203.00	407.00	36.40	85.80	216.00	301.00

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	MPH1	NPH	PHN	PER	PYR	TMN	TRY	PAHBATCH	SODATAQA
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	60.00	-9.00	660.00	370.00	1400.00	-9.00	-9.00	-9	-9
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	36.00	-9.00	350.00	450.00	1300.00	-9.00	-9.00	-9	-9
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	130.00	-9.00	1400.00	820.00	2900.00	-9.00	-9.00	-9	-9
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	12.00	-9.00	84.00	140.00	370.00	-9.00	-9.00	-9	-9
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	20.00	-9.00	220.00	120.00	440.00	-9.00	-9.00	-9	-9
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	7.50	-9.00	84.00	55.00	160.00	-9.00	-9.00	-9	-9
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	48.00	-9.00	360.00	910.00	1200.00	-9.00	-9.00	-9	-9
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	22.80	-9.00	145.00	648.00	416.00	-9.00	-9.00	73.10	-9
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	30.00	-9.00	180.00	130.00	580.00	-9.00	-9.00	-9	-9
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	130.00	-9.00	480.00	190.00	1400.00	-9.00	-9.00	-9	-9
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	160.00	-9.00	610.00	250.00	2200.00	-9.00	-9.00	-9	-9
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-8.00	-9.00	10.00	57.00	38.00	-9.00	-9.00	-9	-9
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	12.00	-9.00	53.00	500.00	160.00	-9.00	-9.00	-9	-9
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	25.20	-9.00	271.00	113.00	562.00	-9.00	-9.00	73.10	-9
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	12.00	-9.00	110.00	68.00	250.00	-9.00	-9.00	-9	-9
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-8.00	-9.00	25.10	25.90	103.00	-9.00	-9.00	73.17	-9
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	5.80	-9.00	63.10	33.90	149.00	-9.00	-9.00	73.10	-9
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	22.00	-9.00	76.00	930.00	440.00	-9.00	-9.00	-9	-9
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	14.00	-9.00	44.00	850.00	390.00	-9.00	-9.00	-9	-9
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	12.60	-9.00	47.30	767.00	336.00	-9.00	-9.00	73.20	-9
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	29.00	-9.00	180.00	73.00	340.00	-9.00	-9.00	-9	-9
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	19.00	-9.00	110.00	65.00	230.00	-9.00	-9.00	-9	-9
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	15.00	-9.00	75.00	130.00	150.00	-9.00	-9.00	-9	-9
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	9.10	-9.00	56.50	86.20	121.00	-9.00	-9.00	73.20	-9

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	MPH1	NPH	PHN	PER	PYR	TMN	TRY	PAHBATCH	SODATAQA
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	16.00	-9.00	120.00	90.00	170.00	-9.00	-9.00	-9	-9
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-8.00	-9.00	16.40	303.00	64.60	-9.00	-9.00	73.20	-9
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-8.00	-9.00	14.00	123.00	63.00	-9.00	-9.00	73.20	-9
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-8.00	-9.00	33.10	306.00	81.40	-9.00	-9.00	73.10	-9
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	49.00	-9.00	280.00	470.00	1800.00	-9.00	-9.00	-9	-9
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	48.00	-9.00	250.00	370.00	1000.00	-9.00	-9.00	-9	-9
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	57.00	-9.00	290.00	530.00	1500.00	-9.00	-9.00	-9	-9
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	6.90	-9.00	25.50	21.50	44.10	-9.00	-9.00	73.10	-9
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-8.00	-9.00	5.60	28.20	17.40	-9.00	-9.00	73.30	-9
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.00	-9.00	-8.00	20.00	12.00	-9.00	-9.00	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	17.00	-9.00	48.00	59.00	130.00	-9.00	-9.00	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-8.00	-9.00	6.80	42.20	22.60	-9.00	-9.00	73.20	-9
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	5.10	-9.00	7.10	69.50	39.20	-9.00	-9.00	73.90	-9
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	69.00	-9.00	590.00	360.00	1600.00	-9.00	-9.00	-9	-9
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	20.80	-9.00	199.00	135.00	410.00	-9.00	-9.00	73.10	-9
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	26.20	-9.00	196.00	144.00	424.00	-9.00	-9.00	73.20	-9
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	13.00	-9.00	100.00	130.00	280.00	-9.00	-9.00	-9	-9
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	33.00	-9.00	140.00	62.00	220.00	-9.00	-9.00	-9	-9
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	31.30	-9.00	161.00	51.80	275.00	-9.00	-9.00	73.20	-9
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	15.00	-9.00	88.00	53.00	190.00	-9.00	-9.00	-9	-9
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	24.00	-9.00	94.00	52.00	210.00	-9.00	-9.00	-9	-9
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	15.00	-9.00	39.00	33.00	92.00	-9.00	-9.00	-9	-9
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	5.00	-9.00	28.00	24.00	74.00	-9.00	-9.00	-9	-9
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-8.00	-9.00	35.20	16.40	73.20	-9.00	-9.00	73.10	-9
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	5.30	-9.00	32.00	18.00	68.00	-9.00	-9.00	-9	-9
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	6.60	-9.00	39.00	21.00	94.00	-9.00	-9.00	-9	-9
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-8.00	-9.00	14.60	41.20	38.40	-9.00	-9.00	73.20	-9
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-8.00	-9.00	21.00	45.00	35.00	-9.00	-9.00	-9	-9
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-8.00	-9.00	14.00	40.00	27.00	-9.00	-9.00	-9	-9
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	MPH1	NPH	PHN	PER	PYR	TMN	TRY	PAHBATCH	SODATAQA
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	5.90	-9.00	34.00	22.00	130.00	-9.00	-9.00	-9	-9
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	11.00	-9.00	76.00	30.00	190.00	-9.00	-9.00	-9	-9
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	8.40	-9.00	72.50	28.60	182.00	-9.00	-9.00	73.10	-9
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	5.20	-9.00	40.00	23.00	110.00	-9.00	-9.00	-9	-9
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	17.00	-9.00	49.00	710.00	340.00	-9.00	-9.00	-9	-9
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	17.20	-9.00	128.00	60.90	380.00	-9.00	-9.00	72.10	-4
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	180.00	-9.00	1770.00	231.00	2210.00	-9.00	-9.00	72.10	-4
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	11.40	-9.00	61.60	43.10	185.00	-9.00	-9.00	72.10	-4
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-8.00	-9.00	34.70	38.40	95.40	-9.00	-9.00	72.10	-4
44024.0	BALLONA CREEK	624	1/14/93	11.0	191.00	-9.00	905.00	185.00	1470.00	-9.00	-9.00	72.10	-4
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	6.80	-9.00	14.10	5.90	13.70	-9.00	-9.00	72.10	-4
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	22.40	23.80	78.50	475.00	409.00	-8.00	-9.00	73.60	-4
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	32.70	11.80	164.00	431.00	565.00	-8.00	-9.00	73.80	-4
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	21.00	16.40	121.00	596.00	596.00	5.95	-9.00	73.10	-4
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	18.80	6.17	61.00	36.00	206.00	-8.00	-9.00	73.60	-4
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	15.50	9.34	51.20	34.90	190.00	-8.00	-9.00	73.80	-4
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	12.00	13.10	87.30	39.30	196.00	-8.00	-9.00	73.10	-4
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	14.60	8.56	30.90	24.30	85.40	-8.00	-9.00	73.60	-4
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	18.10	10.90	44.00	33.10	137.00	-8.00	-9.00	73.80	-4
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	6.23	9.89	30.60	29.60	95.90	-8.00	-9.00	73.11	-4
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	16.10	9.84	24.20	123.00	49.30	-8.00	-9.00	73.60	-4
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	13.20	7.86	20.90	33.50	53.70	-8.00	-9.00	73.80	-4
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-8.00	7.66	9.80	44.40	30.30	-8.00	-9.00	73.11	-4
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	13.80	10.90	59.30	1110.00	427.00	-8.00	-9.00	73.12	-4
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	30.50	16.50	69.40	1020.00	514.00	6.07	-9.00	73.80	-4

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	MPH1	NPH	PHN	PER	PYR	TMN	TRY	PAHBATCH	SODATAQA
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	11.40	11.90	36.00	1130.00	399.00	-8.00	-9.00	73.11	-4
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	17.20	19.60	58.70	1240.00	422.00	8.15	-9.00	73.12	-4
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	-8.00	8.42	12.10	40.70	26.30	-8.00	-9.00	73.21	-5
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	-8.00	9.23	15.60	51.50	33.60	-8.00	-9.00	73.21	-5
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-8.00	6.16	8.20	30.10	18.00	-8.00	-9.00	73.22	-5
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-8.00	9.15	22.10	22.90	59.10	-8.00	-9.00	73.21	-5
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	5.52	9.30	29.00	26.70	71.90	-8.00	-9.00	73.21	-5
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-8.00	8.48	24.00	23.50	71.00	-8.00	-9.00	73.22	-5
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	25.30	32.80	115.00	55.70	200.00	-8.00	-9.00	73.28	-5
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	22.50	27.80	116.00	65.70	207.00	-8.00	-9.00	73.27	-5
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	28.70	24.30	90.80	43.80	172.00	-8.00	-9.00	73.31	-5
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	67.40	127.00	448.00	329.00	1650.00	21.80	-9.00	73.23	-5
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	158.00	130.00	770.00	330.00	1670.00	31.00	-9.00	73.27	-5
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	217.00	124.00	1170.00	324.00	1780.00	26.20	-9.00	73.28	-5
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	5.04	5.41	31.20	40.60	52.90	-8.00	-9.00	73.27	-5
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	6.89	5.84	43.00	46.60	94.90	-8.00	-9.00	73.28	-5
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	9.72	9.10	80.00	72.80	140.00	-8.00	-9.00	73.32	-5
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	9.22	11.60	52.40	23.70	119.00	-8.00	-9.00	73.33	-5
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	21.00	14.10	92.40	30.80	143.00	-8.00	-9.00	73.28	-5
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	17.50	20.20	98.20	49.30	243.00	-8.00	-9.00	73.32	-5
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	11.50	12.30	31.20	38.10	70.20	-8.00	-9.00	73.28	-5
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	5.96	10.90	23.20	42.60	75.00	-8.00	-9.00	73.32	-5
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	6.61	9.96	17.60	29.10	56.00	-8.00	-9.00	73.31	-5
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	101.00	34.50	885.00	566.00	1270.00	-8.00	-9.00	73.31	-5
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	63.10	25.80	642.00	545.00	1190.00	-8.00	-9.00	73.32	-5
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	39.50	19.80	361.00	285.00	581.00	-8.00	-9.00	73.30	-5
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	13.10	24.50	62.50	40.20	141.00	-8.00	-9.00	73.31	-5
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	10.80	20.50	50.10	45.40	133.00	-8.00	-9.00	73.32	-5
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	11.50	22.80	58.20	44.80	132.00	-8.00	-9.00	73.27	-5
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	13.60	16.80	50.70	1090.00	288.00	5.55	-9.00	73.21	-5
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	19.90	22.30	92.60	1120.00	340.00	9.02	-9.00	73.22	-5
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	18.20	20.00	54.00	1070.00	286.00	7.27	-9.00	73.21	-5
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	9.46	13.80	34.40	985.00	297.00	-8.00	-9.00	73.22	-5
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	8.06	10.30	27.30	903.00	258.00	-8.00	-9.00	73.21	-5
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	10.10	11.00	35.60	906.00	287.00	-8.00	-9.00	73.22	-5
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	12.50	15.80	46.50	950.00	240.00	5.79	-9.00	73.22	-5
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	15.40	20.80	54.20	1010.00	305.00	7.84	-9.00	73.23	-5
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	7.93	13.80	30.30	544.00	209.00	-8.00	-9.00	73.23	-5

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	MPH1	NPH	PHN	PER	PYR	TMN	TRY	PAHBATCH	SODATAQA
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	9.46	12.20	59.90	18.00	119.00	-8.00	-9.00	73.30	-5
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	8.88	12.00	45.20	16.40	102.00	-8.00	-9.00	73.31	-5
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	23.60	13.50	87.40	22.90	152.00	-8.00	-9.00	73.31	-5
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	13.80	18.70	83.00	40.60	202.00	-8.00	-9.00	73.30	-5
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	11.20	21.50	92.80	53.10	237.00	-8.00	-9.00	73.29	-5
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	10.60	14.10	56.10	29.70	141.00	-8.00	-9.00	73.31	-5
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	74.90	56.70	465.00	118.00	703.00	13.50	-9.00	73.32	-5
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	111.00	69.10	429.00	112.00	655.00	15.00	-9.00	73.30	-5
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	140.00	69.70	585.00	142.00	823.00	19.70	-9.00	73.29	-5
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	75.09	-5
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	75.09	-5
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	-9.00	75.09	-5
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	114.00	20.40	1170.00	658.00	1990.00	5.62	732.00	75.11	-5
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	75.60	19.20	791.00	367.00	1430.00	-8.00	542.00	75.11	-5
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-8.00	-8.00	10.30	8.40	10.50	-8.00	5.40	75.11	-5
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-8.00	6.87	-8.00	-8.00	-8.00	-8.00	-8.00	75.12	-5
44014.0	MARINA DEL REY	1630	6/19/96	45.0	7.87	8.09	54.50	43.20	137.00	-8.00	28.80	75.11	-5
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	10.10	21.20	55.80	57.80	160.00	-8.00	47.90	75.10	-5
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	45.10	51.30	174.00	84.70	287.00	8.56	78.50	75.11	-5
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	56.80	81.50	338.00	282.00	1320.00	34.00	239.00	75.10	-5
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	77.60	68.90	210.00	252.00	2270.00	142.00	192.00	75.10	-5
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	85.70	105.00	457.00	323.00	1550.00	48.90	368.00	75.11	-5
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	36.00	63.70	219.00	239.00	1750.00	31.90	118.00	75.10	-5
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	85.70	92.80	430.00	246.00	1470.00	60.40	310.00	75.11	-5
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-9.00	-9.00	-9.00	488.00	-9.00	-9.00	-9.00	75.10	-5
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	183.00	110.00	634.00	250.00	1900.00	98.20	391.00	75.11	-5
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	1130.00	515.00	1710.00	405.00	3940.00	1120.00	584.00	75.12	-5
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-9.00	-9.00	-9.00	839.00	-9.00	-9.00	-9.00	75.10	-5
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-9.00	-9.00	-9.00	741.00	-9.00	-9.00	-9.00	75.10	-5
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-9.00	-9.00	-9.00	311.00	-9.00	-9.00	-9.00	75.11	-5
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	70.70	70.20	303.00	175.00	1050.00	62.30	246.00	75.10	-5
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	66.80	100.00	405.00	261.00	1510.00	38.80	393.00	75.10	-5
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	144.00	149.00	668.00	375.00	1980.00	68.50	426.00	75.11	-5
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	58.30	51.30	183.00	185.00	672.00	59.00	204.00	75.10	-5
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	5.11	8.58	31.00	19.40	99.40	1.75	-9.00	97-319	-5
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	5.76	8.48	33.10	19.50	77.90	1.58	-9.00	97-319	-5
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	6.75	8.37	29.30	22.80	95.40	2.14	-9.00	97-319	-5
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	7.84	8.32	44.40	28.30	121.00	1.81	-9.00	97-319	-5

PAH Concentrations (ppb)

STANUM	STATION	IDORG	DATE	LEG	MPH1	NPH	PHN	PER	PYR	TMN	TRY	PAHBATCH	SODATAQA
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	34.70	29.30	160.00	75.00	456.00	5.92	-9.00	97-319	-5
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	14.90	18.80	67.60	43.50	174.00	7.82	-9.00	97-319	-5
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	13.90	19.50	63.90	47.50	179.00	6.44	-9.00	97-319	-5
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	5.26	9.55	28.10	15.40	66.40	2.14	-9.00	97-319	-5
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	6.27	8.43	22.50	20.60	102.00	3.73	-9.00	97-319	-5
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	6.35	9.15	32.30	19.90	84.20	2.97	-9.00	97-319	-5
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	5.56	8.33	31.10	13.30	87.30	1.33	-9.00	97-325	-5
48010.0	TURNING BASIN	1697	2/4/97	48.0	16.50	9.39	239.00	38.80	277.00	2.90	-9.00	97-325	-5
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	9.65	8.70	61.30	21.50	95.10	1.83	-9.00	97-325	-5
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	5.98	6.77	28.60	20.40	87.30	3.44	-9.00	97-325	-5
48011.0	KING HARBOR	1700	2/5/97	48.0	8.53	7.89	31.50	15.30	89.30	1.21	-9.00	97-325	-5
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	7.95	12.60	68.90	24.70	168.00	2.11	-9.00	97-325	-5
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	6.47	11.20	37.20	20.20	55.60	1.80	-9.00	97-325	-5
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	-8.00	3.92	4.17	2.16	7.66	-8.00	-9.00	97-325	-5
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	-8.00	3.76	6.94	4.24	12.20	-8.00	-9.00	97-325	-5
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	2.04	3.35	13.70	4.14	27.60	-8.00	-9.00	97-325	-5
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	2.04	3.99	15.00	6.44	27.10	-8.00	-9.00	97-325	-5
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	1.51	5.62	12.00	4.83	21.60	-8.00	-9.00	97-325	-5
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	1.02	3.30	6.87	3.19	13.60	-8.00	-9.00	97-325	-5
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	9.98	12.50	45.00	198.00	239.00	22.40	-9.00	97-325	-5
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	9.80	17.20	41.90	55.60	87.90	58.40	-9.00	97-325	-5
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	5.66	11.60	22.40	57.20	51.90	32.90	-9.00	97-325	-5
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	3250.00	7100.00	5980.00	1450.00	3860.00	33900.00	-9.00	98-007	-5
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	70.20	144.00	194.00	429.00	358.00	783.00	-9.00	98-007	-5

Section 7

Chemistry Summations and Quotients

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	TTL_CHLR	TTL_DDT	TTL_PCB	LMW_PAH	HMW_PAH	TTL_PAH	ANTIMOQE	ARSENIQE
40001.1	SOUTHWEST SLIP	1	7/29/92	1	2.400	127.80	155.600	1686.00	8670.00	10356.00	0.840	0.200
40001.2	SOUTHWEST SLIP	2	7/29/92	1	2.600	141.60	184.900	925.30	8480.00	9405.30	0.960	0.186
40001.3	SOUTHWEST SLIP	3	7/29/92	1	4.600	124.10	192.100	3490.50	20630.00	24120.50	0.800	0.214
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	2.300	61.60	103.400	246.40	2210.00	2456.40	0.520	0.134
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	0.750	66.70	48.200	533.10	2508.00	3041.10	0.520	0.111
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.500	25.30	47.400	194.90	1019.00	1213.90	0.280	0.084
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	1.400	348.70	149.300	843.80	5123.00	5966.80	0.800	0.243
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	1.150	302.00	261.200	401.20	2487.40	2888.60	0.560	0.243
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	9.900	162.90	203.200	414.30	2864.00	3278.30	0.800	0.124
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	50.000	516.70	473.800	1255.00	6120.00	7375.00	1.480	0.257
40006.2	CONSOLIDATED SLIP	17	7/31/92	1	46.000	498.50	534.500	1524.00	8690.00	10214.00	1.760	0.243
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.500	133.40	20.300	33.30	233.40	266.70	0.360	0.071
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	1.500	508.40	123.700	152.90	1285.00	1437.90	0.600	0.200
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.500	45.10	63.800	631.60	2800.00	3431.60	0.844	0.200
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.500	37.90	54.800	260.10	1509.00	1769.10	0.720	0.157
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.500	32.70	41.300	56.50	506.00	562.50	0.764	0.143
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.500	35.40	37.600	127.10	714.80	841.90	0.608	0.143
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	1.300	267.50	110.600	281.20	2885.00	3166.20	0.520	0.257
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.950	207.30	93.600	165.40	2279.00	2444.40	0.560	0.214
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	1.350	203.70	95.000	173.10	2011.10	2184.20	0.472	0.214
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.500	70.80	22.500	484.60	2223.00	2707.60	0.800	0.186
40012.2	SOUTHEAST BASIN	35	8/18/92	2	0.500	72.00	34.300	308.60	1686.00	1994.60	0.840	0.186
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.500	83.00	65.400	132.30	787.00	919.30	0.560	0.143
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.500	54.90	50.400	93.20	547.60	640.80	0.404	0.133
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.500	40.40	44.100	233.10	755.00	988.10	0.480	0.096
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	0.500	141.80	70.700	49.30	593.80	643.10	0.512	0.171

Chemistry Summations and Quotients

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40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.500	34.90	36.800	37.60	344.50	382.10	0.548	0.109
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.500	117.30	75.400	76.60	739.70	816.30	0.716	0.200
40019.1	INNER FISH HARBOR	55	8/19/92	2	1.900	239.50	352.000	860.30	8110.00	8970.30	0.840	0.271
40019.2	INNER FISH HARBOR	56	8/19/92	2	1.800	235.50	362.000	689.10	5220.00	5909.10	1.200	0.229
40019.3	INNER FISH HARBOR	57	8/19/92	2	2.800	312.90	467.300	768.10	8300.00	9068.10	1.640	0.486
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.500	102.30	16.800	53.60	168.90	222.50	0.464	0.099
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.500	111.10	17.600	25.60	102.50	128.10	0.396	0.090
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	0.500	99.80	-9.000	22.50	87.60	110.10	0.240	0.071
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.500	89.10	17.700	99.40	598.00	697.40	0.160	0.086
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.500	92.20	19.300	26.80	144.90	171.70	0.252	0.090
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.500	192.30	42.900	32.20	245.50	277.70	0.336	0.093
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	4.000	113.20	316.900	1417.00	9280.00	10697.00	0.880	0.271
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	1.700	89.10	108.400	474.30	2497.00	2971.30	0.920	0.257
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	1.800	94.80	115.200	494.00	2829.00	3323.00	0.580	0.271
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	1.200	78.70	91.900	284.20	2150.00	2434.20	1.200	0.229
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	14.800	49.50	70.200	370.00	983.00	1353.00	0.640	0.119
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	18.900	54.30	64.700	357.10	1004.00	1361.10	0.644	0.121
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	17.500	75.80	144.700	231.50	831.00	1062.50	0.920	0.200
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	18.900	71.30	144.700	228.50	853.00	1081.50	0.840	0.214
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.500	131.10	35.200	110.60	374.00	484.60	0.720	0.157
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	3.000	98.30	78.400	68.20	329.00	397.20	0.560	0.171
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	2.300	61.40	57.300	57.90	305.30	363.20	0.356	0.119
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	2.100	71.60	50.400	65.10	309.00	374.10	0.440	0.116
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	2.800	77.40	51.800	70.80	378.00	448.80	0.440	0.110
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	3.050	2729.30	268.700	43.20	197.00	240.20	0.404	0.130
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	1.600	3337.50	271.300	59.70	220.00	279.70	0.440	0.093
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	1.250	2520.70	204.100	42.60	202.90	245.50	0.400	0.083
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	3.500	26.40	36.700	76.90	615.00	691.90	0.520	0.089
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	7.300	47.60	61.400	129.50	800.00	929.50	0.560	0.097
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	7.500	54.20	79.300	118.40	732.20	850.60	0.392	0.121

Chemistry Summations and Quotients

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40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	2.600	20.30	24.700	72.00	517.00	589.00	0.360	0.079
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.850	195.60	82.500	162.60	2283.00	2445.60	0.600	0.186
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11	22.100	97.00	308.900	200.00	1388.30	1588.30	1.120	0.200
44016.0	MUGU LAGOON	616	1/12/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11	130.500	208.10	192.700	2508.70	7762.00	10270.70	1.088	0.136
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11	18.800	88.20	387.500	132.60	733.90	866.50	0.644	0.186
44021.0	VENTURA MARINA	621	1/13/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	3.200	99.10	38.800	75.60	380.80	456.40	1.076	0.114
44024.0	BALLONA CREEK	624	1/14/93	11	108.400	198.40	412.500	1575.80	5087.10	6662.90	0.432	0.186
44026.0	SIM'S POND	626	1/14/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	150.800	3187.20	12.800	41.20	59.90	101.10	0.256	0.104
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	1.250	182.36	76.078	265.45	2418.10	2683.55	0.416	0.157
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	1.250	219.24	120.840	360.84	2929.70	3290.54	0.440	0.171
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	1.572	240.93	124.586	378.84	3500.30	3879.14	0.476	0.200
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20	1.250	42.37	51.510	167.71	1412.10	1579.81	0.624	0.186
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20	1.250	41.77	50.144	165.16	1222.50	1387.66	0.592	0.186

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40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	1.250	33.41	53.322	197.17	1350.50	1547.67	0.608	0.171
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	5.265	112.57	89.078	97.95	479.00	576.95	0.568	0.200
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	5.911	99.91	81.438	120.89	680.70	801.59	0.600	0.214
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	7.690	84.99	96.096	74.09	656.60	730.69	0.500	0.200
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	2.419	2515.76	259.538	106.60	434.32	540.92	0.288	0.120
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	2.006	3569.26	301.434	86.71	302.77	389.48	0.312	0.129
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	5.038	2604.64	302.478	53.15	323.04	376.19	0.312	0.117
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	2.642	189.85	112.090	177.21	3262.00	3439.21	0.452	0.229
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	1.250	304.75	120.482	267.73	3547.80	3815.53	0.456	0.257
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	3.999	204.61	109.900	140.61	3264.30	3404.91	0.468	0.229
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	2.440	215.01	113.640	226.46	3688.70	3915.16	0.388	0.243
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	1.838	3344.19	271.280	59.12	263.72	322.84	0.359	0.186
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	2.674	3331.49	312.772	69.33	369.10	438.43	0.408	0.124
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	2.079	2063.89	221.778	46.78	184.83	231.61	0.279	0.109
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	5.714	79.60	85.122	64.87	409.80	474.67	0.376	0.186
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	8.770	79.04	90.960	78.00	536.40	614.40	0.496	0.171
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	5.760	73.42	86.738	62.79	529.30	592.09	0.310	0.171
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	1.800	66.49	49.544	332.47	2131.80	2464.27	0.900	0.184
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	1.618	62.61	41.576	323.54	2108.10	2431.64	0.816	0.164
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	1.250	41.09	39.150	260.25	1580.00	1840.25	0.724	0.149
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	112.770	603.80	513.080	1446.50	12146.00	13592.50	1.336	0.261
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	83.580	469.66	504.460	1977.20	11963.00	13940.20	1.372	0.341
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	58.103	376.94	578.580	2519.50	12553.00	15072.50	1.540	0.273
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	1.250	20.97	24.212	88.55	766.20	854.75	0.396	0.057
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	1.250	22.87	24.278	126.59	1005.30	1131.89	0.432	0.064
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	1.520	32.94	39.668	228.09	1827.50	2055.59	0.424	0.084
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	12.340	19.35	39.258	114.21	727.10	841.31	0.334	0.057
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	15.120	16.08	37.162	183.11	951.60	1134.71	0.472	0.059
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	24.872	37.35	75.214	251.65	1603.50	1855.15	0.620	0.092
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	2.207	133.04	49.646	101.29	522.70	623.99	0.608	0.179
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	3.790	127.47	51.430	97.50	601.40	698.90	0.624	0.174
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	1.250	77.30	36.584	64.62	375.00	439.62	0.636	0.166
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	4.553	85.87	250.356	2397.46	18149.00	20546.46	0.732	0.240
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	5.300	87.12	192.174	1925.18	17056.00	18981.18	0.712	0.224
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	2.660	63.56	138.188	907.11	7859.00	8766.11	0.760	0.177
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	27.890	67.78	343.278	184.91	1021.80	1206.71	0.840	0.254
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	32.765	84.88	405.572	149.18	1084.10	1233.28	0.984	0.269
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	45.676	90.35	392.864	156.85	1017.60	1174.45	0.824	0.274
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	2.401	175.04	112.526	200.26	3256.50	3456.76	0.404	0.371
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	2.524	186.57	107.520	300.85	3513.50	3814.35	0.444	0.386

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	TTL_CHLR	TTL_DDT	TTL_PCB	LMW_PAH	HMW_PAH	TTL_PAH	ANTIMOQE	ARSENIQE
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	2.042	174.38	111.898	224.10	3540.40	3764.50	0.460	0.371
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	3.050	207.18	113.166	146.20	2922.10	3068.30	0.464	0.329
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	3.095	168.79	108.422	112.87	2499.70	2612.57	0.440	0.300
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	3.190	180.44	103.132	137.00	2690.30	2827.30	0.420	0.314
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	2.770	171.63	102.076	181.56	2953.40	3134.96	0.600	0.329
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	2.572	212.03	111.764	210.15	3294.20	3504.35	0.580	0.329
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	1.868	163.23	88.550	124.66	2005.60	2130.26	0.380	0.271
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	9.940	25.56	68.642	120.72	825.20	945.92	0.624	0.109
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	9.260	22.17	68.244	105.80	713.10	818.90	0.560	0.112
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	10.940	24.14	75.810	166.20	1010.40	1176.60	0.644	0.098
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	24.040	92.81	309.534	160.37	1522.80	1683.17	0.788	0.280
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	38.060	81.04	391.508	186.28	1917.00	2103.28	0.872	0.247
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	20.730	75.27	292.480	113.87	1062.00	1175.87	0.628	0.273
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	71.720	160.61	228.796	946.40	4263.10	5209.50	0.928	0.190
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	55.330	87.70	238.514	884.70	4149.20	5033.90	1.228	0.200
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	95.623	87.81	242.690	1210.50	4840.70	6051.20	0.920	0.217
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	TTL_CHLR	TTL_DDT	TTL_PCB	LMW_PAH	HMW_PAH	TTL_PAH	ANTIMOQE	ARSENIQE
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	-9.000	-9.00	445.000	-9.00	-9.00	-9.00	-9.000	-9.000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	-9.000	-9.00	405.920	-9.00	-9.00	-9.00	-9.000	-9.000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	-9.000	-9.00	175.122	-9.00	-9.00	-9.00	-9.000	-9.000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	3.589	51.63	465.896	3016.82	23757.00	26773.82	0.291	-9.000
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	1.829	41.22	99.632	2047.80	15051.00	17098.80	0.342	-9.000
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	233.100	1983.10	15.902	37.80	74.54	112.34	0.576	-9.000
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	1.250	37.99	12.028	37.42	37.50	74.92	0.182	-9.000
44014.0	MARINA DEL REY	1630	6/19/96	45	24.880	90.75	237.900	108.66	1228.30	1336.96	0.752	-9.000
44020.0	SHORELINE MARINA	1631	6/20/96	45	33.320	88.97	332.818	231.25	1352.90	1584.15	0.912	-9.000
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	3.539	58.47	32.512	636.74	3441.70	4078.44	0.892	-9.000
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	54.140	359.44	981.834	1094.20	8461.00	9555.20	1.384	-9.000
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	66.200	488.72	646.200	1113.60	8732.00	9845.60	1.324	-9.000
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	50.980	358.60	2118.162	1499.20	10374.00	11873.20	1.456	-9.000
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	74.589	453.81	803.340	804.70	7710.00	8514.70	1.424	-9.000
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	53.360	833.84	1420.574	1403.00	8957.00	10360.00	1.264	-9.000
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	-9.000	321.41	893.420	-9.00	5082.00	5073.00	5.120	-9.000
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	54.500	548.55	486.980	1969.80	11721.00	13690.80	0.728	-9.000
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	246.000	1317.17	1341.580	9679.00	16467.00	26146.00	1.092	-9.000
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	-9.000	124.61	1599.880	-9.00	7544.00	7535.00	11.760	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	-9.000	63.31	525.820	-9.00	5491.00	5482.00	21.120	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	11.700	75.19	91.792	-9.00	1790.00	1781.00	4.360	-9.000
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	44.683	236.03	246.236	957.00	6418.00	7375.00	2.044	-9.000
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	58.317	355.45	942.380	1293.50	9491.00	10784.50	2.460	-9.000
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	69.770	494.15	415.066	2015.60	14301.00	16316.60	2.860	-9.000
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46	32.440	204.53	361.520	770.10	4865.00	5635.10	0.844	-9.000
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	14.870	49.93	165.300	72.14	629.60	701.74	1.048	0.141
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	11.150	33.96	130.228	79.89	471.99	551.88	0.732	0.173
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	17.630	40.24	248.806	80.98	599.30	680.28	0.720	0.271
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	19.664	43.47	108.924	102.82	755.50	858.32	0.628	0.181
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	63.993	76.72	200.376	351.71	2360.60	2712.31	0.832	0.199
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	39.651	59.99	561.238	196.97	1125.60	1322.57	1.464	0.224
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	1.878	36.19	33.016	197.23	1150.90	1348.13	1.324	0.257
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	9.600	23.45	135.904	78.36	465.30	543.66	0.306	0.131
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	17.528	33.88	188.040	73.85	523.39	597.24	0.468	0.109
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	6.580	56.39	82.642	85.20	501.51	586.71	0.568	0.183
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	6.280	76.34	60.664	72.79	512.79	585.58	0.556	0.130
48010.0	TURNING BASIN	1697	2/4/97	48	1.922	33.69	183.478	568.33	2325.70	2894.03	0.237	0.093
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.939	40.81	36.138	124.33	529.60	653.93	0.398	0.121
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	1.181	38.05	35.164	102.48	653.00	755.48	0.744	0.150

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	TTL_CHLR	TTL_DDT	TTL_PCB	LMW_PAH	HMW_PAH	TTL_PAH	ANTIMOQE	ARSENIQE
48011.0	KING HARBOR	1700	2/5/97	48	2.912	69.34	185.054	96.85	671.00	767.85	0.313	0.084
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	14.470	50.17	95.924	131.76	978.00	1109.76	0.708	0.138
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	3.519	52.69	21.978	92.09	300.30	392.39	0.212	0.138
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	3.323	64.67	32.228	33.09	50.67	83.76	0.190	0.055
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	4.878	103.43	54.872	35.70	68.16	103.86	0.142	0.078
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	12.970	255.12	49.756	39.97	144.82	184.79	0.192	0.073
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	10.910	166.70	41.472	43.90	135.43	179.33	0.416	0.090
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	11.520	276.77	37.262	41.63	124.46	166.09	0.640	0.122
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	8.933	232.63	31.826	33.69	77.53	111.22	0.355	0.092
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
48010.0	TURNING BASIN	1772	5/13/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
48011.0	KING HARBOR	1775	5/12/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.000	-9.00	-9.000	-9.00	-9.00	-9.00	-9.000	-9.000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	2.972	192.91	119.046	193.37	1745.20	1938.57	-9.000	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	0.836	100.05	41.796	224.42	683.10	907.52	-9.000	-9.000
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	0.910	53.46	20.504	125.39	370.94	496.33	-9.000	-9.000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	2.675	89.23	194.714	92097.50	53320.00	145417.50	1.124	-9.000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	1.546	322.93	92.982	2100.14	2938.50	5038.64	0.716	-9.000

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ARSENIQP	CADMIUQE	CADMIUQP	CHROMIQE	CHROMIQP	COPPERQE	COPPERQP
40001.1	SOUTHWEST SLIP	1	7/29/92	1	0.337	0.0385	0.0879	0.297	0.686	0.04	0.10
40001.2	SOUTHWEST SLIP	2	7/29/92	1	0.313	0.0500	0.1140	0.257	0.592	0.41	1.02
40001.3	SOUTHWEST SLIP	3	7/29/92	1	0.361	0.0594	0.1354	0.270	0.623	0.44	1.11
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	0.226	0.0229	0.0523	0.181	0.418	0.23	0.57
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	0.188	0.0198	0.0451	0.149	0.343	0.18	0.45
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.142	0.0135	0.0309	0.105	0.243	0.10	0.24
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	0.409	0.1250	0.2850	0.297	0.686	0.67	1.66
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	0.409	0.0958	0.2185	0.324	0.748	0.48	1.20
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	0.209	0.0719	0.1639	0.170	0.393	0.29	0.72
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	0.433	0.2917	0.6651	0.378	0.873	0.70	1.76
40006.2	CONSOLIDATED SLIP	17	7/31/92	1	0.409	0.3021	0.6888	0.378	0.873	0.74	1.85
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.120	0.0260	0.0594	0.124	0.287	0.08	0.19
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	0.337	0.0823	0.1876	0.297	0.686	0.41	1.02
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.337	0.0385	0.0879	0.243	0.561	0.26	0.64
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.264	0.0323	0.0736	0.173	0.399	0.22	0.55
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.240	0.0292	0.0665	0.205	0.474	0.16	0.39
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.240	0.0313	0.0713	0.214	0.493	0.16	0.41
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	0.433	0.1979	0.4513	0.243	0.561	0.59	1.48
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.361	0.1771	0.4038	0.219	0.505	0.37	0.92
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	0.361	0.1375	0.3135	0.227	0.524	0.41	1.02
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.313	0.0323	0.0736	0.224	0.517	0.26	0.66
40012.2	SOUTHEAST BASIN	35	8/18/92	2	0.313	0.0333	0.0760	0.224	0.517	0.25	0.62
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.240	0.0490	0.1116	0.181	0.418	0.19	0.46
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.224	0.0417	0.0950	0.149	0.343	0.12	0.30
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.161	0.0333	0.0760	0.116	0.268	0.15	0.37
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	0.288	0.0646	0.1473	0.203	0.468	0.17	0.43

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STANUM	STATION	IDORG	DATE	LEG	ARSENIQP	CADMIUQE	CADMIUQP	CHROMIQE	CHROMIQP	COPPERQE	COPPERQP
40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.183	0.0375	0.0855	0.189	0.436	0.11	0.27
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.337	0.0792	0.1805	0.246	0.567	0.20	0.51
40019.1	INNER FISH HARBOR	55	8/19/92	2	0.457	0.0927	0.2114	0.259	0.599	1.19	2.96
40019.2	INNER FISH HARBOR	56	8/19/92	2	0.385	0.1250	0.2850	0.270	0.623	1.22	3.05
40019.3	INNER FISH HARBOR	57	8/19/92	2	0.817	0.1667	0.3800	0.324	0.748	1.93	4.81
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.166	0.0240	0.0546	0.127	0.293	0.04	0.10
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.151	0.0302	0.0689	0.127	0.293	0.05	0.12
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	0.120	0.0229	0.0523	0.135	0.312	0.04	0.11
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.144	0.0250	0.0570	0.127	0.293	0.10	0.25
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.151	0.0250	0.0570	0.116	0.268	0.06	0.16
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.156	0.0240	0.0546	0.111	0.256	0.07	0.18
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	0.457	0.0583	0.1330	0.297	0.686	0.59	1.48
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	0.433	0.0865	0.1971	0.216	0.499	0.36	0.89
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	0.457	0.0854	0.1948	0.268	0.617	0.41	1.02
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	0.385	0.0490	0.1116	0.243	0.561	0.41	1.02
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	0.200	0.1250	0.2850	0.149	0.343	0.19	0.47
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	0.204	0.1104	0.2518	0.165	0.380	0.16	0.40
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	0.337	0.1563	0.3563	0.205	0.474	0.25	0.63
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	0.361	0.1667	0.3800	0.192	0.443	0.25	0.63
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.264	0.0427	0.0974	0.211	0.486	0.17	0.43
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	0.288	0.0656	0.1496	0.195	0.449	0.17	0.43
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	0.200	0.0385	0.0879	0.154	0.355	0.09	0.21
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	0.195	0.0406	0.0926	0.154	0.355	0.11	0.29
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	0.185	0.0448	0.1021	0.162	0.374	0.12	0.30
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	0.219	0.2052	0.4679	0.378	0.873	0.18	0.44
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	0.156	0.1458	0.3325	0.378	0.873	0.20	0.49
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	0.139	0.1250	0.2850	0.297	0.686	0.16	0.39
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	0.149	0.0302	0.0689	0.141	0.324	0.20	0.51
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	0.163	0.0646	0.1473	0.141	0.324	0.18	0.44
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	0.204	0.0781	0.1781	0.170	0.393	0.20	0.49

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40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	0.132	0.0375	0.0855	0.119	0.274	0.13	0.32
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.313	0.1250	0.2850	0.214	0.493	0.44	1.11
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44014.0	MARINA DEL REY	614	1/14/93	11	0.337	0.0885	0.2019	0.297	0.686	2.04	5.08
44016.0	MUGU LAGOON	616	1/12/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44017.0	COLORADO LAGOON	617	1/14/93	11	0.228	0.2063	0.4703	0.151	0.349	0.32	0.80
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44020.0	SHORELINE MARINA	620	1/14/93	11	0.313	0.1292	0.2945	0.219	0.505	0.56	1.39
44021.0	VENTURA MARINA	621	1/13/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	0.192	0.1583	0.3610	0.165	0.380	0.26	0.66
44024.0	BALLONA CREEK	624	1/14/93	11	0.313	0.0500	0.1140	0.249	0.574	0.44	1.11
44026.0	SIMS POND	626	1/14/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	0.175	0.1229	0.2803	0.127	0.293	0.11	0.27
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	0.264	0.0615	0.1401	0.165	0.380	0.24	0.61
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	0.288	0.0646	0.1473	0.170	0.393	0.24	0.59
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	0.337	0.0854	0.1948	0.211	0.486	0.35	0.87
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20	0.313	0.0375	0.0855	0.181	0.418	0.20	0.49
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20	0.313	0.0354	0.0808	0.195	0.449	0.19	0.48

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STANUM	STATION	IDORG	DATE	LEG	ARSENIQP	CADMIUQE	CADMIUQP	CHROMIQE	CHROMIQP	COPPERQE	COPPERQP
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	0.288	0.0375	0.0855	0.192	0.443	0.20	0.49
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	0.337	0.0802	0.1829	0.200	0.461	0.18	0.45
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	0.361	0.0885	0.2019	0.197	0.455	0.19	0.48
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	0.337	0.0750	0.1710	0.195	0.449	0.17	0.43
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	0.202	0.1667	0.3800	0.351	0.810	0.17	0.43
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	0.216	0.1771	0.4038	0.378	0.873	0.19	0.47
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	0.197	0.1667	0.3800	0.378	0.873	0.18	0.45
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	0.385	0.2292	0.5226	0.227	0.524	0.33	0.82
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	0.433	0.2396	0.5463	0.254	0.586	0.48	1.20
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	0.385	0.2292	0.5226	0.205	0.474	0.36	0.90
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	0.409	0.2604	0.5938	0.251	0.580	0.48	1.20
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	0.313	0.1417	0.3230	0.384	0.885	0.16	0.40
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	0.209	0.1490	0.3397	0.468	1.079	0.22	0.55
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	0.183	0.1500	0.3420	0.316	0.729	0.13	0.32
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	0.313	0.0654	0.1492	0.191	0.441	0.16	0.40
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	0.288	0.0629	0.1435	0.192	0.442	0.18	0.45
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	0.288	0.0494	0.1126	0.177	0.408	0.16	0.40
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	0.310	0.0571	0.1302	0.238	0.548	0.29	0.73
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	0.276	0.0514	0.1171	0.219	0.505	0.25	0.63
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	0.250	0.0378	0.0862	0.187	0.431	0.21	0.51
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	0.440	0.2833	0.6461	0.403	0.929	0.80	1.99
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	0.575	0.2802	0.6390	0.376	0.867	0.78	1.94
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	0.459	0.3021	0.6888	0.395	0.910	0.82	2.05
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	0.096	0.0198	0.0451	0.100	0.231	0.08	0.19
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	0.107	0.0214	0.0487	0.100	0.231	0.09	0.21
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	0.142	0.0200	0.0456	0.115	0.266	0.11	0.26
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	0.095	0.1005	0.2292	0.078	0.180	0.10	0.25
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	0.099	0.1083	0.2470	0.085	0.196	0.11	0.26
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	0.155	0.1563	0.3563	0.119	0.275	0.18	0.45
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	0.300	0.0558	0.1273	0.235	0.543	0.20	0.51
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	0.293	0.0508	0.1159	0.234	0.540	0.20	0.51
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	0.279	0.0465	0.1059	0.214	0.493	0.18	0.46
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	0.404	0.0435	0.0993	0.252	0.582	0.38	0.94
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	0.377	0.0522	0.1190	0.252	0.582	0.40	0.99
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	0.298	0.0471	0.1074	0.210	0.485	0.28	0.70
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	0.428	0.1729	0.3943	0.252	0.582	0.69	1.72
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	0.452	0.1604	0.3658	0.258	0.595	0.57	1.41
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	0.462	0.1438	0.3278	0.235	0.542	0.48	1.20
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	0.625	0.2531	0.5772	0.232	0.535	0.91	2.28
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	0.649	0.2719	0.6200	0.256	0.592	1.01	2.53

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ARSENIQP	CADMIUQE	CADMIUQP	CHROMIQE	CHROMIQP	COPPERQE	COPPERQP
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	0.625	0.2469	0.5629	0.259	0.597	1.01	2.52
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	0.553	0.2000	0.4561	0.240	0.554	0.81	2.01
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	0.505	0.1823	0.4157	0.227	0.524	0.70	1.74
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	0.529	0.1635	0.3729	0.189	0.436	0.72	1.79
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	0.553	0.1833	0.4181	0.235	0.541	0.85	2.12
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	0.553	0.1875	0.4276	0.256	0.592	0.97	2.41
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	0.457	0.0979	0.2233	0.235	0.542	0.81	2.02
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	0.183	0.0564	0.1285	0.169	0.389	0.21	0.53
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	0.188	0.0581	0.1325	0.177	0.409	0.22	0.54
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	0.165	0.0577	0.1316	0.165	0.381	0.21	0.52
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	0.471	0.0755	0.1722	0.286	0.661	1.51	3.76
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	0.416	0.1260	0.2874	0.327	0.754	1.58	3.95
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	0.459	0.0519	0.1183	0.292	0.673	1.50	3.75
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	0.320	0.2021	0.4608	0.181	0.417	0.33	0.82
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	0.337	0.2583	0.5891	0.223	0.514	0.43	1.07
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	0.365	0.2115	0.4822	0.193	0.445	0.36	0.89
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ARSENIQP	CADMIUQE	CADMIUQP	CHROMIQE	CHROMIQP	COPPERQE	COPPERQP
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	-9.000	0.0551	0.1257	0.124	0.287	0.24	0.61
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	-9.000	0.0711	0.1622	0.146	0.338	0.32	0.81
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	-9.000	0.2781	0.6342	0.225	0.519	0.14	0.35
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	-9.000	0.0525	0.1197	0.101	0.233	0.03	0.08
44014.0	MARINA DEL REY	1630	6/19/96	45	-9.000	0.1115	0.2542	0.249	0.574	1.19	2.97
44020.0	SHORELINE MARINA	1631	6/20/96	45	-9.000	0.2740	0.6247	0.223	0.514	0.72	1.80
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	-9.000	0.0479	0.1093	0.175	0.405	0.23	0.57
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	-9.000	0.2979	0.6793	0.314	0.723	0.60	1.50
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	-9.000	0.2781	0.6342	0.392	0.904	0.49	1.22
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	-9.000	0.3167	0.7221	0.286	0.661	0.77	1.91
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	-9.000	0.2385	0.5439	0.289	0.667	0.42	1.04
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	-9.000	0.3010	0.6865	0.260	0.600	0.48	1.19
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	-9.000	0.8938	2.0380	0.776	1.789	0.99	2.46
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	-9.000	0.3792	0.8646	0.278	0.642	0.53	1.32
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	-9.000	0.6375	1.4537	0.749	1.727	0.69	1.71
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	-9.000	0.8115	1.8504	1.492	3.441	1.77	4.42
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	-9.000	0.6583	1.5012	1.265	2.918	6.44	16.08
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	-9.000	0.4104	0.9359	0.243	0.560	0.53	1.33
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	-9.000	0.3948	0.9002	0.248	0.572	0.43	1.07
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	-9.000	1.5104	3.4442	0.295	0.680	0.56	1.40
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	-9.000	0.5958	1.3587	0.300	0.692	0.64	1.60
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46	-9.000	0.2396	0.5463	0.295	0.680	0.53	1.33
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	0.237	0.0509	0.1162	0.264	0.610	0.99	2.46
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	0.291	0.0419	0.0955	0.250	0.576	1.21	3.01
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	0.457	0.0276	0.0629	0.297	0.686	1.45	3.61
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	0.305	0.0553	0.1261	0.230	0.530	0.61	1.52
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	0.334	0.2208	0.5036	0.235	0.542	0.37	0.92
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	0.377	0.2292	0.5226	0.245	0.565	0.66	1.65
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	0.433	0.2313	0.5273	0.257	0.594	0.55	1.38
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	0.221	0.0960	0.2190	0.176	0.405	0.26	0.66
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	0.183	0.0279	0.0637	0.156	0.360	0.12	0.31
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	0.308	0.0760	0.1734	0.181	0.417	0.18	0.44
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	0.219	0.0621	0.1416	0.162	0.374	0.13	0.33
48010.0	TURNING BASIN	1697	2/4/97	48	0.157	0.0228	0.0520	0.124	0.286	0.12	0.29
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.204	0.0280	0.0639	0.122	0.282	0.13	0.32
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	0.252	0.0353	0.0805	0.171	0.394	0.19	0.48

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ARSENIQP	CADMIUQE	CADMIUQP	CHROMIQE	CHROMIQP	COPPERQE	COPPERQP
48011.0	KING HARBOR	1700	2/5/97	48	0.142	0.0367	0.0836	0.178	0.410	0.31	0.76
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	0.232	0.1083	0.2470	0.147	0.340	0.26	0.64
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	0.233	0.0450	0.1026	0.165	0.382	0.14	0.35
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	0.093	0.0751	0.1713	0.119	0.274	0.06	0.15
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	0.131	0.0743	0.1694	0.109	0.251	0.06	0.16
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	0.123	0.1019	0.2323	0.136	0.315	0.09	0.22
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	0.151	0.1438	0.3278	0.168	0.388	0.11	0.28
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	0.205	0.2094	0.4774	0.243	0.560	0.17	0.42
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	0.155	0.1219	0.2779	0.162	0.373	0.10	0.26
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
48010.0	TURNING BASIN	1772	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
48011.0	KING HARBOR	1775	5/12/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.00	-9.00
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	-9.000	0.0769	0.1753	0.311	0.717	1.52	3.79
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	-9.000	0.0799	0.1822	0.257	0.594	0.80	2.00

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	LEADQE	LEADQP	MERCURQE	MERCURQP	NICKELQE	NICKELQP	SILVERQE	SILVERQP
40001.1	SOUTHWEST SLIP	1	7/29/92	1	0.243	0.472	0.8732	0.8908	0.833	1.005	0.0838	0.1751
40001.2	SOUTHWEST SLIP	2	7/29/92	1	0.225	0.437	1.0704	1.0920	0.775	0.935	0.0811	0.1695
40001.3	SOUTHWEST SLIP	3	7/29/92	1	0.239	0.464	0.8028	0.8190	0.833	1.005	0.0838	0.1751
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	0.165	0.321	0.3099	0.3161	0.543	0.654	0.0432	0.0904
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	0.124	0.241	0.2676	0.2730	0.446	0.537	0.0432	0.0904
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.096	0.187	0.1690	0.1724	0.291	0.350	0.0270	0.0565
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	0.216	0.419	0.6479	0.6609	0.911	1.098	0.2135	0.4463
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	0.153	0.297	0.4310	0.4397	0.911	1.098	0.1811	0.3785
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	0.312	0.606	0.5070	0.5172	0.543	0.654	0.0784	0.1638
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	0.642	1.248	1.0282	1.0489	0.872	1.051	0.2405	0.5028
40006.2	CONSOLIDATED SLIP	17	7/31/92	1	0.780	1.515	0.7887	0.8046	0.891	1.075	0.2486	0.5198
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.106	0.205	0.2113	0.2155	0.329	0.397	0.0297	0.0621
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	0.147	0.285	0.3521	0.3592	0.911	1.098	0.1946	0.4068
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.142	0.275	0.3817	0.3894	0.756	0.911	0.0757	0.1582
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.142	0.276	0.3099	0.3161	0.640	0.771	0.0622	0.1299
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.123	0.240	0.2085	0.2126	0.698	0.841	0.0432	0.0904
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.113	0.219	0.2775	0.2830	0.659	0.794	0.0459	0.0960
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	0.147	0.285	0.4225	0.4310	0.736	0.888	0.1486	0.3107
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.142	0.276	0.6056	0.6178	0.659	0.794	0.1108	0.2316
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	0.168	0.327	0.4972	0.5072	0.717	0.864	0.1081	0.2260
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.170	0.330	0.2817	0.2874	0.756	0.911	0.0730	0.1525
40012.2	SOUTHEAST BASIN	35	8/18/92	2	0.161	0.312	0.3239	0.3305	0.775	0.935	0.0730	0.1525
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.147	0.285	0.4789	0.4885	0.523	0.631	0.0649	0.1356
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.130	0.253	0.2859	0.2917	0.465	0.561	0.0486	0.1017
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.156	0.303	0.7606	0.7759	0.407	0.491	0.0405	0.0847
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	0.117	0.228	0.3704	0.3779	0.736	0.888	0.0811	0.1695

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	LEADQE	LEADQP	MERCURQE	MERCURQP	NICKELQE	NICKELQP	SILVERQE	SILVERQP
40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.087	0.168	0.1817	0.1853	0.678	0.818	0.0351	0.0734
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.135	0.262	0.3592	0.3664	0.911	1.098	0.0946	0.1977
40019.1	INNER FISH HARBOR	55	8/19/92	2	0.280	0.544	2.2535	2.2989	0.756	0.911	0.1459	0.3051
40019.2	INNER FISH HARBOR	56	8/19/92	2	0.298	0.579	2.6761	2.7299	0.756	0.911	0.1676	0.3503
40019.3	INNER FISH HARBOR	57	8/19/92	2	0.550	1.070	3.3803	3.4483	0.930	1.121	0.2054	0.4294
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.087	0.168	0.0887	0.0905	0.368	0.444	0.0216	0.0452
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.091	0.177	0.0803	0.0819	0.426	0.514	0.0270	0.0565
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	0.101	0.196	0.1127	0.1149	0.349	0.421	0.0162	0.0339
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.110	0.214	0.2535	0.2586	0.349	0.421	0.0378	0.0791
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.095	0.185	0.1493	0.1523	0.310	0.374	0.0270	0.0565
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.088	0.171	0.1183	0.1207	0.310	0.374	0.0270	0.0565
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	0.330	0.642	1.6901	1.7241	0.872	1.051	0.1622	0.3390
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	0.175	0.341	0.9254	0.9440	0.872	1.051	0.2270	0.4746
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	0.213	0.414	0.7296	0.7443	0.930	1.121	0.2135	0.4463
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	0.239	0.464	4.3662	4.4540	0.833	1.005	0.1405	0.2938
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	0.183	0.357	0.3239	0.3305	0.601	0.724	0.0946	0.1977
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	0.181	0.352	0.2239	0.2284	0.640	0.771	0.0946	0.1977
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	0.307	0.597	0.4366	0.4454	0.736	0.888	0.1324	0.2768
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	0.294	0.571	0.3099	0.3161	0.736	0.888	0.1216	0.2542
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.147	0.285	0.2535	0.2586	0.659	0.794	0.0784	0.1638
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	0.220	0.428	0.3380	0.3448	0.640	0.771	0.0973	0.2034
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	0.139	0.270	0.1211	0.1236	0.523	0.631	0.0514	0.1073
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	0.202	0.392	0.1408	0.1437	0.504	0.607	0.0676	0.1412
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	0.183	0.357	0.1690	0.1724	0.562	0.678	0.0703	0.1469
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	0.129	0.250	0.4535	0.4626	0.523	0.631	0.5108	1.0678
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	0.161	0.312	0.4225	0.4310	0.504	0.607	0.4324	0.9040
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	0.133	0.259	0.3662	0.3736	0.446	0.537	0.3243	0.6780
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	0.234	0.455	0.1972	0.2011	0.504	0.607	0.1135	0.2373
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	0.275	0.535	0.1690	0.1724	0.581	0.701	0.1000	0.2090
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	0.225	0.437	0.2268	0.2313	0.717	0.864	0.1297	0.2712

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	LEADQE	LEADQP	MERCURQE	MERCURQP	NICKELQE	NICKELQP	SILVERQE	SILVERQP
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	0.197	0.383	-9.0000	-9.0000	0.465	0.561	-9.0000	-9.0000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.142	0.276	0.6901	0.7040	0.698	0.841	0.1162	0.2429
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44014.0	MARINA DEL REY	614	1/14/93	11	1.101	2.139	1.1479	1.1710	0.872	1.051	0.3568	0.7458
44016.0	MUGU LAGOON	616	1/12/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44017.0	COLORADO LAGOON	617	1/14/93	11	2.339	4.546	0.5113	0.5216	0.659	0.794	0.1676	0.3503
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44020.0	SHORELINE MARINA	620	1/14/93	11	0.826	1.605	0.4000	0.4080	0.659	0.794	0.1811	0.3785
44021.0	VENTURA MARINA	621	1/13/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	0.826	1.605	0.3169	0.3233	0.465	0.561	1.3892	2.9040
44024.0	BALLONA CREEK	624	1/14/93	11	0.154	0.300	0.1803	0.1839	0.601	0.724	0.0811	0.1695
44026.0	SIM'S POND	626	1/14/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	0.073	0.143	0.0690	0.0704	0.407	0.491	0.0378	0.0791
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	0.110	0.214	0.4394	0.4483	0.465	0.561	0.0784	0.1638
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	0.113	0.220	0.2338	0.2385	0.504	0.607	0.0784	0.1638
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	0.126	0.245	0.3268	0.3333	0.581	0.701	0.1081	0.2260
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20	0.118	0.230	0.3803	0.3879	0.601	0.724	0.0676	0.1412
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20	0.133	0.259	0.2521	0.2572	0.640	0.771	0.0568	0.1186

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	LEADQE	LEADQP	MERCURQE	MERCURQP	NICKELQE	NICKELQP	SILVERQE	SILVERQP
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	0.139	0.271	0.3028	0.3089	0.601	0.724	0.0595	0.1243
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	0.261	0.506	0.1225	0.1250	0.659	0.794	0.0973	0.2034
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	0.271	0.526	0.1859	0.1897	0.678	0.818	0.0973	0.2034
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	0.194	0.376	0.2197	0.2241	0.698	0.841	0.1027	0.2147
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	0.136	0.265	0.2803	0.2859	0.523	0.631	0.2919	0.6102
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	0.156	0.303	0.2972	0.3032	0.523	0.631	0.2703	0.5650
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	0.150	0.292	0.4986	0.5086	0.484	0.584	0.3054	0.6384
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	0.149	0.289	0.5352	0.5460	0.640	0.771	0.1243	0.2599
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	0.172	0.333	0.6042	0.6164	0.736	0.888	0.1405	0.2938
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	0.159	0.308	0.5014	0.5115	0.736	0.888	0.1216	0.2542
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	0.136	0.265	0.6394	0.6523	0.833	1.005	0.1432	0.2994
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	0.130	0.252	0.3113	0.3175	0.430	0.519	0.2046	0.4277
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	0.171	0.332	0.3085	0.3147	0.694	0.836	0.3730	0.7797
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	0.111	0.217	0.3042	0.3103	0.473	0.570	0.3019	0.6311
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	0.206	0.401	0.1803	0.1839	0.686	0.827	0.0992	0.2073
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	0.188	0.365	0.1930	0.1968	0.818	0.986	0.1127	0.2356
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	0.185	0.360	0.1817	0.1853	0.694	0.836	0.0968	0.2023
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	0.121	0.234	0.3423	0.3491	0.899	1.084	0.1011	0.2113
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	0.126	0.244	0.3225	0.3290	0.800	0.965	0.0886	0.1853
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	0.113	0.219	0.2239	0.2284	0.671	0.808	0.0670	0.1401
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	0.500	0.972	0.8507	0.8678	0.888	1.070	0.2638	0.5514
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	0.437	0.850	0.7901	0.8060	0.878	1.058	0.2530	0.5288
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	0.439	0.852	1.0380	1.0589	0.981	1.182	0.2838	0.5932
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	0.093	0.181	0.1549	0.1580	0.258	0.311	0.0251	0.0525
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	0.080	0.156	0.1704	0.1739	0.260	0.313	0.0273	0.0571
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	0.115	0.224	0.1873	0.1911	0.297	0.357	0.0322	0.0672
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	0.333	0.646	0.1718	0.1753	0.302	0.364	0.1030	0.2153
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	0.284	0.553	0.1676	0.1710	0.273	0.329	0.0989	0.2068
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	0.301	0.586	0.2930	0.2989	0.465	0.561	0.2059	0.4305
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	0.152	0.295	0.2239	0.2284	0.764	0.921	0.1027	0.2147
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	0.165	0.320	0.2718	0.2773	0.746	0.900	0.1041	0.2175
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	0.147	0.286	0.2634	0.2687	0.709	0.855	0.0916	0.1915
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	0.212	0.413	0.6620	0.6753	0.814	0.981	0.0776	0.1621
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	0.182	0.354	0.7972	0.8132	0.773	0.932	0.0838	0.1751
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	0.204	0.396	0.4592	0.4684	0.614	0.741	0.0535	0.1119
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	0.624	1.212	0.4056	0.4138	0.876	1.056	0.1762	0.3684
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	0.601	1.168	0.3465	0.3534	0.857	1.033	0.1941	0.4056
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	0.523	1.016	0.3394	0.3463	0.717	0.864	0.1632	0.3412
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	0.144	0.280	0.6282	0.6408	0.766	0.923	0.1554	0.3249
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	0.140	0.273	0.8986	0.9167	0.921	1.110	0.1746	0.3650

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	LEADQE	LEADQP	MERCURQE	MERCURQP	NICKELQE	NICKELQP	SILVERQE	SILVERQP
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	0.170	0.330	0.5930	0.6049	0.816	0.984	0.1730	0.3616
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	0.149	0.289	0.4268	0.4353	0.713	0.860	0.1535	0.3209
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	0.153	0.297	0.5577	0.5690	0.702	0.846	0.1276	0.2667
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	0.111	0.216	0.2718	0.2773	0.651	0.785	0.1368	0.2859
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	0.154	0.300	0.4394	0.4483	0.816	0.984	0.1578	0.3299
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	0.139	0.269	0.4718	0.4813	0.835	1.007	0.1657	0.3463
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	0.130	0.252	0.3817	0.3894	0.700	0.843	0.1143	0.2390
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	0.239	0.464	0.2648	0.2701	0.676	0.815	0.0684	0.1429
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	0.212	0.412	0.2000	0.2040	0.897	1.082	0.0768	0.1605
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	0.223	0.433	0.1873	0.1911	0.640	0.771	0.0638	0.1333
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	0.555	1.079	1.5775	1.6092	0.934	1.126	0.3514	0.7345
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	0.784	1.524	1.5634	1.5948	1.025	1.236	0.3324	0.6949
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	0.459	0.891	0.9521	0.9713	0.897	1.082	0.2919	0.6102
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	0.463	0.900	0.3254	0.3319	0.566	0.682	0.9892	2.0678
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	0.537	1.043	0.3789	0.3865	0.671	0.808	1.0162	2.1243
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	0.550	1.070	0.3718	0.3793	0.609	0.734	0.8730	1.8249
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	LEADQE	LEADQP	MERCURQE	MERCURQP	NICKELQE	NICKELQP	SILVERQE	SILVERQP
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	0.153	0.297	0.1408	0.1437	-9.000	-9.000	0.0435	0.0910
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	0.092	0.179	0.1330	0.1356	-9.000	-9.000	0.0484	0.1011
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	0.082	0.159	0.0831	0.0848	-9.000	-9.000	0.0449	0.0938
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	0.070	0.136	0.0445	0.0454	-9.000	-9.000	0.0202	0.0423
44014.0	MARINA DEL REY	1630	6/19/96	45	0.683	1.328	1.5634	1.5948	-9.000	-9.000	0.2103	0.4395
44020.0	SHORELINE MARINA	1631	6/20/96	45	0.743	1.444	0.3282	0.3348	-9.000	-9.000	0.1778	0.3718
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	0.169	0.328	0.2958	0.3017	-9.000	-9.000	0.0668	0.1395
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	0.638	1.239	0.7563	0.7716	-9.000	-9.000	0.2332	0.4876
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	1.023	1.988	0.1620	0.1652	-9.000	-9.000	0.2208	0.4616
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	0.633	1.230	0.8338	0.8506	-9.000	-9.000	0.2008	0.4198
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	0.826	1.605	0.7085	0.7227	-9.000	-9.000	0.1968	0.4113
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	0.651	1.266	0.6648	0.6782	-9.000	-9.000	0.1708	0.3571
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	1.766	3.432	2.2113	2.2557	-9.000	-9.000	0.6541	1.3672
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	0.688	1.337	0.6465	0.6595	-9.000	-9.000	0.2622	0.5480
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	1.491	2.897	1.0915	1.1135	-9.000	-9.000	0.3973	0.8305
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	2.110	4.101	4.6197	4.7126	-9.000	-9.000	0.7000	1.4633
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	2.486	4.832	4.1408	4.2241	-9.000	-9.000	0.4378	0.9153
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	7.294	14.174	2.0986	2.1408	-9.000	-9.000	0.8162	1.7062
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	0.421	0.818	0.4493	0.4583	-9.000	-9.000	0.1276	0.2667
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	0.394	0.766	0.6394	0.6523	-9.000	-9.000	0.1624	0.3395
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	0.491	0.954	0.6986	0.7126	-9.000	-9.000	0.1865	0.3898
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46	0.366	0.710	0.6662	0.6796	-9.000	-9.000	0.1157	0.2418
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	0.945	1.836	1.2014	1.2256	1.099	1.325	0.2208	0.4616
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	0.239	0.465	0.8296	0.8463	0.566	0.682	0.3081	0.6441
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	0.771	1.498	2.1690	2.2126	1.045	1.259	0.4027	0.8418
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	0.353	0.686	0.5958	0.6078	0.676	0.815	0.3946	0.8249
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	0.688	1.337	0.5563	0.5675	0.467	0.563	0.6622	1.3842
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	0.784	1.524	0.4211	0.4296	0.492	0.593	0.3081	0.6441
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	0.771	1.498	0.4746	0.4842	1.070	1.290	0.1800	0.3763
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	0.343	0.667	0.2380	0.2428	0.750	0.904	0.0643	0.1345
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	0.122	0.236	0.1690	0.1724	0.593	0.715	0.0267	0.0558
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	0.205	0.398	0.3324	0.3391	0.669	0.806	0.0830	0.1734
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	0.204	0.396	0.2239	0.2284	0.616	0.743	0.0708	0.1480
48010.0	TURNING BASIN	1697	2/4/97	48	0.106	0.205	0.2169	0.2213	0.419	0.505	0.1684	0.3520
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.128	0.250	0.4127	0.4210	0.450	0.542	0.0619	0.1294
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	0.295	0.574	0.3775	0.3851	0.767	0.925	0.0378	0.0791

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	LEADQE	LEADQP	MERCURQE	MERCURQP	NICKELQE	NICKELQP	SILVERQE	SILVERQP
48011.0	KING HARBOR	1700	2/5/97	48	0.380	0.739	0.9944	1.0144	0.523	0.631	0.1138	0.2379
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	0.434	0.843	0.3592	0.3664	0.686	0.827	0.0946	0.1977
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	0.139	0.269	0.1339	0.1366	0.498	0.600	0.0270	0.0565
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	0.087	0.169	0.1451	0.1480	0.419	0.505	0.0247	0.0517
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	0.083	0.161	0.0634	0.0647	0.405	0.488	0.0330	0.0689
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	0.081	0.157	0.0538	0.0549	0.568	0.685	0.0324	0.0678
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	0.149	0.290	0.0393	0.0401	0.665	0.801	0.0389	0.0814
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	0.074	0.144	0.0490	0.0500	0.905	1.091	0.0473	0.0989
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	0.066	0.128	0.0372	0.0379	0.603	0.727	0.0465	0.0972
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
48010.0	TURNING BASIN	1772	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
48011.0	KING HARBOR	1775	5/12/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	-9.000	-9.000	-9.0000	-9.0000	-9.000	-9.000	-9.0000	-9.0000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	0.099	0.192	0.3986	0.4066	0.952	1.147	0.1643	0.3435
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	0.145	0.283	0.4930	0.5029	0.996	1.201	0.1527	0.3192

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ZINCQE	ZINCQP	METSUMQE	METSUMQP	TTLCHLQE	TTLCHLQP	PPDDEQE	PPDDEQP
40001.1	SOUTHWEST SLIP	1	7/29/92	1	0.4878	0.7380	2.9033	3.1498	0.400	0.501	3.29630	0.23784
40001.2	SOUTHWEST SLIP	2	7/29/92	1	0.4634	0.7011	3.5169	4.1256	0.433	0.543	3.55556	0.25655
40001.3	SOUTHWEST SLIP	3	7/29/92	1	0.4878	0.7380	3.1828	4.0645	0.767	0.960	3.44444	0.24853
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	0.3171	0.4797	1.7891	2.2475	0.383	0.480	1.51852	0.10957
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	0.2439	0.3690	1.5475	1.8115	0.125	0.157	1.55556	0.11224
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.1707	0.2583	0.9612	1.1881	0.083	0.104	0.62963	0.04543
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	0.5366	0.8118	3.5060	4.9690	0.233	0.292	10.00000	0.72154
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	0.3902	0.5904	2.6151	3.8721	0.192	0.240	8.55556	0.61732
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	0.4634	0.7011	2.6927	3.2650	1.650	2.067	3.11111	0.22448
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	1.3171	1.9926	6.0775	8.0904	8.333	10.438	10.00000	0.72154
40006.2	CONSOLIDATED SLIP	17	7/31/92	1	1.3902	2.1033	6.3876	8.3545	7.667	9.603	10.00000	0.72154
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.1854	0.2804	1.1224	1.2994	0.083	0.104	4.07407	0.29396
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	0.4878	0.7380	2.5708	3.6826	0.250	0.313	16.29630	1.17584
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.3659	0.5535	2.3508	2.6650	0.083	0.104	1.18148	0.08525
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.3415	0.5166	2.0009	2.2612	0.083	0.104	1.00000	0.07215
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.3415	0.5166	1.8744	1.9901	0.083	0.104	0.84815	0.06120
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.3171	0.4797	1.7668	2.0520	0.083	0.104	0.94074	0.06788
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	0.5610	0.8487	2.8300	4.3677	0.217	0.271	8:14815	0.58792
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.5610	0.8487	2.7455	3.8029	0.158	0.198	6.29630	0.45430
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	0.5122	0.7749	2.5320	3.6926	0.225	0.282	5.96296	0.43025
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.4146	0.6273	2.2556	2.6478	0.083	0.104	2.18519	0.15767
40012.2	SOUTHEAST BASIN	35	8/18/92	2	0.4146	0.6273	2.3198	2.6353	0.083	0.104	2.03704	0.14698
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.2927	0.4428	1.9635	2.3415	0.083	0.104	2.59259	0.18707
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.2439	0.3690	1.4231	1.7534	0.083	0.104	1.66667	0.12026
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.2683	0.4059	2.0047	2.2835	0.083	0.104	1.22222	0.08819
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	0.2927	0.4428	1.8108	2.2635	0.083	0.104	4.11111	0.29663

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ZINCQE	ZINCQP	METSUMQE	METSUMQP	TTLCHLQE	TTLCHLQP	PPDDEQE	PPDDEQP
40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.2439	0.3690	1.4322	1.5872	0.083	0.104	0.88148	0.06360
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.3659	0.5535	2.1959	2.6371	0.083	0.104	3.43333	0.24773
40019.1	INNER FISH HARBOR	55	8/19/92	2	0.7561	1.1439	5.8172	8.0623	0.317	0.397	7.77778	0.56120
40019.2	INNER FISH HARBOR	56	8/19/92	2	0.7805	1.1808	6.7372	8.7980	0.300	0.376	7.40741	0.53447
40019.3	INNER FISH HARBOR	57	8/19/92	2	1.1951	1.8081	9.3915	12.6938	0.467	0.585	9.62963	0.69482
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.1537	0.2325	1.0060	0.9838	0.083	0.104	3.07037	0.22154
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.1585	0.2399	0.9600	1.0372	0.083	0.104	3.32963	0.24025
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	0.1537	0.2325	0.8215	1.0516	0.083	0.104	3.14815	0.22715
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.1927	0.2915	1.0060	1.4432	0.083	0.104	2.77778	0.20043
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.1707	0.2583	0.8950	1.1371	0.083	0.104	2.75926	0.19909
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.1878	0.2841	0.9621	1.1229	0.083	0.104	5.81481	0.41956
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	0.8049	1.2177	4.8125	6.2218	0.667	0.835	3.25926	0.23517
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	0.5366	0.8118	3.4465	4.1575	0.283	0.355	2.43333	0.17557
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	0.5610	0.8487	3.0605	4.2851	0.300	0.376	2.61481	0.18867
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	0.5366	0.8118	7.1843	7.7162	0.200	0.251	2.25926	0.16301
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	0.4634	0.7011	2.1689	2.6843	2.467	3.090	1.00000	0.07215
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	0.4390	0.6642	2.0179	2.4741	3.150	3.946	0.88889	0.06414
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	0.4878	0.7380	2.8951	3.5175	2.917	3.653	1.74074	0.12560
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	0.5122	0.7749	2.6864	3.3692	3.150	3.946	1.51852	0.10957
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.3415	0.5166	1.9641	2.2374	0.083	0.104	4.07407	0.29396
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	0.3659	0.5535	2.0118	2.5583	0.500	0.626	2.70370	0.19508
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	0.2439	0.3690	1.1939	1.5228	0.383	0.480	1.69630	0.12239
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	0.2927	0.4428	1.4477	1.8573	0.350	0.438	2.00000	0.14431
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	0.3171	0.4797	1.5062	1.9321	0.467	0.585	2.25926	0.16301
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	0.2366	0.3579	2.4971	3.9192	0.508	0.637	84.07407	6.06627
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	0.2439	0.3690	2.4236	3.7115	0.267	0.334	107.40740	7.74987
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	0.2146	0.3247	2.0201	2.9963	0.208	0.261	81.48148	5.87921
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	0.3415	0.5166	1.7774	2.3129	0.583	0.731	0.74074	0.05345
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	0.3902	0.5904	1.8798	2.4181	1.217	1.524	1.33333	0.09621
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	0.4390	0.6642	1.8606	2.6648	1.250	1.566	1.47407	0.10636

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ZINCQE	ZINCQP	METSUMQE	METSUMQP	TTLCHLQE	TTLCHLQP	PPDDEQE	PPDDEQP
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	0.2927	0.4428	-16.8638	-16.4947	0.433	0.543	0.51852	0.03741
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.5366	0.8118	2.8639	3.9227	0.142	0.177	5.92593	0.42758
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44014.0	MARINA DEL REY	614	1/14/93	11	1.5122	2.2878	7.6634	12.3115	3.683	4.614	2.57037	0.18546
44016.0	MUGU LAGOON	616	1/12/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44017.0	COLORADO LAGOON	617	1/14/93	11	1.6829	2.5461	6.4661	9.5833	21.750	27.244	3.32963	0.24025
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44020.0	SHORELINE MARINA	620	1/14/93	11	0.7073	1.0701	3.6666	5.6511	3.133	3.925	1.95926	0.14137
44021.0	VENTURA MARINA	621	1/13/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	0.9268	1.4022	5.1182	7.6355	0.533	0.668	2.26296	0.16328
44024.0	BALLONA CREEK	624	1/14/93	11	0.4634	0.7011	2.0498	3.1525	18.067	22.630	3.92593	0.28327
44026.0	SIM'S POND	626	1/14/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	0.2927	0.4428	1.0884	1.5786	25.133	31.482	57.03704	4.11545
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	0.2683	0.4059	1.7786	2.3621	0.208	0.261	5.25926	0.37948
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	0.2683	0.4059	1.6081	2.1585	0.208	0.261	6.70370	0.48370
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	0.3415	0.5166	2.0248	2.8717	0.262	0.328	7.22222	0.52111
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20	0.3415	0.5166	1.9499	2.2692	0.208	0.261	1.13333	0.08177
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20	0.3659	0.5535	1.8202	2.1981	0.208	0.261	1.15185	0.08311

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ZINCQE	ZINCQP	METSUMQE	METSUMQP	TTLCHLQE	TTLCHLQP	PPDDEQE	PPDDEQP
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	0.3902	0.5904	1.9290	2.3131	0.208	0.261	0.84074	0.06066
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	0.3902	0.5904	1.8992	2.5187	0.878	1.099	3.19630	0.23063
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	0.4390	0.6642	2.0687	2.7202	0.985	1.234	2.86296	0.20657
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	0.3415	0.5166	1.7979	2.3814	1.282	1.605	2.27037	0.16382
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	0.2439	0.3690	1.9278	3.1501	0.403	0.505	77.40741	5.58525
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	0.2439	0.3690	2.0245	3.2870	0.334	0.419	112.22220	8.09727
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	0.2439	0.3690	2.2346	3.5110	0.840	1.052	74.44444	5.37146
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	0.6341	0.9594	2.6808	3.9209	0.440	0.552	5.55556	0.40086
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	0.7317	1.1070	3.0780	4.6825	0.208	0.261	9.66667	0.69749
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	0.6341	0.9594	2.6783	3.9297	0.667	0.835	5.88889	0.42491
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	0.5610	0.8487	2.8590	4.4392	0.407	0.509	6.29630	0.45430
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	0.2400	0.3631	1.9306	2.9683	0.306	0.384	102.22220	7.37573
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	0.3049	0.4613	2.4024	3.8564	0.446	0.558	103.70370	7.48263
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	0.2183	0.3303	1.8104	2.8797	0.347	0.434	63.33333	4.56975
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	0.3951	0.5978	1.6730	2.3802	0.952	1.193	2.14815	0.15500
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	0.4049	0.6125	1.8295	2.4454	1.462	1.831	2.09259	0.15099
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	0.3634	0.5498	1.5233	2.2180	0.960	1.203	1.98519	0.14324
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	0.4073	0.6162	2.4568	2.8188	0.300	0.376	1.86667	0.13469
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	0.3585	0.5424	2.2320	2.5528	0.270	0.338	1.75556	0.12667
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	0.3073	0.4649	1.8700	2.0796	0.208	0.261	1.17778	0.08498
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	1.1293	1.7085	5.5661	7.6648	18.795	23.543	13.33333	0.96205
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	1.4780	2.2362	5.7663	7.8670	13.930	17.449	8.37037	0.60396
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	1.5024	2.2731	6.3203	8.4260	9.684	12.130	7.85185	0.56654
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	0.1420	0.2148	1.0108	1.0724	0.208	0.261	0.50370	0.03634
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	0.1534	0.2321	1.0745	1.1088	0.208	0.261	0.54444	0.03928
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	0.1710	0.2587	1.1745	1.3126	0.253	0.317	0.76296	0.05505
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	0.3195	0.4834	1.5398	2.1792	2.057	2.576	0.32259	0.02328
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	0.3366	0.5092	1.6624	2.1430	2.520	3.157	0.29185	0.02106
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	0.5220	0.7897	2.3972	3.1864	4.145	5.192	0.54444	0.03928
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	0.4000	0.6052	1.9774	2.5236	0.368	0.461	3.92593	0.28327
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	0.4122	0.6236	2.0619	2.6043	0.632	0.791	3.70000	0.26697
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	0.3537	0.5351	1.9322	2.3402	0.208	0.261	2.24815	0.16221
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	0.4829	0.7306	2.8420	3.6023	0.759	0.951	2.28519	0.16489
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	0.4610	0.6974	2.9402	3.7307	0.883	1.106	2.14815	0.15500
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	0.3902	0.5904	2.4040	2.8591	0.443	0.555	1.75926	0.12694
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	0.8878	1.3432	4.0485	6.0337	4.648	5.823	1.61111	0.11625
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	0.7878	1.1919	3.9018	5.4897	5.461	6.840	1.74444	0.12587
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	0.6732	1.0185	3.3816	4.7918	7.613	9.536	1.62222	0.11705
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	0.7000	1.0590	3.4267	5.6969	0.400	0.501	5.03704	0.36344
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	0.6415	0.9705	3.8366	6.2672	0.421	0.527	5.40741	0.39017

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ZINCQE	ZINCQP	METSUMQE	METSUMQP	TTLCHLQE	TTLCHLQP	PPDDEQE	PPDDEQP
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	0.7268	1.0996	3.6387	6.0760	0.340	0.426	5.00000	0.36077
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	0.6902	1.0443	3.1335	5.1096	0.508	0.637	5.92593	0.42758
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	0.6268	0.9483	3.0144	4.7607	0.516	0.646	4.92593	0.35542
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	0.5122	0.7749	2.5243	4.1530	0.532	0.666	5.25926	0.37948
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	0.6415	0.9705	3.2610	5.1278	0.462	0.578	5.11111	0.36879
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	0.5585	0.8450	3.3285	5.3712	0.429	0.537	6.07407	0.43827
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	0.5390	0.8155	2.6879	4.4812	0.311	0.390	4.66667	0.33672
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	0.4610	0.6974	2.0926	2.6219	1.657	2.075	0.65556	0.04730
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	0.4732	0.7159	1.9771	2.5739	1.543	1.933	0.55926	0.04035
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	0.4512	0.6827	2.0020	2.4727	1.823	2.284	0.61111	0.04409
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	1.2610	1.9077	6.4044	9.9236	4.007	5.019	2.63333	0.19001
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	1.5512	2.3469	7.1360	11.1520	6.343	7.946	2.30370	0.16622
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	1.1854	1.7934	5.3603	8.8072	3.455	4.328	2.02593	0.14618
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	1.0317	1.5609	4.4504	6.5584	11.953	14.973	2.00370	0.14458
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	1.2878	1.9483	5.3592	7.6752	9.222	11.551	2.15185	0.15526
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	1.0780	1.6310	4.5573	6.7224	15.937	19.963	1.90741	0.13763
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ZINCQE	ZINCQP	METSUMQE	METSUMQP	TTLCHLQE	TTLCHLQP	PPDDEQE	PPDDEQP
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	0.2780	0.4207	1.3254	1.9751	0.598	0.749	0.50000	0.03608
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	0.3171	0.4797	1.4696	2.2056	0.305	0.382	0.58148	0.04196
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	0.4146	0.6273	1.8437	2.4681	38.850	48.664	40.37037	2.91288
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	0.0920	0.1391	0.5922	0.7955	0.208	0.261	1.12963	0.08151
44014.0	MARINA DEL REY	1630	6/19/96	45	0.9756	1.4760	5.7348	8.6365	4.147	5.194	2.64074	0.19054
44020.0	SHORELINE MARINA	1631	6/20/96	45	0.8732	1.3210	4.2512	6.4103	5.553	6.956	2.15556	0.15553
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	0.3537	0.5351	2.2302	2.3886	0.590	0.739	1.82593	0.13175
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	0.9390	1.4207	5.1624	6.8212	9.023	11.303	7.33333	0.52913
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	0.7634	1.1550	4.6533	6.5280	11.033	13.820	8.70370	0.62801
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	1.1463	1.7343	5.6426	7.5278	8.497	10.643	6.96296	0.50241
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	0.7537	1.1402	4.8565	6.1301	12.432	15.572	7.40741	0.53447
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	0.9463	1.4317	4.7379	6.2095	8.893	11.140	6.29630	0.45430
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	1.3854	2.0959	13.7966	15.4378	-9.000	-9.000	11.70370	0.84447
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	1.1537	1.7454	4.6656	7.1165	9.083	11.378	7.55556	0.54516
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	1.7976	2.7196	7.9459	12.4513	41.000	51.357	14.07407	1.01550
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	1.0902	1.6494	24.3534	21.6377	-9.000	-9.000	5.18519	0.37413
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	1.7073	2.5830	38.2552	33.0536	-9.000	-9.000	3.02222	0.21807
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	2.4634	3.7269	18.2156	24.5738	1.950	2.443	0.12000	0.00866
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	0.6463	0.9779	4.7610	5.0631	7.447	9.328	4.25926	0.30732
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	0.8463	1.2804	6.8675	8.5624	9.720	12.175	6.59259	0.47568
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	1.1634	1.7601	6.9353	7.4672	11.628	14.566	10.74074	0.77499
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46	0.5049	0.7638	3.5614	4.9515	5.407	6.772	3.88889	0.28060
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	1.2098	1.8303	5.9299	8.5397	2.478	3.104	1.19259	0.08605
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	1.2683	1.9188	4.8789	7.5557	1.858	2.328	0.77037	0.05559
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	1.4366	2.1734	7.2739	11.0847	2.938	3.681	0.95926	0.06921
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	0.7805	1.1808	3.6472	5.4756	3.277	4.105	0.94074	0.06788
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	0.6341	0.9594	4.1984	6.2137	10.666	13.360	1.38519	0.09995
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	1.0171	1.5387	5.1285	6.8740	6.609	8.278	1.06296	0.07670
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	0.9976	1.5092	4.7855	6.3690	0.313	0.392	0.92963	0.06708
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	0.5732	0.8672	2.0565	3.1955	1.600	2.004	0.54815	0.03955
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	0.3854	0.5830	1.4750	1.7809	2.921	3.659	0.63333	0.04570
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	0.3073	0.4649	1.9327	2.4058	1.097	1.374	1.35185	0.09754
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	0.3878	0.5867	1.7966	2.2047	1.047	1.311	2.05185	0.14805
48010.0	TURNING BASIN	1697	2/4/97	48	0.2561	0.3875	1.2512	1.7938	0.320	0.401	0.65556	0.04730
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.2585	0.3911	1.5391	1.8574	0.157	0.196	1.15704	0.08348
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	0.4488	0.6790	2.2994	2.6717	0.197	0.247	0.99630	0.07189

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	ZINCQE	ZINCQP	METSUMQE	METSUMQP	TTLCHLQE	TTLCHLQP	PPDDEQE	PPDDEQP
48011.0	KING HARBOR	1700	2/5/97	48	0.2878	0.4354	2.6137	3.6803	0.485	0.608	2.04444	0.14751
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	0.4878	0.7380	2.5989	3.3721	2.412	3.021	1.17778	0.08498
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	0.3244	0.4908	1.1863	1.7875	0.587	0.735	1.02222	0.07376
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	0.1634	0.2472	0.8643	1.2112	0.554	0.694	1.65556	0.11945
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	0.1634	0.2472	0.7281	1.1222	0.813	1.018	2.52222	0.18199
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	0.2302	0.3483	0.9173	1.3953	2.162	2.708	4.85185	0.35008
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	0.2878	0.4354	1.3528	1.8427	1.818	2.278	4.14815	0.29931
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	0.5341	0.8081	1.9668	2.5584	1.920	2.405	6.11111	0.44094
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	0.2829	0.4280	1.1715	1.6020	1.489	1.865	4.77778	0.34474
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
48010.0	TURNING BASIN	1772	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
48011.0	KING HARBOR	1775	5/12/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.0000	-9.0000	-72.0000	-63.0000	-9.000	-9.000	-9.00000	-9.00000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	0.495	0.620	5.48148	0.39551
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	0.139	0.175	2.76296	0.19936
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	-9.0000	-9.0000	-72.0000	-63.0000	0.152	0.190	1.41852	0.10235
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	0.3439	0.5203	4.0377	6.1447	0.446	0.558	2.62222	0.18920
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	0.5073	0.7675	3.1509	4.6488	0.258	0.323	8.66667	0.62533

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STANUM	STATION	IDORG	DATE	LEG	PPDDTQP	TTLDDTQE	TTLDDTQP	DIELDRQE	DIELDRQP	ENDRINQE	LINDANEQP	TTLPCBQE
40001.1	SOUTHWEST SLIP	1	7/29/92	1	2.09644	0.08	0.08	0.031	0.058	0.02222	0.101	0.864
40001.2	SOUTHWEST SLIP	2	7/29/92	1	2.09644	0.10	0.10	0.031	0.058	0.02222	0.101	1.027
40001.3	SOUTHWEST SLIP	3	7/29/92	1	0.10482	0.06	0.06	0.031	0.058	0.02222	0.101	1.067
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	0.77568	0.07	0.07	0.031	0.058	0.02222	0.101	0.574
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	2.03354	0.10	0.10	0.031	0.058	0.02222	0.101	0.268
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.46122	0.04	0.04	0.031	0.058	0.02222	0.101	0.263
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	0.52411	0.10	0.10	0.031	0.058	0.02222	0.101	0.829
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	0.90147	0.34	0.34	0.031	0.058	0.02222	0.101	1.451
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	7.12788	0.08	0.08	0.150	0.279	0.02222	0.101	1.129
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	10.90147	0.11	0.11	0.888	1.651	0.02222	0.101	2.632
40006.2	CONSOLIDATED SLIP	17	7/31/92	1	7.54717	0.12	0.12	0.775	1.442	0.02222	0.101	2.969
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.52411	0.27	0.27	0.031	0.058	0.02222	0.101	0.113
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	1.06918	0.42	0.42	0.031	0.058	0.02222	0.101	0.687
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.10482	0.08	0.08	0.031	0.058	0.02222	0.101	0.354
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.33543	0.05	0.05	0.031	0.058	0.02222	0.101	0.304
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.10482	0.09	0.09	0.031	0.058	0.02222	0.101	0.229
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.10482	0.09	0.09	0.031	0.058	0.02222	0.101	0.209
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	0.10482	0.09	0.09	0.063	0.116	0.02222	0.101	0.614
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.10482	0.08	0.08	0.088	0.163	0.02222	0.101	0.520
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	0.10482	0.19	0.19	0.475	0.884	0.02222	0.101	0.528
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.10482	0.05	0.05	0.031	0.058	0.02222	0.101	0.125
40012.2	SOUTHEAST BASIN	35	8/18/92	2	1.04822	0.05	0.05	0.031	0.058	0.02222	0.101	0.191
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.10482	0.09	0.09	0.031	0.058	0.02222	0.101	0.363
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.10482	0.09	0.09	0.031	0.058	0.02222	0.101	0.280
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.10482	0.05	0.05	0.031	0.058	0.02222	0.101	0.245
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	1.11111	0.21	0.21	0.031	0.058	0.02222	0.101	0.393

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STA NUM	STATION	IDORG	DATE	LEG	PPDDTQP	TTLDDTQE	TTLDDTQP	DIELDRQE	DIELDRQP	ENDRINQE	LINDANEQP	TTLPCBQE
40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.77568	0.07	0.07	0.031	0.058	0.02222	0.101	0.204
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.20964	0.21	0.21	0.031	0.058	0.02222	0.101	0.419
40019.1	INNER FISH HARBOR	55	8/19/92	2	0.10482	0.10	0.10	0.031	0.058	0.02222	0.101	1.956
40019.2	INNER FISH HARBOR	56	8/19/92	2	0.20964	0.10	0.10	0.031	0.058	0.02222	0.101	2.011
40019.3	INNER FISH HARBOR	57	8/19/92	2	1.63522	0.10	0.10	0.031	0.058	0.02222	0.101	2.596
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.37736	0.41	0.41	0.031	0.058	0.02222	0.101	0.093
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.44025	0.40	0.40	0.031	0.058	0.02222	0.101	0.098
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	0.10482	0.12	0.12	0.031	0.058	0.02222	0.101	-9.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.10482	0.22	0.22	0.031	0.058	0.02222	0.101	0.098
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.31447	0.32	0.32	0.031	0.058	0.02222	0.101	0.107
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.60797	0.69	0.69	0.031	0.058	0.02222	0.101	0.238
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	0.10482	0.07	0.07	0.031	0.058	0.02222	0.101	1.761
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	0.50314	0.09	0.09	0.031	0.058	0.02222	0.101	0.602
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	0.25157	0.05	0.05	0.031	0.058	0.02222	0.101	0.640
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	0.10482	0.05	0.05	0.300	0.558	0.02222	0.101	0.511
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	1.53040	0.02	0.02	0.463	0.860	0.02222	0.101	0.390
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	2.45283	0.04	0.04	0.813	1.512	0.02222	0.101	0.359
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	1.40461	0.03	0.03	0.538	1.000	0.02222	0.101	0.804
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	0.96436	0.03	0.03	0.275	0.512	0.02222	0.101	0.804
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.27254	0.09	0.09	0.031	0.058	0.02222	0.101	0.196
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	0.62893	0.07	0.07	0.031	0.058	0.02222	0.101	0.436
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	0.20964	0.12	0.12	0.031	0.058	0.02222	0.101	0.318
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	0.50314	0.07	0.07	0.031	0.058	0.02222	0.101	0.280
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	0.25157	0.09	0.09	0.031	0.058	0.02222	0.101	0.288
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	12.76730	3.21	3.21	0.031	0.058	0.02222	0.101	1.493
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	4.40252	1.19	1.19	0.031	0.058	0.02222	0.101	1.507
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	0.46122	3.60	3.60	0.031	0.058	0.02222	0.101	1.134
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	0.10482	0.03	0.03	0.031	0.058	0.02222	0.101	0.204
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	0.10482	0.04	0.04	0.031	0.058	0.02222	0.101	0.341
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	0.41929	0.06	0.06	0.031	0.058	0.02222	0.101	0.441

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STANUM	STATION	IDORG	DATE	LEG	PPDDTQP	TTLDDTQE	TTLDDTQP	DIELDRQE	DIELDRQP	ENDRINQE	LINDANEQP	TTLPCBQE
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	0.10482	0.03	0.03	0.031	0.058	0.02222	0.101	0.137
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.10482	0.09	0.09	0.031	0.058	0.02222	0.101	0.458
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11	0.58700	0.09	0.09	0.413	0.767	0.02222	0.101	1.716
44016.0	MUGU LAGOON	616	1/12/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11	10.67086	0.11	0.11	3.038	5.651	0.02222	0.808	1.071
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11	0.44025	0.08	0.08	0.250	0.465	0.02222	0.101	2.153
44021.0	VENTURA MARINA	621	1/13/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	2.20126	0.14	0.14	0.063	0.116	0.02222	0.101	0.216
44024.0	BALLONA CREEK	624	1/14/93	11	9.30818	0.07	0.07	3.450	6.419	0.02222	1.212	2.292
44026.0	SIMS POND	626	1/14/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	123.89940	3.19	3.19	2.950	5.488	0.48444	0.505	0.071
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	0.10482	0.12	0.12	0.031	0.058	0.02222	0.101	0.423
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	0.10482	0.18	0.18	0.031	0.058	0.02222	0.101	0.671
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	0.10482	0.11	0.11	0.031	0.058	0.02222	0.101	0.692
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20	0.10482	0.06	0.06	0.031	0.058	0.02222	0.101	0.286
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20	0.10482	0.06	0.06	0.031	0.058	0.02222	0.101	0.279

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	PPDDTQP	TTLDDTQE	TTLDDTQP	DIELDRQE	DIELDRQP	ENDRINQE	LINDANEQP	TTLPCBQE
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	0.10482	0.03	0.03	0.031	0.058	0.02222	0.101	0.296
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	0.26625	0.09	0.09	0.031	0.058	0.02222	0.101	0.495
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	0.43396	0.07	0.07	0.087	0.162	0.02222	0.101	0.452
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	0.62683	0.07	0.07	0.031	0.058	0.02222	0.101	0.534
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	4.57023	0.86	0.86	0.031	0.058	0.02222	0.101	1.442
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	11.84486	1.28	1.28	0.031	0.058	0.02222	0.101	1.675
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	22.43187	0.92	0.92	0.031	0.058	0.02222	0.101	1.680
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	0.10482	0.08	0.08	0.031	0.058	0.02222	0.101	0.623
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	0.10482	0.11	0.11	0.031	0.058	0.02222	0.101	0.669
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	0.22013	0.09	0.09	0.031	0.058	0.02222	0.101	0.611
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	0.10482	0.11	0.11	0.031	0.058	0.02222	0.101	0.631
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	12.53669	1.80	1.80	0.031	0.058	0.02222	0.101	1.507
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	7.71488	1.68	1.68	0.031	0.058	0.02222	0.101	1.738
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	3.10273	1.06	1.06	0.031	0.058	0.02222	0.101	1.232
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	0.47589	0.06	0.06	0.031	0.058	0.02222	0.101	0.473
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	0.52621	0.06	0.06	0.031	0.058	0.02222	0.101	0.505
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	0.25786	0.07	0.07	0.031	0.058	0.02222	0.101	0.482
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	0.37736	0.05	0.05	0.031	0.058	0.02222	0.101	0.275
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	0.39203	0.05	0.05	0.031	0.058	0.02222	0.101	0.231
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	0.10482	0.04	0.04	0.031	0.058	0.02222	0.101	0.218
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	7.21174	0.14	0.14	0.145	0.270	0.02222	0.101	2.850
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	6.79245	0.11	0.11	0.309	0.574	0.02222	0.101	2.803
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	4.50734	0.08	0.08	0.670	1.247	0.02222	0.101	3.214
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	0.34591	0.06	0.06	0.031	0.058	0.02222	0.101	0.135
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	0.30608	0.07	0.07	0.031	0.058	0.02222	0.101	0.135
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	0.77568	0.03	0.03	0.031	0.058	0.02222	0.101	0.220
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	0.64151	0.07	0.07	0.206	0.384	0.02222	0.101	0.218
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	0.10482	0.02	0.02	0.031	0.058	0.02222	0.101	0.206
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	1.21593	0.02	0.02	0.471	0.877	0.02222	0.101	0.418
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	0.88889	0.09	0.09	0.031	0.058	0.02222	0.101	0.276
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	0.46541	0.09	0.09	0.031	0.058	0.02222	0.101	0.286
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	0.10482	0.06	0.06	0.031	0.058	0.02222	0.101	0.203
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	0.39203	0.07	0.07	0.031	0.058	0.02222	0.101	1.391
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	1.06499	0.07	0.07	0.066	0.123	0.02222	0.101	1.068
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	0.10482	0.08	0.08	0.031	0.058	0.02222	0.101	0.768
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	0.10482	0.02	0.02	0.186	0.347	0.02222	0.101	1.907
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	0.72537	0.03	0.03	0.245	0.456	0.02222	0.101	2.253
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	1.33962	0.03	0.03	0.031	0.058	0.02222	0.101	2.183
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	0.10482	0.07	0.07	0.031	0.058	0.02222	0.101	0.625
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	0.10482	0.07	0.07	0.031	0.058	0.02222	0.101	0.597

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	PPDDTQP	TTLDDTQE	TTLDDTQP	DIELDRQE	DIELDRQP	ENDRINQE	LINDANEQP	TTLPCBQE
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	0.10482	0.07	0.07	0.031	0.058	0.02222	0.101	0.622
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	0.10482	0.09	0.09	0.031	0.058	0.02222	0.101	0.629
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	0.10482	0.08	0.08	0.031	0.058	0.02222	0.101	0.602
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	0.10482	0.08	0.08	0.031	0.058	0.02222	0.101	0.573
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	0.10482	0.08	0.08	0.031	0.058	0.02222	0.101	0.567
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	0.10482	0.09	0.09	0.031	0.058	0.02222	0.101	0.621
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	0.72537	0.08	0.08	0.031	0.058	0.02222	0.101	0.492
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	0.10482	0.03	0.03	0.065	0.121	0.02222	0.101	0.381
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	0.10482	0.02	0.02	0.031	0.058	0.02222	0.101	0.379
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	0.10482	0.03	0.03	0.064	0.119	0.02222	0.101	0.421
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	0.27254	0.04	0.04	0.241	0.449	0.02222	0.101	1.720
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	0.33753	0.03	0.03	0.319	0.593	0.02222	0.101	2.175
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	0.33333	0.03	0.03	0.168	0.312	0.02222	0.101	1.625
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	11.97065	0.03	0.03	1.438	2.674	0.02222	0.101	1.271
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	1.29560	0.02	0.02	0.880	1.637	0.02222	0.101	1.325
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	2.43187	0.02	0.02	1.338	2.488	0.02222	0.101	1.348
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	PPDDTQP	TTLDDTQE	TTLDDTQP	DIELDRQE	DIELDRQP	ENDRINQE	LINDANEQP	TTLPCBQE
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	-9.000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	2.475
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	2.255
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	-9.00000	-9.00	-9.00	-9.000	-9.000	-9.00000	-9.000	0.973
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	1.23061	0.04	0.04	0.031	0.058	0.02222	0.101	2.588
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	0.93501	0.03	0.03	0.421	0.784	0.02222	0.101	0.554
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	49.89518	0.81	0.81	2.100	3.907	0.02222	0.101	0.088
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	0.35639	0.08	0.08	0.031	0.058	0.02222	0.101	0.067
44014.0	MARINA DEL REY	1630	6/19/96	45	0.55136	0.04	0.04	0.733	1.363	0.02222	0.101	1.322
44020.0	SHORELINE MARINA	1631	6/20/96	45	0.53459	0.03	0.03	0.125	0.232	0.02222	0.101	1.849
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	0.10482	0.04	0.04	0.113	0.210	0.02222	0.101	0.181
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	3.39623	0.11	0.11	0.428	0.795	0.02222	0.101	5.455
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	2.95597	0.23	0.23	0.568	1.056	0.02222	0.101	3.590
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	8.90985	0.09	0.09	1.174	2.184	0.02222	0.101	11.768
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	5.09434	0.22	0.22	0.454	0.844	0.02222	0.101	4.463
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	91.19497	0.25	0.25	1.263	2.349	0.02222	0.101	7.892
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	-9.00000	0.09	0.09	-9.000	-9.000	-9.00000	-9.000	4.963
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	3.24948	0.13	0.13	0.883	1.642	0.02222	0.101	2.705
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	12.01258	0.30	0.30	4.163	7.744	0.02222	0.101	7.453
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	-9.00000	0.02	0.02	-9.000	-9.000	-9.00000	-9.000	8.888
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	-9.00000	0.01	0.01	-9.000	-9.000	-9.00000	-9.000	2.921
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	12.62055	0.01	0.01	0.031	0.058	0.19444	1.343	0.510
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	2.06080	0.08	0.08	0.520	0.967	0.02222	0.101	1.368
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	6.87631	0.09	0.09	0.789	1.467	0.02222	0.101	5.235
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	3.77358	0.10	0.10	1.763	3.279	0.02222	0.101	2.306
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46	2.99790	0.07	0.07	0.201	0.374	0.02222	0.101	2.008
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	0.40461	0.03	0.03	0.305	0.567	0.02222	0.101	0.918
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	0.31866	0.02	0.02	0.261	0.486	0.00800	0.101	0.723
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	0.33962	0.02	0.02	0.356	0.663	0.01044	0.671	1.382
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	0.43396	0.03	0.03	0.226	0.421	0.00733	0.101	0.605
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	1.36897	0.03	0.03	0.620	1.153	0.03911	0.473	1.113
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	0.45073	0.02	0.02	0.429	0.798	0.02222	0.291	3.118
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	0.09644	0.01	0.01	0.139	0.258	0.00644	0.101	0.183
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	0.14885	0.02	0.02	0.133	0.247	0.02222	0.101	0.755
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	0.31656	0.08	0.08	0.244	0.453	0.02222	0.163	1.045
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	0.64570	0.05	0.05	0.170	0.316	0.01044	0.431	0.459
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	0.84067	0.08	0.08	0.117	0.218	0.02222	0.101	0.337
48010.0	TURNING BASIN	1697	2/4/97	48	0.65199	0.11	0.11	0.101	0.187	0.02222	0.194	1.019
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.28512	0.11	0.11	0.061	0.114	0.02222	0.256	0.201
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	0.21803	0.06	0.06	0.054	0.101	0.02222	0.101	0.195

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STANUM	STATION	IDORG	DATE	LEG	PPDDTQP	TTLDDTQE	TTLDDTQP	DIELDRQE	DIELDRQP	ENDRINQE	LINDANEQP	TTLPCBQE
48011.0	KING HARBOR	1700	2/5/97	48	0.22222	0.07	0.07	0.134	0.249	0.02222	0.139	1.028
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	1.19287	0.03	0.03	0.184	0.342	0.02222	0.101	0.533
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	1.56184	0.07	0.07	0.078	0.145	0.02222	0.299	0.122
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	1.35220	0.10	0.10	0.071	0.131	0.02222	0.101	0.179
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	2.59958	0.11	0.11	0.131	0.244	0.02222	0.101	0.305
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	18.11321	0.46	0.46	0.325	0.605	0.02733	0.101	0.276
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	4.04612	0.14	0.14	0.188	0.349	0.02222	0.101	0.230
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	11.42558	0.16	0.16	0.300	0.558	0.02222	0.101	0.207
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	11.92872	0.21	0.21	0.221	0.412	0.02222	0.392	0.177
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
48010.0	TURNING BASIN	1772	5/13/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
48011.0	KING HARBOR	1775	5/12/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.00000	0.00	0.00	-9.000	-9.000	-9.00000	-9.000	-9.000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	1.76101	0.08	0.08	0.379	0.705	0.02222	0.101	0.661
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	0.62264	0.07	0.07	0.092	0.170	0.02222	0.101	0.232
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	0.31237	0.04	0.04	0.048	0.089	0.02222	0.101	0.114
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	1.04822	0.00	0.00	0.106	0.197	0.05244	0.101	1.082
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	0.24738	0.11	0.11	0.115	0.215	0.02222	1.061	0.517

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STANUM	STATION	IDORG	DATE	LEG	TTLPCBQP	ACYQE	ACYQP	ACEQE	ACEQP	ANTQE	ANTQP	BAAQE	BAAQP	BAPQE
40001.1	SOUTHWEST SLIP	1	7/29/92	1	0.824	-9.00000	-9.00000	0.16600	0.93363	0.56364	2.53061	0.60625	1.40066	0.68750
40001.2	SOUTHWEST SLIP	2	7/29/92	1	0.979	-9.00000	-9.00000	0.04200	0.23622	0.35455	1.59184	0.53750	1.24182	1.00000
40001.3	SOUTHWEST SLIP	3	7/29/92	1	1.018	-9.00000	-9.00000	0.26000	1.46232	1.27273	5.71429	1.37500	3.17676	2.06250
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	0.548	-9.00000	-9.00000	0.01240	0.06974	0.08818	0.39592	0.13125	0.30324	0.25000
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	0.255	-9.00000	-9.00000	0.04000	0.22497	0.17273	0.77551	0.17500	0.40431	0.17500
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.251	-9.00000	-9.00000	0.01700	0.09561	0.05455	0.24490	0.07500	0.17328	0.07500
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	0.791	-9.00000	-9.00000	0.07000	0.39370	0.21818	0.97959	0.25625	0.59203	0.26250
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	1.384	-9.00000	-9.00000	0.03520	0.19798	0.09727	0.43673	0.10125	0.23392	0.17313
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	1.076	-9.00000	-9.00000	0.03200	0.17998	0.07182	0.32245	0.16875	0.38987	0.28750
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	2.510	-9.00000	-9.00000	0.07600	0.42745	0.14545	0.65306	0.43125	0.99635	0.39375
40006.2	CONSOLIDATED SLIP	17	7/31/92	1	2.831	-9.00000	-9.00000	0.10400	0.58493	0.20000	0.89796	0.62500	1.44398	0.57500
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.108	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.01063	0.02455	0.01938
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	0.655	-9.00000	-9.00000	0.00500	0.02812	0.02273	0.10204	0.04438	0.10252	0.08125
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.338	-9.00000	-9.00000	0.07440	0.41845	0.17455	0.78367	0.18000	0.41587	0.26750
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.290	-9.00000	-9.00000	0.02400	0.13498	0.07818	0.35102	0.10625	0.24548	0.15000
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.219	-9.00000	-9.00000	0.00500	0.02812	0.01264	0.05673	0.03019	0.06974	0.05031
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.199	-9.00000	-9.00000	0.00500	0.02812	0.03136	0.14082	0.04369	0.10093	0.06938
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	0.586	-9.00000	-9.00000	0.01620	0.09111	0.05273	0.23673	0.12500	0.28880	0.18125
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.496	-9.00000	-9.00000	0.01620	0.09111	0.03273	0.14694	0.08125	0.18772	0.09375
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	0.503	-9.00000	-9.00000	0.00500	0.02812	0.03109	0.13959	0.04981	0.11509	0.11188
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.119	-9.00000	-9.00000	0.01960	0.11024	0.12727	0.57143	0.17500	0.40431	0.18750
40012.2	SOUTHEAST BASIN	35	8/18/92	2	0.182	-9.00000	-9.00000	0.01080	0.06074	0.07455	0.33469	0.14375	0.33212	0.15000
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.346	-9.00000	-9.00000	0.01480	0.08324	0.01182	0.05306	0.03875	0.08953	0.06875
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.267	-9.00000	-9.00000	0.00500	0.02812	0.01145	0.05143	0.02206	0.05097	0.04600
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.234	-9.00000	-9.00000	0.05200	0.29246	0.02091	0.09388	0.04125	0.09530	0.05688
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	0.374	-9.00000	-9.00000	0.00500	0.02812	0.00827	0.03714	0.00719	0.01661	0.03888

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STANUM	STATION	IDORG	DATE	LEG	TTLPCBQP	ACYQE	ACYQP	ACEQE	ACEQP	ANTQE	ANTQP	BAAQE	BAAQP	BAPQE
40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.195	-9.00000	-9.00000	0.00500	0.02812	0.00555	0.02490	0.00900	0.02079	0.02444
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.399	-9.00000	-9.00000	0.00500	0.02812	0.01700	0.07633	0.02181	0.05039	0.05906
40019.1	INNER FISH HARBOR	55	8/19/92	2	1.865	-9.00000	-9.00000	0.03200	0.17998	0.38182	1.71429	0.49375	1.14074	0.62500
40019.2	INNER FISH HARBOR	56	8/19/92	2	1.917	-9.00000	-9.00000	0.03000	0.16873	0.19091	0.85714	0.26250	0.60647	0.58125
40019.3	INNER FISH HARBOR	57	8/19/92	2	2.475	-9.00000	-9.00000	0.03200	0.17998	0.26364	1.18367	0.52500	1.21294	1.00000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.089	-9.00000	-9.00000	0.00500	0.02812	0.00564	0.02531	0.00900	0.02079	0.01056
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.093	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.00463	0.01069	0.00631
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	-9.000	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.00475	0.01097	0.00563
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.094	-9.00000	-9.00000	0.00500	0.02812	0.01273	0.05714	0.04438	0.10252	0.03625
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.102	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.00494	0.01141	0.01063
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.227	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.01081	0.02498	0.01856
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	1.679	-9.00000	-9.00000	0.13000	0.73116	0.40000	1.79592	0.56875	1.31402	1.00000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	0.574	-9.00000	-9.00000	0.02460	0.13836	0.13364	0.60000	0.13000	0.30035	0.31438
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	0.610	-9.00000	-9.00000	0.02000	0.11249	0.16727	0.75102	0.16125	0.37255	0.33750
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	0.487	-9.00000	-9.00000	0.01180	0.06637	0.09091	0.40816	0.13750	0.31768	0.26875
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	0.372	-9.00000	-9.00000	0.01200	0.06749	0.01727	0.07755	0.05750	0.13285	0.06250
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	0.343	-9.00000	-9.00000	0.02200	0.12373	0.01309	0.05878	0.04594	0.10613	0.05850
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	0.766	-9.00000	-9.00000	0.00500	0.02812	0.01273	0.05714	0.04500	0.10397	0.06188
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	0.766	-9.00000	-9.00000	0.00500	0.02812	0.01273	0.05714	0.04250	0.09819	0.05938
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.186	-9.00000	-9.00000	0.00500	0.02812	0.01000	0.04490	0.02125	0.04910	0.02750
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	0.415	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.01750	0.04043	0.02813
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	0.304	-9.00000	-9.00000	0.00500	0.02812	0.00473	0.02122	0.01394	0.03220	0.02263
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	0.267	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.01750	0.04043	0.02563
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	0.274	-9.00000	-9.00000	0.00500	0.02812	0.00573	0.02571	0.02000	0.04621	0.02938
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	1.423	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.00569	0.01314	0.01781
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	1.437	-9.00000	-9.00000	0.00500	0.02812	0.00764	0.03429	0.00875	0.02022	0.02188
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	1.081	-9.00000	-9.00000	0.00500	0.02812	0.00564	0.02531	0.01000	0.02310	0.01625
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	0.194	-9.00000	-9.00000	0.00500	0.02812	0.00518	0.02327	0.02563	0.05920	0.03875
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	0.325	-9.00000	-9.00000	0.00500	0.02812	0.00864	0.03878	0.04250	0.09819	0.06063
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	0.420	-9.00000	-9.00000	0.00500	0.02812	0.00791	0.03551	0.03056	0.07061	0.06113

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STANUM	STATION	IDORG	DATE	LEG	TTLPCBQP	ACYQE	ACYQP	ACEQE	ACEQP	ANTQE	ANTQP	BAAQE	BAAQP	BAPQE
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	0.131	-9.00000	-9.00000	0.00500	0.02812	0.00764	0.03429	0.03375	0.07797	0.03750
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.437	-9.00000	-9.00000	0.00500	0.02812	0.02636	0.11837	0.10000	0.23104	0.13125
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44014.0	MARINA DEL REY	614	1/14/93	11	1.636	-9.00000	-9.00000	0.01260	0.07087	0.01436	0.06449	0.06813	0.15739	0.08750
44016.0	MUGU LAGOON	616	1/12/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44017.0	COLORADO LAGOON	617	1/14/93	11	1.021	-9.00000	-9.00000	0.22600	1.27109	0.17091	0.76735	0.43813	1.01223	0.43188
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44020.0	SHORELINE MARINA	620	1/14/93	11	2.053	-9.00000	-9.00000	0.00500	0.02812	0.00855	0.03837	0.03844	0.08880	0.05556
44021.0	VENTURA MARINA	621	1/13/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	0.206	-9.00000	-9.00000	0.00500	0.02812	0.00818	0.03673	0.02131	0.04924	0.02113
44024.0	BALLONA CREEK	624	1/14/93	11	2.185	-9.00000	-9.00000	0.08260	0.46457	0.10545	0.47347	0.27500	0.63535	0.24813
44026.0	SIM'S POND	626	1/14/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	0.068	-9.00000	-9.00000	0.00500	0.02812	0.00227	0.01020	0.00156	0.00361	0.00319
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	0.403	0.00980	0.04903	0.01170	0.06580	0.07700	0.34571	0.09500	0.21949	0.09063
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	0.640	0.01070	0.05356	0.02600	0.14623	0.07655	0.34367	0.11250	0.25992	0.12063
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	0.660	0.02656	0.13293	0.02220	0.12486	0.10545	0.47347	0.12313	0.28446	0.15750
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20	0.273	0.02156	0.10791	0.00500	0.02812	0.03855	0.17306	0.05869	0.13559	0.08375
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20	0.266	0.02063	0.10321	0.00500	0.02812	0.04555	0.20449	0.04325	0.09992	0.07500

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STANUM	STATION	IDORG	DATE	LEG	TTLPCBQP	ACYQE	ACYQP	ACEQE	ACEQP	ANTQE	ANTQP	BAAQE	BAAQP	BAPQE
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	0.282	0.02781	0.13918	0.01130	0.06355	0.02882	0.12939	0.04750	0.10974	0.08438
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	0.472	0.00391	0.01955	0.00500	0.02812	0.01527	0.06857	0.01031	0.02383	0.02406
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	0.431	0.00391	0.01955	0.00500	0.02812	0.01718	0.07714	0.01344	0.03105	0.02950
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	0.509	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.01800	0.04159	0.03313
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	1.375	0.01092	0.05466	0.00500	0.02812	0.01491	0.06694	0.00589	0.01360	0.02188
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	1.597	0.01263	0.06318	0.00500	0.02812	0.01255	0.05633	0.00329	0.00761	0.01800
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	1.602	0.01167	0.05841	0.00500	0.02812	0.00227	0.01020	0.00603	0.01392	0.01988
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	0.594	0.00844	0.04222	0.01208	0.06794	0.03573	0.16041	0.07000	0.16173	0.11313
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	0.638	0.01284	0.06427	0.01376	0.07739	0.06009	0.26980	0.07063	0.16317	0.15438
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	0.582	0.01191	0.05958	0.00500	0.02812	0.02891	0.12980	0.06375	0.14729	0.11813
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	0.602	0.00969	0.04848	0.01088	0.06119	0.03082	0.13837	0.07688	0.17761	0.15375
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	1.437	0.01050	0.05255	0.00500	0.02812	0.00227	0.01020	0.00614	0.01418	0.02875
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	1.657	0.01466	0.07334	0.00500	0.02812	0.00647	0.02906	0.00831	0.01920	0.03888
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	1.175	0.00894	0.04473	0.00500	0.02812	0.00227	0.01020	0.00433	0.01001	0.02063
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	0.451	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.01238	0.02859	0.03975
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	0.482	0.00391	0.01955	0.00500	0.02812	0.00469	0.02106	0.01481	0.03422	0.04506
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	0.459	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.01619	0.03740	0.04950
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	0.262	0.01186	0.05935	0.01104	0.06209	0.04836	0.21714	0.09813	0.22670	0.16438
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	0.220	0.01125	0.05630	0.00500	0.02812	0.05991	0.26898	0.09625	0.22237	0.16938
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	0.207	0.00792	0.03964	0.00500	0.02812	0.03973	0.17837	0.06813	0.15739	0.11625
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	2.718	0.05328	0.26664	0.11160	0.62767	0.19091	0.85714	0.46438	1.07288	0.82500
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	2.672	0.05625	0.28149	0.12140	0.68279	0.26000	1.16735	0.43500	1.00501	0.83750
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	3.065	0.05797	0.29009	0.13240	0.74466	0.29545	1.32653	0.44125	1.01945	0.87500
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	0.128	0.00391	0.01955	0.00500	0.02812	0.02445	0.10980	0.02344	0.05415	0.05519
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	0.129	0.00391	0.01955	0.00500	0.02812	0.03918	0.17592	0.03319	0.07668	0.06688
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	0.210	0.01025	0.05129	0.01078	0.06063	0.07655	0.34367	0.08000	0.18483	0.13063
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	0.208	0.00391	0.01955	0.00500	0.02812	0.00672	0.03016	0.02356	0.05444	0.04044
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	0.197	0.00391	0.01955	0.01306	0.07345	0.00805	0.03612	0.03313	0.07653	0.05044
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	0.398	0.00391	0.01955	0.01218	0.06850	0.01273	0.05714	0.05750	0.13285	0.09750
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	0.263	0.00909	0.04551	0.00500	0.02812	0.00586	0.02633	0.01531	0.03538	0.03119
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	0.272	0.00391	0.01955	0.00500	0.02812	0.00456	0.02049	0.01875	0.04332	0.04519
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	0.194	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.01244	0.02874	0.02338
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	1.326	0.06125	0.30651	0.06900	0.38808	0.95455	4.28571	0.84375	1.94937	1.36875
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	1.018	0.09844	0.49261	0.06140	0.34533	0.82818	3.71837	0.75000	1.73278	1.21875
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	0.732	0.04063	0.20330	0.04480	0.25197	0.31273	1.40408	0.23875	0.55160	0.67500
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	1.818	0.01545	0.07733	0.00500	0.02812	0.00695	0.03118	0.02719	0.06281	0.05619
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	2.148	0.00391	0.01955	0.00500	0.02812	0.00685	0.03073	0.02875	0.06642	0.07938
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	2.081	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.02656	0.06137	0.06075
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	0.596	0.01367	0.06842	0.00500	0.02812	0.03909	0.17551	0.06225	0.14382	0.20688
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	0.570	0.01719	0.08601	0.01700	0.09561	0.05064	0.22735	0.07313	0.16895	0.22500

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	TTLPCBQP	ACYQE	ACYQP	ACEQE	ACEQP	ANTQE	ANTQP	BAAQE	BAAQP	BAPQE
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	0.593	0.02031	0.10165	0.01088	0.06119	0.03709	0.16653	0.06625	0.15306	0.24375
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	0.599	0.00913	0.04566	0.00500	0.02812	0.02927	0.13143	0.05331	0.12317	0.18063
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	0.574	0.00792	0.03964	0.00500	0.02812	0.02173	0.09755	0.04431	0.10238	0.15188
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	0.546	0.01053	0.05270	0.00500	0.02812	0.02809	0.12612	0.05088	0.11754	0.15938
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	0.541	0.01080	0.05403	0.00500	0.02812	0.02809	0.12612	0.05494	0.12693	0.21563
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	0.592	0.01119	0.05599	0.00500	0.02812	0.02400	0.10776	0.08375	0.19349	0.17625
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	0.469	0.00391	0.01955	0.00500	0.02812	0.01409	0.06327	0.05025	0.11610	0.10688
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	0.364	0.00391	0.01955	0.00500	0.02812	0.00505	0.02265	0.02369	0.05473	0.04200
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	0.361	0.00391	0.01955	0.00500	0.02812	0.00527	0.02367	0.01888	0.04361	0.03831
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	0.402	0.00391	0.01955	0.00500	0.02812	0.00715	0.03212	0.03013	0.06960	0.05656
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	1.640	0.00391	0.01955	0.00500	0.02812	0.00701	0.03147	0.03425	0.07913	0.07625
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	2.074	0.01514	0.07577	0.01814	0.10202	0.00647	0.02906	0.04650	0.10743	0.11438
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	1.549	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.02331	0.05386	0.05413
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	1.212	0.01594	0.07976	0.06860	0.38583	0.06073	0.27265	0.15000	0.34656	0.24625
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	1.263	0.01953	0.09774	0.03360	0.18898	0.05227	0.23469	0.14000	0.32345	0.21250
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	1.286	0.02734	0.13684	0.04040	0.22722	0.09364	0.42041	0.16250	0.37543	0.21313
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	TTLPCBQP	ACYQE	ACYQP	ACEQE	ACEQP	ANTQE	ANTQP	BAAQE	BAAQP	BAPQE
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	2.360	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	2.150	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	0.928	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	2.468	0.26875	1.34491	0.16120	0.90664	1.01818	4.57143	1.06250	2.45477	1.68125
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	0.528	0.14172	0.70920	0.13500	0.75928	0.69545	3.12245	0.85000	1.96381	0.88750
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	0.084	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.00156	0.00361	0.00156
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	0.064	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.00156	0.00361	0.00156
44014.0	MARINA DEL REY	1630	6/19/96	45	1.260	0.00391	0.01955	0.00500	0.02812	0.01045	0.04694	0.04394	0.10151	0.07125
44020.0	SHORELINE MARINA	1631	6/20/96	45	1.763	0.00391	0.01955	0.00500	0.02812	0.01309	0.05878	0.06688	0.15451	0.07688
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	0.172	0.01906	0.09539	0.01630	0.09168	0.10727	0.48163	0.22625	0.52272	0.26875
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	5.201	0.08375	0.41911	0.05940	0.33408	0.18091	0.81224	0.37125	0.85772	0.06688
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	3.423	0.12250	0.61303	0.03340	0.18785	0.26000	1.16735	0.31063	0.71766	0.62500
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	11.220	0.09797	0.49027	0.07440	0.41845	0.26364	1.18367	0.43813	1.01223	0.69375
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	4.255	0.09125	0.45664	0.03200	0.17998	0.13727	0.61633	0.22125	0.51117	0.54813
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	7.525	0.07891	0.39487	0.07160	0.40270	0.22455	1.00816	0.39563	0.91404	0.56938
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	4.732	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	0.96875
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	2.579	0.22188	1.11033	0.08660	0.48706	0.26636	1.19592	0.46750	1.08010	0.60563
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	7.106	0.27344	1.36836	0.51800	2.91339	0.62727	2.81633	0.71250	1.64614	0.95000
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	8.474	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	1.48750
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	2.785	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	0.91875
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	0.486	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	0.39688
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	1.304	0.04563	0.22832	0.03820	0.21485	0.13182	0.59184	0.29938	0.69167	0.38438
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	4.992	0.07016	0.35108	0.07060	0.39708	0.19727	0.88571	0.43750	1.01079	0.60500
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	2.199	0.06328	0.31668	0.15580	0.87627	0.24000	1.07755	0.80625	1.86274	0.93125
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46	1.915	0.03531	0.17671	0.04200	0.23622	0.12727	0.57143	0.21375	0.49384	0.29688
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	0.876	0.00330	0.01650	0.00230	0.01294	0.00464	0.02082	0.01813	0.04188	0.01988
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	0.690	0.00303	0.01517	0.00332	0.01867	0.00472	0.02118	0.01375	0.03177	0.01569
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	1.318	0.00441	0.02205	0.00292	0.01642	0.00447	0.02008	0.01681	0.03884	0.01488
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	0.577	0.00608	0.03042	0.00402	0.02261	0.00816	0.03665	0.02556	0.05906	0.02206
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	1.061	0.01194	0.05974	0.01366	0.07683	0.02636	0.11837	0.08375	0.19349	0.08313
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	2.973	0.00663	0.03315	0.00600	0.03375	0.01427	0.06408	0.03638	0.08404	0.05881
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	0.175	0.00692	0.03464	0.00556	0.03127	0.01473	0.06612	0.03656	0.08447	0.06125
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	0.720	0.00327	0.01634	0.00212	0.01192	0.00465	0.02086	0.01594	0.03682	0.01650
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	0.996	0.01027	0.05137	0.00202	0.01136	0.00637	0.02861	0.02031	0.04693	0.02719
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	0.438	0.00545	0.02729	0.00278	0.01564	0.00528	0.02371	0.01731	0.04000	0.01856
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	0.321	0.00491	0.02455	0.00220	0.01237	0.00565	0.02539	0.01519	0.03509	0.00931
48010.0	TURNING BASIN	1697	2/4/97	48	0.972	0.05797	0.29009	0.04320	0.24297	0.13727	0.61633	0.11125	0.25703	0.03513
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.191	0.00667	0.03339	0.01134	0.06378	0.00918	0.04122	0.01781	0.04115	0.00981
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	0.186	0.01875	0.09383	0.00276	0.01552	0.02255	0.10122	0.02381	0.05502	0.02219

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STANUM	STATION	IDORG	DATE	LEG	TTLPCBQP	ACYQE	ACYQP	ACEQE	ACEQP	ANTQE	ANTQP	BAAQE	BAAQP	BAPQE
48011.0	KING HARBOR	1700	2/5/97	48	0.980	0.01136	0.05685	0.00328	0.01845	0.01827	0.08204	0.02600	0.06007	0.02600
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	0.508	0.00678	0.03394	0.00438	0.02463	0.01091	0.04898	0.02906	0.06715	0.03500
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	0.116	0.00272	0.01361	0.00346	0.01946	0.00286	0.01286	0.01019	0.02354	0.00260
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	0.171	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.00138	0.00319	0.00136
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	0.291	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.00193	0.00446	0.00189
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	0.264	0.00391	0.01955	0.00500	0.02812	0.00165	0.00743	0.00471	0.01089	0.00434
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	0.220	0.00391	0.01955	0.00500	0.02812	0.00232	0.01041	0.00471	0.01089	0.00429
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	0.197	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.00317	0.00732	0.00427
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	0.169	0.00391	0.01955	0.00500	0.02812	0.00227	0.01020	0.00181	0.00417	0.00224
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48010.0	TURNING BASIN	1772	5/13/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48011.0	KING HARBOR	1775	5/12/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	0.631	0.02484	0.12433	0.00528	0.02970	0.03291	0.14776	0.04394	0.10151	0.01125
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	0.221	0.00920	0.04606	0.00454	0.02553	0.01436	0.06449	0.02325	0.05372	0.00869
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	0.109	0.00394	0.01970	0.00240	0.01350	0.01000	0.04490	0.01244	0.02874	0.00706
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	1.031	0.00391	0.01955	0.43600	2.45219	1.76364	7.91837	3.47500	8.02853	4.00000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	0.493	0.01178	0.05896	0.02020	0.11361	0.10909	0.48980	0.13563	0.31334	0.14688

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	BAPQP	CHRQE	CHRQP	DBAQE	DBAQP	FLAQE	FLAQP	FLUQE	FLUQP	MNP2QE
40001.1	SOUTHWEST SLIP	1	7/29/92	1	1.44126	0.60714	2.00950	0.69231	1.33720	0.39216	1.33910	0.27778	1.03914	0.08955
40001.2	SOUTHWEST SLIP	2	7/29/92	1	2.09638	0.57143	1.89130	1.03846	2.00579	0.19608	0.66955	0.14259	0.53343	0.03881
40001.3	SOUTHWEST SLIP	3	7/29/92	1	4.32379	1.42857	4.72824	1.96154	3.78872	0.86275	2.94602	0.57407	2.14756	0.10448
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	0.52410	0.13214	0.43736	0.26923	0.52002	0.05490	0.18747	0.03889	0.14548	0.01940
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	0.36687	0.14643	0.48465	0.18462	0.35659	0.13333	0.45529	0.08704	0.32560	0.02985
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.15723	0.06786	0.22459	0.09231	0.17829	0.04510	0.15400	0.03704	0.13855	0.01104
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	0.55030	0.20000	0.66195	0.28077	0.54231	0.23529	0.80346	0.12963	0.48493	0.06866
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	0.36294	0.08036	0.26596	0.24000	0.46356	0.08922	0.30465	0.04741	0.17735	0.06045
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	0.60271	0.14643	0.48465	0.36154	0.69831	0.09608	0.32808	0.04815	0.18012	0.06418
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	0.82545	0.39286	1.30027	0.57692	1.11433	0.25490	0.87042	0.14074	0.52650	0.34328
40006.2	CONSOLIDATED SLIP .	17	7/31/92	1	1.20542	0.53571	1.77309	0.76923	1.48577	0.33333	1.13824	0.17963	0.67198	0.31343
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.04062	0.00750	0.02482	0.02846	0.05497	0.00686	0.02343	0.00463	0.01732	0.00866
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	0.17033	0.03536	0.11702	0.13462	0.26001	0.03333	0.11382	0.01648	0.06166	0.03433
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.56078	0.17857	0.59103	0.30000	0.57945	0.10529	0.35955	0.09296	0.34777	0.04224
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.31446	0.10714	0.35462	0.15769	0.30458	0.05098	0.17408	0.03333	0.12470	0.01791
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.10547	0.02546	0.08428	0.05731	0.11069	0.01761	0.06013	0.00463	0.01732	0.00373
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.14544	0.03607	0.11939	0.10538	0.20355	0.02686	0.09173	0.01278	0.04780	0.01015
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	0.37997	0.08929	0.29552	0.21154	0.40859	0.08824	0.30130	0.04074	0.15241	0.07612
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.19654	0.05357	0.17731	0.11154	0.21544	0.07843	0.26782	0.03519	0.13162	0.03433
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	0.23453	0.03679	0.12175	0.11308	0.21841	0.06784	0.23166	0.01204	0.04503	0.05358
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.39307	0.17857	0.59103	0.42308	0.81718	0.05686	0.19417	0.05741	0.21476	0.07463
40012.2	SOUTHEAST BASIN	35	8/18/92	2	0.31446	0.14286	0.47282	0.27308	0.52745	0.04118	0.14061	0.04815	0.18012	0.05373
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.14413	0.02893	0.09575	0.09615	0.18572	0.02549	0.08704	0.01370	0.05126	0.01045
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.09643	0.01611	0.05331	0.05038	0.09732	0.02098	0.07164	0.00463	0.01732	0.00373
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.11923	0.03214	0.10639	0.07308	0.14115	0.03137	0.10713	0.03889	0.14548	0.01403
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	0.08150	0.00946	0.03132	0.05615	0.10846	0.01061	0.03622	0.00463	0.01732	0.01313

STANUM	STATION	IDORG	DATE	LEG	BAPQP	CHRQE	CHRQP	DBAQE	DBAQP	FLAQE	FLAQP	FLUQE	FLUQP	MNP2QE
40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.05123	0.00657	0.02175	0.02577	0.04977	0.00875	0.02986	0.00463	0.01732	0.00373
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.12382	0.01814	0.06005	0.09192	0.17755	0.01390	0.04747	0.00463	0.01732	0.01463
40019.1	INNER FISH HARBOR	55	8/19/92	2	1.31024	0.42857	1.41847	0.65385	1.26291	0.33333	1.13824	0.08519	0.31867	0.03582
40019.2	INNER FISH HARBOR	56	8/19/92	2	1.21852	0.26786	0.88655	0.80769	1.56006	0.14118	0.48208	0.22222	0.83131	0.03134
40019.3	INNER FISH HARBOR	57	8/19/92	2	2.09638	0.50000	1.65489	1.11538	2.15437	0.16471	0.56242	0.08333	0.31174	0.05373
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.02214	0.00579	0.01915	0.01923	0.03714	0.00757	0.02584	0.00463	0.01732	0.00373
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.01323	0.00207	0.00686	0.01923	0.03714	0.00343	0.01172	0.00463	0.01732	0.00373
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	0.01179	0.00393	0.01300	0.01923	0.03714	0.00216	0.00737	0.00463	0.01732	0.00373
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.07599	0.02821	0.09338	0.05769	0.11143	0.02549	0.08704	0.01463	0.05473	0.00373
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.02227	0.00346	0.01147	0.01923	0.03714	0.00435	0.01486	0.00463	0.01732	0.00373
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.03891	0.00789	0.02612	0.03577	0.06909	0.00716	0.02444	0.00463	0.01732	0.00746
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	2.09638	0.57143	1.89130	1.19231	2.30295	0.29412	1.00433	0.22222	0.83131	0.08507
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	0.65905	0.12857	0.42554	0.49231	0.95090	0.07157	0.24439	0.05537	0.20714	0.04866
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	0.70753	0.17643	0.58394	0.49615	0.95832	0.08471	0.28925	0.04833	0.18081	0.04030
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	0.56340	0.14286	0.47282	0.38462	0.74289	0.04706	0.16069	0.04630	0.17319	0.03134
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	0.13102	0.05357	0.17731	0.11154	0.21544	0.03922	0.13391	0.06667	0.24939	0.08358
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	0.12264	0.03929	0.13003	0.09654	0.18646	0.05255	0.17944	0.04648	0.17388	0.06791
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	0.12971	0.03571	0.11821	0.10385	0.20058	0.03529	0.12052	0.04444	0.16626	0.05075
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	0.12447	0.03571	0.11821	0.10769	0.20801	0.03725	0.12721	0.04074	0.15241	0.04478
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.05765	0.01571	0.05201	0.04231	0.08172	0.01412	0.04821	0.01778	0.06651	0.01642
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	0.05896	0.01429	0.04728	0.04615	0.08915	0.01196	0.04084	0.01241	0.04641	0.01284
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	0.04743	0.01482	0.04906	0.04000	0.07726	0.01365	0.04660	0.00463	0.01732	0.00373
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	0.05372	0.01500	0.04965	0.03846	0.07429	0.01235	0.04218	0.01056	0.03949	0.00851
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	0.06158	0.01607	0.05319	0.04615	0.08915	0.01608	0.05490	0.00463	0.01732	0.00955
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	0.03734	0.00457	0.01513	0.03231	0.06240	0.00422	0.01440	0.00463	0.01732	0.01657
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	0.04586	0.00571	0.01891	0.04615	0.08915	0.00431	0.01473	0.01444	0.05404	0.01493
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	0.03407	0.00786	0.02601	0.03808	0.07355	0.00353	0.01205	0.00463	0.01732	0.01104
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	0.08123	0.05000	0.16549	0.05769	0.11143	0.02549	0.08704	0.01148	0.04295	0.01299
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	0.12709	0.03571	0.11821	0.10385	0.20058	0.03725	0.12721	0.00463	0.01732	0.01642
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	0.12814	0.02614	0.08653	0.11923	0.23029	0.03412	0.11650	0.00463	0.01732	0.01776

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	BAPQP	CHRQE	CHRQP	DBAQE	DBAQP	FLAQE	FLAQP	FLUQE	FLUQP	MNP2QE
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	0.07861	0.02821	0.09338	0.05385	0.10400	0.02157	0.07365	0.00463	0.01732	0.00881
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.27515	0.07143	0.23641	0.16538	0.31944	0.07255	0.24773	0.01593	0.05958	0.04179
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44014.0	MARINA DEL REY	614	1/14/93	11	0.18343	0.05893	0.19504	0.12462	0.24070	0.06510	0.22229	0.01296	0.04849	0.02254
44016.0	MUGU LAGOON	616	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44017.0	COLORADO LAGOON	617	1/14/93	11	0.90537	0.31750	1.05085	0.48077	0.92861	0.45686	1.56005	0.17704	0.66228	0.10716
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44020.0	SHORELINE MARINA	620	1/14/93	11	0.11648	0.03300	0.10922	0.07692	0.14858	0.02765	0.09441	0.01093	0.04087	0.02985
44021.0	VENTURA MARINA	621	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	0.04429	0.01771	0.05863	0.03154	0.06092	0.01584	0.05410	0.00463	0.01732	0.01552
44024.0	BALLONA CREEK	624	1/14/93	11	0.52016	0.22464	0.74352	0.29269	0.56534	0.28235	0.96415	0.13278	0.49671	0.19701
44026.0	SIM'S POND	626	1/14/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	0.00668	0.00282	0.00934	0.01923	0.03714	0.00245	0.00837	0.00463	0.01732	0.00791
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	0.18998	0.06321	0.20922	0.11115	0.21469	0.07608	0.25979	0.01844	0.06900	0.02149
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	0.25288	0.06536	0.21632	0.14500	0.28007	0.10078	0.34415	0.03037	0.11361	0.02060
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	0.33018	0.08714	0.28842	0.17423	0.33653	0.10647	0.36357	0.04148	0.15518	0.03701
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20	0.17557	0.04821	0.15958	0.10615	0.20504	0.03882	0.13257	0.01007	0.03769	0.01134
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20	0.15723	0.03554	0.11762	0.08692	0.16789	0.03157	0.10780	0.00926	0.03464	0.01242

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	BAPQP	CHRQE	CHRQP	DBAQE	DBAQP	FLAQE	FLAQP	FLUQE	FLUQP	MNP2QE
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	0.17688	0.04393	0.14539	0.10346	0.19984	0.03843	0.13123	0.01317	0.04926	0.01391
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	0.05044	0.00814	0.02695	0.04385	0.08469	0.01382	0.04720	0.00463	0.01732	0.01431
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	0.06184	0.01350	0.04468	0.05192	0.10029	0.02314	0.07901	0.00463	0.01732	0.01173
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	0.06944	0.01554	0.05142	0.05423	0.10475	0.01524	0.05202	0.00463	0.01732	0.01100
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	0.04586	0.00268	0.00887	0.04308	0.08320	0.00753	0.02571	0.00463	0.01732	0.01940
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	0.03773	0.00089	0.00296	0.03038	0.05869	0.00733	0.02504	0.00463	0.01732	0.01175
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	0.04167	0.00414	0.01371	0.05077	0.09806	0.00349	0.01192	0.00463	0.01732	0.01227
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	0.23715	0.04786	0.15840	0.13500	0.26075	0.08490	0.28992	0.01546	0.05785	0.02552
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	0.32363	0.04250	0.14067	0.19154	0.36996	0.09745	0.33277	0.00463	0.01732	0.04657
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	0.24764	0.04036	0.13357	0.15115	0.29195	0.07980	0.27251	0.00961	0.03595	0.02388
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	0.32232	0.05107	0.16903	0.21423	0.41379	0.08294	0.28322	0.01587	0.05937	0.05239
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	0.06027	0.00425	0.01407	0.01923	0.03714	0.00351	0.01198	0.00463	0.01732	0.01396
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	0.08150	0.00546	0.01809	0.04769	0.09212	0.00420	0.01433	0.00463	0.01732	0.01567
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	0.04324	0.00289	0.00957	0.01923	0.03714	0.00222	0.00757	0.00463	0.01732	0.01000
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	0.08333	0.01068	0.03534	0.01923	0.03714	0.01014	0.03462	0.00463	0.01732	0.01260
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	0.09447	0.01232	0.04078	0.04500	0.08692	0.01167	0.03984	0.00463	0.01732	0.01284
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	0.10377	0.01268	0.04196	0.04077	0.07875	0.01139	0.03890	0.00463	0.01732	0.01166
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	0.34459	0.09714	0.32152	0.33115	0.63963	0.02725	0.09307	0.02685	0.10045	0.05940
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	0.35507	0.09571	0.31679	0.28615	0.55271	0.02373	0.08102	0.02593	0.09699	0.05403
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	0.24370	0.06464	0.21395	0.25885	0.49996	0.02137	0.07298	0.01600	0.05985	0.04418
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	1.72951	0.35464	1.17379	1.45385	2.80811	0.27647	0.94407	0.09574	0.35816	0.36567
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	1.75572	0.30321	1.00357	1.26538	2.44410	0.26667	0.91059	0.10648	0.39834	0.37910
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	1.83433	0.32786	1.08513	1.29615	2.50353	0.29608	1.01102	0.12204	0.45653	0.40597
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	0.11569	0.02454	0.08121	0.05769	0.11143	0.01376	0.04700	0.00463	0.01732	0.00373
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	0.14020	0.03786	0.12530	0.08038	0.15526	0.01951	0.06662	0.01387	0.05189	0.00787
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	0.27384	0.08536	0.28251	0.11692	0.22584	0.04373	0.14931	0.02815	0.10530	0.01182
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	0.08477	0.02239	0.07412	0.05731	0.11069	0.02255	0.07700	0.00928	0.03471	0.01642
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	0.10574	0.02589	0.08570	0.08231	0.15898	0.02608	0.08905	0.01015	0.03796	0.01701
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	0.20440	0.05214	0.17258	0.15808	0.30533	0.04588	0.15667	0.01831	0.06851	0.03060
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	0.06538	0.01318	0.04362	0.04154	0.08023	0.01239	0.04232	0.00463	0.01732	0.01384
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	0.09473	0.01668	0.05520	0.05462	0.10549	0.01312	0.04479	0.00463	0.01732	0.01322
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	0.04900	0.01196	0.03960	0.01923	0.03714	0.01061	0.03622	0.00463	0.01732	0.01060
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	2.86942	0.72857	2.41140	1.40769	2.71897	0.45098	1.53997	0.32407	1.21233	0.06060
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	2.55496	0.82500	2.73056	1.31154	2.53324	0.37451	1.27884	0.23889	0.89366	0.04522
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	1.41506	0.24179	0.80026	0.71923	1.38920	0.11196	0.38231	0.10130	0.37894	0.02866
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	0.11779	0.02046	0.06773	0.10423	0.20132	0.02608	0.08905	0.01130	0.04226	0.03657
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	0.16640	0.02636	0.08724	0.11923	0.23029	0.02098	0.07164	0.01093	0.04087	0.03090
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	0.12736	0.02350	0.07778	0.08885	0.17161	0.01980	0.06762	0.01109	0.04150	0.03224
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	0.43369	0.04679	0.15485	0.20731	0.40042	0.05824	0.19886	0.01289	0.04822	0.04045
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	0.47169	0.04821	0.15958	0.22885	0.44202	0.07373	0.25175	0.02056	0.07690	0.05507

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	BAPQP	CHRQE	CHRQP	DBAQE	DBAQP	FLAQE	FLAQP	FLUQE	FLUQP	MNP2QE
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	0.51099	0.04750	0.15721	0.28231	0.54528	0.05902	0.20153	0.01439	0.05383	0.04493
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	0.37866	0.03518	0.11643	0.15500	0.29938	0.06157	0.21024	0.00981	0.03672	0.03254
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	0.31839	0.02700	0.08936	0.12115	0.23401	0.05275	0.18011	0.00463	0.01732	0.02373
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	0.33411	0.03211	0.10627	0.13154	0.25407	0.06255	0.21359	0.01067	0.03990	0.02537
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	0.45203	0.03679	0.12175	0.20192	0.39002	0.05353	0.18279	0.01230	0.04600	0.04104
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	0.36949	0.05429	0.17967	0.20846	0.40264	0.06922	0.23635	0.01235	0.04621	0.04925
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	0.22405	0.03189	0.10556	0.12615	0.24367	0.04549	0.15534	0.00463	0.01732	0.03582
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	0.08805	0.02082	0.06891	0.06423	0.12406	0.02569	0.08771	0.00463	0.01732	0.01851
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	0.08032	0.01718	0.05686	0.06885	0.13298	0.02176	0.07432	0.00463	0.01732	0.01537
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	0.11858	0.02032	0.06726	0.08808	0.17012	0.03255	0.11115	0.00463	0.01732	0.01940
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	0.15985	0.02550	0.08440	0.12423	0.23995	0.03902	0.13324	0.00463	0.01732	0.02164
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	0.23977	0.04321	0.14303	0.16346	0.31573	0.04176	0.14261	0.00463	0.01732	0.02119
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	0.11347	0.01882	0.06229	0.09308	0.17978	0.02686	0.09173	0.00463	0.01732	0.01328
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	0.51623	0.12500	0.41372	0.36577	0.70649	0.13235	0.45195	0.07981	0.29858	0.09761
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	0.44548	0.09536	0.31561	0.31231	0.60322	0.13000	0.44391	0.05259	0.19674	0.11448
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	0.44679	0.14000	0.46337	0.32192	0.62180	0.15510	0.52961	0.05130	0.19189	0.13881
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	BAPQP	CHRQE	CHRQP	DBAQE	DBAQP	FLAQE	FLAQP	FLUQE	FLUQP	MNP2QE
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	3.52454	1.14643	3.79442	2.11154	4.07845	0.51765	1.76761	0.43333	1.62106	0.06970
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	1.86054	0.76071	2.51779	0.95385	1.84236	0.46078	1.57344	0.28519	1.06685	0.05284
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	0.00328	0.00203	0.00670	0.01923	0.03714	0.00186	0.00637	0.00463	0.01732	0.00373
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	0.00328	0.00089	0.00296	0.01923	0.03714	0.00049	0.00167	0.00463	0.01732	0.00828
44014.0	MARINA DEL REY	1630	6/19/96	45	0.14937	0.02846	0.09421	0.12500	0.24144	0.02294	0.07834	0.00463	0.01732	0.01373
44020.0	SHORELINE MARINA	1631	6/20/96	45	0.16116	0.03529	0.11679	0.14154	0.27338	0.02510	0.08570	0.01580	0.05909	0.04030
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	0.56340	0.19286	0.63831	0.69231	1.33720	0.03588	0.12253	0.05259	0.19674	0.15373
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	0.14020	0.27786	0.91964	1.11923	2.16180	0.13490	0.46065	0.06407	0.23970	0.21343
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	1.31024	0.19071	0.63122	0.80769	1.56006	0.07863	0.26849	0.07778	0.29096	0.13478
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	1.45436	0.31393	1.03903	1.15769	2.23609	0.20980	0.71642	0.10481	0.39210	0.27313
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	1.14908	0.17571	0.58157	0.83077	1.60464	0.07627	0.26046	0.05074	0.18982	0.15821
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	1.19363	0.27429	0.90782	1.02308	1.97608	0.18255	0.62335	0.09926	0.37132	0.23881
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	2.03087	-9.00000	-9.00000	1.32692	2.56296	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	1.26962	0.43214	1.43029	2.69615	5.20764	0.27255	0.93067	0.14704	0.55005	0.28806
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	1.99156	0.53571	1.77309	1.20769	2.33266	0.32549	1.11145	1.13333	4.23970	1.27612
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	3.11837	-9.00000	-9.00000	1.69615	3.27613	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	1.92605	-9.00000	-9.00000	1.73077	3.34299	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	0.83200	-9.00000	-9.00000	0.55769	1.07719	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	0.80580	0.20607	0.68205	0.75385	1.45606	0.14176	0.48408	0.05574	0.20852	0.18060
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	1.26831	0.29893	0.98939	1.08846	2.10237	0.17588	0.60059	0.08537	0.31936	0.26119
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	1.95225	0.34714	1.14896	1.74615	3.37271	0.29216	0.99763	0.17074	0.63873	0.38507
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46	0.62236	0.13929	0.46100	0.57308	1.10690	0.10980	0.37495	0.07463	0.27918	0.14478
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	0.04167	0.01864	0.06170	0.03962	0.07652	0.01673	0.05711	0.00359	0.01344	0.01196
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	0.03289	0.01461	0.04835	0.02881	0.05564	0.01314	0.04486	0.00661	0.02473	0.01522
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	0.03118	0.01839	0.06088	0.04115	0.07949	0.01516	0.05176	0.00478	0.01787	0.01806
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	0.04625	0.02650	0.08771	0.04731	0.09138	0.02059	0.07030	0.00509	0.01905	0.01731
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	0.17426	0.08179	0.27069	0.12692	0.24515	0.07941	0.27117	0.01963	0.07343	0.05149
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	0.12329	0.03475	0.11501	0.08538	0.16492	0.02824	0.09642	0.01424	0.05327	0.04075
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	0.12840	0.03557	0.11773	0.09077	0.17532	0.02843	0.09708	0.01233	0.04614	0.04776
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	0.03459	0.01718	0.05686	0.04654	0.08989	0.01082	0.03696	0.00411	0.01538	0.01687
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	0.05700	0.01668	0.05520	0.02996	0.05787	0.01527	0.05216	0.00343	0.01282	0.01155
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	0.03891	0.01696	0.05615	0.03388	0.06545	0.01412	0.04821	0.00557	0.02085	0.01330
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	0.01952	0.01854	0.06135	0.03727	0.07199	0.01590	0.05430	0.00335	0.01254	0.00887
48010.0	TURNING BASIN	1697	2/4/97	48	0.07364	0.13750	0.45509	0.11654	0.22509	0.09647	0.32942	0.08296	0.31036	0.01925
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.02057	0.01946	0.06442	0.03615	0.06983	0.01761	0.06013	0.00826	0.03090	0.00863
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	0.04651	0.02596	0.08594	0.05423	0.10475	0.01567	0.05350	0.00641	0.02397	0.00955

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	BAPQP	CHRQE	CHRQP	DBAQE	DBAQP	FLAQE	FLAQP	FLUQE	FLUQP	MNP2QE
48011.0	KING HARBOR	1700	2/5/97	48	0.05451	0.02421	0.08014	0.04192	0.08097	0.01841	0.06287	0.00470	0.01760	0.01163
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	0.07337	0.03246	0.10745	0.06615	0.12778	0.03059	0.10445	0.00517	0.01933	0.01237
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	0.00545	0.01286	0.04255	0.01438	0.02778	0.01137	0.03883	0.00531	0.01988	0.01345
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	0.00286	0.00169	0.00559	0.01923	0.03714	0.00154	0.00527	0.00463	0.01732	0.00373
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	0.00396	0.00249	0.00825	0.00315	0.00609	0.00243	0.00830	0.00463	0.01732	0.00373
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	0.00909	0.00568	0.01879	0.00700	0.01352	0.00522	0.01781	0.00289	0.01081	0.00373
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	0.00899	0.00536	0.01773	0.00538	0.01040	0.00547	0.01868	0.00522	0.01954	0.00373
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	0.00895	0.00475	0.01572	0.00631	0.01218	0.00427	0.01460	0.00463	0.01732	0.00373
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	0.00470	0.00318	0.01052	0.01923	0.03714	0.00257	0.00877	0.00463	0.01732	0.00373
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48010.0	TURNING BASIN	1772	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48011.0	KING HARBOR	1775	5/12/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	0.02358	0.06107	0.20213	0.09346	0.18052	0.06922	0.23635	0.00857	0.03207	0.02597
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	0.01821	0.02936	0.09717	0.04115	0.07949	0.02392	0.08169	0.01076	0.04025	0.03925
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	0.01481	0.01439	0.04764	0.01823	0.03521	0.01463	0.04995	0.00637	0.02383	0.02104
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	8.38552	4.60714	15.24859	13.30769	25.70389	0.29412	1.00433	2.40741	9.00589	23.43284
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	0.30791	0.13750	0.45509	0.22192	0.42865	0.07980	0.27251	0.06741	0.25216	0.44925

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	MNP2QP	NPHQE	NPHQP	PHNQE	PHNQP	PYRQE	PYRQP	LMWPAHQE	LMWPAHQP
40001.1	SOUTHWEST SLIP	1	7/29/92	1	0.29809	-9.00000	-9.00000	0.44000	1.21428	0.53846	1.00172	0.53354	1.16921
40001.2	SOUTHWEST SLIP	2	7/29/92	1	0.12917	-9.00000	-9.00000	0.23333	0.64394	0.50000	0.93017	0.29282	0.64168
40001.3	SOUTHWEST SLIP	3	7/29/92	1	0.34777	-9.00000	-9.00000	0.93333	2.57575	1.11538	2.07499	1.10459	2.42060
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	0.06459	-9.00000	-9.00000	0.05600	0.15455	0.14231	0.26474	0.07797	0.17087
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	0.09936	-9.00000	-9.00000	0.14667	0.40476	0.16923	0.31483	0.16870	0.36969
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.03676	-9.00000	-9.00000	0.05600	0.15455	0.06154	0.11448	0.06168	0.13516
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	0.22854	-9.00000	-9.00000	0.24000	0.66234	0.46154	0.85861	0.26703	0.58516
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	0.20121	-9.00000	-9.00000	0.09667	0.26677	0.16000	0.29765	0.12696	0.27822
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	0.21363	-9.00000	-9.00000	0.12000	0.33117	0.22308	0.41500	0.13111	0.28731
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	1.14269	-9.00000	-9.00000	0.32000	0.88312	0.53846	1.00172	0.39715	0.87032
40006.2	CONSOLIDATED SLIP	17	7/31/92	1	1.04332	-9.00000	-9.00000	0.40667	1.12229	0.84615	1.57413	0.48228	1.05687
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.02882	-9.00000	-9.00000	0.00667	0.01840	0.01462	0.02719	0.01054	0.02309
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	0.11427	-9.00000	-9.00000	0.03533	0.09751	0.06154	0.11448	0.04839	0.10603
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.14060	-9.00000	-9.00000	0.18067	0.49859	0.21615	0.40212	0.19987	0.43800
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.05962	-9.00000	-9.00000	0.07333	0.20238	0.09615	0.17888	0.08231	0.18037
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.01242	-9.00000	-9.00000	0.01673	0.04618	0.03962	0.07370	0.01788	0.03918
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.03378	-9.00000	-9.00000	0.04207	0.11609	0.05731	0.10661	0.04022	0.08814
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	0.25338	-9.00000	-9.00000	0.05067	0.13983	0.16923	0.31483	0.08899	0.19501
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.11427	-9.00000	-9.00000	0.02933	0.08095	0.15000	0.27905	0.05234	0.11470
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	0.17836	-9.00000	-9.00000	0.03153	0.08702	0.12923	0.24041	0.05478	0.12004
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.24841	-9.00000	-9.00000	0.12000	0.33117	0.13077	0.24327	0.15335	0.33606
40012.2	SOUTHEAST BASIN	35	8/18/92	2	0.17886	-9.00000	-9.00000	0.07333	0.20238	0.08846	0.16457	0.09766	0.21401
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.03478	-9.00000	-9.00000	0.05000	0.13799	0.05769	0.10733	0.04187	0.09175
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.01242	-9.00000	-9.00000	0.03767	0.10395	0.04654	0.08658	0.02949	0.06463
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.04670	-9.00000	-9.00000	0.08000	0.22078	0.06538	0.12164	0.07377	0.16165
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	0.04372	-9.00000	-9.00000	0.01093	0.03017	0.02485	0.04622	0.01560	0.03419

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	MNP2QP	NPHQE	NPHQP	PHNQE	PHNQP	PYRQE	PYRQP	LMWPAHQE	LMWPAHQP
40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.01242	-9.00000	-9.00000	0.00933	0.02576	0.02423	0.04508	0.01190	0.02607
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.04869	-9.00000	-9.00000	0.02207	0.06090	0.03131	0.05824	0.02424	0.05312
40019.1	INNER FISH HARBOR	55	8/19/92	2	0.11924	-9.00000	-9.00000	0.18667	0.51515	0.69231	1.28792	0.27225	0.59660
40019.2	INNER FISH HARBOR	56	8/19/92	2	0.10433	-9.00000	-9.00000	0.16667	0.45996	0.38462	0.71551	0.21807	0.47788
40019.3	INNER FISH HARBOR	57	8/19/92	2	0.17886	-9.00000	-9.00000	0.19333	0.53355	0.57692	1.07327	0.24307	0.53266
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.01242	-9.00000	-9.00000	0.01700	0.04692	0.01696	0.03155	0.01696	0.03717
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.01242	-9.00000	-9.00000	0.00373	0.01030	0.00669	0.01245	0.00810	0.01775
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	0.01242	-9.00000	-9.00000	0.00167	0.00460	0.00462	0.00859	0.00712	0.01560
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.01242	-9.00000	-9.00000	0.03200	0.08831	0.05000	0.09302	0.03146	0.06893
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.01242	-9.00000	-9.00000	0.00453	0.01251	0.00869	0.01617	0.00848	0.01859
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.02484	-9.00000	-9.00000	0.00473	0.01306	0.01508	0.02805	0.01019	0.02233
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	0.28319	-9.00000	-9.00000	0.39333	1.08550	0.61538	1.14482	0.44842	0.98266
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	0.16196	-9.00000	-9.00000	0.13267	0.36613	0.15769	0.29336	0.15009	0.32892
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	0.13414	-9.00000	-9.00000	0.13067	0.36061	0.16308	0.30338	0.15633	0.34258
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	0.10433	-9.00000	-9.00000	0.06667	0.18398	0.10769	0.20034	0.08994	0.19709
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	0.27822	-9.00000	-9.00000	0.09333	0.25758	0.08462	0.15741	0.11709	0.25659
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	0.22605	-9.00000	-9.00000	0.10733	0.29621	0.10577	0.19677	0.11301	0.24764
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	0.16892	-9.00000	-9.00000	0.05867	0.16190	0.07308	0.13595	0.07326	0.16054
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	0.14905	-9.00000	-9.00000	0.06267	0.17294	0.08077	0.15026	0.07231	0.15846
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.05465	-9.00000	-9.00000	0.02600	0.07175	0.03538	0.06583	0.03500	0.07670
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	0.04273	-9.00000	-9.00000	0.01867	0.05152	0.02846	0.05295	0.02158	0.04730
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	0.01242	-9.00000	-9.00000	0.02347	0.06476	0.02815	0.05238	0.01832	0.04015
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	0.02832	-9.00000	-9.00000	0.02133	0.05887	0.02615	0.04865	0.02060	0.04515
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	0.03180	-9.00000	-9.00000	0.02600	0.07175	0.03615	0.06726	0.02241	0.04910
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	0.05515	-9.00000	-9.00000	0.00973	0.02686	0.01477	0.02748	0.01367	0.02996
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	0.04968	-9.00000	-9.00000	0.01400	0.03864	0.01346	0.02504	0.01889	0.04140
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	0.03676	-9.00000	-9.00000	0.00933	0.02576	0.01038	0.01932	0.01348	0.02954
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	0.04322	-9.00000	-9.00000	0.02267	0.06255	0.05000	0.09302	0.02434	0.05333
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	0.05465	-9.00000	-9.00000	0.05067	0.13983	0.07308	0.13595	0.04098	0.08981
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	0.05912	-9.00000	-9.00000	0.04833	0.13339	0.07000	0.13022	0.03747	0.08211

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STANUM	STATION	IDORG	DATE	LEG	MNP2QP	NPHQE	NPHQP	PHNQE	PHNQP	PYRQE	PYRQP	LMWPAHQE	LMWPAHQP
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	0.02931	-9.00000	-9.00000	0.02667	0.07359	0.04231	0.07871	0.02278	0.04993
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.13911	-9.00000	-9.00000	0.03267	0.09015	0.13077	0.24327	0.05146	0.11276
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44014.0	MARINA DEL REY	614	1/14/93	11	0.07502	-9.00000	-9.00000	0.08533	0.23550	0.14615	0.27189	0.06329	0.13870
44016.0	MUGU LAGOON	616	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44017.0	COLORADO LAGOON	617	1/14/93	11	0.35672	-9.00000	-9.00000	1.18000	3.25649	0.85000	1.58128	0.79389	1.73974
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44020.0	SHORELINE MARINA	620	1/14/93	11	0.09936	-9.00000	-9.00000	0.04107	0.11333	0.07115	0.13237	0.04196	0.09196
44021.0	VENTURA MARINA	621	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	0.05167	-9.00000	-9.00000	0.02313	0.06384	0.03669	0.06826	0.02392	0.05243
44024.0	BALLONA CREEK	624	1/14/93	11	0.65580	-9.00000	-9.00000	0.60333	1.66504	0.56538	1.05180	0.49867	1.09279
44026.0	SIM'S POND	626	1/14/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	0.02633	-9.00000	-9.00000	0.00940	0.02594	0.00527	0.00980	0.01304	0.02857
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	0.07154	0.01133	0.06093	0.05233	0.14443	0.15731	0.29264	0.08400	0.18408
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	0.06856	0.00562	0.03021	0.10933	0.30173	0.21731	0.40426	0.11419	0.25024
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	0.12321	0.00781	0.04198	0.08067	0.22262	0.22923	0.42645	0.11989	0.26272
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20	0.03776	0.00294	0.01579	0.04067	0.11223	0.07923	0.14740	0.05307	0.11630
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20	0.04134	0.00445	0.02391	0.03413	0.09420	0.07308	0.13595	0.05227	0.11454

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STANUM	STATION	IDORG	DATE	LEG	MNP2QP	NPHQE	NPHQP	PHNQE	PHNQP	PYRQE	PYRQP	LMWPAHQE	LMWPAHQP
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	0.04630	0.00624	0.03353	0.05820	0.16062	0.07538	0.14024	0.06240	0.13673
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	0.04765	0.00408	0.02191	0.02060	0.05685	0.03285	0.06110	0.03100	0.06793
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	0.03905	0.00519	0.02790	0.02933	0.08095	0.05269	0.09803	0.03826	0.08383
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	0.03662	0.00471	0.02532	0.02040	0.05630	0.03688	0.06862	0.02345	0.05138
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	0.06459	0.00469	0.02519	0.01613	0.04452	0.01896	0.03527	0.03373	0.07393
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	0.03910	0.00374	0.02012	0.01393	0.03845	0.02065	0.03842	0.02744	0.06013
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	0.04084	0.00365	0.01961	0.00653	0.01803	0.01165	0.02168	0.01682	0.03686
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	0.08496	0.00519	0.02790	0.03953	0.10910	0.16423	0.30552	0.05608	0.12289
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	0.15501	0.00786	0.04224	0.04627	0.12768	0.19769	0.36777	0.08472	0.18567
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	0.07949	0.00567	0.03046	0.02400	0.06623	0.15346	0.28549	0.04450	0.09751
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	0.17438	0.00933	0.05017	0.03913	0.10800	0.16231	0.30195	0.07166	0.15705
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	0.04645	0.00401	0.02155	0.00807	0.02226	0.01012	0.01882	0.01871	0.04100
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	0.05217	0.00440	0.02363	0.01040	0.02870	0.01292	0.02404	0.02194	0.04808
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	0.03329	0.00293	0.01577	0.00547	0.01509	0.00692	0.01288	0.01480	0.03244
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	0.04193	0.00436	0.02342	0.01473	0.04066	0.02273	0.04229	0.02053	0.04499
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	0.04273	0.00443	0.02381	0.01933	0.05335	0.02765	0.05145	0.02468	0.05409
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	0.03880	0.00404	0.02171	0.01600	0.04416	0.02731	0.05080	0.01987	0.04354
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	0.19773	0.01562	0.08396	0.07667	0.21158	0.07692	0.14310	0.10521	0.23056
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	0.17985	0.01324	0.07117	0.07733	0.21342	0.07962	0.14811	0.10239	0.22437
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	0.14706	0.01157	0.06221	0.06053	0.16706	0.06615	0.12307	0.08236	0.18048
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	1.21721	0.06048	0.32511	0.29867	0.82424	0.63462	1.18060	0.45775	1.00312
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	1.26192	0.06190	0.33279	0.51333	1.41667	0.64231	1.19491	0.62570	1.37115
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	1.35135	0.05905	0.31743	0.78000	2.15260	0.68462	1.27361	0.79731	1.74723
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	0.01242	0.00258	0.01385	0.02080	0.05740	0.02035	0.03785	0.02802	0.06141
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	0.02618	0.00278	0.01495	0.02867	0.07911	0.03650	0.06790	0.04006	0.08779
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	0.03935	0.00433	0.02330	0.05333	0.14719	0.05385	0.10017	0.07218	0.15818
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	0.05465	0.00552	0.02969	0.03493	0.09641	0.04577	0.08515	0.03614	0.07920
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	0.05664	0.00671	0.03609	0.06160	0.17000	0.05500	0.10232	0.05795	0.12698
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	0.10185	0.00962	0.05171	0.06547	0.18067	0.09346	0.17387	0.07964	0.17451
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	0.04606	0.00586	0.03149	0.02080	0.05740	0.02700	0.05023	0.03205	0.07024
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	0.04402	0.00519	0.02790	0.01547	0.04268	0.02885	0.05366	0.03085	0.06761
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	0.03527	0.00474	0.02550	0.01173	0.03238	0.02154	0.04007	0.02045	0.04481
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	0.20171	0.01643	0.08832	0.59000	1.62824	0.48846	0.90870	0.75869	1.66259
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	0.15054	0.01229	0.06605	0.42800	1.18117	0.45769	0.85146	0.60923	1.33508
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	0.09539	0.00943	0.05069	0.24067	0.66418	0.22346	0.41571	0.28706	0.62906
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	0.12172	0.01167	0.06272	0.04167	0.11499	0.05423	0.10089	0.05852	0.12823
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	0.10284	0.00976	0.05248	0.03340	0.09218	0.05115	0.09516	0.04721	0.10345
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	0.10731	0.01086	0.05837	0.03880	0.10708	0.05077	0.09445	0.04964	0.10877
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	0.13464	0.00800	0.04301	0.03380	0.09328	0.11077	0.20607	0.06337	0.13888
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	0.18333	0.01062	0.05709	0.06173	0.17037	0.13077	0.24327	0.09521	0.20863

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	MNP2QP	NPHQE	NPHQP	PHNQE	PHNQP	PYRQE	PYRQP	LMWPAHQE	LMWPAHQP
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	0.14954	0.00952	0.05120	0.03600	0.09935	0.11000	0.20464	0.07092	0.15541
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	0.10831	0.00657	0.03533	0.02293	0.06329	0.11423	0.21251	0.04627	0.10139
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	0.07899	0.00490	0.02637	0.01820	0.05023	0.09923	0.18460	0.03572	0.07827
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	0.08446	0.00524	0.02816	0.02373	0.06550	0.11038	0.20535	0.04335	0.09501
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	0.13663	0.00752	0.04045	0.03100	0.08555	0.09231	0.17172	0.05746	0.12591
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	0.16395	0.00990	0.05325	0.03613	0.09972	0.11731	0.21823	0.06650	0.14574
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	0.11924	0.00657	0.03533	0.02020	0.05575	0.08038	0.14954	0.03945	0.08645
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	0.06161	0.00581	0.03123	0.03993	0.11021	0.04577	0.08515	0.03820	0.08372
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	0.05117	0.00571	0.03072	0.03013	0.08316	0.03923	0.07298	0.03348	0.07337
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	0.06459	0.00643	0.03456	0.05827	0.16080	0.05846	0.10876	0.05259	0.11526
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	0.07204	0.00890	0.04787	0.05533	0.15271	0.07769	0.14453	0.05075	0.11121
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	0.07055	0.01024	0.05504	0.06187	0.17074	0.09115	0.16958	0.05895	0.12918
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	0.04422	0.00671	0.03609	0.03740	0.10321	0.05423	0.10089	0.03603	0.07897
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	0.32492	0.02700	0.14515	0.31000	0.85552	0.27038	0.50301	0.29949	0.65631
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	0.38106	0.03290	0.17689	0.28600	0.78928	0.25192	0.46866	0.27997	0.61352
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	0.46204	0.03319	0.17843	0.39000	1.07630	0.31654	0.58887	0.38307	0.83946
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	MNP2QP	NPHQE	NPHQP	PHNQE	PHNQP	PYRQE	PYRQP	LMWPAHQE	LMWPAHQP
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	0.23202	0.00971	0.05222	0.78000	2.15260	0.76538	1.42387	0.95469	2.09211
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	0.17587	0.00914	0.04915	0.52733	1.45530	0.55000	1.02318	0.64804	1.42011
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	0.01242	0.00119	0.00640	0.00687	0.01895	0.00404	0.00751	0.01196	0.02621
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	0.02757	0.00327	0.01759	0.00167	0.00460	0.00096	0.00179	0.01184	0.02595
44014.0	MARINA DEL REY	1630	6/19/96	45	0.04571	0.00385	0.02071	0.03633	0.10027	0.05269	0.09803	0.03439	0.07535
44020.0	SHORELINE MARINA	1631	6/20/96	45	0.13414	0.01010	0.05427	0.03720	0.10266	0.06154	0.11448	0.07318	0.16037
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	0.51172	0.02443	0.13132	0.11600	0.32013	0.11038	0.20535	0.20150	0.44157
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	0.71045	0.03881	0.20863	0.22533	0.62186	0.50769	0.94448	0.34627	0.75881
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	0.44863	0.03281	0.17638	0.14000	0.38636	0.87308	1.62421	0.35241	0.77226
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	0.90918	0.05000	0.26879	0.30467	0.84080	0.59615	1.10904	0.47443	1.03967
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	0.52663	0.03033	0.16307	0.14600	0.40292	0.67308	1.25215	0.25465	0.55804
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	0.79491	0.04419	0.23756	0.28667	0.79112	0.56538	1.05180	0.44399	0.97295
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	0.95886	0.05238	0.28159	0.42267	1.16645	0.73077	1.35947	0.62335	1.36602
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	4.24781	0.24524	1.31835	1.14000	3.14610	1.51538	2.81912	3.06297	6.71221
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	0.60115	0.03343	0.17971	0.20200	0.55747	0.40385	0.75129	0.30285	0.66366
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	0.86944	0.04762	0.25599	0.27000	0.74513	0.58077	1.08042	0.40934	0.89702
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	1.28180	0.07095	0.38143	0.44533	1.22900	0.76154	1.41671	0.63785	1.39778
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46	0.48192	0.02443	0.13132	0.12200	0.33669	0.25846	0.48082	0.24370	0.53405
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	0.03980	0.00409	0.02196	0.02067	0.05703	0.03823	0.07112	0.02283	0.05003
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	0.05068	0.00404	0.02171	0.02207	0.06090	0.02996	0.05574	0.02528	0.05540
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	0.06012	0.00399	0.02143	0.01953	0.05391	0.03669	0.06826	0.02563	0.05616
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	0.05763	0.00396	0.02130	0.02960	0.08169	0.04654	0.08658	0.03254	0.07130
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	0.17140	0.01395	0.07501	0.10667	0.29437	0.17538	0.32627	0.11130	0.24390
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	0.13563	0.00895	0.04813	0.04507	0.12437	0.06692	0.12450	0.06233	0.13660
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	0.15898	0.00929	0.04992	0.04260	0.11756	0.06885	0.12808	0.06241	0.13678
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	0.05614	0.00455	0.02445	0.01873	0.05170	0.02554	0.04751	0.02480	0.05434
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	0.03845	0.00401	0.02158	0.01500	0.04140	0.03923	0.07298	0.02337	0.05121
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	0.04427	0.00436	0.02342	0.02153	0.05943	0.03238	0.06025	0.02696	0.05908
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	0.02951	0.00397	0.02132	0.02073	0.05722	0.03358	0.06246	0.02303	0.05048
48010.0	TURNING BASIN	1697	2/4/97	48	0.06409	0.00447	0.02404	0.15933	0.43972	0.10654	0.19820	0.17985	0.39413
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.02872	0.00414	0.02227	0.04087	0.11278	0.03658	0.06805	0.03934	0.08622
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	0.03180	0.00322	0.01733	0.01907	0.05262	0.03358	0.06246	0.03243	0.07107

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STANUM	STATION	IDORG	DATE	LEG	MNP2QP	NPHQE	NPHQP	PHNQE	PHNQP	PYRQE	PYRQP	LMWPAHQE	LMWPAHQP
48011.0	KING HARBOR	1700	2/5/97	48	0.03870	0.00376	0.02020	0.02100	0.05795	0.03435	0.06390	0.03065	0.06716
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	0.04119	0.00600	0.03225	0.04593	0.12676	0.06462	0.12021	0.04170	0.09137
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	0.04476	0.00533	0.02867	0.02480	0.06844	0.02138	0.03978	0.02914	0.06386
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	0.01242	0.00187	0.01003	0.00278	0.00767	0.00295	0.00548	0.01047	0.02295
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	0.01242	0.00179	0.00963	0.00463	0.01277	0.00469	0.00873	0.01130	0.02476
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	0.01242	0.00160	0.00858	0.00913	0.02521	0.01062	0.01975	0.01265	0.02772
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	0.01242	0.00190	0.01021	0.01000	0.02760	0.01042	0.01939	0.01389	0.03044
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	0.01242	0.00268	0.01439	0.00800	0.02208	0.00831	0.01546	0.01317	0.02887
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	0.01242	0.00157	0.00845	0.00458	0.01264	0.00523	0.00973	0.01066	0.02336
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48010.0	TURNING BASIN	1772	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48011.0	KING HARBOR	1775	5/12/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000	-9.00000
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	0.08645	0.00595	0.03200	0.03000	0.08279	0.09192	0.17101	0.06119	0.13410
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	0.13066	0.00819	0.04403	0.02793	0.07709	0.03381	0.06289	0.07102	0.15563
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	0.07005	0.00552	0.02969	0.01493	0.04121	0.01996	0.03714	0.03968	0.08696
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	78.00079	3.38095	18.17530	3.98667	11.00215	1.48462	2.76188	29.14478	63.86789
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	1.49543	0.06857	0.36863	0.12933	0.35693	0.13769	0.25615	0.66460	1.45641

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	HMWPAHQE	HMWPAHQP	TTLPAHQE	TTLPAHQP	ERMQ	PELQ	ERMEXCDS	PELEXCDS
40001.1	SOUTHWEST SLIP	1	7/29/92	1	0.90313	1.29865	0.23120	0.61751	0.382	0.513	1	13
40001.2	SOUTHWEST SLIP	2	7/29/92	1	0.88333	1.27020	0.20998	0.56082	0.420	0.558	4	9
40001.3	SOUTHWEST SLIP	3	7/29/92	1	2.14896	3.09011	0.53850	1.43827	0.559	0.841	10	16
40002.1	WEST BASIN- PIER 143	4	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1	0.23021	0.33103	0.05484	0.14647	0.212	0.286	1	0
40002.3	WEST BASIN- PIER 143	6	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1	0.26125	0.37567	0.06789	0.18134	0.168	0.231	1	1
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1	0.10615	0.15263	0.02710	0.07238	0.105	0.145	0	0
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1	0.53365	0.76736	0.13321	0.35579	0.368	0.547	1	2
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1	0.25910	0.37258	0.06449	0.17224	0.336	0.475	2	3
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1	0.29833	0.42899	0.07319	0.19548	0.410	0.542	3	3
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1	0.63750	0.91670	0.16465	0.43976	1.273	1.763	6	13
40006.2	CONSOLIDATED SLIP	17	7/31/92	1	0.90521	1.30165	0.22803	0.60904	1.289	1.772	5	18
40006.3	CONSOLIDATED SLIP	18	7/31/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1	0.02431	0.03496	0.00595	0.01590	0.112	0.143	1	0
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1	0.13385	0.19248	0.03210	0.08574	0.278	0.395	1	4
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40008.1	EAST BASIN- PIER C	22	8/18/92	2	0.29167	0.41940	0.07661	0.20462	0.228	0.300	1	0
40008.2	EAST BASIN- PIER C	23	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40008.3	EAST BASIN- PIER C	24	8/18/92	2	0.15719	0.22603	0.03950	0.10549	0.182	0.234	0	0
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2	0.05271	0.07579	0.01256	0.03354	0.160	0.191	0	0
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2	0.07446	0.10707	0.01880	0.05020	0.154	0.200	0	0
40010.1	OFF CABRILLO BEACH	28	8/18/92	2	0.30052	0.43214	0.07069	0.18880	0.282	0.440	1	1
40010.2	OFF CABRILLO BEACH	29	8/18/92	2	0.23740	0.34136	0.05457	0.14576	0.260	0.378	1	0
40010.3	OFF CABRILLO BEACH	30	8/18/92	2	0.20949	0.30124	0.04876	0.13024	0.282	0.434	1	1
40012.1	SOUTHEAST BASIN	34	8/18/92	2	0.23156	0.33298	0.06045	0.16145	0.197	0.268	1	0
40012.2	SOUTHEAST BASIN	35	8/18/92	2	0.17563	0.25254	0.04453	0.11893	0.198	0.257	1	1
40012.3	SOUTHEAST BASIN	36	8/18/92	2	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2	0.08198	0.11788	0.02052	0.05482	0.178	0.232	1	0
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2	0.05704	0.08202	0.01431	0.03821	0.134	0.180	1	0
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2	0.07865	0.11309	0.02206	0.05892	0.173	0.222	1	0
40016.1	TERMINAL ISLAND STP	46	8/18/92	2	0.06185	0.08894	0.01436	0.03835	0.175	0.231	1	1

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	HMWPAHQE	HMWPAHQP	TTLPAHQE	TTLPAHQP	ERMQ	PELQ	ERMEXCDS	PELEXCDS
40016.2	TERMINAL ISLAND STP	47	8/18/92	2	0.03589	0.05160	0.00853	0.02278	0.126	0.157	0	0
40016.3	TERMINAL ISLAND STP	48	8/18/92	2	0.07705	0.11080	0.01822	0.04867	0.204	0.262	1	1
40019.1	INNER FISH HARBOR	55	8/19/92	2	0.84479	1.21477	0.20027	0.53489	0.624	0.885	4	12
40019.2	INNER FISH HARBOR	56	8/19/92	2	0.54375	0.78189	0.13192	0.35235	0.664	0.901	5	6
40019.3	INNER FISH HARBOR	57	8/19/92	2	0.86458	1.24323	0.20245	0.54072	0.914	1.271	7	14
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2	0.01759	0.02530	0.00497	0.01327	0.112	0.129	1	0
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2	0.01068	0.01535	0.00286	0.00764	0.108	0.130	1	0
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2	0.00913	0.01312	0.00246	0.00657	-9.000	-9.000	1	0
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2	0.06229	0.08957	0.01557	0.04158	0.104	0.156	1	0
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2	0.01509	0.02170	0.00383	0.01024	0.099	0.133	1	0
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2	0.02557	0.03677	0.00620	0.01656	0.137	0.169	1	0
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3	0.96667	1.39002	0.23881	0.63785	0.585	0.810	4	14
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3	0.26010	0.37402	0.06634	0.17717	0.326	0.431	1	1
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3	0.29469	0.42375	0.07419	0.19815	0.304	0.446	1	2
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3	0.22396	0.32204	0.05434	0.14515	0.572	0.692	3	3
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3	0.10240	0.14724	0.03021	0.08068	0.383	0.538	1	2
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3	0.10458	0.15039	0.03039	0.08116	0.441	0.630	1	3
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3	0.08656	0.12447	0.02372	0.06336	0.491	0.668	2	2
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3	0.08885	0.12777	0.02414	0.06449	0.475	0.644	2	1
40017.1	LONG BEACH CHANNEL	49	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40017.2	LONG BEACH CHANNEL	50	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40017.3	LONG BEACH CHANNEL	51	9/2/92	3	0.03896	0.05602	0.01082	0.02890	0.164	0.208	1	0
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3	0.03427	0.04928	0.00887	0.02368	0.208	0.280	1	0
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3	0.03180	0.04573	0.00811	0.02166	0.141	0.191	1	0
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3	0.03219	0.04628	0.00835	0.02231	0.150	0.206	1	0
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3	0.03938	0.05662	0.01002	0.02676	0.164	0.225	1	0
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3	0.02052	0.02951	0.00536	0.01432	0.520	0.672	3	5
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3	0.02292	0.03295	0.00624	0.01668	0.366	0.493	3	4
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3	0.02114	0.03039	0.00548	0.01464	0.470	0.583	3	3
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4	0.06406	0.09212	0.01545	0.04126	0.182	0.255	0	0
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4	0.08333	0.11983	0.02075	0.05542	0.244	0.334	2	1
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4	0.07627	0.10967	0.01899	0.05072	0.252	0.362	2	1

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	HMWPAHQE	HMWPAHQP	TTLPAHQE	TTLPAHQP	ERMQ	PELQ	ERMEXCDS	PELEXCDS
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4	0.05385	0.07744	0.01315	0.03512	-9.000	-9.000	0	0
40010.1	OFF CABRILLO BEACH	136	9/16/92	4	0.23781	0.34196	0.05460	0.14583	0.260	0.374	1	1
40010.2	OFF CABRILLO BEACH	137	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40010.3	OFF CABRILLO BEACH	138	9/16/92	4	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44014.0	MARINA DEL REY	614	1/14/93	11	0.14461	0.20795	0.03546	0.09471	0.920	1.419	8	7
44016.0	MUGU LAGOON	616	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44017.0	COLORADO LAGOON	617	1/14/93	11	0.80854	1.16265	0.22930	0.61243	2.271	3.380	8	14
44018.0	MALIBU LAGOON	618	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11	0.07645	0.10993	0.01934	0.05167	0.628	0.891	3	5
44021.0	VENTURA MARINA	621	1/13/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11	0.03967	0.05704	0.01019	0.02721	0.410	0.641	3	4
44024.0	BALLONA CREEK	624	1/14/93	11	0.52991	0.76198	0.14875	0.39730	1.799	2.680	4	9
44026.0	SIM'S POND	626	1/14/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11	0.00624	0.00897	0.00226	0.00603	2.196	3.025	4	5
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44054.0	MUGU/ENTRANCE	655	1/12/93	11	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40016.2	TERMINAL ISLAND STP	793	5/6/93	18	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40010.1	OFF CABRILLO BEACH	810	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40017.3	LONG BEACH CHANNEL	811	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40012.1	SOUTHEAST BASIN	812	5/27/93	19	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20	0.25189	0.36220	0.05991	0.16002	0.195	0.275	1	0
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20	0.30518	0.43883	0.07346	0.19621	0.209	0.292	1	0
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20	0.36461	0.52430	0.08660	0.23131	0.242	0.351	1	0
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20	0.14709	0.21151	0.03527	0.09420	0.184	0.239	1	0
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20	0.12734	0.18311	0.03098	0.08274	0.173	0.232	1	0

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	HMWPAHQE	HMWPAHQP	TTLPAHQE	TTLPAHQP	ERMQ	PELQ	ERMEXCDS	PELEXCDS
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20	0.14068	0.20229	0.03455	0.09229	0.181	0.242	0	0
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22	0.04990	0.07175	0.01288	0.03440	0.233	0.320	1	1
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22	0.07091	0.10196	0.01790	0.04780	0.253	0.350	1	1
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22	0.06840	0.09835	0.01631	0.04357	0.255	0.348	2	1
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23	0.04524	0.06506	0.01208	0.03225	0.318	0.442	2	3
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23	0.03154	0.04535	0.00870	0.02322	0.362	0.489	3	4
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23	0.03365	0.04839	0.00840	0.02243	0.385	0.524	2	4
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23	0.33979	0.48861	0.07678	0.20507	0.285	0.423	1	0
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23	0.36956	0.53141	0.08518	0.22751	0.305	0.469	1	2
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23	0.34003	0.48895	0.07602	0.20303	0.299	0.442	1	0
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23	0.38424	0.55252	0.08741	0.23345	0.301	0.466	1	2
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25	0.02747	0.03950	0.00721	0.01925	0.376	0.488	3	4
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25	0.03845	0.05529	0.00979	0.02614	0.425	0.572	3	5
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25	0.01925	0.02769	0.00517	0.01381	0.302	0.412	3	4
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25	0.04269	0.06138	0.01060	0.02830	0.218	0.311	1	1
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25	0.05588	0.08035	0.01372	0.03664	0.266	0.365	2	1
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25	0.05514	0.07928	0.01322	0.03531	0.211	0.302	1	1
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25	0.22206	0.31932	0.05502	0.14694	0.231	0.301	1	1
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25	0.21959	0.31577	0.05429	0.14499	0.211	0.276	1	0
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25	0.16458	0.23666	0.04108	0.10973	0.176	0.226	1	0
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25	1.26521	1.81931	0.30346	0.81050	1.949	2.661	7	14
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25	1.24615	1.79190	0.31122	0.83123	1.654	2.281	7	16
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25	1.30760	1.88028	0.33650	0.89875	1.473	2.048	8	19
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25	0.07981	0.11477	0.01908	0.05097	0.105	0.133	0	0
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25	0.10472	0.15058	0.02527	0.06749	0.112	0.140	0	0
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25	0.19036	0.27374	0.04589	0.12257	0.133	0.176	0	0
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25	0.07574	0.10891	0.01878	0.05017	0.282	0.408	1	1
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25	0.09913	0.14254	0.02533	0.06766	0.308	0.425	1	1
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25	0.16703	0.24018	0.04142	0.11062	0.515	0.728	1	2
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25	0.05445	0.07829	0.01393	0.03721	0.190	0.260	1	0
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25	0.06265	0.09008	0.01560	0.04167	0.214	0.291	1	0
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25	0.03906	0.05617	0.00981	0.02621	0.168	0.223	1	0
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25	1.89052	2.71849	0.45871	1.22515	0.518	0.749	5	12
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25	1.77667	2.55477	0.42376	1.13182	0.496	0.717	5	13
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25	0.81865	1.17718	0.19571	0.52271	0.324	0.442	1	4
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25	0.10644	0.15305	0.02694	0.07195	0.733	1.030	3	6
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25	0.11293	0.16238	0.02753	0.07354	0.805	1.095	3	6
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25	0.10600	0.15242	0.02622	0.07003	0.894	1.204	3	6
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26	0.33922	0.48778	0.07717	0.20612	0.332	0.546	1	2
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26	0.36599	0.52628	0.08516	0.22744	0.363	0.595	2	2

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	HMWPAHQE	HMWPAHQP	TTLPAHQE	TTLPAHQP	ERMQ	PELQ	ERMEXCDS	PELEXCDS
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26	0.36879	0.53031	0.08404	0.22447	0.344	0.572	2	2
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26	0.30439	0.43769	0.06850	0.18296	0.318	0.510	1	2
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26	0.26039	0.37442	0.05833	0.15578	0.304	0.477	1	1
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26	0.28024	0.40297	0.06312	0.16859	0.272	0.436	1	1
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26	0.30765	0.44238	0.06999	0.18693	0.319	0.504	1	1
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26	0.34315	0.49343	0.07824	0.20896	0.329	0.528	1	2
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26	0.20892	0.30041	0.04756	0.12702	0.258	0.426	1	1
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26	0.08596	0.12360	0.02112	0.05640	0.291	0.394	1	1
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26	0.07428	0.10681	0.01828	0.04883	0.272	0.373	1	2
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26	0.10525	0.15134	0.02627	0.07016	0.301	0.405	1	1
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26	0.15863	0.22810	0.03758	0.10036	0.843	1.251	6	7
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26	0.19969	0.28714	0.04696	0.12542	1.086	1.594	7	7
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26	0.11063	0.15907	0.02625	0.07012	0.720	1.098	5	5
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26	0.44407	0.63856	0.11630	0.31063	1.327	1.917	5	6
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26	0.43221	0.62150	0.11238	0.30016	1.169	1.677	6	8
44024.0	BALLONA CREEK REP3	1085	2/15/94	26	0.50424	0.72507	0.13510	0.36082	1.607	2.296	5	8
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	HMWPAHQE	HMWPAHQP	TTLPAHQE	TTLPAHQP	ERMQ	PELQ	ERMEXCDS	PELEXCDS
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	-9	-9
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	1	1
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	1	1
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45	2.47469	3.55849	0.59774	1.59648	0.536	0.789	7	15
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45	1.56781	2.25445	0.38174	1.01957	0.335	0.550	1	12
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45	0.00776	0.01117	0.00251	0.00670	2.916	4.005	3	4
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45	0.00391	0.00562	0.00167	0.00447	0.068	0.099	1	0
44014.0	MARINA DEL REY	1630	6/19/96	45	0.12795	0.18398	0.02985	0.07972	0.811	1.204	5	7
44020.0	SHORELINE MARINA	1631	6/20/96	45	0.14093	0.20265	0.03537	0.09446	0.803	1.133	3	5
40012.0	SOUTHEAST BASIN	1632	6/20/96	45	0.35851	0.51552	0.09105	0.24319	0.249	0.329	1	1
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46	0.88135	1.26735	0.21332	0.56976	1.429	1.883	5	8
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46	0.90958	1.30794	0.21981	0.58708	1.424	1.946	5	12
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46	1.08063	1.55389	0.26507	0.70798	1.917	2.454	8	15
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46	0.80313	1.15486	0.19009	0.50772	1.567	2.060	4	10
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46	0.93302	1.34164	0.23129	0.61775	1.629	2.135	6	12
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46	0.52938	0.76122	0.11326	0.30250	-9.000	-9.000	7	10
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46	1.22094	1.75566	0.30565	0.81636	1.289	1.862	6	17
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46	1.71531	2.46655	0.58372	1.55905	4.377	6.303	15	27
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46	0.78583	1.12999	0.16822	0.44930	-9.000	-9.000	10	11
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46	0.57198	0.82248	0.12239	0.32688	-9.000	-9.000	9	9
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46	0.18646	0.26812	0.03976	0.10620	-9.000	-9.000	5	9
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46	0.66854	0.96133	0.16465	0.43976	1.011	1.319	4	5
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46	0.98865	1.42163	0.24077	0.64306	1.608	2.122	6	12
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46	1.48969	2.14211	0.36427	0.97293	1.659	2.232	8	17
47010.0	DOMINGUEZ-H FORD BRIDGE-SURFC	1665	7/18/96	46	0.50677	0.72871	0.12581	0.33601	0.801	1.103	3	5
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48	0.06558	0.09431	0.01567	0.04184	0.651	0.954	6	6
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48	0.04917	0.07070	0.01232	0.03291	0.522	0.808	3	3
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48	0.06243	0.08977	0.01519	0.04056	0.805	1.256	6	7
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48	0.07870	0.11316	0.01916	0.05118	0.527	0.778	1	3
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48	0.24590	0.35359	0.06055	0.16173	1.135	1.635	3	6
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48	0.11725	0.16860	0.02953	0.07886	1.034	1.396	5	5
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48	0.11989	0.17239	0.03010	0.08039	0.375	0.544	2	4
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48	0.04847	0.06970	0.01214	0.03242	0.311	0.458	1	1
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48	0.05452	0.07840	0.01333	0.03561	0.391	0.519	2	1
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48	0.05224	0.07512	0.01310	0.03498	0.253	0.368	2	1
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48	0.05342	0.07681	0.01307	0.03492	0.232	0.312	2	1
48010.0	TURNING BASIN	1697	2/4/97	48	0.24226	0.34836	0.06461	0.17257	0.216	0.314	1	0
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48	0.05517	0.07933	0.01460	0.03899	0.146	0.206	1	0
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48	0.06802	0.09781	0.01687	0.04505	0.195	0.253	0	0

Chemistry Summations and Quotients

STANUM	STATION	IDORG	DATE	LEG	HMWPAHQE	HMWPAHQP	TTLPAHQE	TTLPAHQP	ERMQ	PELQ	ERMEXCDS	PELEXCDS
48011.0	KING HARBOR	1700	2/5/97	48	0.06990	0.10051	0.01714	0.04579	0.297	0.421	2	1
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48	0.10188	0.14649	0.02478	0.06617	0.395	0.544	2	2
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48	0.03128	0.04498	0.00876	0.02340	0.142	0.233	1	1
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48	0.00528	0.00759	0.00187	0.00499	0.120	0.174	1	1
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48	0.00710	0.01021	0.00232	0.00619	0.142	0.209	1	2
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48	0.01509	0.02169	0.00413	0.01102	0.280	0.399	2	2
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48	0.01411	0.02029	0.00400	0.01069	0.252	0.356	2	2
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48	0.01296	0.01864	0.00371	0.00990	0.307	0.430	2	3
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48	0.00808	0.01161	0.00248	0.00663	0.221	0.335	2	2
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
48010.0	TURNING BASIN	1772	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
48011.0	KING HARBOR	1775	5/12/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53	-9.00000	-9.00000	-9.00000	-9.00000	-9.000	-9.000	0	0
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53	0.18179	0.26141	0.04328	0.11559	-9.000	-9.000	1	1
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53	0.07116	0.10232	0.02026	0.05411	-9.000	-9.000	1	0
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53	0.03864	0.05556	0.01108	0.02960	-9.000	-9.000	1	0
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54	5.55417	7.98665	3.24651	8.67102	2.695	5.706	17	19
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54	0.30609	0.44015	0.11249	0.30045	0.343	0.625	1	5

Section 8

Bivalve and Fish Tissue Chemistry

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	TISS_TYPE	NO_IN_COMP	TMMOIST	ALUMINUM	ANTIMONY
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	FISH- TOPSMELT	15	-9.00	-9.00	-9.000
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	FISH- SHINER SURFPERCH	15	-9.00	-9.00	-9.000
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	MACOMA (BIOACCUMULATION)	11	-9.00	-9.00	-9.000
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	MACOMA (BIOACCUMULATION)	14	-9.00	-9.00	-9.000
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	MACOMA (BIOACCUMUATION)	14	-9.00	-9.00	-9.000
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	MACOMA (BIOACCUMULATION)	11	-9.00	-9.00	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	MACOMA (BIOACCUMULATION)	11	-9.00	-9.00	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	MACOMA (BIOACCUMULATION)	13	-9.00	-9.00	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	MACOMA (BIOACCUMULATION)	9	-9.00	-9.00	-9.000
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	MACOMA (BIOACCUMULATION)	13	-9.00	-9.00	-9.000
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	MACOMA (BIOACCUMULATION)	11	-9.00	-9.00	-9.000
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	MACOMA (BIOACCUMULATION)	11	-9.00	-9.00	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	FISH- WHITE CROAKER	5	-9.00	-9.00	-9.000
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	FISH- WHITE CROAKER	5	-9.00	-9.00	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	FISH- WHITE CROAKER	5	-9.00	-9.00	-9.000
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	FISH- WHITE CROAKER	5	-9.00	-9.00	-9.000
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	FISH- WHITE SURFPERCH	5	-9.00	-9.00	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	FISH- WHITE SURFPERCH	4	-9.00	-9.00	-9.000
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	FISH- WHITE SURFPERCH	5	-9.00	-9.00	-9.000
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	MACOMA (BIOACCUMULATION)	14	-9.00	-9.00	-9.000
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	MACOMA (BIOACCUMULATION)	15	-9.00	-9.00	-9.000
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	MACOMA (BIOACCUMULATION)	15	-9.00	-9.00	-9.000
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	MACOMA (BIOACCUMULATION)	15	-9.00	-9.00	-9.000
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	MACOMA (BIOACCUMULATION)	13	-9.00	-9.00	-9.000
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	MACOMA (BIOACCUMULATION)	13	-9.00	-9.00	-9.000

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	ARSENIC	CADMIUM	CHROMIUM	COPPER	IRON	LEAD	MANGANESE	MERCURY
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.00	-9.0	-9.000	-9.00	-9.0000

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	NICKEL	SILVER	SELENIUM	TIN	ZINC	ASBATCH	SEBATCH	TMBATCH	TMDATAQC
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	-9.000	-9.0000	-9.000	-9.0000	-9.0000	-9.0	-9.0	-9.0	-9

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	SOWEIGHT	SOMOIST	SOLIPID	ALDRIN	CCHLOR	TCHLOR	ACDEN	GCDEN
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	2.55	78.22	0.52	-8.000	0.167	0.078	-8.000	-8.000
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	2.61	77.30	1.08	-8.000	0.904	0.446	-8.000	-8.000
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	13.22	80.97	4.70	-8.000	0.164	-8.000	-8.000	-9.000
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	24.92	86.52	5.77	-8.000	0.129	0.097	-8.000	-9.000
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	20.17	86.52	5.77	-8.000	0.053	0.190	-8.000	-9.000
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	15.11	87.04	6.90	-8.000	0.110	-8.000	-8.000	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	8.56	87.40	7.00	-8.000	-8.000	-8.000	-8.000	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	10.06	88.24	8.11	-8.000	-8.000	-8.000	-8.000	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	8.70	88.24	8.11	-8.000	-8.000	-8.000	-8.000	-9.000
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	13.36	79.50	2.80	-8.000	-8.000	-8.000	-8.000	-9.000
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	25.00	88.49	5.98	-8.000	-8.000	-8.000	-8.000	-9.000
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	16.81	88.49	5.98	-8.000	-8.000	-8.000	-8.000	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	26.24	87.67	9.80	-8.000	3.872	2.750	-8.000	-9.000
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	24.90	86.71	16.20	-8.000	0.873	1.005	-8.000	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	25.63	86.65	14.50	-8.000	2.782	3.194	-8.000	-9.000
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	26.96	86.53	14.30	-8.000	1.400	0.916	-8.000	-9.000
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	26.54	86.30	14.20	-8.000	0.431	0.288	-8.000	-9.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	24.36	87.12	9.60	-8.000	0.412	0.104	-8.000	-9.000
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	25.04	87.03	11.90	-8.000	0.440	0.108	-8.000	-9.000
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	11.68	84.19	5.40	-8.000	-8.000	-8.000	-8.000	-9.000
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	25.12	87.71	6.64	-8.000	-8.000	-8.000	-8.000	-9.000
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	23.94	87.71	6.64	-8.000	-8.000	-8.000	-8.000	-9.000
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	15.93	85.37	6.80	-8.000	-8.000	-8.000	-8.000	-9.000
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	24.11	87.50	8.09	-8.000	-8.000	-8.000	-8.000	-9.000
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	28.65	87.50	8.09	-8.000	-8.000	-8.000	-8.000	-9.000

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	TTL_CHLR	CLPYR	DACTH	OPDDD	PPDDD	OPDDE	PPDDE	PPDDMS	PPDDMU	OPDDT
44106.0	POINT MUGU- LAGOON	283.O	10/5/92	-9.0	0.656	-8.00	0.116	-8.00	1.360	-8.00	12.80	-8.00	0.59	-8.00
44016.0	POINT MUGU- LAGOON	284.O	10/5/92	-9.0	3.479	-8.00	1.350	1.56	10.900	0.51	116.00	-8.00	4.70	0.46
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	0.670	-8.00	-8.000	0.28	1.449	-8.00	12.66	-9.00	1.08	-8.00
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	0.519	-8.00	-8.000	1.15	4.360	-8.00	0.87	-9.00	0.14	0.18
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	1.213	-8.00	-8.000	0.29	1.200	0.60	16.30	-9.00	1.32	-8.00
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	0.510	-8.00	-8.000	0.15	0.533	-8.00	7.81	-9.00	0.44	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	0.500	-8.00	-8.000	-8.00	0.681	-8.00	9.68	-9.00	0.75	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	1.148	-8.00	-8.000	0.14	0.706	0.79	16.30	-9.00	1.33	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	1.286	-8.00	-8.000	0.16	0.866	0.83	15.50	-9.00	1.23	-8.00
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	0.500	-8.00	-8.000	-8.00	0.533	-8.00	6.97	-9.00	0.60	-8.00
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	1.083	-8.00	-8.000	0.09	0.441	1.00	11.10	-9.00	0.75	-8.00
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	0.840	-8.00	-8.000	0.07	0.445	0.49	8.83	-9.00	0.67	-8.00
40020.2	LONG BEACH OUTER HARBOR- 20	1781.O	5/13/97	53.0	20.790	-8.00	-8.000	5.08	42.909	96.05	945.73	-9.00	146.73	0.13
49001.0	CABRILLO BEACH PIER- WEST	1782.O	5/13/97	53.0	5.173	-8.00	-8.000	0.98	16.612	20.07	365.47	-9.00	47.44	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.O	5/13/97	53.0	16.377	-8.00	-8.000	11.94	167.195	311.01	4481.04	-9.00	636.91	0.39
49003.0	CABRILLO BEACH PIER- EAST	1784.O	5/13/97	53.0	8.152	-8.00	-8.000	1.11	46.592	74.87	1710.16	-9.00	161.59	0.11
49001.0	CABRILLO BEACH PIER- WEST	1785.O	5/13/97	53.0	1.836	-8.00	-8.000	0.35	2.178	-8.00	47.66	-9.00	5.51	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.O	5/13/97	53.0	1.454	-8.00	-8.000	0.35	2.498	1.47	63.75	-9.00	7.38	0.04
49003.0	CABRILLO BEACH PIER- EAST	1787.O	5/13/97	53.0	1.726	-8.00	-8.000	0.40	2.880	1.16	71.35	-9.00	8.87	-8.00
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	0.500	-8.00	-8.000	-8.00	0.386	-8.00	0.32	-9.00	-8.00	-8.00
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	0.970	-8.00	-8.000	-8.00	-8.000	-8.00	0.17	-9.00	-8.00	-8.00
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	1.099	-8.00	-8.000	-8.00	0.198	-8.00	0.35	-9.00	-8.00	-8.00
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	0.500	-8.00	-8.000	-8.00	-8.000	-8.00	0.31	-9.00	-8.00	-8.00
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	1.050	-8.00	-8.000	-8.00	0.270	-8.00	0.31	-9.00	-8.00	-8.00
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	0.669	-8.00	-8.000	-8.00	0.214	-8.00	0.33	-9.00	-8.00	-8.00

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	PPDDT	TTL_DDT	DICLB	DIELDRIN	ENDO_I	ENDO_II	ESO4	ENDRIN	HCHA	HCHB
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	0.62	15.98	-8.00	-8.000	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	4.10	133.53	-8.00	-8.000	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	-8.00	15.49	-8.00	0.343	0.972	-8.00	0.43	0.14	-8.000	-8.00
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	4.16	11.02	-8.00	0.492	-8.000	-8.00	-8.00	-8.00	0.166	-8.00
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	0.07	18.86	-8.00	0.248	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	-8.00	9.59	-8.00	0.336	0.765	-8.00	-8.00	-8.00	-8.000	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-8.00	11.96	-8.00	0.455	0.836	-8.00	-8.00	-8.00	-8.000	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	-8.00	18.74	-8.00	0.279	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	-8.00	18.16	-8.00	0.208	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-8.00	9.10	-8.00	0.263	0.605	-8.00	-8.00	-8.00	-8.000	-8.00
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	-8.00	13.43	-8.00	0.117	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	-8.00	10.64	-8.00	0.138	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	6.78	1096.68	-8.00	1.973	-8.000	0.69	2.05	-8.00	0.055	0.13
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	2.74	406.27	-8.00	0.997	-8.000	0.23	0.80	-8.00	0.082	0.11
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	13.20	4984.78	-8.00	2.496	-8.000	-8.00	2.34	-8.00	0.038	0.24
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	6.32	1839.16	-8.00	1.670	-8.000	-8.00	1.71	-8.00	0.084	0.12
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	0.34	51.23	-8.00	0.570	-8.000	0.06	0.26	-8.00	0.076	0.09
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	0.42	68.53	-8.00	0.440	-8.000	0.06	0.14	-8.00	0.098	0.05
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	0.49	76.68	-8.00	0.497	-8.000	0.06	0.22	-8.00	0.087	0.07
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-8.00	2.31	-8.00	0.348	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-8.00	2.07	-8.00	0.074	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-8.00	2.15	-8.00	0.167	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-8.00	2.21	-8.00	0.243	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	-8.00	2.18	-8.00	0.110	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	-8.00	2.14	-8.00	0.112	-8.000	-8.00	-8.00	-8.00	-8.000	-8.00

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	HCHG	HCHD	HEPTACHLOR	HE	HCB	METHOXY	MIREX	CNONA	TNONA	OXAD
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	0.079	0.251	-9.00
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-8.000	-8.000	-8.000	-8.000	0.049	-8.00	-8.000	0.502	1.350	-9.00
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	0.221	0.085	-9.00
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	0.150	-8.00	-8.000	0.041	0.079	-9.00
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	0.035	-8.00	-8.000	0.216	0.128	-9.00
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-9.00
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-9.00
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-9.00
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-9.00
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-9.00
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	0.190	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	0.030	-9.00
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	0.177	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	0.042	-9.00
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	0.069	-8.000	-8.000	-8.000	0.218	-8.00	0.234	6.066	8.002	-9.00
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	0.072	-8.000	-8.000	-8.000	0.198	0.14	0.076	1.268	1.927	-9.00
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	0.052	-8.000	-8.000	-8.000	0.445	-8.00	0.261	4.029	6.272	-9.00
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	0.083	0.072	-8.000	-8.000	0.179	0.27	0.151	2.666	3.070	-9.00
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	0.067	-8.000	-8.000	-8.000	0.170	0.18	-8.000	0.366	0.651	-9.00
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	0.063	-8.000	-8.000	-8.000	0.147	-8.00	-8.000	0.279	0.559	-9.00
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	0.045	-8.000	-8.000	-8.000	0.134	-8.00	-8.000	0.387	0.691	-9.00
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-9.00
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.00	-8.000	-8.000	-8.000	-9.00
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	0.135	-8.00	-8.000	0.076	0.041	-9.00
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	0.056	-8.00	-8.000	-8.000	-8.000	-9.00
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	0.213	-8.000	-8.000	-8.000	0.089	-8.00	-8.000	0.081	-8.000	-9.00
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	0.211	-8.000	-8.000	-8.000	0.073	-8.00	-8.000	0.049	-8.000	-9.00

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	OCDAN	TOXAPH	PESBATCH	PCB5	PCB8	PCB15	PCB18	PCB27	PCB28	PCB29	PCB31
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	0.081	6.30	73.70	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	0.277	23.10	73.70	-9.000	-8.000	-9.000	-8.000	-9.000	-8.000	-9.000	-9.000
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	-8.000	-8.00	B97-300	-8.000	-8.000	-8.000	-8.000	-8.000	0.168	-9.000	0.155
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	0.173	-8.00	B98-006	-8.000	0.467	0.724	0.591	-8.000	0.584	-8.000	0.515
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	0.626	-8.00	B98-006	-8.000	-8.000	0.443	0.320	-8.000	0.308	-8.000	0.091
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	-8.000	-8.00	B97-300	-8.000	0.202	-8.000	-8.000	-8.000	0.261	-9.000	0.211
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-8.000	-8.00	B97-300	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-9.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	0.748	-8.00	B98-006	-8.000	-8.000	-8.000	-8.000	-8.000	0.200	-8.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	0.886	-8.00	B98-006	-8.000	-8.000	-8.000	-8.000	-8.000	0.276	-8.000	0.163
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-8.000	-8.00	B97-300	-8.000	-8.000	-8.000	-8.000	-8.000	0.066	-9.000	0.136
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	0.753	-8.00	B98-006	-8.000	-8.000	-8.000	-8.000	-8.000	0.094	-8.000	0.096
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	0.498	-8.00	B98-006	-8.000	-8.000	-8.000	-8.000	-8.000	0.149	-8.000	0.153
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	-8.000	-8.00	B97-329	-8.000	1.603	1.997	1.173	0.197	5.068	-8.000	3.021
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	-8.000	-8.00	B97-329	-8.000	-8.000	0.461	0.445	0.161	1.675	-8.000	0.502
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	-8.000	-8.00	B97-329	-8.000	-8.000	2.412	1.502	0.384	9.305	-8.000	5.017
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	-8.000	-8.00	B97-329	-8.000	-8.000	0.766	0.537	0.269	2.424	-8.000	0.707
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	-8.000	-8.00	B97-329	-8.000	-8.000	-8.000	0.129	0.104	0.726	-8.000	0.142
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	-8.000	-8.00	B97-329	-8.000	-8.000	-8.000	0.134	-8.000	0.497	-8.000	0.130
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	-8.000	-8.00	B97-329	-8.000	0.406	-8.000	0.170	0.078	0.520	-8.000	0.227
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-8.000	-8.00	B97-300	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-9.000	0.119
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	0.570	-8.00	B98-006	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	0.782	-8.00	B98-006	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-8.000	-8.00	B97-300	-8.000	-8.000	-8.000	-8.000	-8.000	0.106	-9.000	0.195
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	0.669	-8.00	B98-006	-8.000	-8.000	-8.000	0.444	-8.000	0.110	-8.000	-8.000
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	0.320	-8.00	B98-006	-8.000	-8.000	-8.000	0.248	-8.000	0.034	-8.000	-8.000

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	PCB44	PCB49	PCB52	PCB66	PCB70	PCB74	PCB87	PCB95	PCB97	PCB99	PCB101
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-8.000	-9.000	-8.000	-8.000	-9.000	-9.000	-8.000	-9.000	-9.000	-9.000	0.127
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-8.000	-9.000	-8.000	-8.000	-9.000	-9.000	-8.000	-9.000	-9.000	-9.000	0.920
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	0.084	0.255	0.324	0.419	0.311	0.174	-9.000	0.484	0.286	0.549	0.942
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	0.141	0.432	0.806	0.753	0.655	0.358	-9.000	0.293	0.173	0.148	0.263
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	-8.000	0.347	0.427	0.532	0.364	0.242	-9.000	0.556	0.380	0.680	0.894
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	-8.000	0.130	0.211	0.157	0.171	0.102	-9.000	0.175	0.094	0.143	0.317
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-8.000	0.125	0.168	0.141	0.150	0.079	-9.000	0.146	0.092	0.136	0.265
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	-8.000	0.173	0.255	0.254	0.253	0.126	-9.000	0.200	0.092	0.171	0.321
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	-8.000	0.193	0.264	0.237	0.221	0.149	-9.000	0.397	0.170	0.245	0.679
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	0.084	0.046	-9.000	0.115	0.045	0.091	0.169
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	-8.000	0.101	0.079	0.144	0.113	0.069	-9.000	0.159	0.102	0.144	0.170
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	-8.000	0.111	0.166	0.110	0.129	0.052	-9.000	0.085	0.064	0.100	0.150
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	8.064	13.070	15.043	16.892	12.145	9.766	-9.000	10.172	8.027	16.153	21.701
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	2.645	3.628	5.582	5.555	3.110	2.871	-9.000	4.465	3.243	5.436	8.027
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	16.298	27.806	34.435	39.657	28.190	22.797	-9.000	23.616	17.205	31.236	43.721
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	4.134	9.211	11.055	21.141	8.012	8.780	-9.000	8.807	7.554	15.216	19.121
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	-8.000	1.031	2.027	1.242	1.040	0.879	-9.000	0.903	0.626	1.780	1.794
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	0.279	0.604	1.199	0.919	0.683	0.577	-9.000	0.595	0.416	1.211	2.267
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	0.319	0.719	1.440	1.179	0.780	0.786	-9.000	0.690	0.519	1.686	2.569
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-9.000	0.058	-8.000	-8.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-9.000	-8.000	-8.000	-8.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-9.000	0.095	-8.000	-8.000	-8.000
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	0.026	-8.000	-9.000	0.040	-8.000	0.015	-8.000
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	-8.000	0.043	0.066	-8.000	-8.000	-8.000	-9.000	-8.000	-8.000	-8.000	-8.000
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	-8.000	0.058	0.032	-8.000	-8.000	-8.000	-9.000	-8.000	-8.000	-8.000	-8.000

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	PCB105	PCB110	PCB118	PCB128	PCB132	PCB137	PCB138	PCB149	PCB151	PCB153
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-8.000	-9.000	-8.000	-8.000	-9.000	-9.000	0.267	-9.000	-9.000	0.427
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-8.000	-9.000	0.246	-8.000	-9.000	-9.000	1.370	-9.000	-9.000	2.670
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	0.461	0.982	1.121	0.204	0.368	0.022	1.281	0.783	0.457	1.472
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	0.237	0.393	0.532	-8.000	-8.000	0.121	0.282	0.151	-8.000	0.188
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	0.489	1.250	1.450	0.209	0.305	0.042	1.770	0.924	0.372	1.310
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	0.101	0.258	0.298	-8.000	0.056	-8.000	0.284	0.157	0.131	0.305
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-8.000	0.246	0.278	-8.000	0.077	-8.000	0.317	0.191	0.207	0.236
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	0.192	0.404	0.679	0.072	-8.000	-8.000	0.656	1.890	0.126	0.474
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	0.228	0.579	0.803	0.153	0.304	0.046	1.460	0.878	0.452	1.070
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-8.000	0.153	0.193	-8.000	0.123	-8.000	0.226	0.117	0.140	0.193
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	0.099	0.205	0.381	-8.000	0.075	-8.000	0.343	0.262	0.140	0.270
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	0.119	0.310	0.331	-8.000	0.070	-8.000	0.346	0.081	0.200	0.258
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	12.700	26.510	32.798	5.092	2.824	1.381	34.155	18.125	5.154	40.320
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	3.535	8.107	10.260	1.728	2.033	0.678	11.044	7.216	2.007	12.213
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	24.425	19.358	38.648	8.542	11.142	2.907	30.915	35.179	10.096	33.716
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	10.853	23.700	32.857	4.686	5.588	1.670	31.241	16.159	4.659	34.472
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	0.968	1.383	3.068	0.405	0.410	0.167	3.095	1.053	0.455	2.972
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	0.859	1.073	2.408	0.346	0.470	0.156	2.704	0.694	0.380	3.168
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	1.296	1.179	3.580	0.514	0.387	0.218	4.086	0.941	0.585	4.644
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-8.000	-8.000	0.214	-8.000	-8.000	-8.000	0.151	-8.000	-8.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-8.000	-8.000	0.112	-8.000	-8.000	-8.000	0.129	-8.000	-8.000	-8.000
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	0.033	0.065	-8.000
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	0.057	-8.000	0.141	-8.000	0.045	-8.000	0.168	-8.000	-8.000	0.093
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	0.046	-8.000	0.172	-8.000	0.030	-8.000	0.244	-8.000	-8.000	0.093

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	PCB156	PCB157	PCB158	PCB170	PCB174	PCB177	PCB180	PCB183	PCB187	PCB189
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-9.000	-9.000	-9.000	0.065	-9.000	-9.000	0.250	-9.000	0.176	-9.000
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-9.000	-9.000	-9.000	0.333	-9.000	-9.000	1.120	-9.000	0.804	-9.000
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	0.088	-8.000	0.096	0.334	0.189	0.167	0.644	0.127	0.309	-8.000
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	0.075	-8.000	-8.000	-8.000	-8.000	-8.000
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	-8.000	-8.000	0.118	-8.000	0.310	0.168	-8.000	0.127	0.390	-8.000
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	-8.000	-8.000	0.016	-8.000	-8.000	0.201	-8.000	-8.000	-8.000	0.028
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	0.068	0.102	0.260	-8.000	-8.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	-8.000	-8.000	-8.000	0.123	0.407	-8.000	0.209	0.023	0.097	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	-8.000	-8.000	0.117	0.484	0.453	0.272	1.060	0.149	0.316	-8.000
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	0.026	0.072	0.226	-8.000	-8.000	0.034
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	0.423	-8.000	0.156	0.061	-8.000	-8.000
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	0.154	-8.000	0.239	-8.000	-8.000	-8.000
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	2.836	0.773	2.836	6.523	3.909	3.304	16.029	4.266	11.455	0.217
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	1.009	0.253	1.055	1.980	1.502	1.342	15.017	1.462	3.695	0.101
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	5.287	1.045	6.629	8.895	6.580	5.299	34.860	6.131	14.330	0.457
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	2.330	0.645	2.653	5.265	3.299	2.693	13.600	3.542	9.062	0.155
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	0.284	0.079	0.274	0.331	0.117	0.177	2.054	0.320	0.772	0.011
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	0.285	0.044	0.074	0.395	0.084	0.169	2.717	0.348	0.797	0.023
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	0.467	0.085	0.339	0.690	0.102	0.223	3.931	0.510	1.118	-8.000
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	0.234	-8.000	-8.000	-8.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	0.025	0.091	0.078	-8.000	-8.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	0.161	0.095	0.117	-8.000	-8.000	-8.000
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	0.266	0.106	-8.000	-8.000	-8.000
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	0.171	0.151	0.106	-8.000	-8.000	-8.000
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	0.107	0.080	0.082	-8.000	-8.000	-8.000

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	PCB194	PCB195	PCB201	PCB203	PCB206	PCB209	PCBBATCH	ARO5460	ARO1248
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-9.000	-8.000	-9.000	-9.000	-8.000	-8.000	73.70	-9.000	-9.000
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-9.000	-8.000	-9.000	-9.000	-8.000	-8.000	73.70	-9.000	-9.000
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	0.165	-8.000	0.110	0.101	-8.000	-8.000	B97-300	-9.000	-8.000
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	B98-006	-9.000	-8.000
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	-8.000	-8.000	0.137	-8.000	-8.000	-8.000	B98-006	-9.000	-8.000
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	0.100	-8.000	0.045	0.020	-8.000	-8.000	B97-300	-9.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	0.125	-8.000	0.041	0.032	-8.000	-8.000	B97-300	-9.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	0.171	B98-006	-9.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	-8.000	-8.000	0.096	0.052	-8.000	0.139	B98-006	-9.000	-8.000
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	0.045	-8.000	0.024	0.012	-8.000	-8.000	B97-300	-9.000	-8.000
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	B98-006	-9.000	-8.000
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	B98-006	-9.000	-8.000
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	2.478	1.578	3.280	3.403	1.689	0.698	B97-329	-9.000	-8.000
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	1.091	0.548	1.555	1.395	0.646	0.403	B97-329	-9.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	4.634	1.740	5.007	5.133	1.519	0.681	B97-329	-9.000	-8.000
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	2.114	1.225	2.882	2.895	1.305	0.574	B97-329	-9.000	-8.000
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	0.125	0.082	0.200	0.179	0.109	0.056	B97-329	-9.000	-8.000
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	0.121	0.077	0.170	0.155	0.063	0.045	B97-329	-9.000	-8.000
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	0.256	-8.000	0.293	-8.000	-8.000	-8.000	B97-329	-9.000	-8.000
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	0.017	-8.000	-8.000	-8.000	-8.000	-8.000	B97-300	-9.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	B98-006	-9.000	-8.000
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	B98-006	-9.000	-8.000
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	0.021	-8.000	0.018	-8.000	-8.000	-8.000	B97-300	-9.000	-8.000
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	B98-006	-9.000	-8.000
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	-8.000	-8.000	-8.000	-8.000	-8.000	-8.000	B98-006	-9.000	-8.000

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	ARO1254	ARO1260	TTL_PCB	ACY	ACE	ANT	BAA	BAP	BBF	BKF	BGP	BEP	BPH
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-9.000	-9.000	5.024	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-9.000	-9.000	17.126	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	16.412	-8.000	16.526	-8.00	-8.00	3.29	6.80	7.51	16.52	5.95	4.12	7.93	-8.00
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	7.970	-8.000	11.088	-8.00	0.39	0.48	1.74	0.29	1.83	1.37	-8.00	0.80	0.32
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	22.400	-8.000	17.598	1.36	0.69	4.95	7.64	10.10	13.70	13.60	2.58	8.78	0.39
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	4.709	-8.000	6.072	-8.00	-8.00	0.53	1.59	0.79	4.69	1.64	-8.00	2.55	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	-8.000	-8.000	5.530	-8.00	-8.00	1.22	3.20	2.13	4.38	1.46	-8.00	2.72	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	-8.000	-8.000	8.406	0.46	0.86	2.60	3.61	3.14	4.98	4.07	0.92	3.76	0.60
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	-8.000	-8.000	15.338	0.37	0.76	1.61	3.01	3.04	3.99	3.08	0.71	3.32	0.45
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	-8.000	-8.000	4.546	-8.00	-8.00	0.63	1.69	-8.00	2.35	0.81	-8.00	1.64	-8.00
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	-8.000	-8.000	5.272	0.17	0.71	1.15	1.83	1.26	2.53	1.95	0.39	1.47	0.31
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	-8.000	-8.000	5.536	-8.00	0.57	0.79	1.16	0.91	1.71	1.57	0.23	1.24	0.31
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	604.180	-8.000	465.162	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	208.649	-8.000	170.196	0.67	2.26	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	2.23
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	1433.861	-8.000	686.578	-8.00	2.62	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	2.62
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	502.274	-8.000	407.304	0.54	2.13	1.20	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	2.13
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	114.222	-8.000	40.060	0.41	3.70	0.48	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	3.70
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	63.488	-8.000	37.948	-8.00	1.43	0.28	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	1.43
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	67.846	-8.000	53.524	-8.00	1.62	0.30	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	1.62
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	-8.000	-8.000	3.600	-8.00	-8.00	-8.00	0.51	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	-8.000	-8.000	3.886	-8.00	0.31	-8.00	0.26	-8.00	-8.00	-8.00	-8.00	-8.00	0.28
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	-8.000	-8.000	3.716	-8.00	0.47	-8.00	0.39	-8.00	-8.00	-8.00	-8.00	-8.00	0.31
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	-8.000	-8.000	3.624	-8.00	-8.00	-8.00	0.42	-8.00	0.44	0.14	-8.00	-8.00	-8.00
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	-8.000	-8.000	4.370	-8.00	0.77	0.17	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	0.31
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	-8.000	-8.000	3.902	-8.00	0.40	0.11	0.17	-8.00	0.20	-8.00	-8.00	0.17	0.33

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	CHR	COR	DBA	DBT	DMN	FLA	FLU	IND	MNP1	MNP2	MPH1	NPH	PHN	PER
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-8.00	-9.00	-8.00	-9.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-8.00	-9.00	-8.00	-9.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	14.98	-8.00	1.25	-8.00	-8.00	8.88	0.84	4.64	-8.00	-8.00	1.00	1.61	4.17	1.65
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	7.22	-8.00	-8.00	0.32	0.45	39.70	0.49	-8.00	0.41	0.58	1.13	0.61	5.34	0.48
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	14.20	-8.00	0.71	0.28	1.02	14.80	0.64	2.55	0.81	1.37	0.63	1.38	3.80	2.48
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	4.62	-8.00	-8.00	-8.00	-8.00	10.39	-8.00	-8.00	-8.00	-8.00	-8.00	1.23	1.44	1.77
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	5.77	-8.00	-8.00	-8.00	-8.00	9.46	-8.00	-8.00	-8.00	-8.00	-8.00	2.03	2.34	3.40
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	7.05	-8.00	0.31	-8.00	1.37	16.90	0.69	0.74	1.60	2.58	0.56	2.72	2.62	5.56
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	6.56	-8.00	0.27	-8.00	0.93	12.40	0.61	0.57	0.96	1.75	0.52	1.82	1.87	5.57
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	2.86	-8.00	-8.00	-8.00	-8.00	6.48	-8.00	-8.00	-8.00	-8.00	-8.00	1.36	1.54	-8.00
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	3.23	-8.00	0.18	0.17	0.66	8.31	0.42	0.42	0.95	1.39	0.32	1.09	1.36	3.82
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	2.22	-8.00	0.13	-8.00	0.52	7.31	0.40	0.97	0.62	1.13	0.23	0.83	1.09	3.00
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	1.18	-8.00	-8.00
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	0.53	-8.00	0.49	0.97	-8.00	1.34	-8.00	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	0.79	-8.00	0.53	0.78	-8.00	1.15	-8.00	-8.00
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	0.65	-8.00	0.54	0.76	-8.00	0.93	0.53	-8.00
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	-8.00	-8.00	-8.00	-8.00	-8.00	-8.00	1.18	-8.00	1.06	1.44	-8.00	1.45	0.72	-8.00
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	-8.00	-8.00	-8.00	-8.00	-8.00	2.24	-8.00	-8.00	0.36	0.40	-8.00	1.07	0.39	-8.00
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	-8.00	-8.00	-8.00	-8.00	-8.00	2.05	0.43	-8.00	-8.00	-8.00	-8.00	0.82	0.59	-8.00
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	0.75	-8.00	-8.00	-8.00	-8.00	2.21	-8.00	-8.00	-8.00	-8.00	-8.00	2.04	1.16	-8.00
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	0.67	-8.00	-8.00	-8.00	0.57	2.53	0.24	-8.00	0.75	1.11	0.22	1.08	1.00	-8.00
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	0.92	-8.00	-8.00	-8.00	0.39	3.87	0.30	-8.00	2.38	2.54	0.30	2.10	1.54	-8.00
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	0.60	-8.00	-8.00	-8.00	-8.00	0.53	-8.00	-8.00	-8.00	-8.00	-8.00	1.32	1.00	-8.00
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	0.44	-8.00	-8.00	0.27	0.49	0.80	0.40	-8.00	0.76	1.09	0.28	1.02	0.97	0.32
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	0.50	-8.00	-8.00	0.15	0.58	0.80	0.33	-8.00	0.83	1.16	0.25	1.02	0.94	0.34

Bivalve and Fish Tissue Chemistry

STANUM	STATION	IDORG	DATE	LEG	PYR	TMN	TRY	PAHBATCH	SODATAQA
44106.0	POINT MUGU- LAGOON	283.0	10/5/92	-9.0	-8.00	-8.00	-9.00	73.70	-5
44016.0	POINT MUGU- LAGOON	284.0	10/5/92	-9.0	-8.00	-8.00	-9.00	73.70	-5
40009.0	WEST BASIN ENTRANCE- 1	1774.1	6/17/97	53.0	8.64	-8.00	-9.00	B97-300	-5
40009.0	WEST BASIN ENTRANCE-2	1774.2	5/13/97	53.0	21.00	0.46	-9.00	B98-006	-5
40009.0	WEST BASIN ENTRANCE-3	1774.3	5/13/97	53.0	14.20	-8.00	-9.00	B98-006	-5
49001.0	CABRILLO BEACH PIER- WEST- 1	1778.1	6/17/97	53.0	6.10	-8.00	-9.00	B97-300	-5
49002.0	CABRILLO BEACH PIER- CENTRAL-1	1779.1	6/17/97	53.0	5.86	-8.00	-9.00	B97-300	-5
49002.0	CABRILLO BEACH PIER- CENTRAL-2	1779.2	5/13/97	53.0	11.00	1.67	-9.00	B98-006	-5
49002.0	CABRILLO BEACH PIER- CENTRAL-3	1779.3	5/13/97	53.0	6.97	1.77	-9.00	B98-006	-5
49003.0	CABRILLO BEACH PIER- EAST- 1	1780.1	6/17/97	53.0	3.92	-8.00	-9.00	B97-300	-5
49003.0	CABRILLO BEACH PIER- EAST-2	1780.2	5/13/97	53.0	5.22	0.94	-9.00	B98-006	-5
49003.0	CABRILLO BEACH PIER- EAST-3	1780.3	5/13/97	53.0	4.57	0.66	-9.00	B98-006	-5
40020.2	LONG BEACH OUTER HARBOR- 20	1781.0	5/13/97	53.0	0.60	-8.00	-9.00	B97-329	-5
49001.0	CABRILLO BEACH PIER- WEST	1782.0	5/13/97	53.0	-8.00	-8.00	-9.00	B97-329	-5
49002.0	CABRILLO BEACH PIER- CENTRAL	1783.0	5/13/97	53.0	-8.00	-8.00	-9.00	B97-329	-5
49003.0	CABRILLO BEACH PIER- EAST	1784.0	5/13/97	53.0	-8.00	-8.00	-9.00	B97-329	-5
49001.0	CABRILLO BEACH PIER- WEST	1785.0	5/13/97	53.0	-8.00	-8.00	-9.00	B97-329	-5
49002.0	CABRILLO BEACH PIER- CENTRAL	1786.0	5/13/97	53.0	0.29	-8.00	-9.00	B97-329	-5
49003.0	CABRILLO BEACH PIER- EAST	1787.0	5/13/97	53.0	0.42	-8.00	-9.00	B97-329	-5
	GC-INITIAL BEFORE EXPOSURE- 1	1805.1	5/23/97	53.0	1.44	-8.00	-9.00	B97-300	-5
	GC- INITIAL BEFORE EXPOSURE-2	1805.2	5/23/97	53.0	1.49	-8.00	-9.00	B98-006	-5
	GC- INITIAL BEFORE EXPOSURE-3	1805.3	5/23/97	53.0	2.05	-8.00	-9.00	B98-006	-5
	GC-HOME CONTROL- 1	1806.1	6/17/97	53.0	0.58	-8.00	-9.00	B97-300	-5
	GC- HOME CONTROL-2	1806.2	6/17/97	53.0	0.75	-8.00	-9.00	B98-006	-5
	GC- HOME CONTROL-3	1806.3	6/17/97	53.0	0.82	-8.00	-9.00	B98-006	-5

Appendix D

Sediment Grain Size and Total Organic Carbon Analyses

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	FINES	FINEBATCH	FINEDATAQC	COARSESAND	FINESAND	COARSESILT	FINESILT
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	70.06	1	-9	-9.00	-9.00	-9.00	-9.00
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	71.65	1	-9	-9.00	-9.00	-9.00	-9.00
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	80.54	1	-9	-9.00	-9.00	-9.00	-9.00
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	54.00	1	-9	-9.00	-9.00	-9.00	-9.00
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	75.47	1	-9	-9.00	-9.00	-9.00	-9.00
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	60.00	1	-9	-9.00	-9.00	-9.00	-9.00
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	37.53	1	-9	-9.00	-9.00	-9.00	-9.00
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	23.80	1	-9	-9.00	-9.00	-9.00	-9.00
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	32.00	1	-9	-9.00	-9.00	-9.00	-9.00
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	44.00	1	-9	-9.00	-9.00	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	88.68	1	-9	-9.00	-9.00	-9.00	-9.00
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	82.00	1	-9	-9.00	-9.00	-9.00	-9.00
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	51.60	1	-9	-9.00	-9.00	-9.00	-9.00
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	71.00	1	-9	-9.00	-9.00	-9.00	-9.00
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	77.00	1	-9	-9.00	-9.00	-9.00	-9.00
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	90.90	1	-9	-9.00	-9.00	-9.00	-9.00
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	92.92	1	-9	-9.00	-9.00	-9.00	-9.00
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	78.00	1	-9	-9.00	-9.00	-9.00	-9.00
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	15.00	1	-9	-9.00	-9.00	-9.00	-9.00
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	18.06	1	-9	-9.00	-9.00	-9.00	-9.00
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	87.43	1	-9	-9.00	-9.00	-9.00	-9.00
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	92.00	1	-9	-9.00	-9.00	-9.00	-9.00
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	94.00	1	-9	-9.00	-9.00	-9.00	-9.00
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	88.00	2	-9	-9.00	-9.00	-9.00	-9.00
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	63.00	2	-9	-9.00	-9.00	-9.00	-9.00
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	70.85	2	-9	-9.00	-9.00	-9.00	-9.00
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	57.00	2	-9	-9.00	-9.00	-9.00	-9.00
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	73.00	2	-9	-9.00	-9.00	-9.00	-9.00
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	83.00	2	-9	-9.00	-9.00	-9.00	-9.00
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	93.02	2	-9	-9.00	-9.00	-9.00	-9.00
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	76.28	2	-9	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	90.00	2	-9	-9.00	-9.00	-9.00	-9.00
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	82.32	2	-9	-9.00	-9.00	-9.00	-9.00
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	87.56	2	-9	-9.00	-9.00	-9.00	-9.00
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	79.00	2	-9	-9.00	-9.00	-9.00	-9.00
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	63.11	2	-9	-9.00	-9.00	-9.00	-9.00
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	37.00	2	-9	-9.00	-9.00	-9.00	-9.00

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	FINES	FINEBATCH	FINEDATAQC	COARSESAND	FINESAND	COARSESILT	FINESILT
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	29.37	2	-9	-9.00	-9.00	-9.00	-9.00
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	75.00	2	-9	-9.00	-9.00	-9.00	-9.00
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	68.00	2	-9	-9.00	-9.00	-9.00	-9.00
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	91.00	2	-9	-9.00	-9.00	-9.00	-9.00
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	78.11	2	-9	-9.00	-9.00	-9.00	-9.00
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	76.64	2	-9	-9.00	-9.00	-9.00	-9.00
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	91.13	2	-9	-9.00	-9.00	-9.00	-9.00
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	82.00	2	-9	-9.00	-9.00	-9.00	-9.00
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	29.00	2	-9	-9.00	-9.00	-9.00	-9.00
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	20.33	2	-9	-9.00	-9.00	-9.00	-9.00
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	26.00	2	-9	-9.00	-9.00	-9.00	-9.00
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	40.00	2	-9	-9.00	-9.00	-9.00	-9.00
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	40.00	2	-9	-9.00	-9.00	-9.00	-9.00
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	75.00	3	-9	-9.00	-9.00	-9.00	-9.00
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	79.82	3	-9	-9.00	-9.00	-9.00	-9.00
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	77.00	3	-9	-9.00	-9.00	-9.00	-9.00
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	87.00	3	-9	-9.00	-9.00	-9.00	-9.00
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	89.00	3	-9	-9.00	-9.00	-9.00	-9.00
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	88.40	3	-9	-9.00	-9.00	-9.00	-9.00
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	94.60	3	-9	-9.00	-9.00	-9.00	-9.00
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	90.00	3	-9	-9.00	-9.00	-9.00	-9.00
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	91.00	3	-9	-9.00	-9.00	-9.00	-9.00
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	89.00	3	-9	-9.00	-9.00	-9.00	-9.00
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	96.60	3	-9	-9.00	-9.00	-9.00	-9.00
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	94.37	3	-9	-9.00	-9.00	-9.00	-9.00
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	80.00	3	-9	-9.00	-9.00	-9.00	-9.00
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	81.00	3	-9	-9.00	-9.00	-9.00	-9.00
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	83.48	3	-9	-9.00	-9.00	-9.00	-9.00
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	71.00	3	-9	-9.00	-9.00	-9.00	-9.00
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	77.00	3	-9	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	79.13	3	-9	-9.00	-9.00	-9.00	-9.00
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	57.00	3	-9	-9.00	-9.00	-9.00	-9.00
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	64.66	3	-9	-9.00	-9.00	-9.00	-9.00
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	69.64	3	-9	-9.00	-9.00	-9.00	-9.00
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	63.00	3	-9	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	62.92	3	-9	-9.00	-9.00	-9.00	-9.00
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	51.75	3	-9	-9.00	-9.00	-9.00	-9.00
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	53.00	4	-9	-9.00	-9.00	-9.00	-9.00

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	FINES	FINEBATCH	FINEDATAQC	COARSESAND	FINESAND	COARSESILT	FINESILT
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	79.00	4	-9	-9.00	-9.00	-9.00	-9.00
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	38.59	4	-9	-9.00	-9.00	-9.00	-9.00
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	77.43	4	-9	-9.00	-9.00	-9.00	-9.00
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	91.00	4	-9	-9.00	-9.00	-9.00	-9.00
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	90.00	4	-9	-9.00	-9.00	-9.00	-9.00
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	58.00	4	-9	-9.00	-9.00	-9.00	-9.00
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	53.00	4	-9	-9.00	-9.00	-9.00	-9.00
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	32.39	4	-9	-9.00	-9.00	-9.00	-9.00
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	88.13	4	-9	-9.00	-9.00	-9.00	-9.00
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	72.00	4	-9	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	95.00	4	-9	-9.00	-9.00	-9.00	-9.00
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	50.00	11	-3	-9.00	-9.00	-9.00	-9.00
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	78.00	11	-3	-9.00	-9.00	-9.00	-9.00
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	52.00	11	-3	-9.00	-9.00	-9.00	-9.00
44014.0	MARINA DEL REY	614	1/14/93	11.0	93.00	11	-3	-9.00	-9.00	-9.00	-9.00
44016.0	MUGU LAGOON	616	1/12/93	11.0	64.00	11	-3	-9.00	-9.00	-9.00	-9.00
44017.0	COLORADO LAGOON	617	1/14/93	11.0	30.00	11	-3	-9.00	-9.00	-9.00	-9.00
44018.0	MALIBU LAGOON	618	1/13/93	11.0	98.00	11	-3	-9.00	-9.00	-9.00	-9.00
44020.0	SHORELINE MARINA	620	1/14/93	11.0	91.00	11	-3	-9.00	-9.00	-9.00	-9.00
44021.0	VENTURA MARINA	621	1/13/93	11.0	97.00	11	-3	-9.00	-9.00	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	70.00	11	-3	-9.00	-9.00	-9.00	-9.00
44024.0	BALLONA CREEK	624	1/14/93	11.0	65.00	11	-3	-9.00	-9.00	-9.00	-9.00
44026.0	SIM'S POND	626	1/14/93	11.0	83.00	11	-3	-9.00	-9.00	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	97.00	11	-3	-9.00	-9.00	-9.00	-9.00
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	63.00	11	-3	-9.00	-9.00	-9.00	-9.00
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	92.00	11	-3	-9.00	-9.00	-9.00	-9.00
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	99.00	11	-3	-9.00	-9.00	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	91.00	11	-3	-9.00	-9.00	-9.00	-9.00
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	80.00	11	-3	-9.00	-9.00	-9.00	-9.00
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	83.00	13	-3	-9.00	-9.00	-9.00	-9.00
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	79.00	13	-3	-9.00	-9.00	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	81.00	18	-3	-9.00	-9.00	-9.00	-9.00
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	77.00	18	-3	-9.00	-9.00	-9.00	-9.00
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	76.00	18	-3	-9.00	-9.00	-9.00	-9.00
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	61.00	18	-3	-9.00	-9.00	-9.00	-9.00
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	86.00	18	-3	-9.00	-9.00	-9.00	-9.00
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	92.57	19	-4	-9.00	-9.00	-9.00	-9.00
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	73.95	19	-4	-9.00	-9.00	-9.00	-9.00

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	FINES	FINEBATCH	FINEDATAQC	COARSESAND	FINESAND	COARSESILT	FINESILT
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	83.82	19	-4	-9.00	-9.00	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	36.12	20	-4	-9.00	-9.00	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	36.96	20	-4	-9.00	-9.00	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	54.35	20	-4	-9.00	-9.00	-9.00	-9.00
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	71.77	20	-4	-9.00	-9.00	-9.00	-9.00
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	70.90	20	-4	-9.00	-9.00	-9.00	-9.00
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	66.32	20	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	75.06	22	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	79.88	22	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	76.51	22	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	60.30	23	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	54.52	23	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	54.30	23	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	69.83	23	-4	-9.00	-9.00	-9.00	-9.00
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	95.66	23	-4	-9.00	-9.00	-9.00	-9.00
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	69.93	23	-4	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	92.82	23	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	55.10	25	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	60.33	25	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	41.71	25	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	71.89	25	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	79.06	25	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	71.43	25	-4	-9.00	-9.00	-9.00	-9.00
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	84.42	25	-4	-9.00	-9.00	-9.00	-9.00
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	78.62	25	-4	-9.00	-9.00	-9.00	-9.00
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	70.82	25	-4	-9.00	-9.00	-9.00	-9.00
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	93.60	25	-4	-9.00	-9.00	-9.00	-9.00
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	94.03	25	-4	-9.00	-9.00	-9.00	-9.00
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	94.58	25	-4	-9.00	-9.00	-9.00	-9.00
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	16.27	25	-4	-9.00	-9.00	-9.00	-9.00
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	15.65	25	-4	-9.00	-9.00	-9.00	-9.00
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	20.56	25	-4	-9.00	-9.00	-9.00	-9.00
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	20.47	25	-4	-9.00	-9.00	-9.00	-9.00
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	21.49	25	-4	-9.00	-9.00	-9.00	-9.00
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	38.33	25	-4	-9.00	-9.00	-9.00	-9.00
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	87.51	25	-4	-9.00	-9.00	-9.00	-9.00
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	87.60	25	-4	-9.00	-9.00	-9.00	-9.00
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	75.86	25	-4	-9.00	-9.00	-9.00	-9.00

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	FINES	FINEBATCH	FINEDATAQC	COARSESAND	FINESAND	COARSESILT	FINESILT
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	62.63	25	-4	-9.00	-9.00	-9.00	-9.00
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	63.54	25	-4	-9.00	-9.00	-9.00	-9.00
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	46.40	25	-4	-9.00	-9.00	-9.00	-9.00
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	99.48	25	-4	-9.00	-9.00	-9.00	-9.00
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	99.67	25	-4	-9.00	-9.00	-9.00	-9.00
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	99.74	25	-4	-9.00	-9.00	-9.00	-9.00
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	91.86	26	-4	-9.00	-9.00	-9.00	-9.00
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	95.18	26	-4	-9.00	-9.00	-9.00	-9.00
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	91.12	26	-4	-9.00	-9.00	-9.00	-9.00
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	82.71	26	-4	-9.00	-9.00	-9.00	-9.00
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	71.77	26	-4	-9.00	-9.00	-9.00	-9.00
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	77.85	26	-4	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	89.48	26	-4	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	95.26	26	-4	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	90.34	26	-4	-9.00	-9.00	-9.00	-9.00
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	62.72	26	-4	-9.00	-9.00	-9.00	-9.00
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	64.36	26	-4	-9.00	-9.00	-9.00	-9.00
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	56.88	26	-4	-9.00	-9.00	-9.00	-9.00
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	95.19	26	-4	-9.00	-9.00	-9.00	-9.00
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	84.58	26	-4	-9.00	-9.00	-9.00	-9.00
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	98.36	26	-4	-9.00	-9.00	-9.00	-9.00
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	51.53	26	-4	-9.00	-9.00	-9.00	-9.00
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	66.03	26	-4	-9.00	-9.00	-9.00	-9.00
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	73.63	26	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	58.58	30	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	57.75	30	-4	-9.00	-9.00	-9.00	-9.00
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	61.84	30	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	84.63	30	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	88.06	30	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	82.91	30	-4	-9.00	-9.00	-9.00	-9.00
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	96.75	30	-4	-9.00	-9.00	-9.00	-9.00
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	84.96	30	-4	-9.00	-9.00	-9.00	-9.00
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	86.33	30	-4	-9.00	-9.00	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	82.39	30	-4	-9.00	-9.00	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	87.57	30	-4	-9.00	-9.00	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	59.52	30	-4	-9.00	-9.00	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	19.65	30	-4	-9.00	-9.00	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	11.81	30	-4	-9.00	-9.00	-9.00	-9.00

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	FINES	FINEBATCH	FINEDATAQC	COARSESAND	FINESAND	COARSESILT	FINESILT
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	51.49	30	-4	-9.00	-9.00	-9.00	-9.00
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	45.07	30	-4	-9.00	-9.00	-9.00	-9.00
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	21.29	30	-4	-9.00	-9.00	-9.00	-9.00
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	21.38	30	-4	-9.00	-9.00	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	84.26	30	-4	-9.00	-9.00	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	84.97	30	-4	-9.00	-9.00	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	92.62	30	-4	-9.00	-9.00	-9.00	-9.00
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	96.30	32	-4	-9.00	-9.00	-9.00	-9.00
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	94.95	32	-4	-9.00	-9.00	-9.00	-9.00
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	97.43	32	-4	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	77.99	32	-4	-9.00	-9.00	-9.00	-9.00
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	70.28	45	-4	-9.00	-9.00	-9.00	-9.00
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	67.75	45	-4	-9.00	-9.00	-9.00	-9.00
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	52.88	45	-4	-9.00	-9.00	-9.00	-9.00
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	38.05	45	-4	-9.00	-9.00	-9.00	-9.00
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	62.58	45	-4	-9.00	-9.00	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	90.16	45	-4	-9.00	-9.00	-9.00	-9.00
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	18.84	45	-4	-9.00	-9.00	-9.00	-9.00
44014.0	MARINA DEL REY	1630	6/19/96	45.0	88.22	45	-4	-9.00	-9.00	-9.00	-9.00
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	98.87	45	-4	-9.00	-9.00	-9.00	-9.00
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	81.10	45	-4	-9.00	-9.00	-9.00	-9.00
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	84.15	46	-4	-9.00	-9.00	-9.00	-9.00
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	72.63	46	-4	-9.00	-9.00	-9.00	-9.00
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	80.69	46	-4	-9.00	-9.00	-9.00	-9.00
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	70.15	46	-4	-9.00	-9.00	-9.00	-9.00
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	62.56	46	-4	-9.00	-9.00	-9.00	-9.00
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	80.57	46	-4	-9.00	-9.00	-9.00	-9.00
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	68.31	46	-4	-9.00	-9.00	-9.00	-9.00
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	86.10	46	-4	-9.00	-9.00	-9.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	78.54	46	-4	-9.00	-9.00	-9.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	76.92	46	-4	-9.00	-9.00	-9.00	-9.00
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	87.23	46	-4	-9.00	-9.00	-9.00	-9.00
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	59.58	46	-4	-9.00	-9.00	-9.00	-9.00
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	75.44	46	-4	-9.00	-9.00	-9.00	-9.00
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	92.80	46	-4	-9.00	-9.00	-9.00	-9.00
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	62.02	46	-4	-9.00	-9.00	-9.00	-9.00
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	100.00	B97077	-4	0.00	0.00	0.00	53.97
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	100.00	B97077	-4	0.00	0.00	7.07	64.06

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	FINES	FINEBATCH	FINEDATAQC	COARSESAND	FINESAND	COARSESILT	FINESILT
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	100.00	B97077	-4	0.00	0.00	0.00	66.46
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	88.36	B97077	-4	0.00	11.64	13.72	52.96
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	88.33	B97077	-4	0.00	11.67	17.75	55.63
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	100.00	B97077	-4	0.00	0.00	0.00	60.41
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	100.00	B97077	-4	0.00	0.00	24.96	52.65
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	93.42	B97077	-4	0.00	6.58	17.02	62.24
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	75.90	B97077	-4	0.00	24.10	3.15	51.01
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	79.92	B97077	-4	0.00	20.08	3.99	48.44
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	81.21	B97077	-4	0.40	18.39	12.50	49.58
48010.0	TURNING BASIN	1697	2/4/97	48.0	30.77	B97077	-4	2.05	67.19	5.15	13.94
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	43.25	B97077	-4	9.86	46.89	6.32	24.45
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	75.26	B97077	-4	0.00	24.74	9.43	42.43
48011.0	KING HARBOR	1700	2/5/97	48.0	49.81	B97077	-4	0.00	50.19	0.00	35.22
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	78.25	B97077	-4	0.00	21.75	10.57	39.25
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	83.42	B97077	-4	1.55	15.04	9.74	56.80
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	38.15	B97077	-4	23.55	38.30	1.70	24.66
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	37.21	B97077	-4	6.01	56.78	1.97	21.70
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	82.04	B97077	-4	0.00	17.96	13.30	49.91
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	76.98	B97077	-4	0.87	22.15	5.05	41.85
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	100.00	B97077	-4	0.00	0.00	0.00	55.26
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	61.21	B97077	-4	7.17	31.62	1.63	48.60
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
48010.0	TURNING BASIN	1772	5/13/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
48011.0	KING HARBOR	1775	5/12/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53.0	-9.00	-9	-9	-9.00	-9.00	-9.00	-9.00
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	81.56	B97232	-4	0.22	18.21	13.40	54.54
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	100.00	B97232	-4	0.00	0.00	3.33	66.59
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	100.00	B97232	-4	0.00	0.00	7.23	43.31
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	40.88	B97337	-4	55.10	4.02	4.68	30.25
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	96.40	B97337	-4	0.21	3.40	7.64	64.99

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	CLAY	EXPANDEDQC	TOC	TOCBATCH	TOCDATAQC	DOC
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-9.00	-9	1.60	1	-9	-9
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-9.00	-9	1.40	1	-9	-9
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9.00	-9	2.00	1	-9	-9
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.00	-9	1.50	1	-9	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-9.00	-9	0.90	1	-9	-9
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.00	-9	0.90	1	-9	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9.00	-9	0.70	1	-9	-9
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9.00	-9	0.60	1	-9	-9
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.00	-9	0.80	1	-9	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.00	-9	1.30	1	-9	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-9.00	-9	3.40	1	-9	-9
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9.00	-9	0.89	1	-9	-9
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9.00	-9	2.00	1	-9	-9
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.00	-9	0.60	1	-9	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.00	-9	0.60	1	-9	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-9.00	-9	4.60	1	-9	-9
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-9.00	-9	4.30	1	-9	-9
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.00	-9	4.40	1	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.00	-9	-9.00	-9	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.00	-9	1.80	1	-9	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9.00	-9	0.50	1	-9	-9
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-9.00	-9	1.20	1	-9	-9
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.00	-9	0.60	1	-9	-9
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.00	-9	1.60	1	-9	-9
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-9.00	-9	0.60	2	-9	-9
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.00	-9	0.50	2	-9	-9
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-9.00	-9	0.80	2	-9	-9
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-9.00	-9	0.38	2	-9	-9
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.00	-9	0.40	2	-9	-9
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-9.00	-9	0.39	2	-9	-9
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-9.00	-9	2.90	2	-9	-9
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-9.00	-9	2.50	2	-9	-9
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9.00	-9	1.10	2	-9	-9
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9.00	-9	1.50	2	-9	-9
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-9.00	-9	1.50	2	-9	-9
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.00	-9	0.70	2	-9	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-9.00	-9	0.90	2	-9	-9
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9.00	-9	0.61	2	-9	-9

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STANUM	STATION	IDORG	DATE	LEG	CLAY	EXPANDEDQC	TOC	TOCBATCH	TOCDATAQC	DOC
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9.00	-9	0.80	2	-9	-9
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9.00	-9	0.69	2	-9	-9
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9.00	-9	0.49	2	-9	-9
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9.00	-9	0.55	2	-9	-9
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-9.00	-9	2.50	2	-9	-9
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-9.00	-9	2.30	2	-9	-9
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9.00	-9	3.00	2	-9	-9
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-9.00	-9	0.25	2	-9	-9
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-9.00	-9	0.28	2	-9	-9
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-9.00	-9	0.80	2	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-9.00	-9	0.40	2	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-9.00	-9	0.29	2	-9	-9
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-9.00	-9	0.28	2	-9	-9
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.00	-9	1.20	3	-9	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-9.00	-9	1.60	3	-9	-9
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.00	-9	0.70	3	-9	-9
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-9.00	-9	1.00	3	-9	-9
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-9.00	-9	2.10	3	-9	-9
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-9.00	-9	1.50	3	-9	-9
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-9.00	-9	2.00	3	-9	-9
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-9.00	-9	1.50	3	-9	-9
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.00	-9	1.70	3	-9	-9
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.00	-9	0.90	3	-9	-9
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-9.00	-9	2.80	3	-9	-9
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-9.00	-9	2.30	3	-9	-9
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.00	-9	0.80	3	-9	-9
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.00	-9	1.30	3	-9	-9
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-9.00	-9	1.40	3	-9	-9
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.00	-9	0.60	3	-9	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.00	-9	0.80	3	-9	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-9.00	-9	1.40	3	-9	-9
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9.00	-9	0.53	3	-9	-9
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9.00	-9	1.10	3	-9	-9
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9.00	-9	0.90	3	-9	-9
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9.00	-9	0.85	3	-9	-9
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-9.00	-9	2.80	3	-9	-9
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-9.00	-9	0.70	3	-9	-9
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.00	-9	0.60	4	-9	-9

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40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.00	-9	1.00	4	-9	-9
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-9.00	-9	1.00	4	-9	-9
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-9.00	-9	1.10	4	-9	-9
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-9.00	-9	0.90	4	-9	-9
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.00	-9	0.90	4	-9	-9
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.00	-9	0.70	4	-9	-9
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.00	-9	0.80	4	-9	-9
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-9.00	-9	0.70	4	-9	-9
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-9.00	-9	2.30	4	-9	-9
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.00	-9	1.30	4	-9	-9
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.00	-9	1.30	4	-9	-9
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.00	-9	4.60	11	-3	-9
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9	1.40	11	-3	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9	0.53	11	-3	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9.00	-9	1.10	11	-3	-9
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9	0.73	11	-3	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.00	-9	1.90	11	-3	-9
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9	0.93	11	-3	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.00	-9	1.10	11	-3	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9	0.77	11	-3	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.00	-9	0.70	11	-3	-9
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.00	-9	3.00	11	-3	-9
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9	2.40	11	-3	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.00	-9	1.00	11	-3	-9
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.00	-9	0.45	11	-3	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9.00	-9	0.76	11	-3	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9.00	-9	0.66	11	-3	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9.00	-9	1.10	11	-3	-9
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9.00	-9	0.70	11	-3	-9
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9.00	-9	1.80	13	-3	-9
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9.00	-9	0.05	13	-3	-9
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	-9.00	-9	0.69	18	-3	-9
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	-9.00	-9	0.76	18	-3	-9
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	-9.00	-9	1.40	18	-3	-9
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	-9.00	-9	0.56	18	-3	-9
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	-9.00	-9	0.97	18	-3	-9
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	-9.00	-9	2.70	19	-4	-9
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	-9.00	-9	0.98	19	-4	-9

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40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	-9.00	-9	1.59	19	-4	-9
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	-9.00	-9	1.56	20	-4	-9
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	-9.00	-9	1.22	20	-4	-9
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	-9.00	-9	2.13	20	-4	-9
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	-9.00	-9	0.76	20	-4	-9
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	-9.00	-9	0.72	20	-4	-9
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	-9.00	-9	1.03	20	-4	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	-9.00	-9	1.28	22	-4	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-9.00	-9	1.49	22	-4	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-9.00	-9	1.28	22	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-9.00	-9	2.92	23	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-9.00	-9	2.79	23	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-9.00	-9	2.84	23	-4	-9
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-9.00	-9	2.45	23	-4	-9
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-9.00	-9	2.77	23	-4	-9
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-9.00	-9	2.31	23	-4	-9
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-9.00	-9	1.96	23	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	-9.00	-9	1.86	25	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	-9.00	-9	1.98	25	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-9.00	-9	1.95	25	-4	-9
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-9.00	-9	1.36	25	-4	-9
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-9.00	-9	1.28	25	-4	-9
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-9.00	-9	1.10	25	-4	-9
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	-9.00	-9	1.46	25	-4	-9
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-9.00	-9	1.28	25	-4	-9
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-9.00	-9	0.97	25	-4	-9
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	-9.00	-9	4.28	25	-4	-9
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	-9.00	-9	4.27	25	-4	-9
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	-9.00	-9	4.54	25	-4	-9
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-9.00	-9	0.34	25	-4	-9
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-9.00	-9	0.31	25	-4	-9
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-9.00	-9	1.11	25	-4	-9
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-9.00	-9	0.29	25	-4	-9
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-9.00	-9	1.05	25	-4	-9
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-9.00	-9	1.95	25	-4	-9
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-9.00	-9	1.42	25	-4	-9
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-9.00	-9	1.39	25	-4	-9
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-9.00	-9	1.37	25	-4	-9

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40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-9.00	-9	1.28	25	-4	-9
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	-9.00	-9	1.28	25	-4	-9
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	-9.00	-9	0.81	25	-4	-9
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	-9.00	-9	3.48	25	-4	-9
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-9.00	-9	2.86	25	-4	-9
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-9.00	-9	2.85	25	-4	-9
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-9.00	-9	2.50	26	-4	-9
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	-9.00	-9	2.61	26	-4	-9
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-9.00	-9	2.56	26	-4	-9
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-9.00	-9	2.34	26	-4	-9
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	-9.00	-9	2.06	26	-4	-9
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-9.00	-9	2.18	26	-4	-9
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-9.00	-9	2.16	26	-4	-9
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-9.00	-9	2.34	26	-4	-9
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-9.00	-9	1.98	26	-4	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-9.00	-9	0.99	26	-4	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-9.00	-9	1.00	26	-4	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-9.00	-9	0.86	26	-4	-9
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-9.00	-9	2.51	26	-4	-9
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	-9.00	-9	2.42	26	-4	-9
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-9.00	-9	2.46	26	-4	-9
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	-9.00	-9	5.06	26	-4	-9
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	-9.00	-9	5.30	26	-4	-9
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	-9.00	-9	5.67	26	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	-9.00	-9	2.60	30	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	-9.00	-9	2.56	30	-4	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	-9.00	-9	2.75	30	-4	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	-9.00	-9	1.47	30	-4	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	-9.00	-9	1.50	30	-4	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	-9.00	-9	1.35	30	-4	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	-9.00	-9	2.25	30	-4	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	-9.00	-9	1.22	30	-4	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	-9.00	-9	2.20	30	-4	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	-9.00	-9	1.45	30	-4	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	-9.00	-9	1.47	30	-4	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	-9.00	-9	0.78	30	-4	-9
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	-9.00	-9	0.81	30	-4	-9
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	-9.00	-9	0.54	30	-4	-9

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	CLAY	EXPANDEDQC	TOC	TOCBATCH	TOCDATAQC	DOC
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	-9.00	-9	1.81	30	-4	-9
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	-9.00	-9	0.76	30	-4	-9
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	-9.00	-9	0.38	30	-4	-9
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	-9.00	-9	0.33	30	-4	-9
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	-9.00	-9	2.79	30	-4	-9
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	-9.00	-9	2.96	30	-4	-9
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	-9.00	-9	2.71	30	-4	-9
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	-9.00	-9	2.90	32	-4	-9
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	-9.00	-9	2.86	32	-4	-9
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	-9.00	-9	2.93	32	-4	-9
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	-9.00	-9	1.29	32	-4	-9
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.00	-9	1.47	45	-4	1583
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.00	-9	1.51	45	-4	2259
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.00	-9	1.39	45	-4	1221
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-9.00	-9	1.29	45	-4	2702
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-9.00	-9	1.30	45	-4	2463
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-9.00	-9	2.46	45	-4	645
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-9.00	-9	0.50	45	-4	1614
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-9.00	-9	2.08	45	-4	420
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	-9.00	-9	3.40	45	-4	635
40012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-9.00	-9	1.55	45	-4	1306
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	-9.00	-9	3.21	46	-4	-9
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	-9.00	-9	2.14	46	-4	-9
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	-9.00	-9	4.12	46	-4	-9
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	-9.00	-9	2.07	46	-4	-9
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	-9.00	-9	3.40	46	-4	-9
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-9.00	-9	3.58	46	-4	-9
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	-9.00	-9	4.34	46	-4	-9
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	-9.00	-9	4.35	46	-4	-9
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-9.00	-9	6.41	46	-4	-9
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-9.00	-9	5.20	46	-4	-9
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-9.00	-9	6.92	46	-4	-9
47007.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	-9.00	-9	3.06	46	-4	-9
47008.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	-9.00	-9	3.96	46	-4	-9
47009.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	-9.00	-9	4.86	46	-4	-9
47010.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	-9.00	-9	2.93	46	-4	-9
48001.0	MARINA DEL REY- A1 (X1)	1686	2/5/97	48.0	46.03	-4	1.76	48	-4	-9
48002.0	MARINA DEL REY- A2 (X2)	1687	2/5/97	48.0	28.87	-4	1.42	48	-4	-9

Grain Size and Total Organic Carbon Analyses

STANUM	STATION	IDORG	DATE	LEG	CLAY	EXPANDEDQC	TOC	TOCBATCH	TOCDATAQC	DOC
48003.0	MARINA DEL REY- B1 (X1)	1688	2/5/97	48.0	33.54	-4	2.26	48	-4	-9
48004.0	MARINA DEL REY- B2 (X2)	1689	2/5/97	48.0	21.69	-4	1.48	48	-4	-9
48005.0	MARINA DEL REY- C1 (X1)	1690	2/5/97	48.0	14.95	-4	2.93	48	-4	-9
48006.0	SHORELINE MARINA- A1 (X1)	1691	2/4/97	48.0	39.59	-4	2.56	48	-4	-9
48007.0	SHORELINE MARINA- B1 (X1)	1692	2/4/97	48.0	22.39	-4	2.86	48	-4	-9
48008.0	SHORELINE MARINA- C1 (X1)	1693	2/4/97	48.0	14.16	-4	0.96	48	-4	-9
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	21.74	-4	0.42	48	-4	-9
40018.3	LONG BEACH OUTER HARBOR- 18	1695	2/4/97	48.0	27.49	-4	1.20	48	-4	-9
40020.2	LONG BEACH OUTER HARBOR- 20	1696	2/4/97	48.0	19.12	-4	1.01	48	-4	-9
48010.0	TURNING BASIN	1697	2/4/97	48.0	11.68	-4	0.31	48	-4	-9
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	12.48	-4	0.38	48	-4	-9
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	23.40	-4	0.67	48	-4	-9
48011.0	KING HARBOR	1700	2/5/97	48.0	14.59	-4	1.05	48	-4	-9
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	28.43	-4	1.70	48	-4	-9
48012.0	CHANNEL IS. HARBOR- FRONT	1702	2/3/97	48.0	16.88	-4	0.81	48	-4	-9
48013.0	WEST MUGU LAGOON- A1 (X2)	1703	2/6/97	48.0	11.80	-4	0.65	48	-4	-9
48014.0	WEST MUGU LAGOON- A2 (X3)	1704	2/6/97	48.0	13.53	-4	0.91	48	-4	-9
48015.0	CENTRAL MUGU LAGOON- B1 (X4)	1705	2/6/97	48.0	18.83	-4	0.56	48	-4	-9
48016.0	CENTRAL MUGU LAGOON- B2 (X3)	1706	2/6/97	48.0	30.08	-4	1.16	48	-4	-9
48017.0	EAST MUGU LAGOON- C1 (X1)	1707	2/6/97	48.0	44.74	-4	1.74	48	-4	-9
48018.0	EAST MUGU LAGOON- C2 (X2)	1708	2/6/97	48.0	10.99	-4	1.10	48	-4	-9
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	-9.00	-9	-9.00	-9	-9	-9
40018.3	LONG BEACH OUTER HARBOR- 18	1770	5/13/97	53.0	-9.00	-9	-9.00	-9	-9	-9
40020.2	LONG BEACH OUTER HARBOR- 20	1771	5/13/97	53.0	-9.00	-9	-9.00	-9	-9	-9
48010.0	TURNING BASIN	1772	5/13/97	53.0	-9.00	-9	-9.00	-9	-9	-9
40015.1	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	-9.00	-9	-9.00	-9	-9	-9
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	-9.00	-9	-9.00	-9	-9	-9
48011.0	KING HARBOR	1775	5/12/97	53.0	-9.00	-9	-9.00	-9	-9	-9
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	-9.00	-9	-9.00	-9	-9	-9
48012.0	CHANNEL IS. HARBOR- FRONT	1777	5/12/97	53.0	-9.00	-9	-9.00	-9	-9	-9
49001.0	CABRILLO BEACH PIER- WEST	1778	5/13/97	53.0	13.62	-4	2.34	53	-4	-9
49002.0	CABRILLO BEACH PIER- CENTRAL	1779	5/13/97	53.0	30.08	-4	1.36	53	-4	-9
49003.0	CABRILLO BEACH PIER- EAST	1780	5/13/97	53.0	49.46	-4	1.35	53	-4	-9
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	5.96	-4	26.83	54	-4	1658
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	23.76	-4	2.88	54	-4	1032

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SEDIMENT CHEMISTRY, TOXICITY, AND BENTHIC COMMUNITY CONDITIONS IN SELECTED WATER BODIES OF THE LOS ANGELES REGION

APPENDIX E

California State Water Resources Control Board
Division of Water Quality
Bay Protection and Toxic Cleanup Program

California Regional Water Quality Control Board
Los Angeles Region

California Department of Fish and Game
Marine Pollution Studies Laboratory

University of California, Santa Cruz
Institute of Marine Sciences

San Jose State University
Moss Landing Marine Laboratories

August 1998

COV0082

Appendix E

Toxicity Test Data

Section 1

Rhepoxynius abronius Survival in Sediment

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	TYPE	METADATA	CTRL	RA_MN	RA_SD	RA_SG	RA_TOX	RA_OTNH3	RA_OUNH3
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-9	-9	-9	65.00	28.90	*	NT	-9.000	0.002
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-9	-9	-9	51.00	17.80	*	T	-9.000	0.002
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9	-9	-9	71.00	13.40	*	NT	-9.000	0.002
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9	-9	-9	75.00	13.90	*	NT	-9.000	0.002
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-9	-9	-9	78.00	13.00	*	NT	-9.000	0.002
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9	-9	-9	74.00	10.80	*	NT	-9.000	0.002
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9	-9	-9	64.00	16.40	*	NT	-9.000	0.026
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9	-9	-9	63.00	29.90	*	NT	-9.000	0.006
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9	-9	-9	81.00	9.60	*	NT	-9.000	0.005
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9	-9	-9	78.00	6.70	*	NT	-9.000	0.010
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-9	-9	-9	80.00	7.90	*	NT	-9.000	0.009
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9	-9	-9	81.00	9.60	*	NT	-9.000	0.006
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9	-9	-9	74.00	11.90	*	NT	-9.000	0.011
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9	-9	-9	73.00	7.60	*	NT	-9.000	0.032
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9	-9	-9	79.00	15.60	ns	NT	-9.000	0.007
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-9	-9	-9	58.00	17.20	*	T	-9.000	0.059
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-9	-9	-9	59.00	16.40	*	T	-9.000	0.441
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9	-9	-9	67.00	11.50	*	NT	-9.000	0.044
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9	-9	-9	86.00	4.20	*	NT	-9.000	0.007
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9	-9	-9	85.00	9.40	ns	NT	-9.000	0.013
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9	-9	-9	93.00	2.70	ns	NT	-9.000	0.014
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-9	-9	-9	71.00	20.40	*	NT	-9.000	0.033
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9	-9	-9	70.00	21.80	*	NT	-9.000	0.012
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9	-9	-9	65.00	17.30	*	NT	-9.000	0.009
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-9	-9	-9	80.00	16.20	ns	NT	-9.000	0.012
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9	-9	-9	78.00	11.50	*	NT	-9.000	0.004
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-9	-9	-9	76.00	8.90	*	NT	-9.000	0.008
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-9	-9	-9	88.00	5.70	ns	NT	-9.000	0.004
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9	-9	-9	81.00	2.20	*	NT	-9.000	0.004
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-9	-9	-9	87.00	5.70	ns	NT	-9.000	0.005
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-9	-9	-9	92.00	7.60	ns	NT	-9.000	0.004
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-9	-9	-9	88.00	9.10	ns	NT	-9.000	0.006
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9	-9	-9	91.00	9.60	ns	NT	-9.000	0.006
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9	-9	-9	77.00	14.00	*	NT	-9.000	0.018
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-9	-9	-9	78.00	13.50	*	NT	-9.000	0.003
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9	-9	-9	69.00	16.40	*	NT	-9.000	0.006
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-9	-9	-9	83.00	5.00	*	NT	-9.000	0.009
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9	-9	-9	83.00	7.60	*	NT	-9.000	0.004

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	TYPE	METADATA	CTRL	RA_MN	RA_SD	RA_SG	RA_TOX	RA_OTNH3	RA_OUNH3
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9	-9	-9	92.00	7.60	ns	NT	-9.000	0.008
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9	-9	-9	72.00	5.70	*	NT	-9.000	0.006
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9	-9	-9	88.00	8.40	ns	NT	-9.000	0.007
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9	-9	-9	80.00	12.70	*	NT	-9.000	0.003
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-9	-9	-9	83.00	18.90	ns	NT	-9.000	0.092
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-9	-9	-9	73.00	4.50	*	NT	-9.000	0.006
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9	-9	-9	54.00	21.00	*	T	-9.000	0.010
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-9	-9	-9	90.00	3.50	ns	NT	-9.000	0.084
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-9	-9	-9	94.00	6.50	ns	NT	-9.000	0.050
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-9	-9	-9	95.00	6.10	ns	NT	-9.000	0.075
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-9	-9	-9	94.00	5.50	ns	NT	-9.000	0.005
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-9	-9	-9	94.00	5.50	ns	NT	-9.000	0.015
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-9	-9	-9	86.00	15.20	ns	NT	-9.000	0.031
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9	-9	-9	82.00	10.40	*	NT	-9.000	0.016
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-9	-9	-9	88.00	11.50	ns	NT	-9.000	0.026
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9	-9	-9	78.00	14.40	*	NT	-9.000	0.026
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-9	-9	-9	85.00	6.90	ns	NT	-9.000	0.015
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-9	-9	-9	84.00	5.30	ns	NT	-9.000	0.014
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-9	-9	-9	82.00	2.50	*	NT	-9.000	0.024
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-9	-9	-9	83.00	13.00	ns	NT	-9.000	0.028
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-9	-9	-9	84.00	6.50	*	NT	-9.000	0.026
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9	-9	-9	81.00	10.80	*	NT	-9.000	0.045
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9	-9	-9	78.00	10.40	*	NT	-9.000	0.025
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-9	-9	-9	80.00	14.60	*	NT	-9.000	0.036
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-9	-9	-9	64.00	36.30	ns	NT	-9.000	0.138
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9	-9	-9	76.00	11.40	*	NT	-9.000	0.017
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9	-9	-9	82.00	9.70	*	NT	-9.000	0.012
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-9	-9	-9	88.00	8.40	ns	NT	-9.000	0.018
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9	-9	-9	67.00	14.40	*	T	-9.000	0.002
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9	-9	-9	79.00	11.40	*	NT	-9.000	0.024
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-9	-9	-9	93.00	4.50	ns	NT	-9.000	0.013
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9	-9	-9	83.00	7.60	*	NT	-9.000	0.024
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9	-9	-9	92.00	11.00	ns	NT	-9.000	0.015
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9	-9	-9	84.00	9.60	*	NT	-9.000	0.005
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9	-9	-9	86.00	7.40	ns	NT	-9.000	0.031
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-9	-9	-9	93.00	7.60	ns	NT	-9.000	0.017
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-9	-9	-9	96.00	2.20	ns	NT	-9.000	0.025

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	TYPE	METADATA	CTRL	RA_MN	RA_SD	RA_SG	RA_TOX	RA_OTNH3	RA_OUNH3
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9	-9	-9	75.00	11.70	*	NT	-9.000	0.019
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9	-9	-9	77.00	16.00	*	NT	-9.000	0.028
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-9	-9	-9	71.00	12.90	*	NT	-9.000	0.017
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-9	-9	-9	92.00	2.70	ns	NT	-9.000	0.074
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-9	-9	-9	92.00	7.60	ns	NT	-9.000	0.014
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9	-9	-9	81.00	7.40	*	NT	-9.000	0.012
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9	-9	-9	81.00	18.20	ns	NT	-9.000	0.109
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9	-9	-9	79.00	12.90	*	NT	-9.000	0.101
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-9	-9	-9	91.00	10.20	ns	NT	-9.000	0.086
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-9	-9	-9	89.00	14.30	ns	NT	-9.000	0.253
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9	-9	-9	89.00	5.50	ns	NT	-9.000	0.005
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9	-9	-9	84.00	5.50	*	NT	-9.000	0.003
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9	-9	-9	65.00	19.40	*	T	-9.000	0.041
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9	-9	-9	70.00	15.40	*	T	-9.000	0.039
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9	-9	-9	73.00	11.50	*	T	-9.000	0.031
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9	-9	-9	53.00	11.00	*	T	-9.000	0.011
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9	-9	-9	-9.00	-9.00	-9	-9	-9.000	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9	-9	-9	-9.00	-9.00	-9	-9	-9.000	-9.000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9	-9	-9	-9.00	-9.00	-9	-9	-9.000	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9	-9	-9	28.00	9.10	*	T	-9.000	0.014
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9	-9	-9	67.00	8.40	*	T	-9.000	0.003
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9	-9	-9	48.00	13.50	*	T	-9.000	0.010
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9	-9	-9	49.00	12.40	*	T	-9.000	0.424
44026.0	SIM'S POND	626	1/14/93	11.0	-9	-9	-9	-9.00	-9.00	-9	-9	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9	-9	-9	16.00	11.90	*	T	-9.000	0.280
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9	-9	-9	-9.00	-9.00	-9	-9	-9.000	-9.000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9	-9	-9	68.00	16.00	*	T	-9.000	0.126
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9	-9	-9	64.00	9.60	*	T	-9.000	0.105
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9	-9	-9	35.00	15.00	*	T	-9.000	0.129
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9	-9	-9	14.00	17.80	*	T	-9.000	0.996
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9	-9	-9	-9.00	-9.00	-9	-9	-9.000	-9.000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9	-9	-9	-9.00	-9.00	-9	-9	-9.000	-9.000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	-9	-9	CD	68.00	18.20	*	T	-9.000	0.040
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	-9	-9	CD	60.00	18.40	*	T	-9.000	0.014
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	-9	-9	CD	50.00	19.00	*	T	-9.000	0.057
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	-9	-9	CD	75.00	21.50	ns	NT	-9.000	0.031
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	-9	-9	CD	63.00	28.00	*	T	-9.000	0.019

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	TYPE	METADATA	CTRL	RA_MN	RA_SD	RA_SG	RA_TOX	RA_OTNH3	RA_OUNH3
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	-9	-9	-9	58.00	11.00	*	T	-9.000	0.025
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	-9	-9	-9	54.00	26.30	*	T	-9.000	0.015
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	-9	-9	-9	34.00	21.00	*	T	-9.000	0.012
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	-9	-9	-9	91.00	4.00	ns	NT	-9.000	0.160
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	-9	-9	-9	91.00	12.00	ns	NT	-9.000	0.333
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	-9	-9	-9	93.00	8.00	ns	NT	-9.000	0.046
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	-9	-9	-9	97.00	4.00	ns	NT	-9.000	0.110
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	-9	-9	-9	86.00	10.00	ns	NT	-9.000	0.144
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	-9	-9	-9	91.00	7.00	ns	NT	-9.000	0.064
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	-9	-9	-9	93.00	7.00	ns	NT	-9.000	0.024
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-9	-9	-9	91.00	5.00	ns	NT	-9.000	0.013
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-9	-9	-9	89.00	4.00	*	NT	-9.000	0.030
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-9	-9	-9	97.00	4.00	ns	NT	-9.000	0.043
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-9	-9	-9	91.00	7.00	ns	NT	-9.000	0.070
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-9	-9	-9	89.00	10.00	ns	NT	-9.000	0.033
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-9	-9	-9	91.00	11.00	ns	NT	-9.000	0.057
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-9	-9	-9	68.00	10.00	*	NT	-9.000	0.049
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-9	-9	-9	90.00	7.00	ns	NT	-9.000	0.061
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-9	-9	-9	69.00	10.00	*	NT	-9.000	0.033
	CONTROL-CH3			25.0	CH3	toxmeta.wpd	-9	95.00	6.12	-9	-9	0.140	-8.000
	CONTROL-CH2			25.0	CH2	toxmeta.wpd	-9	97.00	2.74	-9	-9	0.190	0.006
	CONTROL-CH1			25.0	CH1	toxmeta.wpd	-9	97.00	6.71	-9	-9	0.160	0.004
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	SAM	toxmeta.wpd	-9	70.00	11.73	*	T	0.220	0.006
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	FR	toxmeta.wpd	-9	87.00	8.37	*	NT	0.510	0.007
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	FR	toxmeta.wpd	-9	85.00	14.58	ns	NT	0.330	0.008
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	SAM	toxmeta.wpd	-9	56.00	15.97	*	T	0.120	0.003
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	FR	toxmeta.wpd	-9	70.00	10.61	*	T	0.110	0.002
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	FR	toxmeta.wpd	-9	72.00	13.04	*	T	0.150	0.004
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	SAM	toxmeta.wpd	-9	39.00	15.17	*	T	0.380	0.012
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	FR	toxmeta.wpd	-9	51.00	15.17	*	T	0.390	0.013
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	FR	toxmeta.wpd	-9	66.00	4.18	*	T	0.260	0.010
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	SAM	toxmeta.wpd	-9	62.00	21.68	*	T	0.750	0.012
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	FR	toxmeta.wpd	-9	65.00	9.35	*	T	0.900	0.056
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	FR	toxmeta.wpd	-9	80.00	11.18	*	NT	0.950	0.023
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	SAM	toxmeta.wpd	-9	85.00	10.00	*	NT	0.000	0.000
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	FR	toxmeta.wpd	-9	91.00	6.52	ns	NT	0.180	0.001
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	FR	toxmeta.wpd	-9	82.00	12.55	*	NT	0.360	0.006

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STANUM	STATION	IDORG	DATE	LEG	TYPE	METADATA	CTRL	RA_MN	RA_SD	RA_SG	RA_TOX	RA_OTNH3	RA_OUNH3
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	SAM	toxmeta.wpd	-9	83.00	8.37	*	NT	1.100	0.024
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	FR	toxmeta.wpd	-9	76.00	9.62	*	NT	3.400	0.088
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	FR	toxmeta.wpd	-9	71.00	11.40	*	T	4.200	0.086
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	SAM	toxmeta.wpd	-9	71.00	10.84	*	T	0.380	0.010
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	FR	toxmeta.wpd	-9	47.00	17.89	*	T	0.350	0.007
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	FR	toxmeta.wpd	-9	61.00	8.22	*	T	0.330	0.008
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	SAM	toxmeta.wpd	-9	69.00	12.45	*	T	0.360	0.009
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	FR	toxmeta.wpd	-9	72.00	7.58	*	T	0.360	0.007
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	FR	toxmeta.wpd	-9	58.00	15.25	*	T	0.480	0.054
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	SAM	toxmeta.wpd	-9	32.00	27.97	*	T	0.500	0.009
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	FR	toxmeta.wpd	-9	59.00	22.75	*	T	0.530	0.017
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	FR	toxmeta.wpd	-9	73.00	12.04	*	NT	0.470	0.014
	CONTROL-CH1			26.0	CH1	toxmeta.wpd	-9	92.50	5.00	-9	-9	1.200	0.016
	CONTROL-CH3			26.0	CH3	toxmeta.wpd	-9	96.00	4.18	-9	-9	1.200	0.015
	CONTROL-CH2			26.0	CH2	toxmeta.wpd	-9	97.00	2.74	-9	-9	1.000	0.015
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	SAM	toxmeta.wpd	-9	80.00	16.96	*	NT	0.390	0.006
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	FR	toxmeta.wpd	-9	48.00	11.51	*	T	0.490	0.011
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	FR	toxmeta.wpd	-9	46.00	16.36	*	T	0.320	0.005
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	SAM	toxmeta.wpd	-9	78.00	13.04	*	NT	0.330	0.003
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	FR	toxmeta.wpd	-9	63.00	14.83	*	T	0.990	0.015
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	FR	toxmeta.wpd	-9	72.00	14.83	*	NT	1.400	0.022
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	SAM	toxmeta.wpd	-9	60.00	14.14	*	T	1.600	0.027
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	FR	toxmeta.wpd	-9	64.00	15.57	*	T	2.200	0.036
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	FR	toxmeta.wpd	-9	48.00	18.91	*	T	2.300	0.029
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	SAM	toxmeta.wpd	-9	66.00	14.75	*	NT	9.600	0.185
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	FR	toxmeta.wpd	-9	62.00	18.23	*	T	7.300	0.128
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	FR	toxmeta.wpd	-9	62.00	17.54	*	T	5.300	0.091
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	SAM	toxmeta.wpd	-9	92.00	14.40	*	T	0.430	0.006
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	FR	toxmeta.wpd	-9	42.00	16.43	*	T	2.700	0.040
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	FR	toxmeta.wpd	-9	35.00	18.03	*	T	0.340	0.004
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	SAM	toxmeta.wpd	-9	54.00	14.75	*	T	8.500	0.187
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	FR	toxmeta.wpd	-9	60.00	16.83	*	T	8.300	0.261
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	FR	toxmeta.wpd	-9	42.00	11.51	*	T	7.800	0.281
	CONTROL-CH1			30.0	CH1	toxmeta.wpd	-9	96.00	4.18	-9	-9	-8.000	-8.000
	CONTROL-CH2			30.0	CH2	toxmeta.wpd	-9	95.00	6.12	-9	-9	-8.000	-8.000
	CONTROL-CH3			30.0	CH3	toxmeta.wpd	-9	97.00	4.47	-9	-9	-8.000	-8.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	SAM	toxmeta.wpd	-9	86.00	12.94	ns	NT	1.300	0.031

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	TYPE	METADATA	CTRL	RA_MN	RA_SD	RA_SG	RA_TOX	RA_OTNH3	RA_OUNH3
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	FR	toxmeta.wpd	-9	86.00	6.52	*	NT	0.270	0.007
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	FR	toxmeta.wpd	-9	91.00	11.94	ns	NT	0.290	0.012
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	SAM	toxmeta.wpd	-9	88.00	7.58	*	NT	0.300	0.008
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	FR	toxmeta.wpd	-9	89.00	5.48	*	NT	0.300	0.009
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	FR	toxmeta.wpd	-9	81.00	12.45	*	NT	0.290	0.008
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	SAM	toxmeta.wpd	-9	77.00	13.51	*	NT	0.300	0.008
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	FR	toxmeta.wpd	-9	86.00	6.52	*	NT	0.350	0.012
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	FR	toxmeta.wpd	-9	82.00	2.74	*	NT	0.350	0.009
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	SAM	toxmeta.wpd	-9	80.00	11.73	*	NT	4.900	0.197
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	FR	toxmeta.wpd	-9	78.00	10.95	*	NT	3.300	0.102
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	FR	toxmeta.wpd	-9	82.00	5.70	*	NT	3.100	0.109
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	SAM	toxmeta.wpd	-9	72.00	13.51	*	NT	2.500	0.117
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	FR	toxmeta.wpd	-9	75.00	21.79	ns	NT	4.600	0.169
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	FR	toxmeta.wpd	-9	62.00	15.65	*	T	1.100	0.063
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	SAM	toxmeta.wpd	-9	51.00	5.48	*	T	2.700	0.089
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	FR	toxmeta.wpd	-9	69.00	6.52	*	T	3.700	0.097
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	FR	toxmeta.wpd	-9	78.00	9.08	*	NT	4.900	0.129
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	SAM	toxmeta.wpd	-9	61.00	14.32	*	T	5.500	0.185
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	FR	toxmeta.wpd	-9	61.00	18.17	*	T	7.500	0.202
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	FR	toxmeta.wpd	-9	47.00	13.04	*	T	6.700	0.197
	CONTROL-CH2			32.0	CH2	toxmeta.wpd	-9	99.00	2.24	-9	-9	0.120	0.002
	CONTROL-CH3			32.0	CH3	toxmeta.wpd	-9	100.00	0.00	-9	-9	0.110	0.003
	CONTROL-CH1			32.0	CH1	toxmeta.wpd	-9	96.00	8.94	-9	-9	-8.000	-8.000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	SAM	toxmeta.wpd	-9	92.00	2.74	ns	NT	0.250	0.009
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	SAM	toxmeta.wpd	-9	82.50	10.41	*	NT	0.330	0.012
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	SAM	toxmeta.wpd	-9	91.00	5.48	ns	NT	0.190	0.006
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	SAM	toxmeta.wpd	-9	90.00	10.00	ns	NT	0.260	0.007
	CONTROL-C1			45.0	C1	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
	CONTROL-C2			45.0	C2	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
44014.0	MARINA DEL REY	1630	6/19/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	TYPE	METADATA	CTRL	RA_MN	RA_SD	RA_SG	RA_TOX	RA_OTNH3	RA_OUNH3
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
44012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
	CONTROL-C1			46.0	C1	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47006.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47006.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47006.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
47007.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	SAM	toxdata6.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
	CONTROL-C1			48.0	C1	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48001.0	MARINA DEL REY - A1 (X1)	1686	2/5/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48002.0	MARINA DEL REY - A2 (X2)	1687	2/5/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48003.0	MARINA DEL REY - B1 (X1)	1688	2/5/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48004.0	MARINA DEL REY - B2 (X1)	1689	2/5/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48005.0	MARINA DEL REY - C1 (X1)	1690	2/5/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48006.0	SHORELINE MARINA A1 (X1)	1691	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48007.0	SHORELINE MARINA B1 (X1)	1692	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48008.0	SHORELINE MARINA C1 (X1)	1693	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40018.3	LONG BEACH OUTER HARBOR - 18	1695	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40020.2	LONG BEACH OUTER HARBOR - 20	1696	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48010.0	TURNING BASIN	1697	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48011.0	KING HARBOR	1700	2/5/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48012.0	CHANNEL IS. HARBOR - FRONT	1702	2/3/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48013.0	WEST MUGU LAGOON - A1 (X2)	1703	2/6/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	TYPE	METADATA	CTRL	RA_MN	RA_SD	RA_SG	RA_TOX	RA_OTNH3	RA_OUNH3
48014.0	WEST MUGU LAGOON - A2 (X3)	1704	2/6/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48015.0	CENTRAL MUGU LAGOON - B1 (X4)	1705	2/6/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48016.0	CENTRAL MUGU LAGOON - B2 (X3)	1706	2/6/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48017.0	EAST MUGU LAGOON - C1 (X1)	1707	2/6/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48018.0	EAST MUGU LAGOON - C2 (X2)	1708	2/6/97	48.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
	CONTROL-C1			53.0	C1	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40018.0	LONG BEACH OUTER HARBOR 18	1770	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40020.0	LONG BEACH OUTER HARBOR 20	1771	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48010.0	TURNING BASIN	1772	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40015.0	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48011.0	KING HARBOR	1775	5/12/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
40023.0	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
48012.0	CHANNEL IS. HARBOR - FRONT	1777	5/12/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
49001.0	CABRILLO BEACH PIER - WEST	1778	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
49002.0	CABRILLO BEACH PIER - CENTRAL	1779	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
49003.0	CABRILLO BEACH PIER - EAST	1780	5/13/97	53.0	SAM	toxdata7.wpd	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
	CONTROL-C1			54.0	C1	toxmeta8	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	SAM	toxmeta8	C1	-9.00	-9.00	-9	-9	-9.000	-9.000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	SAM	toxmeta8	C1	-9.00	-9.00	-9	-9	-9.000	-9.000

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STANUM	STATION	IDORG	DATE	LEG	RA_OH2S	RA_ITNH3	RA_IUNH3	RA_IH2S	RA_BATCH	RAQC
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9

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STANUM	STATION	IDORG	DATE	LEG	RA_OH2S	RA_ITNH3	RA_IUNH3	RA_IH2S	RA_BATCH	RAQC
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9

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STANUM	STATION	IDORG	DATE	LEG	RA_OH2S	RA_ITNH3	RA_IUNH3	RA_IH2S	RA_BATCH	RAQC
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44026.0	SIM'S POND	626	1/14/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9

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STANUM	STATION	IDORG	DATE	LEG	RA_OH2S	RA_ITNH3	RA_IUNH3	RA_IH2S	RA_BATCH	RAQC
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	0.0002	-9.000	-9.000	-9.0000	-9	-9
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	0.0005	-9.000	-9.000	-9.0000	-9	-9
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	0.0005	-9.000	-9.000	-9.0000	-9	-9
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	0.0003	-9.000	-9.000	-9.0000	-9	-9
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	0.0003	-9.000	-9.000	-9.0000	-9	-9
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	0.0005	-9.000	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-8.0000	-9.000	-9.000	-9.0000	-9	-9
	CONTROL-CH3			25.0	0.0049	-9.000	-9.000	-9.0000	B025RASA01	-3
	CONTROL-CH2			25.0	0.0082	-9.000	-9.000	-9.0000	B025RASA01	-3
	CONTROL-CH1			25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	0.1008	-9.000	-9.000	-9.0000	B025RASA01	-3
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	0.0209	-9.000	-9.000	-9.0000	B025RASA01	-3
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	0.0263	-9.000	-9.000	-9.0000	B025RASA01	-3
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	0.0373	-9.000	-9.000	-9.0000	B025RASA01	-3
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	0.0363	-9.000	-9.000	-9.0000	B025RASA01	-3
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	0.0118	-9.000	-9.000	-9.0000	B025RASA01	-3
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	0.0056	-9.000	-9.000	-9.0000	B025RASA01	-3
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	0.0996	-9.000	-9.000	-9.0000	B025RASA01	-3
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	0.0465	-9.000	-9.000	-9.0000	B025RASA01	-3
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	0.0269	-9.000	-9.000	-9.0000	B025RASA01	-3
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3

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STANUM	STATION	IDORG	DATE	LEG	RA_OH2S	RA_ITNH3	RA_IUNH3	RA_IH2S	RA_BATCH	RAQC
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	0.0141	-9.000	-9.000	-9.0000	B025RASA01	-3
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	0.0239	-9.000	-9.000	-9.0000	B025RASA01	-3
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	0.0288	-9.000	-9.000	-9.0000	B025RASA01	-3
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	0.0008	-9.000	-9.000	-9.0000	B025RASA01	-3
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-8.0000	-9.000	-9.000	-9.0000	B025RASA01	-3
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	0.0197	-9.000	-9.000	-9.0000	B025RASA01	-3
	CONTROL-CH1			26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
	CONTROL-CH3			26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
	CONTROL-CH2			26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	0.0048	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	0.0022	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	-8.0000	-9.000	-9.000	-9.0000	B026RASA01	-3
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	0.0003	-9.000	-9.000	-9.0000	B026RASA01	-3
	CONTROL-CH1			30.0	0.0011	-9.000	-9.000	-9.0000	B030RASA01	-3
	CONTROL-CH2			30.0	0.0014	-9.000	-9.000	-9.0000	B030RASA01	-3
	CONTROL-CH3			30.0	0.0024	-9.000	-9.000	-9.0000	B030RASA01	-3
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	0.0024	2.410	0.061	0.0065	B030RASA01	-3

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	RA_OH2S	RA_ITNH3	RA_IUNH3	RA_IH2S	RA_BATCH	RAQC
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	0.0011	-9.000	-9.000	-9.0000	B030RASA01	-3
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	0.0041	-9.000	-9.000	-9.0000	B030RASA01	-3
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	0.0032	1.970	0.015	0.0251	B030RASA01	-3
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	0.0039	-9.000	-9.000	-9.0000	B030RASA01	-3
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	0.0017	-9.000	-9.000	-9.0000	B030RASA01	-3
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	0.0013	4.600	0.015	0.0431	B030RASA01	-3
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	0.0013	-9.000	-9.000	-9.0000	B030RASA01	-3
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	0.0005	-9.000	-9.000	-9.0000	B030RASA01	-3
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	0.0014	14.000	0.163	0.0152	B030RASA01	-3
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	0.0030	-9.000	-9.000	-9.0000	B030RASA01	-3
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	0.0020	-9.000	-9.000	-9.0000	B030RASA01	-3
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	0.0018	20.400	0.190	0.0397	B030RASA01	-3
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	0.0038	-9.000	-9.000	-9.0000	B030RASA01	-3
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	0.0012	-9.000	-9.000	-9.0000	B030RASA01	-3
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	0.0008	9.200	0.173	0.0047	B030RASA01	-3
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	0.0024	-9.000	-9.000	-9.0000	B030RASA01	-3
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	0.0016	-9.000	-9.000	-9.0000	B030RASA01	-3
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	0.0055	14.000	0.119	0.0175	B030RASA01	-3
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	0.0045	-9.000	-9.000	-9.0000	B030RASA01	-3
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	0.0052	-9.000	-9.000	-9.0000	B030RASA01	-3
	CONTROL-CH2			32.0	0.0027	-8.000	-8.000	-8.0000	B032RASA01	-3
	CONTROL-CH3			32.0	0.0037	-8.000	-8.000	-8.0000	B032RASA01	-3
	CONTROL-CH1			32.0	0.0042	-8.000	-8.000	-8.0000	B032RASA01	-3
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	0.0032	1.400	0.005	0.0187	B032RASA01	-3
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	0.0029	4.900	0.025	0.0049	B032RASA01	-3
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	0.0025	1.600	0.005	0.0114	B032RASA01	-3
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	0.0024	2.700	0.008	0.0270	B032RASA01	-3
	CONTROL-C1			45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
	CONTROL-C2			45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	RA_OH2S	RA_ITNH3	RA_IUNH3	RA_IH2S	RA_BATCH	RAQC
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
44012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
	CONTROL-C1			46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47006.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47006.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47006.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
47007.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
	CONTROL-C1			48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48001.0	MARINA DEL REY - A1 (X1)	1686	2/5/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48002.0	MARINA DEL REY - A2 (X2)	1687	2/5/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48003.0	MARINA DEL REY - B1 (X1)	1688	2/5/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48004.0	MARINA DEL REY - B2 (X1)	1689	2/5/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48005.0	MARINA DEL REY - C1 (X1)	1690	2/5/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48006.0	SHORELINE MARINA A1 (X1)	1691	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48007.0	SHORELINE MARINA B1 (X1)	1692	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48008.0	SHORELINE MARINA C1 (X1)	1693	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HARBOR - 18	1695	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40020.2	LONG BEACH OUTER HARBOR - 20	1696	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48010.0	TURNING BASIN	1697	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48011.0	KING HARBOR	1700	2/5/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48012.0	CHANNEL IS. HARBOR - FRONT	1702	2/3/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48013.0	WEST MUGU LAGOON - A1 (X2)	1703	2/6/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9

Rhepoxynius abronius Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	RA_OH2S	RA_ITNH3	RA_IUNH3	RA_IH2S	RA_BATCH	RAQC
48014.0	WEST MUGU LAGOON - A2 (X3)	1704	2/6/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48015.0	CENTRAL MUGU LAGOON - B1 (X4)	1705	2/6/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48016.0	CENTRAL MUGU LAGOON - B2 (X3)	1706	2/6/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48017.0	EAST MUGU LAGOON - C1 (X1)	1707	2/6/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48018.0	EAST MUGU LAGOON - C2 (X2)	1708	2/6/97	48.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
	CONTROL-C1			53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40018.0	LONG BEACH OUTER HARBOR 18	1770	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40020.0	LONG BEACH OUTER HARBOR 20	1771	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48010.0	TURNING BASIN	1772	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40015.0	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48011.0	KING HARBOR	1775	5/12/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
40023.0	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
48012.0	CHANNEL IS. HARBOR - FRONT	1777	5/12/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
49001.0	CABRILLO BEACH PIER - WEST	1778	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
49002.0	CABRILLO BEACH PIER - CENTRAL	1779	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
49003.0	CABRILLO BEACH PIER - EAST	1780	5/13/97	53.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
	CONTROL-C1			54.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	-9.0000	-9.000	-9.000	-9.0000	-9	-9

Section 2

Eohaustorius estuarius Survival in Sediment

Eohaustorius estuarius Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	EE_MN	EE_SD	EE_SG	EE_TOX	EE_BATCH	EEQC	EE_OTNH3	EE_OUNH3	EE_OH2S
44016.0	MUGU LAGOON	616	1/12/93	11.0	66.00	11.40	*	T	-9	-9	-9.000	0.004	-9.0000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	5.00	8.70	*	T	-9	-9	-9.000	0.271	-9.0000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	87.00	9.10	*	NT	-9	-9	-9.000	0.126	-9.0000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44026.0	SIM'S POND	626	1/14/93	11.0	91.00	12.40	ns	NT	-9	-9	-9.000	0.068	-9.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	71.00	6.50	*	T	-9	-9	-9.000	0.005	-9.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	97.00	2.70	*	NT	-9	-9	-9.000	0.006	-9.0000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	99.00	2.20	ns	NT	-9	-9	-9.000	0.002	-9.0000
	CONTROL-C1			45.0	99.00	2.00	-9	-9	145tee.xls	-4	0.350	0.011	-9.0000
	CONTROL-C2			45.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	95.00	6.00	ns	NT	145tee.xls	-4	1.400	0.025	-9.0000
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	98.00	3.00	ns	NT	145tee.xls	-4	0.430	0.010	-9.0000
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	92.00	6.00	*	NT	145tee.xls	-3	2.000	0.077	-9.0000
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	98.00	4.00	ns	NT	145tee.xls	-4	3.200	0.147	-9.0000
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	99.00	2.00	ns	NT	145tee.xls	-4	3.800	0.183	-9.0000
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	81.00	9.00	*	NT	145tee.xls	-4	0.570	0.016	-9.0000
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	99.00	2.00	ns	NT	145tee.xls	-4	7.400	0.462	-9.0000
44014.0	MARINA DEL REY	1630	6/19/96	45.0	92.00	13.00	ns	NT	145tee.xls	-4	0.650	0.015	-9.0000
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	90.00	8.00	*	NT	145tee.xls	-3	2.700	0.418	-9.0000
44012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	99.00	2.00	ns	NT	145tee.xls	-3	2.400	0.090	-9.0000
	CONTROL-C1			46.0	99.00	2.00	-9	-9	146tee.xls	-4	0.660	0.019	-9.0000
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	61.00	19.00	*	T	146tee.xls	-4	2.700	0.047	-9.0000
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	64.00	13.00	*	T	146tee.xls	-4	7.900	0.311	-9.0000
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	54.00	7.00	*	T	146tee.xls	-4	2.600	0.506	-9.0000
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	86.00	4.00	*	NT	146tee.xls	-4	3.100	0.109	-9.0000
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	70.00	7.00	*	T	146tee.xls	-4	1.800	0.344	-9.0000
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	8.00	12.00	*	T	146tee.xls	-4	19.000	0.749	-9.0000
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	40.00	27.00	*	T	146tee.xls	-4	7.400	0.319	-9.0000
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	33.00	23.00	*	T	146tee.xls	-4	24.000	1.128	-9.0000
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	0.00	0.00	*	T	146tee.xls	-4	16.000	0.516	-9.0000

Eohaustorius estuarius Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	EE_MN	EE_SD	EE_SG	EE_TOX	EE_BATCH	EEQC	EE_OTNH3	EE_OUNH3	EE_OH2S
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	18.00	40.00	*	T	146tee.xls	-4	54.000	2.274	-9.0000
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	13.00	29.00	*	T	146tee.xls	-3	81.000	2.794	-9.0000
47006.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	65.00	15.00	*	T	146tee.xls	-4	6.600	0.228	-9.0000
47006.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	52.00	21.00	*	T	146tee.xls	-3	1.400	0.221	-9.0000
47006.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	50.00	20.00	*	T	146tee.xls	-3	7.900	0.166	-9.0000
47007.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	61.00	21.00	*	T	146tee.xls	-3	8.100	0.911	-9.0000
	CONTROL-C1			48.0	97.00	3.00	-9	-9	148tee	-4	-8.000	-8.000	-9.0000
48001.0	MARINA DEL REY - A1 (X1)	1686	2/5/97	48.0	49.00	29.00	*	T	148tee	-4	0.170	0.001	-9.0000
48002.0	MARINA DEL REY - A2 (X2)	1687	2/5/97	48.0	65.00	6.00	*	T	148tee	-4	1.700	0.047	-9.0000
48003.0	MARINA DEL REY - B1 (X1)	1688	2/5/97	48.0	51.00	27.00	*	T	148tee	-4	0.530	0.014	-9.0000
48004.0	MARINA DEL REY - B2 (X1)	1689	2/5/97	48.0	89.00	7.00	*	NT	148tee	-4	0.410	0.008	-9.0000
48005.0	MARINA DEL REY - C1 (X1)	1690	2/5/97	48.0	77.00	3.00	*	NT	148tee	-4	1.300	0.041	-9.0000
48006.0	SHORELINE MARINA A1 (X1)	1691	2/4/97	48.0	80.00	0.00	*	NT	148tee	-4	0.450	0.016	-9.0000
48007.0	SHORELINE MARINA B1 (X1)	1692	2/4/97	48.0	71.00	35.00	ns	NT	148tee	-4	0.370	0.022	-9.0000
48008.0	SHORELINE MARINA C1 (X1)	1693	2/4/97	48.0	91.00	7.00	ns	NT	148tee	-4	0.210	0.005	-9.0000
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	96.00	4.00	ns	NT	148tee	-4	0.200	0.005	-9.0000
40018.3	LONG BEACH OUTER HARBOR - 18	1695	2/4/97	48.0	75.00	23.00	ns	NT	148tee	-4	0.190	0.006	-9.0000
40020.2	LONG BEACH OUTER HARBOR - 20	1696	2/4/97	48.0	81.00	15.00	*	NT	148tee	-4	0.290	0.007	-9.0000
48010.0	TURNING BASIN	1697	2/4/97	48.0	95.00	5.00	ns	NT	148tee	-4	2.800	0.077	-9.0000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	89.00	10.00	ns	NT	148tee	-4	1.100	0.036	-9.0000
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	86.00	7.00	*	NT	148tee	-3	0.480	0.016	-9.0000
48011.0	KING HARBOR	1700	2/5/97	48.0	77.00	30.00	ns	NT	148tee	-4	4.200	0.165	-9.0000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	81.00	10.00	*	NT	148tee	-4	6.300	0.130	-9.0000
48012.0	CHANNEL IS. HARBOR - FRONT	1702	2/3/97	48.0	79.00	10.00	*	NT	148tee	-4	0.410	0.008	-9.0000
48013.0	WEST MUGU LAGOON - A1 (X2)	1703	2/6/97	48.0	87.00	10.00	*	NT	148tee	-4	3.300	0.152	-9.0000
48014.0	WEST MUGU LAGOON - A2 (X3)	1704	2/6/97	48.0	89.00	7.00	*	NT	148tee	-4	7.800	0.391	-9.0000
48015.0	CENTRAL MUGU LAGOON - B1 (X4)	1705	2/6/97	48.0	17.00	13.00	*	T	148tee	-4	3.300	0.289	-9.0000
48016.0	CENTRAL MUGU LAGOON - B2 (X3)	1706	2/6/97	48.0	85.00	8.00	*	NT	148tee	-3	4.000	0.239	-9.0000
48017.0	EAST MUGU LAGOON - C1 (X1)	1707	2/6/97	48.0	78.00	9.00	*	NT	148tee	-4	10.000	0.412	-9.0000
48018.0	EAST MUGU LAGOON - C2 (X2)	1708	2/6/97	48.0	84.00	4.00	*	NT	148tee	-3	16.000	0.786	-9.0000
	CONTROL-C1			53.0	99.00	2.00	-9	-9	153tee	-4	0.110	0.003	-9.0000
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	85.00	10.00	*	NT	153tee	-4	1.300	0.039	-9.0000
40018.0	LONG BEACH OUTER HARBOR 18	1770	5/13/97	53.0	59.00	30.00	*	T	153tee	-4	0.510	0.011	-9.0000
40020.0	LONG BEACH OUTER HARBOR 20	1771	5/13/97	53.0	85.00	13.00	*	NT	153tee	-4	1.600	0.038	-9.0000
48010.0	TURNING BASIN	1772	5/13/97	53.0	69.00	43.00	ns	NT	153tee	-4	3.300	0.083	-9.0000
40015.0	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	72.00	19.00	*	T	153tee	-4	1.600	0.038	-9.0000
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	74.00	12.00	*	NT	153tee	-4	1.500	0.015	-9.0000

Eohaustorius estuarius Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	EE_MN	EE_SD	EE_SG	EE_TOX	EE_BATCH	EEQC	EE_OTNH3	EE_OUNH3	EE_OH2S
48011.0	KING HARBOR	1775	5/12/97	53.0	26.00	34.00	*	T	153tee	-4	3.200	0.150	-9.0000
40023.0	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	75.00	14.00	*	NT	153tee	-4	5.900	0.163	-9.0000
48012.0	CHANNEL IS. HARBOR - FRONT	1777	5/12/97	53.0	58.00	35.00	*	T	153tee	-3	3.500	0.172	-9.0000
49001.0	CABRILLO BEACH PIER - WEST	1778	5/13/97	53.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
49002.0	CABRILLO BEACH PIER - CENTRAL	1779	5/13/97	53.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
49003.0	CABRILLO BEACH PIER - EAST	1780	5/13/97	53.0	-9.00	-9.00	-9	-9	-9	-9	-9.000	-9.000	-9.0000
	CONTROL-C1			54.0	94.00	8.00	-9	-9	154tee	-4	2.000	0.059	-9.0000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	84.00	5.00	*	NT	154tee	-3	1.300	0.049	-9.0000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	96.00	4.00	ns	NT	154tee	-4	1.700	0.070	-9.0000

Eohaustorius estuarius Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	EE_ITNH3	EE_IUNH3	EE_IH2S
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.000	-9.0000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.000	-9.000	-9.0000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.000	-9.0000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.000	-9.000	-9.0000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.000	-9.000	-9.0000
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.000	-9.000	-9.0000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.000	-9.000	-9.0000
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.000	-9.000	-9.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9.000	-9.000	-9.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9.000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9.000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9.000	-9.000	-9.0000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9.000	-9.000	-9.0000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9.000	-9.000	-9.0000
	CONTROL-C1			45.0	-9.000	-9.000	-9.0000
	CONTROL-C2			45.0	-9.000	-9.000	-9.0000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	7.300	0.039	0.0190
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	7.000	0.039	0.0342
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	8.100	0.060	0.0103
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	34.000	0.215	0.0267
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	26.000	0.135	0.0258
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	5.200	0.128	0.0059
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	51.000	0.797	0.0259
44014.0	MARINA DEL REY	1630	6/19/96	45.0	2.800	0.044	0.0091
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	7.900	0.099	0.0677
44012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	7.800	0.046	0.0161
	CONTROL-C1			46.0	-9.000	-9.000	-9.0000
47001.0	CONSOLIDATED SLIP-198-SURFACE	1647	7/17/96	46.0	5.500	0.050	0.0458
47001.0	CONSOLIDATED SLIP-198-DEPTH 2	1648	7/17/96	46.0	29.000	0.748	0.0193
47002.0	CONSOLIDATED SLIP-200-SURFACE	1650	7/17/96	46.0	9.700	0.113	0.1147
47002.0	CONSOLIDATED SLIP-200-DEPTH 2	1651	7/17/96	46.0	16.000	0.472	0.0314
47003.0	CONSOLIDATED SLIP-200B-SURFACE	1653	7/17/96	46.0	12.000	0.097	0.0864
47003.0	CONSOLIDATED SLIP-200B-DEPTH 2	1654	7/17/96	46.0	28.000	0.773	0.2669
47004.0	CONSOLIDATED SLIP-200E-SURFACE	1656	7/17/96	46.0	25.000	0.147	0.1035
47004.0	CONSOLIDATED SLIP-200E-DEPTH 2	1657	7/17/96	46.0	44.000	0.676	0.1817
47005.0	CONSOLIDATED SLIP-200T-SURFACE	1659	7/17/96	46.0	40.000	0.543	0.1117

Eohaustorius estuarius Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	EE_ITNH3	EE_IUNH3	EE_IH2S
47005.0	CONSOLIDATED SLIP-200T-DEPTH 2	1660	7/17/96	46.0	143.000	1.998	0.1505
47005.0	CONSOLIDATED SLIP-200T-DEPTH 3	1661	7/17/96	46.0	130.000	3.354	0.0804
47006.0	CONSOLIDATED SLIP-END-SURFACE	1662	7/18/96	46.0	13.000	0.117	0.0578
47006.0	CONSOLIDATED SLIP-STORM DRAIN	1663	7/18/96	46.0	3.800	0.055	0.1301
47006.0	CONSOLIDATED SLIP-200G-SURFACE	1664	7/18/96	46.0	22.000	0.257	0.0459
47007.0	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	7/18/96	46.0	17.000	0.320	0.0745
	CONTROL-C1			48.0	-9.000	-9.000	-9.0000
48001.0	MARINA DEL REY - A1 (X1)	1686	2/5/97	48.0	0.770	0.012	-8.0000
48002.0	MARINA DEL REY - A2 (X2)	1687	2/5/97	48.0	4.800	0.060	-8.0000
48003.0	MARINA DEL REY - B1 (X1)	1688	2/5/97	48.0	1.600	0.017	-8.0000
48004.0	MARINA DEL REY - B2 (X1)	1689	2/5/97	48.0	2.800	0.028	-8.0000
48005.0	MARINA DEL REY - C1 (X1)	1690	2/5/97	48.0	4.600	0.051	-8.0000
48006.0	SHORELINE MARINA A1 (X1)	1691	2/4/97	48.0	2.300	0.021	-8.0000
48007.0	SHORELINE MARINA B1 (X1)	1692	2/4/97	48.0	2.200	0.035	-8.0000
48008.0	SHORELINE MARINA C1 (X1)	1693	2/4/97	48.0	2.300	0.012	-8.0000
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	2.200	0.028	-8.0000
40018.3	LONG BEACH OUTER HARBOR - 18	1695	2/4/97	48.0	1.900	0.010	-8.0000
40020.2	LONG BEACH OUTER HARBOR - 20	1696	2/4/97	48.0	1.800	0.018	-8.0000
48010.0	TURNING BASIN	1697	2/4/97	48.0	5.600	0.063	-8.0000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	4.800	0.073	-8.0000
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	1.900	0.020	-8.0000
48011.0	KING HARBOR	1700	2/5/97	48.0	8.400	0.185	-8.0000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	10.000	0.076	-8.0000
48012.0	CHANNEL IS. HARBOR - FRONT	1702	2/3/97	48.0	3.800	0.025	-8.0000
48013.0	WEST MUGU LAGOON - A1 (X2)	1703	2/6/97	48.0	6.600	0.114	-8.0000
48014.0	WEST MUGU LAGOON - A2 (X3)	1704	2/6/97	48.0	13.000	0.224	-8.0000
48015.0	CENTRAL MUGU LAGOON - B1 (X4)	1705	2/6/97	48.0	6.100	0.032	-8.0000
48016.0	CENTRAL MUGU LAGOON - B2 (X3)	1706	2/6/97	48.0	8.600	0.048	0.0004
48017.0	EAST MUGU LAGOON - C1 (X1)	1707	2/6/97	48.0	12.000	0.236	-8.0000
48018.0	EAST MUGU LAGOON - C2 (X2)	1708	2/6/97	48.0	20.000	0.528	-8.0000
	CONTROL-C1			53.0	-9.000	-9.000	-9.0000
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	8.500	0.059	0.0357
40018.0	LONG BEACH OUTER HARBOR 18	1770	5/13/97	53.0	4.000	0.032	0.0207
40020.0	LONG BEACH OUTER HARBOR 20	1771	5/13/97	53.0	6.000	0.021	0.0614
48010.0	TURNING BASIN	1772	5/13/97	53.0	12.000	0.085	0.0406
40015.0	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	8.400	0.039	0.0202
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	5.700	0.031	0.0396

Eohaustorius estuarius Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	EE_ITNH3	EE_IUNH3	EE_IH2S
48011.0	KING HARBOR	1775	5/12/97	53.0	28.000	0.335	0.0394
40023.0	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	16.000	0.067	0.0933
48012.0	CHANNEL IS. HARBOR - FRONT	1777	5/12/97	53.0	12.000	0.059	0.0518
49001.0	CABRILLO BEACH PIER - WEST	1778	5/13/97	53.0	-9.000	-9.000	-9.0000
49002.0	CABRILLO BEACH PIER - CENTRAL	1779	5/13/97	53.0	-9.000	-9.000	-9.0000
49003.0	CABRILLO BEACH PIER - EAST	1780	5/13/97	53.0	-9.000	-9.000	-9.0000
	CONTROL-C1			54.0	-9.000	-9.000	-9.0000
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	12.000	0.221	0.0163
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	19.000	0.076	0.1073

Section 3

Haliotis rufescens Larval Shell Development in Subsurface Water

Haliotis rufescens Larval Shell Development Toxicity Test Data for Subsurface Water

STANUM	STATION	IDORG	DATE	LEG	HRS100_MN	HRS100_SD	HRS100_SG	HRS100_TOX	HRS_OUNH3	HRS_OTNH3	HRS_OH2S
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	96.70	0.90	*	NT	-8.000	-9.000	-9.0000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	86.10	3.60	ns	NT	0.050	-9.000	-9.0000
44014.0	MARINA DEL REY	614	1/14/93	11.0	96.60	1.70	ns	NT	0.004	-9.000	-9.0000
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44021.0	VENTURA MARINA	621	1/13/93	11.0	99.00	1.00	*	NT	-8.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	92.50	1.90	*	NT	0.003	-9.000	-9.0000
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	86.50	5.50	ns	NT	0.003	-9.000	-9.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	91.20	2.70	ns	NT	0.003	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	98.00	1.00	*	NT	-8.000	-9.000	-9.0000

Haliotis rufescens Larval Shell Development Toxicity Test Data for Subsurface Water

STANUM	STATION	IDORG	DATE	LEG	HRS_BATCH	HRSQC
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9	-9
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9	-9
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9	-9
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9	-9
44026.0	SIM'S POND	626	1/14/93	11.0	-9	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9	-9
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9	-9

Section 4

Haliotis rufescens Larval Shell Development in Porewater

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP100_MN	HRP100_SD	HRP100_SG	HRP100_TOX	HRP50_MN	HRP50_SD	HRP50_SG
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	72.30	15.90	ns	NT	92.50	2.90	ns
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	81.40	7.90	*	NT	86.60	8.40	ns
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	0.70	0.60	*	T	40.70	24.20	*
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	0.00	0.00	*	T	1.40	1.20	*
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	0.00	0.00	*	T	0.00	0.00	*
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	0.00	0.00	*	T	0.00	0.00	*
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	0.00	0.00	*	T	63.20	24.10	ns
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	1.50	2.60	*	T	97.90	1.40	ns
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	23.30	38.70	*	T	93.40	5.20	ns
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	26.20	33.50	*	T	93.30	0.70	ns
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	69.10	29.80	ns	NT	94.60	0.90	ns
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	78.70	28.20	ns	NT	91.30	2.90	ns
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	0.00	0.00	*	T	41.90	42.10	ns
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	0.70	1.30	*	T	88.60	4.60	ns
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	0.00	0.00	*	T	54.00	9.40	*
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	0.00	0.00	*	T	90.30	4.50	ns
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	0.00	0.00	*	T	0.00	0.00	*
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	0.00	0.00	*	T	0.70	1.20	*
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	65.70	23.90	ns	NT	89.90	4.50	ns
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	30.70	53.10	ns	NT	19.90	34.50	*
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	0.00	0.00	*	T	15.00	7.80	*
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	0.70	1.30	*	T	0.00	0.00	*
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	8.80	10.20	*	T	86.50	10.80	ns
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	3.30	5.70	*	T	93.60	5.60	ns
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	93.10	1.30	ns	NT	0.30	0.50	*
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	2.80	2.50	*	T	95.20	2.80	ns
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	0.00	0.00	*	T	93.20	3.70	ns
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	1.10	1.10	*	T	95.30	1.60	ns
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	0.00	0.00	*	T	95.70	2.50	ns
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	0.00	0.00	*	T	96.80	0.60	ns
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	92.70	3.40	ns	NT	96.40	1.20	ns
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	93.80	1.80	ns	NT	96.70	2.90	ns
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	95.60	2.40	ns	NT	93.00	0.70	ns
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	23.50	37.40	*	T	94.20	4.60	ns
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	94.30	2.20	ns	NT	96.80	0.60	ns
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	7.50	12.20	*	T	62.50	50.40	ns
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	51.30	24.00	*	T	97.90	2.20	ns
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	34.90	21.30	*	T	95.90	0.30	ns
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	9.80	9.50	*	T	95.80	0.80	ns
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	91.60	2.50	*	NT	97.70	1.40	ns

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP100_MN	HRP100_SD	HRP100_SG	HRP100_TOX	HRP50_MN	HRP50_SD	HRP50_SG
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	71.20	27.10	ns	NT	96.90	0.90	ns
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	94.50	1.40	ns	NT	96.60	0.50	ns
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	0.00	0.00	*	T	0.00	0.00	*
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	88.60	6.10	ns	NT	95.80	1.60	ns
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	0.00	0.00	*	T	0.00	0.00	*
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	0.00	0.00	*	T	0.00	0.00	*
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	0.00	0.00	*	T	48.50	14.00	*
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	0.00	0.00	*	T	59.50	25.30	ns
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	0.00	0.00	*	T	11.00	17.20	*
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	0.00	0.00	*	T	16.30	23.80	*
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	0.00	0.00	*	T	0.00	0.00	*
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	0.00	0.00	*	T	91.60	4.10	ns
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	0.00	0.00	*	T	0.40	0.70	*
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	0.00	0.00	*	T	0.40	0.60	*
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	0.00	0.00	*	T	75.10	12.00	ns
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	0.00	0.00	*	T	0.00	0.00	*
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	0.00	0.00	*	T	0.00	0.00	*
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	0.00	0.00	*	T	89.40	0.80	ns
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	0.00	0.00	*	T	87.10	2.10	*
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	5.50	7.70	*	T	90.00	3.20	ns
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	0.00	0.00	*	T	92.50	5.20	ns
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	0.00	0.00	*	T	0.00	0.00	*
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	0.00	0.00	*	T	90.40	5.10	ns
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	0.00	0.00	*	T	72.20	8.60	*
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	20.60	8.90	*	T	86.80	7.60	ns
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	50.70	7.50	*	T	90.20	1.40	ns
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	0.00	0.00	*	T	86.90	10.40	ns
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	0.00	0.00	*	T	1.10	1.90	*
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	92.30	4.40	ns	NT	91.40	2.50	ns
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	0.00	0.00	*	T	6.30	11.00	*
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	0.00	0.00	*	T	14.60	4.10	*
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	24.20	18.30	*	T	88.70	0.60	ns
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	0.00	0.00	*	T	88.10	3.20	ns
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	0.00	0.00	*	T	90.30	3.80	ns
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	55.60	26.70	*	NT	72.00	1.70	*
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	0.40	0.60	*	T	14.70	3.90	*
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	0.00	0.00	*	T	3.10	1.10	*
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	0.00	0.00	*	T	8.10	6.60	*
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	0.00	0.00	*	T	54.40	10.90	*
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	0.30	0.50	*	T	0.00	0.00	*

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP100_MN	HRP100_SD	HRP100_SG	HRP100_TOX	HRP50_MN	HRP50_SD	HRP50_SG
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	0.30	0.50	*	T	6.60	9.30	*
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	0.00	0.00	*	T	2.20	3.90	*
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	0.00	0.00	*	T	0.00	0.00	*
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	0.00	0.00	*	T	0.00	0.00	*
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	1.70	2.90	*	T	2.20	0.90	*
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	0.00	0.00	*	T	1.00	1.80	*
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	0.00	0.00	*	T	7.10	3.50	*
44020.0	SHORELINE MARINA	620	1/14/93	11.0	0.70	0.70	*	T	-9.00	-9.00	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	16.50	1.70	*	T	-9.00	-9.00	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	12.30	3.80	*	T	-9.00	-9.00	-9

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP50_TOX	HRP25_MN	HRP25_SD	HRP25_SG	HRP25_TOX	HRP_IUNH3	HRP_ITNH3
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	NT	92.80	3.90	ns	NT	0.133	-9.000
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	NT	72.80	18.90	ns	NT	0.147	-9.000
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	T	76.50	7.90	*	T	0.188	-9.000
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	T	87.70	1.80	*	NT	0.066	-9.000
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	T	28.90	27.60	*	T	0.153	-9.000
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	T	65.20	23.00	ns	NT	0.234	-9.000
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	NT	88.30	8.80	ns	NT	0.162	-9.000
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	NT	95.80	2.00	ns	NT	0.187	-9.000
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	NT	92.20	6.30	ns	NT	0.157	-9.000
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	NT	93.70	1.20	ns	NT	0.102	-9.000
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	NT	95.20	3.10	ns	NT	0.120	-9.000
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	NT	96.90	1.20	ns	NT	0.113	-9.000
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	NT	97.50	2.70	ns	NT	0.076	-9.000
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	NT	94.00	3.70	ns	NT	0.083	-9.000
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	T	77.90	10.40	ns	NT	0.106	-9.000
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	NT	92.90	3.10	ns	NT	0.028	-9.000
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	T	0.40	0.70	*	T	0.433	-9.000
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	T	44.80	38.00	*	T	0.088	-9.000
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	NT	97.90	2.70	ns	NT	0.162	-9.000
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	T	83.80	8.20	ns	NT	0.138	-9.000
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	T	91.60	5.00	ns	NT	0.168	-9.000
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	T	25.50	20.90	*	T	0.139	-9.000
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	NT	96.90	2.90	ns	NT	0.127	-9.000
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	NT	90.60	5.10	ns	NT	0.124	-9.000
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	T	94.70	3.10	ns	NT	0.066	-9.000
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	NT	97.60	0.70	ns	NT	0.053	-9.000
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	NT	92.80	3.00	ns	NT	0.072	-9.000
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	NT	95.20	1.10	ns	NT	0.040	-9.000
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	NT	94.90	1.90	ns	NT	0.075	-9.000
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	NT	94.70	3.00	ns	NT	0.067	-9.000
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	NT	96.90	2.20	ns	NT	0.022	-9.000
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	NT	96.10	1.50	ns	NT	0.025	-9.000
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	NT	92.40	8.20	ns	NT	0.025	-9.000
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	NT	95.80	2.60	ns	NT	0.044	-9.000
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	NT	97.50	0.80	ns	NT	0.046	-9.000
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	NT	93.70	1.20	ns	NT	0.050	-9.000
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	NT	95.70	1.50	ns	NT	0.084	-9.000
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	NT	98.20	1.00	ns	NT	0.110	-9.000
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	NT	97.70	1.40	ns	NT	0.054	-9.000
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	NT	97.10	1.70	ns	NT	0.048	-9.000

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP50_TOX	HRP25_MN	HRP25_SD	HRP25_SG	HRP25_TOX	HRP_IUNH3	HRP_ITNH3
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	NT	96.50	1.50	ns	NT	0.089	-9.000
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	NT	95.80	2.70	ns	NT	0.063	-9.000
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	T	0.00	0.00	*	T	0.505	-9.000
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	NT	95.80	0.50	ns	NT	0.092	-9.000
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	T	93.00	3.20	ns	NT	0.413	-9.000
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	T	35.50	6.50	*	T	0.077	-9.000
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	T	90.00	5.60	ns	NT	0.090	-9.000
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	NT	94.70	1.30	ns	NT	0.143	-9.000
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	T	90.10	8.10	ns	NT	0.109	-9.000
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	T	9.60	5.60	*	T	0.117	-9.000
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	T	60.60	31.70	ns	NT	0.119	-9.000
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	NT	90.70	2.60	ns	NT	0.025	-9.000
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	T	36.60	20.50	*	T	0.011	-9.000
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	T	88.20	5.10	ns	NT	0.006	-9.000
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	NT	90.00	1.70	ns	NT	0.011	-9.000
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	T	87.60	3.60	ns	NT	0.003	-9.000
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	T	62.20	30.60	ns	NT	0.004	-9.000
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	NT	90.80	1.50	ns	NT	0.141	-9.000
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	NT	88.40	1.20	ns	NT	0.123	-9.000
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	NT	92.20	2.80	ns	NT	0.084	-9.000
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	NT	86.90	1.40	*	NT	0.110	-9.000
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	T	90.80	4.00	ns	NT	0.332	-9.000
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	NT	89.20	3.80	ns	NT	0.172	-9.000
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	T	93.70	0.30	ns	NT	0.011	-9.000
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	NT	91.60	2.00	ns	NT	0.016	-9.000
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	NT	91.70	2.10	ns	NT	0.052	-9.000
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	NT	90.00	5.30	ns	NT	0.047	-9.000
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	T	94.20	1.80	ns	NT	0.005	-9.000
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	NT	93.30	2.30	ns	NT	0.055	-9.000
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	T	64.30	47.60	ns	NT	0.039	-9.000
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	T	90.60	2.20	ns	NT	0.024	-9.000
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	NT	91.10	3.00	ns	NT	0.042	-9.000
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	NT	88.60	2.60	ns	NT	0.017	-9.000
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	NT	92.00	2.70	ns	NT	0.036	-9.000
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	T	88.20	0.90	*	NT	0.017	-9.000
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	T	96.50	2.30	ns	NT	0.023	-9.000
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	T	91.40	7.10	ns	NT	0.062	-9.000
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	T	96.20	2.50	ns	NT	0.067	-9.000
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	T	97.00	1.60	ns	NT	0.040	-9.000
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	T	46.20	24.20	*	T	0.021	-9.000

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP50_TOX	HRP25_MN	HRP25_SD	HRP25_SG	HRP25_TOX	HRP_IUNH3	HRP_ITNH3
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	T	66.10	21.40	ns	NT	0.070	-9.000
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	T	96.80	3.50	ns	NT	0.025	-9.000
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	T	61.20	27.10	ns	NT	0.114	-9.000
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	T	81.20	21.40	ns	NT	0.069	-9.000
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	T	52.90	31.90	ns	NT	0.002	-9.000
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	T	47.60	7.10	*	T	0.006	-9.000
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	T	50.10	19.20	*	T	0.004	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9	-9.00	-9.00	-9	-9	0.030	-9.000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9	-9.00	-9.00	-9	-9	0.024	-9.000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9	-9.00	-9.00	-9	-9	0.034	-9.000

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP_IH2S	HRP_BATCH	HRPQC
40001.1	SOUTHWEST SLIP	1	7/29/92	1.0	0.0038	-9	-9
40001.2	SOUTHWEST SLIP	2	7/29/92	1.0	0.0018	-9	-9
40001.3	SOUTHWEST SLIP	3	7/29/92	1.0	0.0008	-9	-9
40002.1	WEST BASIN- PIER 143	4	7/30/92	1.0	-8.0000	-9	-9
40002.2	WEST BASIN- PIER 143	5	7/30/92	1.0	0.0022	-9	-9
40002.3	WEST BASIN- PIER 143	6	7/30/92	1.0	-8.0000	-9	-9
40003.1	TURNING BASIN- PIER 151	7	7/31/92	1.0	0.0008	-9	-9
40003.2	TURNING BASIN- PIER 151	8	7/31/92	1.0	0.0001	-9	-9
40003.3	TURNING BASIN- PIER 151	9	7/31/92	1.0	-8.0000	-9	-9
40004.1	LOWER MAIN CHANNEL	10	7/29/92	1.0	-8.0000	-9	-9
40004.2	LOWER MAIN CHANNEL	11	7/29/92	1.0	0.0026	-9	-9
40004.3	LOWER MAIN CHANNEL	12	7/29/92	1.0	-8.0000	-9	-9
40005.1	EAST BASIN- TURNING BASIN	13	7/30/92	1.0	0.0012	-9	-9
40005.2	EAST BASIN- TURNING BASIN	14	7/30/92	1.0	-8.0000	-9	-9
40005.3	EAST BASIN- TURNING BASIN	15	7/30/92	1.0	-8.0000	-9	-9
40006.1	CONSOLIDATED SLIP	16	7/31/92	1.0	0.0012	-9	-9
40006.2	CONSOLIDATED SLIP	17	7/31/92	1.0	0.0008	-9	-9
40006.3	CONSOLIDATED SLIP	18	7/31/92	1.0	-8.0000	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	79	7/30/92	1.0	-8.0000	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	80	7/30/92	1.0	-8.0000	-9	-9
40032.3	SAN PEDRO BAY- POLA 19	81	7/30/92	1.0	-8.0000	-9	-9
40033.1	OUTER HARBOR- POLA 10	82	7/30/92	1.0	0.0014	-9	-9
40033.2	OUTER HARBOR- POLA 10	83	7/30/92	1.0	-8.0000	-9	-9
40033.3	OUTER HARBOR- POLA 10	84	7/30/92	1.0	-8.0000	-9	-9
40008.1	EAST BASIN- PIER C	22	8/18/92	2.0	-8.0000	-9	-9
40008.2	EAST BASIN- PIER C	23	8/18/92	2.0	-8.0000	-9	-9
40008.3	EAST BASIN- PIER C	24	8/18/92	2.0	-8.0000	-9	-9
40009.1	WEST BASIN ENTRANCE	25	8/18/92	2.0	-8.0000	-9	-9
40009.2	WEST BASIN ENTRANCE	26	8/18/92	2.0	-8.0000	-9	-9
40009.3	WEST BASIN ENTRANCE	27	8/18/92	2.0	-8.0000	-9	-9
40010.1	OFF CABRILLO BEACH	28	8/18/92	2.0	-8.0000	-9	-9
40010.2	OFF CABRILLO BEACH	29	8/18/92	2.0	-8.0000	-9	-9
40010.3	OFF CABRILLO BEACH	30	8/18/92	2.0	-8.0000	-9	-9
40012.1	SOUTHEAST BASIN	34	8/18/92	2.0	-8.0000	-9	-9
40012.2	SOUTHEAST BASIN	35	8/18/92	2.0	-8.0000	-9	-9
40012.3	SOUTHEAST BASIN	36	8/18/92	2.0	-8.0000	-9	-9
40015.1	FISH HARBOR ENTRANCE	43	8/19/92	2.0	-8.0000	-9	-9
40015.2	FISH HARBOR ENTRANCE	44	8/19/92	2.0	-8.0000	-9	-9
40015.3	FISH HARBOR ENTRANCE	45	8/19/92	2.0	-8.0000	-9	-9
40016.1	TERMINAL ISLAND STP	46	8/18/92	2.0	-8.0000	-9	-9

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP_IH2S	HRP_BATCH	HRPQC
40016.2	TERMINAL ISLAND STP	47	8/18/92	2.0	-8.0000	-9	-9
40016.3	TERMINAL ISLAND STP	48	8/18/92	2.0	-8.0000	-9	-9
40019.1	INNER FISH HARBOR	55	8/19/92	2.0	-8.0000	-9	-9
40019.2	INNER FISH HARBOR	56	8/19/92	2.0	-8.0000	-9	-9
40019.3	INNER FISH HARBOR	57	8/19/92	2.0	-8.0000	-9	-9
40030.1	SAN PEDRO BREAKWATER	73	8/19/92	2.0	-8.0000	-9	-9
40030.2	SAN PEDRO BREAKWATER	74	8/19/92	2.0	-8.0000	-9	-9
40030.3	SAN PEDRO BREAKWATER	75	8/19/92	2.0	-8.0000	-9	-9
40032.1	SAN PEDRO BAY- POLA 19	103	8/19/92	2.0	-8.0000	-9	-9
40032.2	SAN PEDRO BAY- POLA 19	104	8/19/92	2.0	-8.0000	-9	-9
40032.3	SAN PEDRO BAY- POLA 19	105	8/19/92	2.0	-8.0000	-9	-9
40007.1	LONG BEACH HARBOR- CHANNEL 2	19	9/1/92	3.0	-8.0000	-9	-9
40007.2	LONG BEACH HARBOR- CHANNEL 2	20	9/1/92	3.0	-8.0000	-9	-9
40007.3	LONG BEACH HARBOR- CHANNEL 2	21	9/1/92	3.0	-8.0000	-9	-9
40011.1	INNER HARBOR- CHANNEL 3	31	9/1/92	3.0	-8.0000	-9	-9
40011.2	INNER HARBOR- CHANNEL 3	32	9/1/92	3.0	-8.0000	-9	-9
40011.3	INNER HARBOR- CHANNEL 3	33	9/1/92	3.0	-8.0000	-9	-9
40013.1	INNER QUEENSWAY BAY	37	9/2/92	3.0	-8.0000	-9	-9
40013.2	INNER QUEENSWAY BAY	38	9/2/92	3.0	-8.0000	-9	-9
40013.3	INNER QUEENSWAY BAY	39	9/2/92	3.0	-8.0000	-9	-9
40014.1	OUTER QUEENSWAY BAY	40	9/2/92	3.0	-8.0000	-9	-9
40014.2	OUTER QUEENSWAY BAY	41	9/2/92	3.0	-8.0000	-9	-9
40014.3	OUTER QUEENSWAY BAY	42	9/2/92	3.0	-8.0000	-9	-9
40017.1	LONG BEACH CHANNEL	49	9/2/92	3.0	0.0025	-9	-9
40017.2	LONG BEACH CHANNEL	50	9/2/92	3.0	-8.0000	-9	-9
40017.3	LONG BEACH CHANNEL	51	9/2/92	3.0	-8.0000	-9	-9
40018.1	LONG BEACH OUTER HARBOR- 18	52	9/2/92	3.0	0.0008	-9	-9
40018.2	LONG BEACH OUTER HARBOR- 18	53	9/2/92	3.0	-8.0000	-9	-9
40018.3	LONG BEACH OUTER HARBOR- 18	54	9/2/92	3.0	-8.0000	-9	-9
40020.1	LONG BEACH OUTER HARBOR- 20	58	9/2/92	3.0	-8.0000	-9	-9
40020.2	LONG BEACH OUTER HARBOR- 20	59	9/2/92	3.0	-8.0000	-9	-9
40020.3	LONG BEACH OUTER HARBOR- 20	60	9/2/92	3.0	-8.0000	-9	-9
40031.1	PALOS VERDES- SWARTZ 6	76	9/1/92	3.0	0.0017	-9	-9
40031.2	PALOS VERDES- SWARTZ 6	77	9/1/92	3.0	-8.0000	-9	-9
40031.3	PALOS VERDES- SWARTZ 6	78	9/1/92	3.0	-8.0000	-9	-9
40021.1	ALAMITOS BAY- MARINE STADIUM	61	9/16/92	4.0	-8.0000	-9	-9
40021.2	ALAMITOS BAY- MARINE STADIUM	62	9/16/92	4.0	-8.0000	-9	-9
40021.3	ALAMITOS BAY- MARINE STADIUM	63	9/16/92	4.0	-8.0000	-9	-9
40022.1	ALAMITOS BAY- ENTRANCE	64	9/15/92	4.0	-8.0000	-9	-9
40022.2	ALAMITOS BAY- ENTRANCE	65	9/15/92	4.0	-8.0000	-9	-9

Haliotis rufescens Larval Shell Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	HRP_IH2S	HRP_BATCH	HRPQC
40022.3	ALAMITOS BAY- ENTRANCE	66	9/15/92	4.0	-8.0000	-9	-9
40023.1	ALAMITOS BAY- LONG BEACH	67	9/16/92	4.0	-8.0000	-9	-9
40023.2	ALAMITOS BAY- LONG BEACH	68	9/16/92	4.0	-8.0000	-9	-9
40023.3	ALAMITOS BAY- LONG BEACH	69	9/16/92	4.0	-8.0000	-9	-9
40010.1	OFF CABRILLO BEACH	136	9/16/92	4.0	-8.0000	-9	-9
40010.2	OFF CABRILLO BEACH	137	9/16/92	4.0	-8.0000	-9	-9
40010.3	OFF CABRILLO BEACH	138	9/16/92	4.0	-8.0000	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-8.0000	-9	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	-8.0000	-9	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-8.0000	-9	-9

Section 5

Strongylocentrotus purpuratus Fertilization in Porewater

Strongylocentrotus purpuratus Fertilization Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPF100_MN	SPPF100_SD	SPPF100_SG	SPPF100TOX	SPPF50_MN	SPPF50_SD
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	58.60	12.10	*	-9	-9.00	-9.00
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	3.40	3.10	*	-9	-9.00	-9.00
44014.0	MARINA DEL REY	614	1/14/93	11.0	57.80	26.90	*	-9	-9.00	-9.00
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44020.0	SHORELINE MARINA	620	1/14/93	11.0	14.60	6.70	*	-9	-9.00	-9.00
44021.0	VENTURA MARINA	621	1/13/93	11.0	39.50	18.70	*	-9	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	42.40	21.30	*	-9	-9.00	-9.00
44024.0	BALLONA CREEK	624	1/14/93	11.0	0.00	0.00	*	-9	-9.00	-9.00
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	30.60	17.60	*	-9	-9.00	-9.00
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	38.60	13.30	*	-9	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	78.50	11.40	ns	-9	-9.00	-9.00
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	0.00	0.00	*	-9	-9.00	-9.00
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9.00	-9.00	-9	-9	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	95.20	2.80	*	-9	98.10	1.60
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	89.70	4.50	*	-9	87.50	10.80
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	0.00	0.00	*	-9	0.00	0.00
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	80.80	9.80	*	-9	93.40	9.30
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	82.90	12.90	*	-9	81.20	16.00
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	61.80	9.90	*	-9	88.10	8.90
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	0.00	0.00	*	-9	0.00	0.00
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	0.00	0.00	*	-9	47.20	9.80
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	86.90	10.20	ns	-9	68.40	10.50
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	79.80	7.00	ns	-9	76.30	9.30
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	78.90	12.00	ns	-9	90.20	9.80
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	3.30	4.30	*	-9	89.40	4.40
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	2.80	4.20	*	-9	90.80	2.40
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	81.90	2.80	ns	-9	83.80	8.90
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	82.90	12.60	ns	-9	92.00	2.50
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	95.80	2.00	ns	-9	97.10	2.00
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	96.10	2.00	ns	-9	97.70	1.40
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	0.80	0.80	*	-9	0.30	0.60
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	0.60	1.10	*	-9	1.00	0.90

Strongylocentrotus purpuratus Fertilization Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPF100_MN	SPPF100_SD	SPPF100_SG	SPPF100TOX	SPPF50_MN	SPPF50_SD
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	1.20	0.50	*	-9	1.60	2.00
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	24.70	9.40	*	-9	93.50	0.40
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	4.90	3.20	*	-9	19.00	3.30
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	5.60	7.40	*	-9	73.50	5.20
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	82.40	7.30	*	-9	79.00	6.90

Strongylocentrotus purpuratus Fertilization Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPF50_SG	SPPF50_TOX	SPPF25_MN	SPPF25_SD	SPPF25_SG	SPPF25_TOX	SPPF_ITNH3
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44026.0	SIM'S POND	626	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9	-9	-9.00	-9.00	-9	-9	-9.000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	ns	-9	97.80	3.80	ns	-9	-9.000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	ns	-9	97.70	1.20	*	-9	-9.000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	*	-9	0.00	0.00	*	-9	-9.000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	ns	-9	88.70	8.80	*	-9	-9.000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	*	-9	95.90	2.00	*	-9	-9.000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	ns	-9	95.20	1.90	ns	-9	-9.000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	*	-9	81.90	8.40	ns	-9	-9.000
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	*	-9	87.10	1.00	ns	-9	-9.000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	*	-9	85.50	12.10	ns	-9	-9.000
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	*	-9	77.30	3.70	*	-9	-9.000
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	ns	-9	76.10	26.40	ns	-9	-9.000
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	ns	-9	59.90	49.40	ns	-9	-9.000
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	ns	-9	85.10	12.50	ns	-9	-9.000
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	ns	-9	74.20	10.40	ns	-9	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	ns	-9	97.10	0.90	ns	-9	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	ns	-9	82.40	6.50	*	-9	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	ns	-9	97.00	3.00	ns	-9	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	*	-9	0.50	0.40	*	-9	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	*	-9	0.70	0.70	*	-9	-9.000

Strongylocentrotus purpuratus Fertilization Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPF50_SG	SPPF50_TOX	SPPF25_MN	SPPF25_SD	SPPF25_SG	SPPF25_TOX	SPPF_ITNH3
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	*	-9	2.20	1.50	*	-9	-9.000
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	ns	-9	39.70	46.20	ns	-9	-9.000
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	*	-9	62.10	44.90	ns	-9	-9.000
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	*	-9	24.60	19.00	*	-9	-9.000
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	*	-9	87.20	21.40	ns	-9	-9.000

Strongylocentrotus purpuratus Fertilization Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPF_IUNH3	SPPF_IH2S	SPPF_BATCH	SPPFQC
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	0.028	-8.0000	-9	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	0.067	0.0001	-9	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	0.039	0.0004	-9	-9
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.000	-9.0000	-9	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.000	-9.0000	-9	-9
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.000	-9.0000	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	0.054	-8.0000	-9	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	0.022	-8.0000	-9	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	0.026	-8.0000	-9	-9
44024.0	BALLONA CREEK	624	1/14/93	11.0	0.229	0.0040	-9	-9
44026.0	SIM'S POND	626	1/14/93	11.0	-9.000	-9.0000	-9	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.000	-9.0000	-9	-9
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.000	-9.0000	-9	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	0.053	-8.0000	-9	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	0.043	-8.0000	-9	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	0.053	0.0001	-9	-9
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	0.173	-8.0000	-9	-9
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9.000	-9.0000	-9	-9
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9.000	-9.0000	-9	-9
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	0.020	-8.0000	-9	-9
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	0.016	-8.0000	-9	-9
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	0.023	-8.0000	-9	-9
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	0.014	-8.0000	-9	-9
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	0.015	-8.0000	-9	-9
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	0.031	-8.0000	-9	-9
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	0.008	-8.0000	-9	-9
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	0.010	-8.0000	-9	-9
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	0.108	-8.0000	-9	-9
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	0.016	-8.0000	-9	-9
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	0.046	-8.0000	-9	-9
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	0.076	-8.0000	-9	-9
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	0.025	-8.0000	-9	-9
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	0.078	-8.0000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	0.028	-8.0000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	0.024	-8.0000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	0.020	-8.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	0.048	-8.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	0.039	-8.0000	-9	-9

Strongylocentrotus purpuratus Fertilization Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPF_IUNH3	SPPF_IH2S	SPPF_BATCH	SPPFQC
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	0.090	-8.0000	-9	-9
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	0.037	-8.0000	-9	-9
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	0.045	-8.0000	-9	-9
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	0.038	-8.0000	-9	-9
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	0.029	-8.0000	-9	-9

Section 6

Strongylocentrotus purpuratus Development in Porewater

Strongylocentrotus purpuratus Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPD100_MN	SPPD100_SD	SPPD100_SG	SPPD100TOX	SPPD50_MN	SPPD50_SD
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	0.00	0.00	*	T	-9.00	-9.00
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	0.00	0.00	*	T	-9.00	-9.00
44014.0	MARINA DEL REY	614	1/14/93	11.0	2.00	2.40	*	T	-9.00	-9.00
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44020.0	SHORELINE MARINA	620	1/14/93	11.0	87.20	4.10	*	NT	-9.00	-9.00
44021.0	VENTURA MARINA	621	1/13/93	11.0	14.00	12.10	*	T	-9.00	-9.00
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	1.00	1.00	*	T	-9.00	-9.00
44024.0	BALLONA CREEK	624	1/14/93	11.0	0.00	0.00	*	T	-9.00	-9.00
44026.0	SIM'S POND	626	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	74.50	16.60	*	NT	-9.00	-9.00
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	10.40	10.60	*	T	-9.00	-9.00
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	0.00	0.00	*	T	-9.00	-9.00
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	0.00	0.00	*	T	-9.00	-9.00
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9.00	-9.00	-9	-9	-9.00	-9.00
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9.00	-9.00	-9	-9	-9.00	-9.00
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	96.80	1.70		NT	96.40	1.10
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	98.70	1.10	*	NT	80.70	18.40
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	94.90	0.50	ns	NT	93.10	0.80
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	90.50	8.50	ns	NT	83.00	10.10
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	89.40	12.50	ns	NT	86.40	2.80
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	0.00	0.00	*	T	93.10	2.80
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	0.00	0.00	*	T	0.00	0.00
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	52.40	30.30	ns	NT	95.20	1.50
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	0.00	0.00	*	T	0.00	0.00
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	0.00	0.00	*	T	0.00	0.00
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	0.00	0.00	*	T	13.40	15.80
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	0.00	0.00	*	T	13.50	19.20
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	0.00	0.00	*	T	15.40	0.80
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	54.50	10.40	*	NT	76.30	0.60
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	0.00	0.00	*	T	91.10	2.80
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	0.00	0.00	*	T	90.90	6.90
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	0.00	0.00	*	T	33.90	11.10
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	0.00	0.00	*	T	1.90	3.20
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	0.00	0.00	*	T	0.00	0.00

Strongylocentrotus purpuratus Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPD100_MN	SPPD100_SD	SPPD100_SG	SPPD100TOX	SPPD50_MN	SPPD50_SD
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	86.20	3.70	*	NT	97.40	2.20
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	26.60	23.10	*	T	0.00	0.00
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	46.10	16.40	*	T	95.50	2.20
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	5.30	9.20	*	T	30.90	25.40
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	94.60	2.60	ns	NT	96.30	1.50
	CONTROL-C1			45.0	88.00	4.00	-9	-9	-9.00	-9.00
	CONTROL-C2			45.0	90.00	3.00	-9	-9	-9.00	-9.00
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	40.00	25.00	*	T	-9.00	-9.00
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	63.00	21.00	*	T	-9.00	-9.00
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	44.00	21.00	*	T	-9.00	-9.00
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	0.00	0.00	*	T	-9.00	-9.00
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	0.00	0.00	*	T	-9.00	-9.00
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	90.00	1.00	ns	NT	-9.00	-9.00
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	0.00	0.00	*	T	-9.00	-9.00
44014.0	MARINA DEL REY	1630	6/19/96	45.0	88.00	5.00	ns	NT	-9.00	-9.00
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	0.00	0.00	*	T	-9.00	-9.00
44012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	0.00	0.00	*	T	-9.00	-9.00

Strongylocentrotus purpuratus Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPD50_SG	SPPD50_TOX	SPPD25_MN	SPPD25_SD	SPPD25_SG	SPPD25_TOX
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44026.0	SIM'S POND	626	1/14/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9	-9	-9.00	-9.00	-9	-9
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9	-9	-9.00	-9.00	-9	-9
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9	-9	-9.00	-9.00	-9	-9
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	ns	NT	90.30	3.80	ns	NT
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	ns	NT	87.60	7.10	ns	NT
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	ns	NT	90.30	1.00	ns	NT
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	ns	NT	89.40	5.50	ns	NT
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	ns	NT	86.70	3.20	ns	NT
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	ns	NT	-9.00	-9.00	-9	-9
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	*	T	-9.00	-9.00	-9	-9
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	ns	NT	-9.00	-9.00	-9	-9
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	*	T	0.00	0.00	*	T
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	*	T	41.30	20.00	*	T
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	*	T	62.70	54.30	ns	NT
40009.1	WEST BASIN ENTRANCE-REP 1	834	6/17/93	20.0	*	T	78.50	4.10	*	NT
40009.1	WEST BASIN ENTRANCE-REP 2	835	6/17/93	20.0	*	T	89.10	2.70	ns	NT
40009.1	WEST BASIN ENTRANCE-REP 3	836	6/17/93	20.0	*	NT	87.90	3.80	ns	NT
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	*	NT	89.00	10.90	ns	NT
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	ns	NT	93.70	0.90	*	NT
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	*	T	81.40	20.70	ns	NT
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	*	T	93.00	3.00	ns	NT
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	*	T	93.20	1.00	ns	NT

Strongylocentrotus purpuratus Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPD50_SG	SPPD50_TOX	SPPD25_MN	SPPD25_SD	SPPD25_SG	SPPD25_TOX
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	ns	NT	96.80	3.00	ns	NT
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	*	T	12.20	21.20	*	T
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	ns	NT	96.10	2.60	ns	NT
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	*	T	38.40	3.90	*	T
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	ns	NT	64.00	54.60	ns	NT
	CONTROL-C1			45.0	-9	-9	-9.00	-9.00	-9	-9
	CONTROL-C2			45.0	-9	-9	-9.00	-9.00	-9	-9
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	-9	-9	-9.00	-9.00	-9	-9
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	-9	-9	-9.00	-9.00	-9	-9
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	-9	-9	-9.00	-9.00	-9	-9
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	-9	-9	-9.00	-9.00	-9	-9
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	-9	-9	-9.00	-9.00	-9	-9
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	-9	-9	-9.00	-9.00	-9	-9
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	-9	-9	-9.00	-9.00	-9	-9
44014.0	MARINA DEL REY	1630	6/19/96	45.0	-9	-9	-9.00	-9.00	-9	-9
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	-9	-9	-9.00	-9.00	-9	-9
44012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	-9	-9	-9.00	-9.00	-9	-9

Strongylocentrotus purpuratus Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPD_BATCH	SPPDQC	SPPD_ITNH3	SPPD_IUNH3	SPPD_IH2S
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9	-9	-9.000	0.028	-8.0000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9	-9	-9.000	0.067	0.0001
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9	-9	-9.000	0.039	0.0004
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9	-9	-9.000	-9.000	-9.0000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9	-9	-9.000	-9.000	-9.0000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9	-9	-9.000	-9.000	-9.0000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9	-9	-9.000	0.054	-8.0000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9	-9	-9.000	0.022	-8.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9	-9	-9.000	0.026	-8.0000
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9	-9	-9.000	0.229	0.0040
44026.0	SIM'S POND	626	1/14/93	11.0	-9	-9	-9.000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9	-9	-9.000	-9.000	-9.0000
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9	-9	-9.000	-9.000	-9.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9	-9	-9.000	0.053	-8.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9	-9	-9.000	0.043	-8.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9	-9	-9.000	0.053	0.0001
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9	-9	-9.000	0.173	-8.0000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9	-9	-9.000	-9.000	-9.0000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9	-9	-9.000	-9.000	-9.0000
40004.2	LOWER MAIN CHANNEL	789	5/6/93	18.0	B018SPDA01	-4	-9.000	0.021	-8.0000
40009.1	WEST BASIN ENTRANCE	790	5/6/93	18.0	B018SPDA01	-4	-9.000	0.011	-8.0000
40013.1	INNER QUEENSWAY BAY	791	5/6/93	18.0	B018SPDA01	-4	-9.000	0.034	-8.0000
40015.3	FISH HARBOR ENTRANCE	792	5/6/93	18.0	B018SPDA01	-4	-9.000	0.015	-8.0000
40016.2	TERMINAL ISLAND STP	793	5/6/93	18.0	B018SPDA01	-4	-9.000	0.018	-8.0000
40010.1	OFF CABRILLO BEACH	810	5/27/93	19.0	-9	-9	-9.000	0.071	-8.0000
40017.3	LONG BEACH CHANNEL	811	5/27/93	19.0	-9	-9	-9.000	0.008	-8.0000
40012.1	SOUTHEAST BASIN	812	5/27/93	19.0	-9	-9	-9.000	0.021	-8.0000
40004.2	LOWER MAIN CHANNEL-REP 1	830	6/17/93	20.0	-9	-9	-9.000	0.108	-8.0000
40004.2	LOWER MAIN CHANNEL-REP 2	831	6/17/93	20.0	-9	-9	-9.000	0.041	-8.0000
40004.2	LOWER MAIN CHANNEL-REP 3	832	6/17/93	20.0	-9	-9	-9.000	0.046	-8.0000
40009.1	WEST BASIN ENTRANCE-REF 1	834	6/17/93	20.0	-9	-9	-9.000	0.076	-8.0000
40009.1	WEST BASIN ENTRANCE-REF 2	835	6/17/93	20.0	-9	-9	-9.000	0.025	-8.0000
40009.1	WEST BASIN ENTRANCE-REF 3	836	6/17/93	20.0	-9	-9	-9.000	0.078	-8.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	884	8/5/93	22.0	-9	-9	-9.000	0.024	-8.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	885	8/5/93	22.0	-9	-9	-9.000	0.024	-8.0000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	886	8/5/93	22.0	-9	-9	-9.000	0.026	-8.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-9	-9	-9.000	0.030	-8.0000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-9	-9	-9.000	0.029	-8.0000

Strongylocentrotus purpuratus Development Toxicity Test Data for Porewater

STANUM	STATION	IDORG	DATE	LEG	SPPD_BATCH	SPPDQC	SPPD_ITNH3	SPPD_IUNH3	SPPD_IH2S
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-9	-9	-9.000	0.022	0.0014
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-9	-9	-9.000	0.015	0.0003
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-9	-9	-9.000	0.026	-8.0000
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-9	-9	-9.000	0.028	-8.0000
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-9	-9	-9.000	0.024	-8.0000
	CONTROL-C1			45.0	145tspd.xl	-4	1.600	0.049	-9.0000
	CONTROL-C2			45.0	145tspd.xl	-4	0.860	0.027	-9.0000
46001.0	HUGO NEUPROLER- #1	1623	6/20/96	45.0	145tspd.xl	-4	3.600	0.083	0.0253
46002.0	HUGO NEUPROLER- #2	1624	6/20/96	45.0	145tspd.xl	-4	2.100	0.044	0.0325
46003.0	HUGO NEUPROLER- #3	1625	6/20/96	45.0	145tspd.xl	-4	2.200	0.021	0.1300
44012.0	PORT HUENEME-WHARF B	1626	6/19/96	45.0	145tspd.xl	-4	5.700	0.035	0.0482
44013.0	PORT HUENEME-WHARF #1	1627	6/19/96	45.0	145tspd.xl	-4	4.900	0.070	0.1199
44027.0	MCGRATH LAKE ESTUARY	1628	6/19/96	45.0	145tspd.xl	-4	1.200	0.035	0.0026
44054.0	MUGU/ENTRANCE-REP 1	1629	6/19/96	45.0	145tspd.xl	-4	4.400	0.181	0.0238
44014.0	MARINA DEL REY	1630	6/19/96	45.0	145tspd.xl	-4	0.980	0.016	0.0020
44020.0	SHORELINE MARINA	1631	6/20/96	45.0	145tspd.xl	-4	5.500	0.212	0.0429
44012.0	SOUTHEAST BASIN	1632	6/20/96	45.0	145tspd.xl	-4	1.400	0.034	0.0246

Section 7

Strongylocentrotus purpuratus Development in Intact Sediment Cores

Strongylocentrotus purpuratus Development Toxicity Test for Intact Sediment Cores

STANUM	STATION	IDORG	DATE	LEG	SPDI_MN	SPDI_SD	SPDI_SG	SPDI_TOX	SPDI_BATCH	SPDIQC	SPDI_OTNH3
	CONTROL-C1			45.0	94.00	2.00	-9	-9	l45tswi.xl	-4	0.620
	CONTROL-C1			48.0	96.00	4.00	-9	-9	l48tspdswi	-4	1.100
48001.0	MARINA DEL REY - A1 (X1)	1686	2/5/97	48.0	91.00	7.00	ns	NT	l48tspdswi	-4	-8.000
48002.0	MARINA DEL REY - A2 (X2)	1687	2/5/97	48.0	38.00	28.00	*	T	l48tspdswi	-4	2.500
48003.0	MARINA DEL REY - B1 (X1)	1688	2/5/97	48.0	78.00	21.00	ns	NT	l48tspdswi	-4	2.800
48004.0	MARINA DEL REY - B2 (X1)	1689	2/5/97	48.0	90.00	8.00	ns	NT	l48tspdswi	-4	1.400
48005.0	MARINA DEL REY - C1 (X1)	1690	2/5/97	48.0	57.00	39.00	*	NT	l48tspdswi	-4	5.100
48006.0	SHORELINE MARINA A1 (X1)	1691	2/4/97	48.0	86.00	12.00	ns	NT	l48tspdswi	-4	1.900
48007.0	SHORELINE MARINA B1 (X1)	1692	2/4/97	48.0	98.00	2.00	ns	NT	l48tspdswi	-4	0.450
48008.0	SHORELINE MARINA C1 (X1)	1693	2/4/97	48.0	96.00	2.00	ns	NT	l48tspdswi	-4	1.100
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	95.00	6.00	ns	NT	l48tspdswi	-4	1.300
40018.3	LONG BEACH OUTER HARBOR - 18	1695	2/4/97	48.0	97.00	4.00	ns	NT	l48tspdswi	-4	0.600
40020.2	LONG BEACH OUTER HARBOR - 20	1696	2/4/97	48.0	95.00	2.00	ns	NT	l48tspdswi	-4	2.000
48010.0	TURNING BASIN	1697	2/4/97	48.0	72.00	41.00	ns	NT	l48tspdswi	-4	37.000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	93.00	7.00	ns	NT	l48tspdswi	-4	2.900
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	97.00	4.00	ns	NT	l48tspdswi	-4	1.300
48011.0	KING HARBOR	1700	2/5/97	48.0	66.00	33.00	ns	NT	l48tspdswi	-5	2.600
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	65.00	30.00	*	NT	l48tspdswi	-4	3.500
48012.0	CHANNEL IS. HARBOR - FRONT	1702	2/3/97	48.0	92.00	5.00	ns	NT	l48tspdswi	-4	2.000
48013.0	WEST MUGU LAGOON - A1 (X2)	1703	2/6/97	48.0	97.00	2.00	ns	NT	l48tspdswi	-5	1.400
48014.0	WEST MUGU LAGOON - A2 (X3)	1704	2/6/97	48.0	82.00	16.00	ns	NT	l48tspdswi	-5	3.900
48015.0	CENTRAL MUGU LAGOON - B1 (X4)	1705	2/6/97	48.0	98.00	3.00	ns	NT	l48tspdswi	-4	1.800
48016.0	CENTRAL MUGU LAGOON - B2 (X3)	1706	2/6/97	48.0	89.00	12.00	ns	NT	l48tspdswi	-5	1.800
48017.0	EAST MUGU LAGOON - C1 (X1)	1707	2/6/97	48.0	13.00	14.00	*	T	l48tspdswi	-5	5.800
48018.0	EAST MUGU LAGOON - C2 (X2)	1708	2/6/97	48.0	22.00	42.00	*	T	l48tspdswi	-5	5.900
	CONTROL-C1			53.0	100.00	0.00	-9	-9	l53tspdswi	-4	0.790
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	63.00	43.00	ns	NT	l53tspdswi	-4	0.560
40018.0	LONG BEACH OUTER HARBOR 18	1770	5/13/97	53.0	96.00	6.00	ns	NT	l53tspdswi	-4	0.360
40020.0	LONG BEACH OUTER HARBOR 20	1771	5/13/97	53.0	89.00	3.00	*	NT	l53tspdswi	-4	0.670
48010.0	TURNING BASIN	1772	5/13/97	53.0	87.00	9.00	*	NT	l53tspdswi	-4	1.100
40015.0	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	96.00	4.00	*	NT	l53tspdswi	-4	1.500
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	93.00	12.00	ns	NT	l53tspdswi	-4	0.610
48011.0	KING HARBOR	1775	5/12/97	53.0	3.00	5.00	*	T	l53tspdswi	-4	7.000
40023.0	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	51.00	35.00	*	T	l53tspdswi	-4	5.300
48012.0	CHANNEL IS. HARBOR - FRONT	1777	5/12/97	53.0	70.00	41.00	ns	NT	l53tspdswi	-4	3.900
49001.0	CABRILLO BEACH PIER - WEST	1778	5/13/97	53.0	-9.00	-9.00	-9	-9	l53tspdswi	-9	-9.000
49002.0	CABRILLO BEACH PIER - CENTRAL	1779	5/13/97	53.0	-9.00	-9.00	-9	-9	l53tspdswi	-9	-9.000
49003.0	CABRILLO BEACH PIER - EAST	1780	5/13/97	53.0	-9.00	-9.00	-9	-9	l53tspdswi	-9	-9.000

Strongylocentrotus purpuratus Development Toxicity Test for Intact Sediment Cores

STANUM	STATION	IDORG	DATE	LEG	SPDI_MN	SPDI_SD	SPDI_SG	SPDI_TOX	SPDI_BATCH	SPDIQC	SPDI_OTNH3
	CONTROL-C1			54.0	97.00	1.00	-9	-9	154tspdswi	-4	1.300
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-9.00	-9.00	-9	-9	-9	-9	-9.000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	-9.00	-9.00	-9	-9	-9	-9	-9.000

Strongylocentrotus purpuratus Development Toxicity Test for Intact Sediment Cores

STANUM	STATION	IDORG	DATE	LEG	SPDI_OUNH3	SPDI_OH2S
	CONTROL-C1			45.0	0.015	-9.0000
	CONTROL-C1			48.0	0.030	-9.0000
48001.0	MARINA DEL REY - A1 (X1)	1686	2/5/97	48.0	-8.000	-8.0000
48002.0	MARINA DEL REY - A2 (X2)	1687	2/5/97	48.0	0.022	-8.0000
48003.0	MARINA DEL REY - B1 (X1)	1688	2/5/97	48.0	0.038	-8.0000
48004.0	MARINA DEL REY - B2 (X1)	1689	2/5/97	48.0	0.018	-8.0000
48005.0	MARINA DEL REY - C1 (X1)	1690	2/5/97	48.0	0.073	-8.0000
48006.0	SHORELINE MARINA A1 (X1)	1691	2/4/97	48.0	0.023	-8.0000
48007.0	SHORELINE MARINA B1 (X1)	1692	2/4/97	48.0	0.006	-8.0000
48008.0	SHORELINE MARINA C1 (X1)	1693	2/4/97	48.0	0.013	-8.0000
48009.0	SAN PEDRO BAY OUTER HARBOR	1694	2/4/97	48.0	0.017	-8.0000
40018.3	LONG BEACH OUTER HARBOR - 18	1695	2/4/97	48.0	0.010	-8.0000
40020.2	LONG BEACH OUTER HARBOR - 20	1696	2/4/97	48.0	0.027	-8.0000
48010.0	TURNING BASIN	1697	2/4/97	48.0	0.474	-8.0000
40015.1	FISH HARBOR ENTRANCE	1698	2/4/97	48.0	0.037	-8.0000
40009.0	WEST BASIN ENTRANCE	1699	2/4/97	48.0	0.026	-8.0000
48011.0	KING HARBOR	1700	2/5/97	48.0	0.036	-8.0000
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	2/4/97	48.0	0.041	-8.0000
48012.0	CHANNEL IS. HARBOR - FRONT	1702	2/3/97	48.0	0.027	-8.0000
48013.0	WEST MUGU LAGOON - A1 (X2)	1703	2/6/97	48.0	0.010	-8.0000
48014.0	WEST MUGU LAGOON - A2 (X3)	1704	2/6/97	48.0	0.037	-8.0000
48015.0	CENTRAL MUGU LAGOON - B1 (X4)	1705	2/6/97	48.0	0.030	-8.0000
48016.0	CENTRAL MUGU LAGOON - B2 (X3)	1706	2/6/97	48.0	0.021	-8.0000
48017.0	EAST MUGU LAGOON - C1 (X1)	1707	2/6/97	48.0	0.065	0.0074
48018.0	EAST MUGU LAGOON - C2 (X2)	1708	2/6/97	48.0	0.081	-8.0000
	CONTROL-C1			53.0	0.013	-9.0000
48009.0	SAN PEDRO BAY OUTER HARBOR	1769	5/13/97	53.0	0.012	0.0014
40018.0	LONG BEACH OUTER HARBOR 18	1770	5/13/97	53.0	0.008	0.0072
40020.0	LONG BEACH OUTER HARBOR 20	1771	5/13/97	53.0	0.015	0.0078
48010.0	TURNING BASIN	1772	5/13/97	53.0	0.020	0.0035
40015.0	FISH HARBOR ENTRANCE	1773	5/13/97	53.0	0.038	0.0020
40009.0	WEST BASIN ENTRANCE	1774	5/13/97	53.0	0.014	0.0096
48011.0	KING HARBOR	1775	5/12/97	53.0	0.241	0.0038
40023.0	ALAMITOS BAY-LONG BEACH MARINA	1776	5/13/97	53.0	0.150	0.0139
48012.0	CHANNEL IS. HARBOR - FRONT	1777	5/12/97	53.0	0.115	0.0037
49001.0	CABRILLO BEACH PIER - WEST	1778	5/13/97	53.0	-9.000	-9.0000
49002.0	CABRILLO BEACH PIER - CENTRAL	1779	5/13/97	53.0	-9.000	-9.0000
49003.0	CABRILLO BEACH PIER - EAST	1780	5/13/97	53.0	-9.000	-9.0000

Strongylocentrotus purpuratus Development Toxicity Test for Intact Sediment Cores

STANUM	STATION	IDORG	DATE	LEG	SPDI_OUNH3	SPDI_OH2S
	CONTROL-C1			54.0	0.030	0.0038
49004.0	KAISER INTL.- BERTH 49	1793	8/21/97	54.0	-9.000	-9.0000
49005.0	KAISER INTL.- BERTH 48	1794	8/21/97	54.0	-9.000	-9.0000

Section 8

Mytilus Larval Shell Development in Subsurface Water

Mytilus Larval Shell Toxicity Test for Subsurface Water

STANUM	STATION	IDORG	DATE	LEG	MES100_MN	MES100_SD	MES100_SG	MES100_TOX	MES_OUNH3	MES_OTNH3	MES_OH2S
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	72.70	8.40	ns	NT	0.008	-9.000	-9.0000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44016.0	MUGU LAGOON	616	1/12/93	11.0	73.70	8.90	ns	NT	0.012	-9.000	-9.0000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	76.50	6.30	ns	NT	-8.000	-9.000	-9.0000
44018.0	MALIBU LAGOON	618	1/13/93	11.0	41.50	2.40	*	T	0.006	-9.000	-9.0000
44020.0	SHORELINE MARINA	620	1/14/93	11.0	73.00	15.00	ns	NT	0.006	-9.000	-9.0000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44024.0	BALLONA CREEK	624	1/14/93	11.0	58.50	9.60	*	NT	0.011	-9.000	-9.0000
44026.0	SIM'S POND	626	1/14/93	11.0	71.50	20.20	ns	NT	-8.000	-9.000	-9.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	73.30	4.60	*	NT	0.010	-9.000	-9.0000
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	78.70	7.00	ns	NT	0.008	-9.000	-9.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	75.30	5.60	ns	NT	-8.000	-9.000	-9.0000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	100.00	0.00	ns	NT	0.017	-9.000	-9.0000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	100.00	0.00	*	T	0.016	-9.000	-9.0000

Mytilus Larval Shell Toxicity Test for Subsurface Water

STANUM	STATION	IDORG	DATE	LEG	MES_BATCH	MESQC
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9	-9
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9	-9
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9	-9
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9	-9
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9	-9
44026.0	SIM'S POND	626	1/14/93	11.0	-9	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9	-9
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9	-9
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9	-9
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9	-9
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9	-9

Section 9

Mytilus Larval Shell Development in Porewater

Mytilus Larval Shell Development Toxicity Test for Porewater

STANUM	STATION	IDORG	DATE	LEG	MEP100_MN	MEP100_SD	MEP100_SG	MEP100_TOX	MEP_ITNH3	MEP_IUNH3	MEP_IH2S
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	100.00	0.00	*	NT	-9.000	0.200	-8.0000
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44016.0	MUGU LAGOON	616	1/12/93	11.0	100.00	0.00	*	NT	-9.000	0.077	-8.0000
44017.0	COLORADO LAGOON	617	1/14/93	11.0	0.20	0.40	*	T	-9.000	0.448	0.0025
44018.0	MALIBU LAGOON	618	1/13/93	11.0	100.00	0.00	*	NT	-9.000	0.097	0.0004
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44026.0	SIM'S POND	626	1/14/93	11.0	46.70	7.90	*	T	-9.000	0.194	-8.0000
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	4.00	8.90	*	T	-9.000	0.597	-8.0000
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	100.00	0.00	*	NT	-9.000	0.070	-8.0000
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	100.00	0.00	ns	NT	-9.000	0.019	-8.0000
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	100.00	0.00	ns	NT	-9.000	0.022	-8.0000

Mytilus Larval Shell Development Toxicity Test for Porewater

STANUM	STATION	IDORG	DATE	LEG	MEP_BATCH	MEPQC
44011.0	LOS CERRITOS CHNL TIDAL P	611	1/14/93	11.0	-9	-9
44012.0	PORT HUENEME- WHARF B	612	1/13/93	11.0	-9	-9
44013.0	PORT HUENEME- WHARF #1	613	1/12/93	11.0	-9	-9
44014.0	MARINA DEL REY	614	1/14/93	11.0	-9	-9
44016.0	MUGU LAGOON	616	1/12/93	11.0	-9	-9
44017.0	COLORADO LAGOON	617	1/14/93	11.0	-9	-9
44018.0	MALIBU LAGOON	618	1/13/93	11.0	-9	-9
44020.0	SHORELINE MARINA	620	1/14/93	11.0	-9	-9
44021.0	VENTURA MARINA	621	1/13/93	11.0	-9	-9
44023.0	CHANNEL ISLANDS HARBOR	623	1/13/93	11.0	-9	-9
44024.0	BALLONA CREEK	624	1/14/93	11.0	-9	-9
44026.0	SIM'S POND	626	1/14/93	11.0	-9	-9
44027.0	MCGRATH LAKE ESTUARY	627	1/13/93	11.0	-9	-9
44050.0	CALLEGUS/OXNARD DITCH #3	651	1/12/93	11.0	-9	-9
44051.0	MUGU/MAIN LAGOON	652	1/12/93	11.0	-9	-9
44052.0	MUGU/WESTERN ARM	653	1/12/93	11.0	-9	-9
44053.0	MUGU/OXNARD DITCH #1	654	1/12/93	11.0	-9	-9
44054.0	MUGU/ENTRANCE	655	1/12/93	11.0	-9	-9
44022.0	VENTURA RIVER ESTUARY	622	2/10/93	13.0	-9	-9
44025.0	SANTA CLARA RIVER ESTUARY	625	2/10/93	13.0	-9	-9

Section 10

Neanthes arenaceodentata Survival in Sediment

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NASURV_MN	NASURV_SD	NASURV_SG	NASURV_TOX	NAWT_MN	NAWT_SD	NAWT_SG
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	96.00	8.90	ns	NT	13.80	3.20	ns
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	100.00	0.00	ns	NT	13.30	2.20	ns
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	100.00	0.00	ns	NT	13.20	2.10	ns
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	76.00	43.40	ns	NT	12.10	1.70	ns
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	100.00	0.00	ns	NT	13.40	3.30	ns
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	92.00	11.00	ns	NT	13.20	1.20	ns
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	100.00	0.00	ns	NT	12.10	2.30	ns
	CONTROL-CH3			25.0	100.00	0.00	-9	-9	12.20	4.63	-9
	CONTROL-CH2			25.0	100.00	0.00	-9	-9	11.52	3.92	-9
	CONTROL-CH1			25.0	100.00	0.00	-9	-9	10.76	2.07	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	100.00	0.00	ns	NT	11.18	4.33	ns
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	100.00	0.00	ns	NT	9.35	3.42	ns
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	92.00	10.95	ns	NT	9.64	3.03	ns
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	92.00	10.95	ns	NT	6.52	2.66	*
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	96.00	8.94	ns	NT	8.78	2.95	ns
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	88.00	17.89	ns	NT	11.71	2.21	ns
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	92.00	17.89	ns	NT	9.55	4.75	ns
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	84.00	21.91	ns	NT	11.94	4.46	ns
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	100.00	0.00	ns	NT	9.64	2.96	ns
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	100.00	0.00	ns	NT	8.02	1.85	*
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	84.00	16.73	ns	NT	12.73	2.66	ns
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	96.00	8.94	ns	NT	8.85	4.74	ns
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	88.00	10.95	ns	NT	11.17	5.29	ns
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	100.00	0.00	ns	NT	9.47	2.88	ns
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	96.00	8.94	ns	NT	11.09	2.66	ns
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	96.00	8.94	ns	NT	10.58	2.54	ns
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	88.00	17.89	ns	NT	13.69	5.54	ns
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	92.00	10.95	ns	NT	8.14	1.96	*
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	96.00	8.94	ns	NT	11.18	3.31	ns
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	92.00	10.95	ns	NT	9.88	4.92	ns
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	88.00	17.89	ns	NT	9.68	2.18	ns
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	88.00	17.89	ns	NT	8.26	3.31	ns
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	96.00	8.94	ns	NT	9.02	1.40	ns
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	96.00	8.94	ns	NT	10.70	3.39	ns
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	100.00	0.00	ns	NT	10.58	0.85	ns
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	100.00	0.00	ns	NT	9.69	1.22	ns
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	96.00	8.94	ns	NT	11.16	3.38	ns
	CONTROL-CH1			26.0	95.00	10.00	-9	-9	4.51	2.71	-9
	CONTROL-CH3			26.0	100.00	0.00	-9	-9	3.66	0.75	-9
	CONTROL-CH2			26.0	92.00	11.00	-9	-9	4.59	1.93	-9

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NASURV_MN	NASURV_SD	NASURV_SG	NASURV_TOX	NAWT_MN	NAWT_SD	NAWT_SG
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	88.00	10.95	ns	NT	3.05	0.85	ns
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	96.00	8.94	ns	NT	5.21	1.76	ns
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	76.00	21.91	ns	NT	3.20	0.69	ns
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	92.00	10.95	ns	NT	4.99	3.87	ns
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	84.00	16.73	ns	NT	3.55	1.42	ns
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	84.00	35.78	ns	NT	2.92	0.89	ns
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	88.00	17.89	ns	NT	2.74	0.46	ns
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	92.00	17.89	ns	NT	2.49	0.80	ns
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	100.00	0.00	ns	NT	2.88	1.27	ns
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	80.00	20.00	ns	NT	3.70	2.00	ns
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	64.00	21.91	ns	NT	4.09	2.15	ns
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	92.00	17.89	ns	NT	5.07	2.76	ns
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	88.00	10.95	ns	NT	3.12	1.01	ns
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	92.00	17.89	ns	NT	3.74	0.66	ns
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	92.00	10.95	ns	NT	3.77	1.18	ns
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	84.00	35.78	ns	NT	3.02	1.06	ns
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	92.00	10.95	ns	NT	3.51	1.20	ns
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	36.00	40.99	ns	NT	3.21	0.93	ns
	CONTROL-CH1			30.0	88.00	11.00	-9	-9	3.78	1.36	-9
	CONTROL-CH2			30.0	96.00	8.90	-9	-9	7.52	2.90	-9
	CONTROL-CH3			30.0	72.00	41.50	-9	-9	4.88	0.70	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	80.00	28.28	ns	NT	9.17	3.81	ns
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	80.00	44.72	ns	NT	7.02	3.31	ns
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	92.00	17.89	ns	NT	8.63	2.18	ns
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	92.00	10.95	ns	NT	4.72	2.11	ns
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	100.00	0.00	ns	NT	6.26	2.96	ns
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	96.00	8.94	ns	NT	6.21	2.76	ns
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	88.00	17.89	ns	NT	7.16	4.32	ns
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	84.00	16.73	ns	NT	9.45	3.30	ns
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	92.00	17.89	ns	NT	8.35	3.05	ns
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	68.00	30.33	*	NT	4.83	1.02	ns
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	92.00	10.95	*	NT	6.76	3.75	ns
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	88.00	10.95	ns	NT	6.51	1.30	ns
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	56.00	38.47	ns	NT	6.71	3.87	ns
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	80.00	20.00	ns	NT	7.50	1.84	ns
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	100.00	0.00	ns	NT	9.47	5.20	ns
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	88.00	10.95	ns	NT	6.74	3.12	ns
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	72.00	17.89	ns	NT	8.21	2.97	ns
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	96.00	8.94	ns	NT	5.15	2.04	ns
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	92.00	10.95	ns	NT	4.33	1.23	*

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NASURV_MN	NASURV_SD	NASURV_SG	NASURV_TOX	NAWT_MN	NAWT_SD	NAWT_SG
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	72.00	41.47	ns	NT	3.11	0.43	*
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	92.00	17.89	ns	NT	4.67	1.46	*
	CONTROL-CH2			32.0	-9.00	-9.00	-9	-9	-9.00	-9.00	-9
	CONTROL-CH3			32.0	-9.00	-9.00	-9	-9	-9.00	-9.00	-9
	CONTROL-CH1			32.0	96.00	9.00	-9	-9	10.99	3.94	-9
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	96.00	8.94	ns	NT	7.60	0.98	ns
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	96.00	8.94	ns	NT	6.12	2.14	*
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	76.00	21.91	*	NT	6.26	1.62	*
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	96.00	8.94	ns	NT	9.01	2.38	ns

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAWT_TOX	NA_OTNH3	NA_OUNH3	NA_OH2S	NA_ITNH3	NA_IUNH3	NA_IH2S	NA_BATCH
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	NT	-9.000	0.368	-8.0000	-9.000	-9.000	-9.0000	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	NT	-9.000	0.280	-8.0000	-9.000	-9.000	-9.0000	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	NT	-9.000	0.172	-8.0000	-9.000	-9.000	-9.0000	-9
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	NT	-9.000	0.201	-8.0000	-9.000	-9.000	-9.0000	-9
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	NT	-9.000	0.194	-8.0000	-9.000	-9.000	-9.0000	-9
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	NT	-9.000	0.200	-8.0000	-9.000	-9.000	-9.0000	-9
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	NT	-9.000	0.141	-8.0000	-9.000	-9.000	-9.0000	-9
	CONTROL-CH3			25.0	-9	3.120	0.127	-8.0000	-9.000	-9.000	-9.0000	-9
	CONTROL-CH2			25.0	-9	2.910	0.068	0.0026	-9.000	-9.000	-9.0000	-9
	CONTROL-CH1			25.0	-9	2.750	0.079	-8.0000	-9.000	-9.000	-9.0000	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	NT	5.250	0.411	0.0008	-9.000	-9.000	-9.0000	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	NT	4.100	0.098	-8.0000	-9.000	-9.000	-9.0000	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	NT	3.800	0.179	-8.0000	-9.000	-9.000	-9.0000	-9
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	NT	3.300	0.121	-8.0000	-9.000	-9.000	-9.0000	-9
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	NT	0.980	0.029	-8.0000	-9.000	-9.000	-9.0000	-9
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	NT	2.300	0.097	-8.0000	-9.000	-9.000	-9.0000	-9
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	NT	3.100	0.121	-8.0000	-9.000	-9.000	-9.0000	-9
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	NT	2.500	0.093	-8.0000	-9.000	-9.000	-9.0000	-9
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	NT	2.900	0.087	-8.0000	-9.000	-9.000	-9.0000	-9
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	NT	2.900	0.087	-8.0000	-9.000	-9.000	-9.0000	-9
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	NT	4.000	0.120	-8.0000	-9.000	-9.000	-9.0000	-9
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	NT	3.500	0.105	-8.0000	-9.000	-9.000	-9.0000	-9
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	NT	3.050	0.109	-8.0000	-9.000	-9.000	-9.0000	-9
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	NT	4.700	0.099	-8.0000	-9.000	-9.000	-9.0000	-9
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	NT	2.900	0.069	-8.0000	-9.000	-9.000	-9.0000	-9
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	NT	4.200	0.125	-8.0000	-9.000	-9.000	-9.0000	-9
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	NT	5.710	0.163	-8.0000	-9.000	-9.000	-9.0000	-9
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	NT	5.760	0.236	-8.0000	-9.000	-9.000	-9.0000	-9
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	NT	4.300	0.128	-8.0000	-9.000	-9.000	-9.0000	-9
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	NT	4.400	0.105	-8.0000	-9.000	-9.000	-9.0000	-9
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	NT	4.500	0.107	-8.0000	-9.000	-9.000	-9.0000	-9
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	NT	3.800	0.114	-8.0000	-9.000	-9.000	-9.0000	-9
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	NT	4.000	0.120	-8.0000	-9.000	-9.000	-9.0000	-9
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	NT	3.400	0.102	-8.0000	-9.000	-9.000	-9.0000	-9
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	NT	3.000	0.112	-8.0000	-9.000	-9.000	-9.0000	-9
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	NT	2.900	0.108	-8.0000	-9.000	-9.000	-9.0000	-9
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	NT	1.700	0.063	-8.0000	-9.000	-9.000	-9.0000	-9
	CONTROL-CH1			26.0	-9	3.500	0.497	0.0018	-9.000	-9.000	-9.0000	-9
	CONTROL-CH3			26.0	-9	3.800	0.125	-8.0000	-9.000	-9.000	-9.0000	-9
	CONTROL-CH2			26.0	-9	3.600	0.152	-8.0000	-9.000	-9.000	-9.0000	-9

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAWT_TOX	NA_OTNH3	NA_OUNH3	NA_OH2S	NA_ITNH3	NA_IUNH3	NA_IH2S	NA_BATCH
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	NT	4.600	0.161	-8.0000	-9.000	-9.000	-9.0000	-9
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	NT	5.300	0.226	-8.0000	-9.000	-9.000	-9.0000	-9
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	NT	5.600	0.219	-8.0000	-9.000	-9.000	-9.0000	-9
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	NT	5.800	0.373	-8.0000	-9.000	-9.000	-9.0000	-9
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	NT	4.800	0.202	-8.0000	-9.000	-9.000	-9.0000	-9
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	NT	5.400	0.245	-8.0000	-9.000	-9.000	-9.0000	-9
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	NT	6.900	0.193	-8.0000	-9.000	-9.000	-9.0000	-9
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	NT	4.400	0.144	-8.0000	-9.000	-9.000	-9.0000	-9
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	NT	3.700	0.217	-8.0000	-9.000	-9.000	-9.0000	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	NT	10.000	0.519	-8.0000	-9.000	-9.000	-9.0000	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	NT	8.100	0.330	-8.0000	-9.000	-9.000	-9.0000	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	NT	8.200	0.344	-8.0000	-9.000	-9.000	-9.0000	-9
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	NT	2.800	0.115	-8.0000	-9.000	-9.000	-9.0000	-9
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	NT	3.300	0.119	-8.0000	-9.000	-9.000	-9.0000	-9
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	NT	4.900	0.204	-8.0000	-9.000	-9.000	-9.0000	-9
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	NT	6.300	0.901	-8.0000	-9.000	-9.000	-9.0000	-9
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	NT	7.200	0.464	-8.0000	-9.000	-9.000	-9.0000	-9
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	NT	7.800	0.363	-8.0000	-9.000	-9.000	-9.0000	-9
	CONTROL-CH1			30.0	-9	6.710	0.256	0.0007	-9.000	-9.000	-9.0000	-9
	CONTROL-CH2			30.0	-9	6.200	0.170	0.0009	-9.000	-9.000	-9.0000	-9
	CONTROL-CH3			30.0	-9	6.200	0.194	0.0007	-9.000	-9.000	-9.0000	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	NT	8.210	0.245	0.0019	8.100	0.088	0.0260	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	NT	8.620	0.282	0.0022	-9.000	-9.000	-9.0000	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	NT	8.400	0.274	0.0012	-9.000	-9.000	-9.0000	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	NT	7.960	0.236	0.0069	13.000	0.047	0.0308	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	NT	8.980	0.240	0.0162	-9.000	-9.000	-9.0000	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	NT	6.650	0.190	0.0044	-9.000	-9.000	-9.0000	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	NT	4.200	0.088	0.0027	12.000	0.053	0.0309	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	NT	6.500	0.137	0.0014	-9.000	-9.000	-9.0000	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	NT	7.100	0.162	0.0086	-9.000	-9.000	-9.0000	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	NT	10.000	0.279	0.0007	25.000	0.201	0.0246	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	NT	8.500	0.379	0.0008	-9.000	-9.000	-9.0000	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	NT	9.200	0.288	0.0019	-9.000	-9.000	-9.0000	-9
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	NT	12.000	0.380	0.0077	22.000	0.562	0.0344	-9
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	NT	11.000	0.363	0.0092	-9.000	-9.000	-9.0000	-9
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	NT	8.430	0.344	0.0021	-9.000	-9.000	-9.0000	-9
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	NT	8.390	0.342	0.0011	27.000	0.335	0.0203	-9
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	NT	11.000	0.368	0.0092	-9.000	-9.000	-9.0000	-9
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	NT	9.860	0.385	0.0072	-9.000	-9.000	-9.0000	-9
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	NT	12.700	0.618	0.0071	46.000	0.583	0.0512	-9

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAWT_TOX	NA_OTNH3	NA_OUNH3	NA_OH2S	NA_ITNH3	NA_IUNH3	NA_IH2S	NA_BATCH
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	NT	14.500	0.578	0.0045	-9.000	-9.000	-9.0000	-9
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	NT	14.900	0.435	0.0361	-9.000	-9.000	-9.0000	-9
	CONTROL-CH2			32.0	-9	-9.000	-9.000	-9.0000	-9.000	-9.000	-9.0000	-9
	CONTROL-CH3			32.0	-9	-9.000	-9.000	-9.0000	-9.000	-9.000	-9.0000	-9
	CONTROL-CH1			32.0	-9	9.500	0.189	-8.0000	-9.000	-9.000	-9.0000	-9
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	NT	8.200	0.196	0.0027	4.100	0.019	0.0083	-9
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	NT	9.400	0.275	0.0020	7.000	0.045	0.0043	-9
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	NT	8.000	0.267	0.0019	2.900	0.016	0.0039	-9
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	NT	5.800	0.142	0.0026	2.700	0.012	0.0240	-9

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAQC
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-9
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-9
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-9
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-9
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-9
	CONTROL-CH3			25.0	-9
	CONTROL-CH2			25.0	-9
	CONTROL-CH1			25.0	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-9
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-9
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-9
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-9
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	-9
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-9
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-9
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	-9
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	-9
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	-9
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-9
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-9
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-9
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-9
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-9
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-9
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-9
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-9
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-9
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-9
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	-9
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	-9
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	-9
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-9
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-9
	CONTROL-CH1			26.0	-9
	CONTROL-CH3			26.0	-9
	CONTROL-CH2			26.0	-9

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAQC
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-9
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	-9
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-9
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-9
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	-9
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-9
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-9
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-9
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-9
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-9
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	-9
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-9
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	-9
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	-9
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	-9
	CONTROL-CH1			30.0	-9
	CONTROL-CH2			30.0	-9
	CONTROL-CH3			30.0	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	-9
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	-9
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	-9
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	-9
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	-9
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	-9
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	-9
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	-9

Neanthes arenaceodentata Survival Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAQC
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	-9
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	-9
	CONTROL-CH2			32.0	-9
	CONTROL-CH3			32.0	-9
	CONTROL-CH1			32.0	-9
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	-9
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	-9
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	-9
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	-9

Section 11

Neanthes arenaceodentata Weight Change in Sediment

Neanthes arenaceodentata Weight Change Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAWT_MN	NAWT_SD	NAWT_SG	NAWT_TOX	NA_OTNH3	NA_OUNH3	NA_OH2S	NA_ITNH3
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	13.80	3.20	ns	NT	-9.000	0.368	-8.0000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	13.30	2.20	ns	NT	-9.000	0.280	-8.0000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	13.20	2.10	ns	NT	-9.000	0.172	-8.0000	-9.000
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	12.10	1.70	ns	NT	-9.000	0.201	-8.0000	-9.000
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	13.40	3.30	ns	NT	-9.000	0.194	-8.0000	-9.000
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	13.20	1.20	ns	NT	-9.000	0.200	-8.0000	-9.000
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	12.10	2.30	ns	NT	-9.000	0.141	-8.0000	-9.000
	CONTROL-CH3			25.0	12.20	4.63	-9	-9	3.120	0.127	-8.0000	-9.000
	CONTROL-CH2			25.0	11.52	3.92	-9	-9	2.910	0.068	0.0026	-9.000
	CONTROL-CH1			25.0	10.76	2.07	-9	-9	2.750	0.079	-8.0000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	11.18	4.33	ns	NT	5.250	0.411	0.0008	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	9.35	3.42	ns	NT	4.100	0.098	-8.0000	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	9.64	3.03	ns	NT	3.800	0.179	-8.0000	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	6.52	2.66	*	NT	3.300	0.121	-8.0000	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	8.78	2.95	ns	NT	0.980	0.029	-8.0000	-9.000
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	11.71	2.21	ns	NT	2.300	0.097	-8.0000	-9.000
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	9.55	4.75	ns	NT	3.100	0.121	-8.0000	-9.000
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	11.94	4.46	ns	NT	2.500	0.093	-8.0000	-9.000
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	9.64	2.96	ns	NT	2.900	0.087	-8.0000	-9.000
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	8.02	1.85	*	NT	2.900	0.087	-8.0000	-9.000
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	12.73	2.66	ns	NT	4.000	0.120	-8.0000	-9.000
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	8.85	4.74	ns	NT	3.500	0.105	-8.0000	-9.000
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	11.17	5.29	ns	NT	3.050	0.109	-8.0000	-9.000
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	9.47	2.88	ns	NT	4.700	0.099	-8.0000	-9.000
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	11.09	2.66	ns	NT	2.900	0.069	-8.0000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	10.58	2.54	ns	NT	4.200	0.125	-8.0000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	13.69	5.54	ns	NT	5.710	0.163	-8.0000	-9.000
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	8.14	1.96	*	NT	5.760	0.236	-8.0000	-9.000
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	11.18	3.31	ns	NT	4.300	0.128	-8.0000	-9.000
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	9.88	4.92	ns	NT	4.400	0.105	-8.0000	-9.000
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	9.68	2.18	ns	NT	4.500	0.107	-8.0000	-9.000
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	8.26	3.31	ns	NT	3.800	0.114	-8.0000	-9.000
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	9.02	1.40	ns	NT	4.000	0.120	-8.0000	-9.000
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	10.70	3.39	ns	NT	3.400	0.102	-8.0000	-9.000
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	10.58	0.85	ns	NT	3.000	0.112	-8.0000	-9.000
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	9.69	1.22	ns	NT	2.900	0.108	-8.0000	-9.000
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	11.16	3.38	ns	NT	1.700	0.063	-8.0000	-9.000
	CONTROL-CH1			26.0	4.51	2.71	-9	-9	3.500	0.497	0.0018	-9.000
	CONTROL-CH3			26.0	3.66	0.75	-9	-9	3.800	0.125	-8.0000	-9.000
	CONTROL-CH2			26.0	4.59	1.93	-9	-9	3.600	0.152	-8.0000	-9.000

Neanthes arenaceodentata Weight Change Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAWT_MN	NAWT_SD	NAWT_SG	NAWT_TOX	NA_OTNH3	NA_OUNH3	NA_OH2S	NA_ITNH3
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	3.05	0.85	ns	NT	4.600	0.161	-8.0000	-9.000
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	5.21	1.76	ns	NT	5.300	0.226	-8.0000	-9.000
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	3.20	0.69	ns	NT	5.600	0.219	-8.0000	-9.000
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	4.99	3.87	ns	NT	5.800	0.373	-8.0000	-9.000
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	3.55	1.42	ns	NT	4.800	0.202	-8.0000	-9.000
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	2.92	0.89	ns	NT	5.400	0.245	-8.0000	-9.000
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	2.74	0.46	ns	NT	6.900	0.193	-8.0000	-9.000
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	2.49	0.80	ns	NT	4.400	0.144	-8.0000	-9.000
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	2.88	1.27	ns	NT	3.700	0.217	-8.0000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	3.70	2.00	ns	NT	10.000	0.519	-8.0000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	4.09	2.15	ns	NT	8.100	0.330	-8.0000	-9.000
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	5.07	2.76	ns	NT	8.200	0.344	-8.0000	-9.000
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	3.12	1.01	ns	NT	2.800	0.115	-8.0000	-9.000
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	3.74	0.66	ns	NT	3.300	0.119	-8.0000	-9.000
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	3.77	1.18	ns	NT	4.900	0.204	-8.0000	-9.000
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	3.02	1.06	ns	NT	6.300	0.901	-8.0000	-9.000
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	3.51	1.20	ns	NT	7.200	0.464	-8.0000	-9.000
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	3.21	0.93	ns	NT	7.800	0.363	-8.0000	-9.000
	CONTROL-CH1			30.0	3.78	1.36	-9	-9	6.710	0.256	0.0007	-9.000
	CONTROL-CH2			30.0	7.52	2.90	-9	-9	6.200	0.170	0.0009	-9.000
	CONTROL-CH3			30.0	4.88	0.70	-9	-9	6.200	0.194	0.0007	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	9.17	3.81	ns	NT	8.210	0.245	0.0019	8.100
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	7.02	3.31	ns	NT	8.620	0.282	0.0022	-9.000
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	8.63	2.18	ns	NT	8.400	0.274	0.0012	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	4.72	2.11	ns	NT	7.960	0.236	0.0069	13.000
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	6.26	2.96	ns	NT	8.980	0.240	0.0162	-9.000
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	6.21	2.76	ns	NT	6.650	0.190	0.0044	-9.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	7.16	4.32	ns	NT	4.200	0.088	0.0027	12.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	9.45	3.30	ns	NT	6.500	0.137	0.0014	-9.000
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	8.35	3.05	ns	NT	7.100	0.162	0.0086	-9.000
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	4.83	1.02	ns	NT	10.000	0.279	0.0007	25.000
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	6.76	3.75	ns	NT	8.500	0.379	0.0008	-9.000
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	6.51	1.30	ns	NT	9.200	0.288	0.0019	-9.000
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	6.71	3.87	ns	NT	12.000	0.380	0.0077	22.000
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	7.50	1.84	ns	NT	11.000	0.363	0.0092	-9.000
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	9.47	5.20	ns	NT	8.430	0.344	0.0021	-9.000
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	6.74	3.12	ns	NT	8.390	0.342	0.0011	27.000
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	8.21	2.97	ns	NT	11.000	0.368	0.0092	-9.000
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	5.15	2.04	ns	NT	9.860	0.385	0.0072	-9.000
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	4.33	1.23	*	NT	12.700	0.618	0.0071	46.000

Neanthes arenaceodentata Weight Change Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NAWT_MN	NAWT_SD	NAWT_SG	NAWT_TOX	NA_OTNH3	NA_OUNH3	NA_OH2S	NA_ITNH3
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	3.11	0.43	*	NT	14.500	0.578	0.0045	-9.000
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	4.67	1.46	*	NT	14.900	0.435	0.0361	-9.000
	CONTROL-CH2			32.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000	-9.000
	CONTROL-CH3			32.0	-9.00	-9.00	-9	-9	-9.000	-9.000	-9.0000	-9.000
	CONTROL-CH1			32.0	10.99	3.94	-9	-9	9.500	0.189	-8.0000	-9.000
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	7.60	0.98	ns	NT	8.200	0.196	0.0027	4.100
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	6.12	2.14	*	NT	9.400	0.275	0.0020	7.000
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	6.26	1.62	*	NT	8.000	0.267	0.0019	2.900
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	9.01	2.38	ns	NT	5.800	0.142	0.0026	2.700

Neanthes arenaceodentata Weight Change Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NA_IUNH3	NA_IH2S	NA_BATCH	NAQC
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1002	8/19/93	23.0	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1003	8/19/93	23.0	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1004	8/19/93	23.0	-9.000	-9.0000	-9	-9
40031.2	PALOS V.(SWARTZ 6)-REP 4 BLIND	1005	8/19/93	23.0	-9.000	-9.0000	-9	-9
40010.1	OFF CABRILLO BEACH-REP 1	1006	8/19/93	23.0	-9.000	-9.0000	-9	-9
40010.2	OFF CABRILLO BEACH-REP 2	1007	8/19/93	23.0	-9.000	-9.0000	-9	-9
40010.3	OFF CABRILLO BEACH-REP 3	1008	8/19/93	23.0	-9.000	-9.0000	-9	-9
	CONTROL-CH3			25.0	-9.000	-9.0000	-9	-9
	CONTROL-CH2			25.0	-9.000	-9.0000	-9	-9
	CONTROL-CH1			25.0	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1038	2/2/94	25.0	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1039	2/2/94	25.0	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1040	2/2/94	25.0	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HAR. -18 REP1	1041	1/31/94	25.0	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HAR. -18 REP2	1042	1/31/94	25.0	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HAR. -18 REP3	1043	1/31/94	25.0	-9.000	-9.0000	-9	-9
40012.1	SOUTHEAST BASIN- REP1	1047	2/1/94	25.0	-9.000	-9.0000	-9	-9
40012.1	SOUTHEAST BASIN- REP2	1048	2/1/94	25.0	-9.000	-9.0000	-9	-9
40012.1	SOUTHEAST BASIN- REP3	1049	2/1/94	25.0	-9.000	-9.0000	-9	-9
40006.1	CONSOLIDATED SLIP- REP 1	1050	2/1/94	25.0	-9.000	-9.0000	-9	-9
40006.1	CONSOLIDATED SLIP- REP 2	1051	2/1/94	25.0	-9.000	-9.0000	-9	-9
40006.1	CONSOLIDATED SLIP- REP 3	1052	2/1/94	25.0	-9.000	-9.0000	-9	-9
40003.2	TURNING BASIN, PIER 151- REP 1	1053	2/2/94	25.0	-9.000	-9.0000	-9	-9
40003.2	TURNING BASIN, PIER 151- REP 2	1054	2/2/94	25.0	-9.000	-9.0000	-9	-9
40003.2	TURNING BASIN, PIER 151- REP 3	1055	2/2/94	25.0	-9.000	-9.0000	-9	-9
40013.1	INNER QUEENSWAY BAY- REP 1	1056	2/1/94	25.0	-9.000	-9.0000	-9	-9
40013.1	INNER QUEENSWAY BAY- REP 2	1057	2/1/94	25.0	-9.000	-9.0000	-9	-9
40013.1	INNER QUEENSWAY BAY- REP 3	1058	2/1/94	25.0	-9.000	-9.0000	-9	-9
40017.3	LONG BEACH CHANNEL- REP 1	1059	1/31/94	25.0	-9.000	-9.0000	-9	-9
40017.3	LONG BEACH CHANNEL- REP 2	1060	1/31/94	25.0	-9.000	-9.0000	-9	-9
40017.3	LONG BEACH CHANNEL- REP 3	1061	1/31/94	25.0	-9.000	-9.0000	-9	-9
40001.2	SOUTHWEST SLIP- REP 1	1062	2/1/94	25.0	-9.000	-9.0000	-9	-9
40001.2	SOUTHWEST SLIP- REP 2	1063	2/1/94	25.0	-9.000	-9.0000	-9	-9
40001.2	SOUTHWEST SLIP- REP 3	1064	2/1/94	25.0	-9.000	-9.0000	-9	-9
44020.0	SHORELINE MARINA- REP 1	1065	2/1/94	25.0	-9.000	-9.0000	-9	-9
44020.0	SHORELINE MARINA- REP 2	1066	2/1/94	25.0	-9.000	-9.0000	-9	-9
44020.0	SHORELINE MARINA- REP 3	1067	2/1/94	25.0	-9.000	-9.0000	-9	-9
	CONTROL-CH1			26.0	-9.000	-9.0000	-9	-9
	CONTROL-CH3			26.0	-9.000	-9.0000	-9	-9
	CONTROL-CH2			26.0	-9.000	-9.0000	-9	-9

Neanthes arenaceodentata Weight Change Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NA_IUNH3	NA_IH2S	NA_BATCH	NAQC
40010.1	OFF CABRILLO BEACH-REP 1	1068	2/15/94	26.0	-9.000	-9.0000	-9	-9
40010.1	OFF CABRILLO BEACH-REP 2	1069	2/15/94	26.0	-9.000	-9.0000	-9	-9
40010.1	OFF CABRILLO BEACH-REP 3	1070	2/15/94	26.0	-9.000	-9.0000	-9	-9
40010.2	OFF CABRILLO BEACH-REP 1	1071	2/15/94	26.0	-9.000	-9.0000	-9	-9
40010.2	OFF CABRILLO BEACH-REP 2	1072	2/15/94	26.0	-9.000	-9.0000	-9	-9
40010.2	OFF CABRILLO BEACH-REP 3	1073	2/15/94	26.0	-9.000	-9.0000	-9	-9
40010.3	OFF CABRILLO BEACH-REP 1	1074	2/15/94	26.0	-9.000	-9.0000	-9	-9
40010.3	OFF CABRILLO BEACH-REP 2	1075	2/15/94	26.0	-9.000	-9.0000	-9	-9
40010.3	OFF CABRILLO BEACH-REP 3	1076	2/15/94	26.0	-9.000	-9.0000	-9	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP1	1077	2/16/94	26.0	-9.000	-9.0000	-9	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP2	1078	2/16/94	26.0	-9.000	-9.0000	-9	-9
44011.0	LOS CERRITOS CHNL TIDAL P-REP3	1079	2/16/94	26.0	-9.000	-9.0000	-9	-9
44014.0	MARINA DEL REY-REP 1	1080	2/15/94	26.0	-9.000	-9.0000	-9	-9
44014.0	MARINA DEL REY-REP 2	1081	2/15/94	26.0	-9.000	-9.0000	-9	-9
44014.0	MARINA DEL REY-REP 3	1082	2/15/94	26.0	-9.000	-9.0000	-9	-9
44024.0	BALLONA CREEK-REP 1	1083	2/15/94	26.0	-9.000	-9.0000	-9	-9
44024.0	BALLONA CREEK-REP 2	1084	2/15/94	26.0	-9.000	-9.0000	-9	-9
44024.0	BALLONA CREEK REP3	1085	2/15/94	26.0	-9.000	-9.0000	-9	-9
	CONTROL-CH1			30.0	-9.000	-9.0000	-9	-9
	CONTROL-CH2			30.0	-9.000	-9.0000	-9	-9
	CONTROL-CH3			30.0	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 1	1189	4/13/94	30.0	0.088	0.0260	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 2	1190	4/13/94	30.0	-9.000	-9.0000	-9	-9
40031.2	PALOS VERDES (SWARTZ 6)-REP 3	1191	4/13/94	30.0	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 1	1192	4/12/94	30.0	0.047	0.0308	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 2	1193	4/12/94	30.0	-9.000	-9.0000	-9	-9
40018.3	LONG BEACH OUTER HAR.-18-REP 3	1194	4/12/94	30.0	-9.000	-9.0000	-9	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 1	1198	4/12/94	30.0	0.053	0.0309	-9	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 2	1199	4/12/94	30.0	-9.000	-9.0000	-9	-9
44055.0	L.B. NAVAL STN.-PIER 3-REP 3	1200	4/12/94	30.0	-9.000	-9.0000	-9	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 1	1207	4/13/94	30.0	0.201	0.0246	-9	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 2	1208	4/13/94	30.0	-9.000	-9.0000	-9	-9
44023.0	CHANNEL ISLANDS HARBOR-REP 3	1209	4/13/94	30.0	-9.000	-9.0000	-9	-9
44027.0	MCGRATH LAKE ESTUARY-REP 1	1210	4/13/94	30.0	0.562	0.0344	-9	-9
44027.0	MCGRATH LAKE ESTUARY-REP 2	1211	4/13/94	30.0	-9.000	-9.0000	-9	-9
44027.0	MCGRATH LAKE ESTUARY-REP 3	1212	4/13/94	30.0	-9.000	-9.0000	-9	-9
44054.0	MUGU/ENTRANCE-REP 1	1213	4/14/94	30.0	0.335	0.0203	-9	-9
44054.0	MUGU/ENTRANCE-REP 2	1214	4/14/94	30.0	-9.000	-9.0000	-9	-9
44054.0	MUGU/ENTRANCE-REP 3	1215	4/14/94	30.0	-9.000	-9.0000	-9	-9
44053.0	MUGU/OXNARD DITCH #1-REP 1	1216	4/14/94	30.0	0.583	0.0512	-9	-9

Neanthes arenaceodentata Weight Change Toxicity Test Data for Sediment

STANUM	STATION	IDORG	DATE	LEG	NA_IUNH3	NA_IH2S	NA_BATCH	NAQC
44053.0	MUGU/OXNARD DITCH #1-REP 2	1217	4/14/94	30.0	-9.000	-9.0000	-9	-9
44053.0	MUGU/OXNARD DITCH #1-REP 3	1218	4/14/94	30.0	-9.000	-9.0000	-9	-9
	CONTROL-CH2			32.0	-9.000	-9.0000	-9	-9
	CONTROL-CH3			32.0	-9.000	-9.0000	-9	-9
	CONTROL-CH1			32.0	-9.000	-9.0000	-9	-9
40010.1	OFF CABRILLO BEACH	1331	5/19/94	32.0	0.019	0.0083	-9	-9
40010.2	OFF CABRILLO BEACH	1332	5/19/94	32.0	0.045	0.0043	-9	-9
40010.3	OFF CABRILLO BEACH	1333	5/19/94	32.0	0.016	0.0039	-9	-9
40018.3	LONG BEACH OUTER HAR.-18	1334	5/19/94	32.0	0.012	0.0240	-9	-9

Appendix F

Benthic Community Data

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40001.1	SOUTHWEST SLIP	1	07/29/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta		6	3	1	3.3	3.5	1	6	2.5	1.5	5.7	10
Glycera americana	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Leitoscoloplos spp. juv.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Lumbrineridae spp.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Nephtys cornuta	Polychaeta		3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Euphilomedes carcharodonta	Ostracoda		7	5	0	4.0	3.5	0	7	3.6	2.1	8.1	12
Parvilucina tenuisculpta	Bivalvia		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Theora fragilis	Bivalvia		9	2	2	4.3	5.5	2	9	4.0	2.3	9.1	13
Cooperella subdiaphana	Bivalvia		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL INDIVIDUALS	57	33	15	9	19.0	21.0	9	33	12.5	7.2	28.1	57
	TOTAL SPECIES	12	10	7	6	7.7	8.0	6	10	2.1	1.2	4.7	23
	TOTAL CRUST. INDIV.	12	7	5	0	4.0	3.5	0	7	3.6	2.1	8.1	12
	TOTAL CRUST. SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID INDIV.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.	12	7	5	0	4.0	3.5	0	7	3.6	2.1	8.1	12
	OTHER CRUSTACEAN SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM INDIV.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.	17	10	3	4	5.7	6.5	3	10	3.8	2.2	8.5	17
	TOTAL MOLLUSC SP.	3	2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
	TOTAL POLYCHAETE INDIV.	28	16	7	5	9.3	10.5	5	16	5.9	3.4	13.2	28
	TOTAL POLYCHAETE SP.	8	7	4	4	5.0	5.5	4	7	1.7	1.0	3.9	15

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40001.2	SOUTHWEST SLIP	2	07/29/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta		20	21	25	22.0	22.5	20	25	2.6	1.5	6.0	66
Dorvillea longicornis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Levinsenia gracilis	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Lumbrineridae spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Malmgreniella spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		9	4	2	5.0	5.5	2	9	3.6	2.1	8.1	15
Nephtys cornuta	Polychaeta		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Nereis procera	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Bathyleberis californica	Ostracoda		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Theora fragilis	Bivalvia		0	13	6	6.3	6.5	0	13	6.5	3.8	14.6	19
Aglajidae	Gastropoda		0	2	3	1.7	1.5	0	3	1.5	0.9	3.4	5
Macoma ?	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		35	53	40	42.7	44.0	35	53	9.3	5.4	20.9	128
	TOTAL SPECIES	17	7	13	8	9.3	10.0	7	13	3.2	1.9	7.2	28
	TOTAL CRUST. INDIV.		2	5	0	2.3	2.5	0	5	2.5	1.5	5.7	7
	TOTAL CRUST. SP.	2	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		2	5	0	2.3	2.5	0	5	2.5	1.5	5.7	7
	OTHER CRUSTACEAN SP.	2	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	16	9	8.3	8.0	0	16	8.0	4.6	18.0	25
	TOTAL MOLLUSC SP.	3	0	3	2	1.7	1.5	0	3	1.5	0.9	3.4	5
	TOTAL POLYCHAETE INDIV.		33	32	30	31.7	31.5	30	33	1.5	0.9	3.4	95
	TOTAL POLYCHAETE SP.	11	6	8	5	6.3	6.5	5	8	1.5	0.9	3.4	19

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40001.3	SOUTHWEST SLIP	3	07/29/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		65	43	27	45.0	46.0	27	65	19.1	11.0	42.9	135
Levinsenia gracilis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Lumbrineridae spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		3	0	4	2.3	2.0	0	4	2.1	1.2	4.7	7
Mediomastus spp. indet.	Polychaeta		2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
Nephtys cornuta	Polychaeta		1	1	4	2.0	2.5	1	4	1.7	1.0	3.9	6
Scoletoma erecta	Polychaeta		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
nemertea	Nemertea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Euphilomedes carcharodonta	Ostracoda		0	5	2	2.3	2.5	0	5	2.5	1.5	5.7	7
Neotrypae californiensis	Decapoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	4	3	2.3	2.0	0	4	2.1	1.2	4.7	7
Mysella sp. A	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		77	61	43	60.3	60.0	43	77	17.0	9.8	38.3	181
	TOTAL SPECIES	16	9	9	8	8.7	8.5	8	9	0.6	0.3	1.3	26
	TOTAL CRUST. INDIV.		2	7	2	3.7	4.5	2	7	2.9	1.7	6.5	11
	TOTAL CRUST. SP.	3	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		0	6	2	2.7	3.0	0	6	3.1	1.8	6.9	8
	OTHER CRUSTACEAN SP.	2	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	5	4	3.0	2.5	0	5	2.6	1.5	6.0	9
	TOTAL MOLLUSC SP.	3	0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
	TOTAL POLYCHAETE INDIV.		74	49	37	53.3	55.5	37	74	18.9	10.9	42.5	160
	TOTAL POLYCHAETE SP.	9	7	4	5	5.3	5.5	4	7	1.5	0.9	3.4	16

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40002.1	WEST BASIN, PIER 143	4	07/30/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Cirratulidae spp. indet.	Polychaeta		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Cossura candida	Polychaeta		3	4	8	5.0	5.5	3	8	2.6	1.5	6.0	15
Leitoscoloplos pugettensis	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Lumbrineridae spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Magelona spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Nephtys cornuta	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Phyllodoce spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Listriella goleta	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Paranthura elegans	Isopoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		9	13	14	12.0	11.5	9	14	2.6	1.5	6.0	36
	TOTAL SPECIES	13	7	9	5	7.0	7.0	5	9	2.0	1.2	4.5	21
	TOTAL CRUST. INDIV.		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
	TOTAL CRUST. SP.	3	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
	GAMMARID INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN SP.	2	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		7	9	14	10.0	10.5	7	14	3.6	2.1	8.1	30
	TOTAL POLYCHAETE SP.	9	5	6	5	5.3	5.5	5	6	0.6	0.3	1.3	16

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40002.2	WEST BASIN, PIER 143	5	07/30/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Mediomastus spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Scoletoma erecta	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Euphilomedes carcharodonta	Ostracoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Grandidierella japonica	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pinnixa sp.	Decapoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Laevicardium substriatum	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cryptomya californica	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		9	3	7	6.3	6.0	3	9	3.1	1.8	6.9	19
	TOTAL SPECIES	11	5	3	7	5.0	5.0	3	7	2.0	1.2	4.5	15
	TOTAL CRUST. INDIV.		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	TOTAL CRUST. SP.	3	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	GAMMARID INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN SP.	2	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
	TOTAL MOLLUSC SP.	3	1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
	TOTAL POLYCHAETE INDIV.		7	2	3	4.0	4.5	2	7	2.6	1.5	6.0	12
	TOTAL POLYCHAETE SP.	5	3	2	3	2.7	2.5	2	3	0.6	0.3	1.3	8

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40002.3	WEST BASIN, PIER 143	6	07/30/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Cirratulidae spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		32	28	13	24.3	22.5	13	32	10.0	5.8	22.5	73
Euchone limnicola	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera americana	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Levinsenia gracilis	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		6	0	0	2.0	3.0	0	6	3.5	2.0	7.8	6
Nephtys cornuta	Polychaeta		3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Euphilomedes carcharodonta	Ostracoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Turbonilla sp.	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		50	33	18	33.7	34.0	18	50	16.0	9.2	36.0	101
	TOTAL SPECIES	15	11	6	4	7.0	7.5	4	11	3.6	2.1	8.1	21
	TOTAL CRUST. INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL CRUST. SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	TOTAL MOLLUSC SP.	3	3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	TOTAL POLYCHAETE INDIV.		46	31	17	31.3	31.5	17	46	14.5	8.4	32.6	94
	TOTAL POLYCHAETE SP.	10	7	4	3	4.7	5.0	3	7	2.1	1.2	4.7	14

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40003.1	TURNING BASIN, PIER 151	7	07/31/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		8	30	26	21.3	19.0	8	30	11.7	6.8	26.4	64
Euchone limnicola	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera americana	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Levinsenia gracilis	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Mediomastus spp. indet.	Polychaeta		2	1	5	2.7	3.0	1	5	2.1	1.2	4.7	8
Monticellina sp. C	Polychaeta		3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Nephtys cornuta	Polychaeta		3	6	9	6.0	6.0	3	9	3.0	1.7	6.8	18
Phyllodoce spp. juv.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Bathyleberis californica	Ostracoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Protothaca staminea	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		23	41	52	38.7	37.5	23	52	14.6	8.5	32.9	116
	TOTAL SPECIES	18	11	7	13	10.3	10.0	7	13	3.1	1.8	6.9	31
	TOTAL CRUST. INDIV.		1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
	TOTAL CRUST. SP.	3	1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
	GAMMARID INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN SP.	2	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		3	0	4	2.3	2.0	0	4	2.1	1.2	4.7	7
	TOTAL MOLLUSC SP.	4	3	0	2	1.7	1.5	0	3	1.5	0.9	3.4	5
	TOTAL POLYCHAETE INDIV.		19	41	44	34.7	31.5	19	44	13.7	7.9	30.7	104
	TOTAL POLYCHAETE SP.	10	7	7	7	7.0	7.0	7	7	0.0	0.0	0.0	21

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40003.2	TURNING BASIN, PIER 151	8	07/31/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		1	3	12	5.3	6.5	1	12	5.9	3.4	13.2	16
Glycera americana	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Levinsenia gracilis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Lumbrineridae spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus spp. indet.	Polychaeta		0	4	5	3.0	2.5	0	5	2.6	1.5	6.0	9
Monticellina sp. C	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Nephtys cornuta	Polychaeta		1	4	0	1.7	2.0	0	4	2.1	1.2	4.7	5
Notomastus spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spionidae spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		3	3	0	2.0	1.5	0	3	1.7	1.0	3.9	6
Euphilomedes carcharodonta	Ostracoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Theora fragilis	Bivalvia		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Sulcoretusa xystrum	Gastropoda		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Aglajidae	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		16	21	23	20.0	19.5	16	23	3.6	2.1	8.1	60
	TOTAL SPECIES	18	11	9	6	8.7	8.5	6	11	2.5	1.5	5.7	26
	TOTAL CRUST. INDIV.		1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
	TOTAL CRUST. SP.	2	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID INDIV.		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
	GAMMARID SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		5	2	0	2.3	2.5	0	5	2.5	1.5	5.7	7
	TOTAL MOLLUSC SP.	3	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
	TOTAL POLYCHAETE INDIV.		7	16	20	14.3	13.5	7	20	6.7	3.8	15.0	43
	TOTAL POLYCHAETE SP.	12	6	7	5	6.0	6.0	5	7	1.0	0.6	2.3	18

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40003.3	TURNING BASIN, PIER 151	9	07/31/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aproprionospio pygmaea	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Cossura candida	Polychaeta		15	20	22	19.0	18.5	15	22	3.6	2.1	8.1	57
Glycinde spp. juv.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		0	0	4	1.3	2.0	0	4	2.3	1.3	5.2	4
Lumbrineris cf. californiensis	Polychaeta		0	1	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Marphysa disjuncta	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus spp. indet.	Polychaeta		5	23	20	16.0	14.0	5	23	9.6	5.6	21.7	48
Monticellina sp. C	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Nephtys cornuta	Polychaeta		0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Nereididae spp. juv.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Phyllodoce hartmanae	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spionidae spp. indet.	Polychaeta		0	1	7	2.7	3.5	0	7	3.8	2.2	8.5	8
nemertea	Nemertea		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Euphilomedes carcharodonta	Ostracoda		0	1	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Listriella goleta	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium heteroceratum	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Sulcoretusa xystrum	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		26	54	71	50.3	48.5	26	71	22.7	13.1	51.1	151
	TOTAL SPECIES	21	8	11	14	11.0	11.0	8	14	3.0	1.7	6.8	33
	TOTAL CRUST. INDIV.		1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
	TOTAL CRUST. SP.	4	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		0	2	3	1.7	1.5	0	3	1.5	0.9	3.4	5
	OTHER CRUSTACEAN SP.	2	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	TOTAL MOLLUSC SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL POLYCHAETE INDIV.		23	49	64	45.3	43.5	23	64	20.7	12.0	46.7	136

TOTAL POLYCHAETE SP.	14	5	7	10	7.3	7.5	5	10	2.5	1.5	5.7	22

STANUM	STATION	IDORG	DATE	LEG
40004.1	LOWER MAIN CHANNEL	10	07/29/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		2	3	1	2.0	2.0	1	3	1.0	0.6	2.3	6
Cirratulidae spp. indet.	Polychaeta		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Cossura candida	Polychaeta		16	3	14	11.0	9.5	3	16	7.0	4.0	15.8	33
Glycera americana	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta		1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Lumbrineridae spp. indet.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Maldanidae spp. indet.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Malmgreniella spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys comuta	Polychaeta		0	4	4	2.7	2.0	0	4	2.3	1.3	5.2	8
Paraonidae spp. indet.	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Prionospio spp. indet.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Protothaca staminea	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL INDIVIDUALS			23	13	34	23.3	23.5	13	34	10.5	6.1	23.6	70
TOTAL SPECIES		18	7	6	13	8.7	9.5	6	13	3.8	2.2	8.5	26
TOTAL CRUST. INDIV.			0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
TOTAL CRUST. SP.		1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
GAMMARID INDIV.			0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
GAMMARID SP.		0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
OTHER CRUSTACEAN INDIV.			0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
OTHER CRUSTACEAN SP.		1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL ECHINODERM INDIV.			0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.		0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.			0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
TOTAL MOLLUSC SP.		3	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
TOTAL POLYCHAETE INDIV.			23	12	29	21.3	20.5	12	29	8.6	5.0	19.4	64
TOTAL POLYCHAETE SP.		13	7	5	9	7.0	7.0	5	9	2.0	1.2	4.5	21

STANUM	STATION	IDORG	DATE	LEG
40004.2	LOWER MAIN CHANNEL	11	07/29/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Ampharetidae spp. juv.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cirratulidae spp. indet.	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta		23	24	18	21.7	21.0	18	24	3.2	1.9	7.2	65
Eranno lagunae	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
Levinsenia gracilis	Polychaeta		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Mediomastus spp. indet.	Polychaeta		2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
Monticellina sp. C	Polychaeta		3	4	10	5.7	6.5	3	10	3.8	2.2	8.5	17
Nephtys cornuta	Polychaeta		8	9	3	6.7	6.0	3	9	3.2	1.9	7.2	20
Paraprionospia pinnata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Scoletoma tetraura	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellidae spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Euphilomedes carcharodonta	Ostracoda		4	2	0	2.0	2.0	0	4	2.0	1.2	4.5	6
Bathyleberis californica	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Listriella goleta	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Amphiodia sp.	Ophioroidea		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Aglajidae	Gastropoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Macoma sp.	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		50	57	44	50.3	50.5	44	57	6.5	3.8	14.6	151
	TOTAL SPECIES	25	13	17	14	14.7	15.0	13	17	2.1	1.2	4.7	44
	TOTAL CRUST. INDIV.		5	3	4	4.0	4.0	3	5	1.0	0.6	2.3	12
	TOTAL CRUST. SP.	5	2	2	3	2.3	2.5	2	3	0.6	0.3	1.3	7
	GAMMARID INDIV.		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
	GAMMARID SP.	2	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
	OTHER CRUSTACEAN INDIV.		5	3	2	3.3	3.5	2	5	1.5	0.9	3.4	10
	OTHER CRUSTACEAN SP.	3	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5

TOTAL ECHINODERM INDIV.		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
TOTAL ECHINODERM SP.	1	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
TOTAL MOLLUSC INDIV.		1	2	3	2.0	2.0	1	3	1.0	0.6	2.3	6
TOTAL MOLLUSC SP.	3	1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
TOTAL POLYCHAETE INDIV.		42	50	36	42.7	43.0	36	50	7.0	4.1	15.8	128
TOTAL POLYCHAETE SP.	15	9	13	7	9.7	10.0	7	13	3.1	1.8	6.9	29

STANUM	STATION	IDORG	DATE	LEG
40004.3	LOWER MAIN CHANNEL	12	07/29/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphicteis scaphobranchiata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulida spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		22	39	18	26.3	28.5	18	39	11.2	6.4	25.1	79
Leitoscoloplos pugettensis	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Levinsenia gracilis	Polychaeta		4	0	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Malmgreniella spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus spp. indet.	Polychaeta		1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Monticellina dorsobranchialis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys comuta	Polychaeta		4	1	3	2.7	2.5	1	4	1.5	0.9	3.4	8
Paraprionospio pinnata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio spp. indet.	Polychaeta		2	0	6	2.7	3.0	0	6	3.1	1.8	6.9	8
Sigambra tentaculata	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Scoletoma tetraura	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nematoda	Nematoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Solen sp.	Bivalvia		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Theora fragilis	Bivalvia		1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Amphiodia sp.	Ophioroidea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		38	54	36	42.7	45.0	36	54	9.9	5.7	22.2	128
	TOTAL SPECIES	21	10	11	10	10.3	10.5	10	11	0.6	0.3	1.3	31
	TOTAL CRUST. INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL CRUST. SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0

OTHER CRUSTACEAN INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
OTHER CRUSTACEAN SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL ECHINODERM INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL ECHINODERM SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL MOLLUSC INDIV.		1	5	2	2.7	3.0	1	5	2.1	1.2	4.7	8
TOTAL MOLLUSC SP.	2	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
TOTAL POLYCHAETE INDIV.		37	46	33	38.7	39.5	33	46	6.7	3.8	15.0	116
TOTAL POLYCHAETE SP.	15	9	6	8	7.7	7.5	6	9	1.5	0.9	3.4	23

STANUM	STATION	IDORG	DATE	LEG
40005.1	EAST BASIN,TURNING BASIN	13	07/30/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		7	2	9	6.0	5.5	2	9	3.6	2.1	8.1	18
Euchone limnicola	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus spp. indet.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		4	0	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Nephtys cornuta	Polychaeta		3	0	3	2.0	1.5	0	3	1.7	1.0	3.9	6
Scoletoma erecta	Polychaeta		0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
nemertea	Nemertea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL INDIVIDUALS		17	6	18	13.7	12.0	6	18	6.7	3.8	15.0	41
	TOTAL SPECIES	9	5	4	6	5.0	5.0	4	6	1.0	0.6	2.3	15
	TOTAL CRUST. INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL MOLLUSC SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	TOTAL POLYCHAETE INDIV.		15	4	17	12.0	10.5	4	17	7.0	4.0	15.8	36
	TOTAL POLYCHAETE SP.	7	4	2	5	3.7	3.5	2	5	1.5	0.9	3.4	11

STANUM	STATION	IDORG	DATE	LEG
40005.2	EAST BASIN TURNING BASIN	14	07/30/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Chaetozone corona	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Cirratulidae spp. indet.	Polychaeta		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Cossura candida	Polychaeta		2	0	4	2.0	2.0	0	4	2.0	1.2	4.5	6
Glycera americana	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus spp. indet.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys comuta	Polychaeta		0	3	4	2.3	2.0	0	4	2.1	1.2	4.7	7
Paraprionospio pinnata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spionidae spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		3	10	11	8.0	7.0	3	11	4.4	2.5	9.8	24
	TOTAL SPECIES	9	2	7	4	4.3	4.5	2	7	2.5	1.5	5.7	13
	TOTAL CRUST. INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL CRUST. SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		3	9	11	7.7	7.0	3	11	4.2	2.4	9.4	23
	TOTAL POLYCHAETE SP.	8	2	6	4	4.0	4.0	2	6	2.0	1.2	4.5	12

STANUM	STATION	IDORG	DATE	LEG
40005.3	EAST BASIN TURNING BASIN	15	07/30/92	1

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Cirratulidae spp. indet.	Polychaeta	2	3	2	2.3	2.5	2	3	0.6	0.3	1.3	7
Cossura candida	Polychaeta	0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Euchone limnicola	Polychaeta	1	2	5	2.7	3.0	1	5	2.1	1.2	4.7	8
Mediomastus spp. indet.	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Monticellina sp. C	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Scoletoma erecta	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		3	6	15	8.0	9.0	3	15	6.2	3.6	14.1	24
	TOTAL SPECIES	8	2	3	7	4.0	4.5	2	7	2.6	1.5	6.0	12
	TOTAL CRUST. INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL CRUST. SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL POLYCHAETE INDIV.		3	6	13	7.3	8.0	3	13	5.1	3.0	11.5	22
	TOTAL POLYCHAETE SP.	6	2	3	5	3.3	3.5	2	5	1.5	0.9	3.4	10

STANUM	STATION	IDORG	DATE	LEG
40006.1	CONSOLIDATED SLIP	16	07/31/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaeta		6	8	6	6.7	7.0	6	8	1.2	0.7	2.6	20
Cossura candida	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Dorvillea longicornis	Polychaeta		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Euchone limnicola	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos spp. juv.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		4	6	0	3.3	3.0	0	6	3.1	1.8	6.9	10
Nereididae spp. juv.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
oligochaeta	Polychaeta		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Grandidierella japonica	Amphipoda		3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
Theora fragilis	Bivalvia		5	12	2	6.3	7.0	2	12	5.1	3.0	11.5	19
Aglajidae	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		21	34	14	23.0	24.0	14	34	10.1	5.9	22.8	69
	TOTAL SPECIES	11	6	8	4	6.0	6.0	4	8	2.0	1.2	4.5	18
	TOTAL CRUST. INDIV.		3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	TOTAL CRUST. SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	GAMMARID INDIV.		3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10

GAMMARID SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		6	12	2	6.7	7.0	2	12	5.0	2.9	11.3	20
TOTAL MOLLUSC SP.	2	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
TOTAL POLYCHAETE INDIV.		12	18	9	13.0	13.5	9	18	4.6	2.6	10.3	39
TOTAL POLYCHAETE SP.	8	3	6	2	3.7	4.0	2	6	2.1	1.2	4.7	11

STANUM	STATION	IDORG	DATE	LEG
40006.2	CONSOLIDATED SLIP	17	07/31/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaeta		0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Euchone limnicola	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Nephtys cornuta	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
oligochaeta	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Grandidierella japonica	Amphipoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphideutopus oculatus	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	6	1	2.7	3.5	1	6	2.9	1.7	6.5	8
Euphilomedes carcharodonta	Ostracoda		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mactra californica	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		4	9	12	8.3	8.0	4	12	4.0	2.3	9.1	25
	TOTAL SPECIES	10	4	4	8	5.3	6.0	4	8	2.3	1.3	5.2	16
	TOTAL CRUST. INDIV.		2	0	4	2.0	2.0	0	4	2.0	1.2	4.5	6
	TOTAL CRUST. SP.	4	2	0	3	1.7	1.5	0	3	1.5	0.9	3.4	5
	GAMMARID INDIV.		2	0	2	1.3	1.0	0	2	1.2	0.7	2.6	4
	GAMMARID SP.	3	2	0	2	1.3	1.0	0	2	1.2	0.7	2.6	4
	OTHER CRUSTACEAN INDIV.		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
	OTHER CRUSTACEAN SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		1	6	2	3.0	3.5	1	6	2.6	1.5	6.0	9
	TOTAL MOLLUSC SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL POLYCHAETE INDIV.		1	3	6	3.3	3.5	1	6	2.5	1.5	5.7	10
	TOTAL POLYCHAETE SP.	4	1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7

STANUM	STATION	IDORG	DATE	LEG
40006.3	CONSOLIDATED SLIP	18	07/31/92	1

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaeta		0	67	4	23.7	33.5	0	67	37.6	21.7	84.6	71
Cossura candida	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Dorvillea longicornis	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
oligochaeta	Polychaeta		0	24	3	9.0	12.0	0	24	13.1	7.5	29.4	27
Grandidierella japonica	Amphipoda		1	74	1	25.3	37.5	1	74	42.1	24.3	94.8	76
Corophium ? acherusicum	Amphipoda		0	4	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Mayerella banksia	Amphipoda		0	8	0	2.7	4.0	0	8	4.6	2.7	10.4	8
Theora fragilis	Bivalvia		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Protothaca sp.	Bivalvia		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Kellia sp.	Bivalvia		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL INDIVIDUALS		1	187	9	65.7	94.0	1	187	105.2	60.7	236.6	197
	TOTAL SPECIES	10	1	10	4	5.0	5.5	1	10	4.6	2.6	10.3	15
	TOTAL CRUST. INDIV.		1	86	1	29.3	43.5	1	86	49.1	28.3	110.4	88
	TOTAL CRUST. SP.	3	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		1	86	1	29.3	43.5	1	86	49.1	28.3	110.4	88
	GAMMARID SP.	3	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	7	0	2.3	3.5	0	7	4.0	2.3	9.1	7
	TOTAL MOLLUSC SP.	3	0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
	TOTAL POLYCHAETE INDIV.		0	94	8	34.0	47.0	0	94	52.1	30.1	117.3	102
	TOTAL POLYCHAETE SP.	4	0	4	3	2.3	2.0	0	4	2.1	1.2	4.7	7

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40007.1	LONG BEACH HAR.(CHANNEL2)	19	09/01/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Aphelochaeta multifilis	Polychaeta		3	1	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Chaetozone corona	Polychaeta		3	2	4	3.0	3.0	2	4	1.0	0.6	2.3	9
Cossura candida	Polychaeta		42	30	46	39.3	38.0	30	46	8.3	4.8	18.7	118
Eranno lagunae	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone limnicola	Polychaeta		1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Eumida longicornuta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera capitata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		0	4	2	2.0	2.0	0	4	2.0	1.2	4.5	6
Levinsenia gracilis	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Mediomastus californiensis	Polychaeta		10	6	11	9.0	8.5	6	11	2.6	1.5	6.0	27
Monticellina dorsobranchialis	Polychaeta		8	5	6	6.3	6.5	5	8	1.5	0.9	3.4	19
Monticellina sp. C	Polychaeta		5	3	21	9.7	12.0	3	21	9.9	5.7	22.2	29
Nephtys cornuta	Polychaeta		2	6	3	3.7	4.0	2	6	2.1	1.2	4.7	11
Nereis procera	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Notomastus tenuis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paramage scutata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraonidae spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabra	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Prionospio lighti	Polychaeta		5	0	0	1.7	2.5	0	5	2.9	1.7	6.5	5
Scoletoma erecta	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma tetraura	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Spiophanes bombyx	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblosoma sp. B	Polychaeta		1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
nemertea	Nemertea		1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Listriella goleta	Amphipoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Euphilomedes carcharodonta	Ostracoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Bathyleberis californica	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		5	1	4	3.3	3.0	1	5	2.1	1.2	4.7	10
	TOTAL INDIVIDUALS		93	72	114	93.0	93.0	72	114	21.0	12.1	47.3	279
	TOTAL SPECIES	30	18	19	19	18.7	18.5	18	19	0.6	0.3	1.3	56
	TOTAL CRUST. INDIV.		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL CRUST. SP.	3	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4

GAMMARID INDIV.		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
GAMMARID SP.	1	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
OTHER CRUSTACEAN INDIV.		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
OTHER CRUSTACEAN SP.	2	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		5	1	4	3.3	3.0	1	5	2.1	1.2	4.7	10
TOTAL MOLLUSC SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
TOTAL POLYCHAETE INDIV.		86	69	105	86.7	87.0	69	105	18.0	10.4	40.5	260
TOTAL POLYCHAETE SP.	25	15	16	15	15.3	15.5	15	16	0.6	0.3	1.3	46

STANUM	STATION	IDORG	DATE	LEG
40007.2	LONG BEACH HAR.(CHANNEL2)	20	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta	3	3	0	2.0	1.5	0	3	1.7	1.0	3.9	6
Aphelochaeta multifilis	Polychaeta	7	2	3	4.0	4.5	2	7	2.6	1.5	6.0	12
Chaetozone corona	Polychaeta	0	2	3	1.7	1.5	0	3	1.5	0.9	3.4	5
Chaetozone sp. 1	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	34	43	49	42.0	41.5	34	49	7.5	4.4	17.0	126
Dorvillea longicornis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eranno lagunae	Polychaeta	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Euchone limnicola	Polychaeta	4	2	1	2.3	2.5	1	4	1.5	0.9	3.4	7
Leitoscoloplos pugettensis	Polychaeta	0	5	2	2.3	2.5	0	5	2.5	1.5	5.7	7
Mediomastus californiensis	Polychaeta	8	14	8	10.0	11.0	8	14	3.5	2.0	7.8	30
Monticellina dorsobranchialis	Polychaeta	13	9	2	8.0	7.5	2	13	5.6	3.2	12.5	24
Monticellina sp. C	Polychaeta	5	4	7	5.3	5.5	4	7	1.5	0.9	3.4	16
Nephtys cornuta	Polychaeta	4	8	1	4.3	4.5	1	8	3.5	2.0	7.9	13
Notomastus tenuis	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Scoletoma erecta	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes bombyx	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblosoma sp. B	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Theora fragilis	Bivalvia	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Aglajidae	Gastropoda	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL INDIVIDUALS	81	99	85	88.3	90.0	81	99	9.5	5.5	21.3	265
	TOTAL SPECIES 20	11	15	15	13.7	13.0	11	15	2.3	1.3	5.2	41
	TOTAL CRUST. INDIV.	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0

TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
TOTAL MOLLUSC SP.	2	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
TOTAL POLYCHAETE INDIV.		80	97	79	85.3	88.0	79	97	10.1	5.8	22.8	256
TOTAL POLYCHAETE SP.	17	10	13	12	11.7	11.5	10	13	1.5	0.9	3.4	35

STANUM	STATION	IDORG	DATE	LEG
40007.3	LONG BEACH HAR.(CHANNEL2)	21	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta multifilis	Polychaeta	1	6	2	3.0	3.5	1	6	2.6	1.5	6.0	9
Chaetozone corona	Polychaeta	3	1	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Cossura candida	Polychaeta	17	25	20	20.7	21.0	17	25	4.0	2.3	9.1	62
Eranno lagunae	Polychaeta	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Euchone limnicola	Polychaeta	7	6	3	5.3	5.0	3	7	2.1	1.2	4.7	16
Leitoscoloplos pugettensis	Polychaeta	3	4	1	2.7	2.5	1	4	1.5	0.9	3.4	8
Mediomastus californiensis	Polychaeta	9	7	6	7.3	7.5	6	9	1.5	0.9	3.4	22
Monticellina dorsobranchialis	Polychaeta	9	9	17	11.7	13.0	9	17	4.6	2.7	10.4	35
Monticellina sp. C	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Nephtys cornuta	Polychaeta	2	8	1	3.7	4.5	1	8	3.8	2.2	8.5	11
Notomastus tenuis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Podarkeopsis sp. A	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
nemertea	Nemertea	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Synchelidium sp.	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia	3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
Neotrypaea californiensis	Decapoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS	62	77	60	66.3	68.5	60	77	9.3	5.4	20.9	199

TOTAL SPECIES	21	16	15	14	15.0	15.0	14	16	1.0	0.6	2.3	45
TOTAL CRUST. INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
TOTAL CRUST. SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
GAMMARID INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
GAMMARID SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
OTHER CRUSTACEAN INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
OTHER CRUSTACEAN SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		3	4	4	3.7	3.5	3	4	0.6	0.3	1.3	11
TOTAL MOLLUSC SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
TOTAL POLYCHAETE INDIV.		57	70	56	61.0	63.0	56	70	7.8	4.5	17.6	183
TOTAL POLYCHAETE SP.	16	13	12	12	12.3	12.5	12	13	0.6	0.3	1.3	37

STANUM	STATION	IDORG	DATE	LEG
40008.1	EAST BASIN PIER C	22	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Aphelochaeta multifilis	Polychaeta	1	1	6	2.7	3.5	1	6	2.9	1.7	6.5	8
Aricidea wassi	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Cossura candida	Polychaeta	38	39	55	44.0	46.5	38	55	9.5	5.5	21.5	132
Euchone limnicola	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet.	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera americana	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Levinsenia gracilis	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Lumbrineris inflata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Malmgreniella macginitiei	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Marphysa disjuncta	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	8	6	3	5.7	5.5	3	8	2.5	1.5	5.7	17
Megalomma pigmentum	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Melinna oculata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Micropodarke dubia	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina dorsobranchialis	Polychaeta	2	3	1	2.0	2.0	1	3	1.0	0.6	2.3	6
Monticellina sp. C	Polychaeta	9	15	21	15.0	15.0	9	21	6.0	3.5	13.5	45

Nephtys comuta	Polychaeta		3	2	4	3.0	3.0	2	4	1.0	0.6	2.3	9
Nereis procera	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Paraprionospio pinnata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pholoe glabra	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sigambra tentaculata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblospio sp. B	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
nemertea	Nemertea		0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
Euphilomedes carcharodonta	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Amphideutopus oculatus	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium heteroceratum	Amphipoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Theora fragilis	Bivalvia		4	3	5	4.0	4.0	3	5	1.0	0.6	2.3	12
Parvilucina tenuisculpta	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		77	85	110	90.7	93.5	77	110	17.2	9.9	38.7	272
	TOTAL SPECIES	34	18	21	20	19.7	19.5	18	21	1.5	0.9	3.4	59
	TOTAL CRUST. INDIV.		1	4	1	2.0	2.5	1	4	1.7	1.0	3.9	6
	TOTAL CRUST. SP.	4	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID SP.	3	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	OTHER CRUSTACEAN INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		4	3	6	4.3	4.5	3	6	1.5	0.9	3.4	13
	TOTAL MOLLUSC SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL POLYCHAETE INDIV.		72	76	101	83.0	86.5	72	101	15.7	9.1	35.4	249
	TOTAL POLYCHAETE SP.	27	16	16	16	16.0	16.0	16	16	0.0	0.0	0.0	48

STANUM	STATION	IDORG	DATE	LEG
40008.2	EAST BASIN PIER C	23	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta	0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Aphelochaeta multifilis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	19	13	31	21.0	22.0	13	31	9.2	5.3	20.6	63
Laonice cirrata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Levinsenia gracilis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		5	2	8	5.0	5.0	2	8	3.0	1.7	6.8	15
Monticellina dorsobranchialis	Polychaeta		3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Nephtys cornuta	Polychaeta		0	2	4	2.0	2.0	0	4	2.0	1.2	4.5	6
Podarkeopsis sp. A	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Prionospio lighti	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sigambra tentaculata	Polychaeta		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
nemertea	Nemertea		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
oligochaeta	Oligochaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium heteroceratum	Amphipoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphideutopus oculatus	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pinnixa sp.	Decapoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL INDIVIDUALS		33	27	57	39.0	42.0	27	57	15.9	9.2	35.7	117
	TOTAL SPECIES	20	8	11	13	10.7	10.5	8	13	2.5	1.5	5.7	32
	TOTAL CRUST. INDIV.		1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	TOTAL CRUST. SP.	4	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
	GAMMARID SP.	3	1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
	OTHER CRUSTACEAN INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL MOLLUSC SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL POLYCHAETE INDIV.		30	21	54	35.0	37.5	21	54	17.1	9.8	38.4	105
	TOTAL POLYCHAETE SP.	13	5	6	11	7.3	8.0	5	11	3.2	1.9	7.2	22

STANUM	STATION	IDORG	DATE	LEG
40008.3	EAST BASIN PIER C	24	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta	5	1	3	3.0	3.0	1	5	2.0	1.2	4.5	9
Aphelochaeta multifilis	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Aricidea wassi	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Chaetozone corona	Polychaeta		5	3	3	3.7	4.0	3	5	1.2	0.7	2.6	11
Cossura candida	Polychaeta		58	68	110	78.7	84.0	58	110	27.6	15.9	62.1	236
Eranno lagunae	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. juv.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera americana	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		3	4	1	2.7	2.5	1	4	1.5	0.9	3.4	8
Mediomastus californiensis	Polychaeta		13	7	8	9.3	10.0	7	13	3.2	1.9	7.2	28
Monticellina dorsobranchialis	Polychaeta		3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
Monticellina sp. C	Polychaeta		7	10	7	8.0	8.5	7	10	1.7	1.0	3.9	24
Nephtys cornuta	Polychaeta		5	5	8	6.0	6.5	5	8	1.7	1.0	3.9	18
Nereis procera	Polychaeta		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Podarkeopsis sp. A	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Scoletoma erecta	Polychaeta		0	4	2	2.0	2.0	0	4	2.0	1.2	4.5	6
Spiophanes missionensis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides californica	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Euphilomedes carcharodonta	Ostracoda		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Listriella goleta	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sinelobus stanfordi			1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Laevicardium substriatum	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		8	4	5	5.7	6.0	4	8	2.1	1.2	4.7	17
Macoma ?	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tagelus subteres	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiaphana	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		119	120	160	133.0	139.5	119	160	23.4	13.5	52.6	399
	TOTAL SPECIES	31	19	18	19	18.7	18.5	18	19	0.6	0.3	1.3	56
	TOTAL CRUST. INDIV.		4	1	2	2.3	2.5	1	4	1.5	0.9	3.4	7
	TOTAL CRUST. SP.	4	3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID SP.	2	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
	OTHER CRUSTACEAN SP.	2	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		10	6	6	7.3	8.0	6	10	2.3	1.3	5.2	22
	TOTAL MOLLUSC SP.	6	3	3	2	2.7	2.5	2	3	0.6	0.3	1.3	8

TOTAL POLYCHAETE INDIV.		105	110	152	122.3	128.5	105	152	25.8	14.9	58.1	367
TOTAL POLYCHAETE SP.	20	13	13	16	14.0	14.5	13	16	1.7	1.0	3.9	42

STANUM	STATION	IDORG	DATE	LEG
40009.1	WEST BASIN ENTRANCE	25	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Acmira horikoshii	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Aphelochaeta multifilis	Polychaeta	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Apoprionospio pygmaea	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Chone mollis	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Cossura candida	Polychaeta	27	27	27	27.0	27.0	27	27	0.0	0.0	0.0	81
Euclymeninae spp. indet.	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Leitoscoloplos pugettensis	Polychaeta	0	3	4	2.3	2.0	0	4	2.1	1.2	4.7	7
Levinsenia gracilis	Polychaeta	2	6	6	4.7	4.0	2	6	2.3	1.3	5.2	14
Lumbrineris californiensis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	4	8	8	6.7	6.0	4	8	2.3	1.3	5.2	20
Monticellina dorsobranchialis	Polychaeta	1	1	4	2.0	2.5	1	4	1.7	1.0	3.9	6
Monticellina sp. C	Polychaeta	9	3	3	5.0	6.0	3	9	3.5	2.0	7.8	15
Nephtys cornuta	Polychaeta	2	0	3	1.7	1.5	0	3	1.5	0.9	3.4	5
Nereis procera	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Paraprionospio pinnata	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Phyllodoce hartmanae	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis sp. A	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta	3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Prionospio sp. A	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Scoletoma erecta	Polychaeta	0	3	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Sphaerosyllis californiensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea	2	0	2	1.3	1.0	0	2	1.2	0.7	2.6	4
oligochaeta	Oligochaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Amphideutopus oculatus	Amphipoda	4	2	10	5.3	6.0	2	10	4.2	2.4	9.4	16
Euphilomedes carcharodonta	Ostracoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Isaeidae	Amphipoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophioroidea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sulcoretusa xystrum	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Lophopanopeus bellus	Decapoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		66	62	85	71.0	73.5	62	85	12.3	7.1	27.6	213
	TOTAL SPECIES	32	19	16	23	19.3	19.5	16	23	3.5	2.0	7.9	58
	TOTAL CRUST. INDIV.		4	4	12	6.7	8.0	4	12	4.6	2.7	10.4	20
	TOTAL CRUST. SP.	5	1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
	GAMMARID INDIV.		4	3	11	6.0	7.0	3	11	4.4	2.5	9.8	18
	GAMMARID SP.	3	1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	OTHER CRUSTACEAN INDIV.		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN SP.	2	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL POLYCHAETE INDIV.		57	58	70	61.7	63.5	57	70	7.2	4.2	16.3	185
	TOTAL POLYCHAETE SP.	23	15	13	18	15.3	15.5	13	18	2.5	1.5	5.7	46

STANUM	STATION	IDORG	DATE	LEG
40009.2	WEST BASIN ENTRANCE	26	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta	2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Aphelochaeta multifilis	Polychaeta	1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Apoprionospio pygmaea	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	8	8	13	9.7	10.5	8	13	2.9	1.7	6.5	29
Euclymeninae spp. indet.	Polychaeta	2	1	6	3.0	3.5	1	6	2.6	1.5	6.0	9
Glycera americana	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Malmgreniella macginitiei	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Marphysa disjuncta	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta	3	10	6	6.3	6.5	3	10	3.5	2.0	7.9	19
Monticellina dorsobranchialis	Polychaeta	2	3	3	2.7	2.5	2	3	0.6	0.3	1.3	8
Monticellina sp. C	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Nephtys cornuta	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nereis procera	Polychaeta	0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Paramage scutata	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Podarkeopsis sp. A	Polychaeta	1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Prionospio lighti	Polychaeta	1	4	4	3.0	2.5	1	4	1.7	1.0	3.9	9
Scoletoma erecta	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Streblosoma sp. B	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides californica	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
Serolis carinata	Isopoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	4	1	1.7	2.0	0	4	2.1	1.2	4.7	5
Turbonilla sp.	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mytilus sp.	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		23	45	54	40.7	38.5	23	54	15.9	9.2	35.9	122
	TOTAL SPECIES	28	11	20	18	16.3	15.5	11	20	4.7	2.7	10.6	49
	TOTAL CRUST. INDIV.		0	4	2	2.0	2.0	0	4	2.0	1.2	4.5	6
	TOTAL CRUST. SP.	3	0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4
	GAMMARID INDIV.		0	3	2	1.7	1.5	0	3	1.5	0.9	3.4	5
	GAMMARID SP.	2	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	7	1	2.7	3.5	0	7	3.8	2.2	8.5	8
	TOTAL MOLLUSC SP.	4	0	4	1	1.7	2.0	0	4	2.1	1.2	4.7	5
	TOTAL POLYCHAETE INDIV.		23	33	51	35.7	37.0	23	51	14.2	8.2	31.9	107
	TOTAL POLYCHAETE SP.	20	11	12	16	13.0	13.5	11	16	2.6	1.5	6.0	39

STANUM	STATION	IDORG	DATE	LEG
40009.3	WEST BASIN ENTRANCE	27	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Amphicteis scaphobranchiata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta	0	2	5	2.3	2.5	0	5	2.5	1.5	5.7	7
Aphelochaeta multifilis	Polychaeta	2	3	1	2.0	2.0	1	3	1.0	0.6	2.3	6
Apoprionospio pygmaea	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta	1	6	3	3.3	3.5	1	6	2.5	1.5	5.7	10
Cossura candida	Polychaeta	17	59	77	51.0	47.0	17	77	30.8	17.8	69.3	153
Glycera americana	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Leitoscoloplos pugettensis	Polychaeta	2	2	4	2.7	3.0	2	4	1.2	0.7	2.6	8

Levinsenia gracilis	Polychaeta		1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Mediomastus californiensis	Polychaeta		10	14	6	10.0	10.0	6	14	4.0	2.3	9.0	30
Monticellina dorsobranchialis	Polychaeta		1	4	2	2.3	2.5	1	4	1.5	0.9	3.4	7
Monticellina sp. C	Polychaeta		7	7	4	6.0	5.5	4	7	1.7	1.0	3.9	18
Nephtys cornuta	Polychaeta		4	13	6	7.7	8.5	4	13	4.7	2.7	10.6	23
Nereis procera	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paramage scutata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Phyllodoce hartmanae	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Phyllodoce longipes	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista disjuncta	Polychaeta		3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Podarkeopsis sp. A	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio sp. A	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta		2	2	3	2.3	2.5	2	3	0.6	0.3	1.3	7
Streblosoma sp. B	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Terebellides californica	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		4	1	0	1.7	2.0	0	4	2.1	1.2	4.7	5
Amphideutopus oculatus	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Laevicardium substriatum	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Odostomia sp.	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Anthozoa	Anthozoa		5	0	1	2.0	2.5	0	5	2.6	1.5	6.0	6
	TOTAL INDIVIDUALS		66	120	128	104.7	97.0	66	128	33.7	19.5	75.9	314
	TOTAL SPECIES	33	20	17	23	20.0	20.0	17	23	3.0	1.7	6.8	60
	TOTAL CRUST. INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL CRUST. SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		3	0	4	2.3	2.0	0	4	2.1	1.2	4.7	7
	TOTAL MOLLUSC SP.	4	3	0	3	2.0	1.5	0	3	1.7	1.0	3.9	6
	TOTAL POLYCHAETE INDIV.		54	119	122	98.3	88.0	54	122	38.4	22.2	86.5	295
	TOTAL POLYCHAETE SP.	26	15	16	18	16.3	16.5	15	18	1.5	0.9	3.4	49

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40010.1	OFF CABRILLO BEACH	28	08/18/92	2

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Apoprionospio pygmaea	Polychaeta		2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
Cossura candida	Polychaeta		59	104	150	104.3	104.5	59	150	45.5	26.3	102.4	313
Mediomastus californiensis	Polychaeta		43	13	53	36.3	33.0	13	53	20.8	12.0	46.8	109
Nephtys caecoides	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Polydora cornuta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		12	7	26	15.0	16.5	7	26	9.8	5.7	22.2	45
Pseudopolydora paucibranchiata	Polychaeta		3	0	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Scoletoma erecta	Polychaeta		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
nemertea	Nemertea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		27	19	27	24.3	23.0	19	27	4.6	2.7	10.4	73
Listriella goleta	Amphipoda		8	1	5	4.7	4.5	1	8	3.5	2.0	7.9	14
Corophium heterceratum	Amphipoda		15	8	23	15.3	15.5	8	23	7.5	4.3	16.9	46
Amphideutopus oculatus	Amphipoda		1	9	5	5.0	5.0	1	9	4.0	2.3	9.0	15
Lophopanopeus bellus	Decapoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium ? acherusicum	Amphipoda		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Bathyleberis californica	Ostracoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Amphipoda		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Olivella baetica	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mayerella banksia	Amphipoda		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Macoma ?	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		176	174	299	216.3	236.5	174	299	71.6	41.3	161.1	649
	TOTAL SPECIES	22	13	15	15	14.3	14.0	13	15	1.2	0.7	2.6	43
	TOTAL CRUST. INDIV.		55	42	62	53.0	52.0	42	62	10.1	5.9	22.8	159
	TOTAL CRUST. SP.	9	6	6	6	6.0	6.0	6	6	0.0	0.0	0.0	18
	GAMMARID INDIV.		27	23	34	28.0	28.5	23	34	5.6	3.2	12.5	84
	GAMMARID SP.	6	4	5	4	4.3	4.5	4	5	0.6	0.3	1.3	13
	OTHER CRUSTACEAN INDIV.		28	19	28	25.0	23.5	19	28	5.2	3.0	11.7	75
	OTHER CRUSTACEAN SP.	3	2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL MOLLUSC SP.	3	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3

TOTAL POLYCHAETE INDIV.		120	130	236	162.0	178.0	120	236	64.3	37.1	144.6	486
TOTAL POLYCHAETE SP.	9	6	7	8	7.0	7.0	6	8	1.0	0.6	2.3	21

STANUM	STATION	IDORG	DATE	LEG
40010.2	OFF CABRILLO BEACH	29	08/18/92	2

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Apoprionospio pygmaea	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Armandia brevis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		33	52	44	43.0	42.5	33	52	9.5	5.5	21.5	129
Eranno lagunae	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus acutus	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		17	5	29	17.0	17.0	5	29	12.0	6.9	27.0	51
Nephtys caecoides	Polychaeta		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Nephtys cornuta	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Polydora cornuta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		17	13	49	26.3	31.0	13	49	19.7	11.4	44.4	79
Pseudopolydora paucibranchiata	Polychaeta		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Scoletoma erecta	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Streblospio benedicti	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
nemertea	Nemertea		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Listriella goleta	Amphipoda		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Euphilomedes carcharodonta	Ostracoda		2	1	12	5.0	6.5	1	12	6.1	3.5	13.7	15
Zeuxo normani	Tanaidacea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Corophium heteroceratum	Amphipoda		6	6	18	10.0	12.0	6	18	6.9	4.0	15.6	30
Synchelidium shoemakeri	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Grandidierella japonica	Amphipoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Bathyleberis californica	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mayerella banksia	Amphipoda		3	1	9	4.3	5.0	1	9	4.2	2.4	9.4	13
Mysella sp. B	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiaphana	Bivalvia		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Theora fragilis	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium ? acherusicum	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		91	94	173	119.3	132.0	91	173	46.5	26.8	104.6	358
	TOTAL SPECIES	27	18	18	15	17.0	16.5	15	18	1.7	1.0	3.9	51
	TOTAL CRUST. INDIV.		16	14	42	24.0	28.0	14	42	15.6	9.0	35.1	72
	TOTAL CRUST. SP.	10	8	7	5	6.7	6.5	5	8	1.5	0.9	3.4	20

GAMMARID INDIV.		13	12	30	18.3	21.0	12	30	10.1	5.8	22.8	55
GAMMARID SP.	7	6	5	4	5.0	5.0	4	6	1.0	0.6	2.3	15
OTHER CRUSTACEAN INDIV.		3	2	12	5.7	7.0	2	12	5.5	3.2	12.4	17
OTHER CRUSTACEAN SP.	3	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		3	0	2	1.7	1.5	0	3	1.5	0.9	3.4	5
TOTAL MOLLUSC SP.	3	2	0	2	1.3	1.0	0	2	1.2	0.7	2.6	4
TOTAL POLYCHAETE INDIV.		71	78	129	92.7	100.0	71	129	31.7	18.3	71.2	278
TOTAL POLYCHAETE SP.	13	7	10	8	8.3	8.5	7	10	1.5	0.9	3.4	25

STANUM	STATION	IDORG	DATE	LEG
40010.3	OFF CABRILLO BEACH	30	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta	0	2	4	2.0	2.0	0	4	2.0	1.2	4.5	6
Armandia brevis	Polychaeta	2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Cossura candida	Polychaeta	88	65	87	80.0	76.5	65	88	13.0	7.5	29.3	240
Mediomastus californiensis	Polychaeta	61	41	32	44.7	46.5	32	61	14.8	8.6	33.4	134
Nephtys caecoides	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Polydora cornuta	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Prionospio lighti	Polychaeta	80	53	36	56.3	58.0	36	80	22.2	12.8	49.9	169
Pseudopolydora paucibranchiata	Polychaeta	5	7	7	6.3	6.0	5	7	1.2	0.7	2.6	19
Scoletoma erecta	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nematoda	Nematoda	4	8	3	5.0	5.5	3	8	2.6	1.5	6.0	15
nemertea	Nemertea	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Corophium heteroceratum	Amphipoda	16	28	80	41.3	48.0	16	80	34.0	19.6	76.5	124
Grandidierella japonica	Amphipoda	11	10	17	12.7	13.5	10	17	3.8	2.2	8.5	38
Amphideutopus oculatus	Amphipoda	4	1	5	3.3	3.0	1	5	2.1	1.2	4.7	10
Euphilomedes carcharodonta	Ostracoda	14	23	41	26.0	27.5	14	41	13.7	7.9	30.9	78
Bathyleberis californica	Ostracoda	3	3	3	3.0	3.0	3	3	0.0	0.0	0.0	9
Mayerella banksia	Amphipoda	3	2	5	3.3	3.5	2	5	1.5	0.9	3.4	10
Lophopanopeus bellus	Decapoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Oxyrustylis pacifica	Cumacea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monoculodes hartmanae	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiaphana	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Protothaca staminea	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium ? acherusicum	Amphipoda		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
	TOTAL INDIVIDUALS		301	254	325	293.3	289.5	254	325	36.1	20.9	81.3	880
	TOTAL SPECIES	26	20	20	16	18.7	18.0	16	20	2.3	1.3	5.2	56
	TOTAL CRUST. INDIV.		54	71	151	92.0	102.5	54	151	51.8	29.9	116.5	276
	TOTAL CRUST. SP.	10	8	9	6	7.7	7.5	6	9	1.5	0.9	3.4	23
	GAMMARID INDIV.		36	44	107	62.3	71.5	36	107	38.9	22.5	87.5	187
	GAMMARID SP.	6	5	6	4	5.0	5.0	4	6	1.0	0.6	2.3	15
	OTHER CRUSTACEAN INDIV.		18	27	44	29.7	31.0	18	44	13.2	7.6	29.7	89
	OTHER CRUSTACEAN SP.	4	3	3	2	2.7	2.5	2	3	0.6	0.3	1.3	8
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL MOLLUSC SP.	3	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL POLYCHAETE INDIV.		239	174	171	194.7	205.0	171	239	38.4	22.2	86.5	584
	TOTAL POLYCHAETE SP.	11	8	9	9	8.7	8.5	8	9	0.6	0.3	1.3	26

STANUM	STATION	IDORG	DATE	LEG
40011.1	INNER HARBOR (CHANNEL 3)	31	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Aphelochaeta monilaris	Polychaeta	7	1	2	3.3	4.0	1	7	3.2	1.9	7.2	10
Aphelochaeta multifilis	Polychaeta	15	10	7	10.7	11.0	7	15	4.0	2.3	9.1	32
Chaetozone corona	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	39	14	41	31.3	27.5	14	41	15.0	8.7	33.9	94
Eranno lagunae	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone limnicola	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Euclymeninae spp. indet.	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Leitoscoloplos pugettensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta	7	1	9	5.7	5.0	1	9	4.2	2.4	9.4	17
Mediomastus californiensis	Polychaeta	20	3	8	10.3	11.5	3	20	8.7	5.0	19.7	31
Monticellina dorsobranchialis	Polychaeta	4	2	2	2.7	3.0	2	4	1.2	0.7	2.6	8
Monticellina sp. C	Polychaeta	4	1	0	1.7	2.0	0	4	2.1	1.2	4.7	5
Nephtys cornuta	Polychaeta	9	1	1	3.7	5.0	1	9	4.6	2.7	10.4	11
Pista alata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabra	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Poecilochaetus sp. A	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		5	1	0	2.0	2.5	0	5	2.6	1.5	6.0	6
Listriella goleta	Amphipoda		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Gnathia crenulatifrons	Isopoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Neotrypaea californiensis	Decapoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Crangon alaskensis elongata	Decapoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		4	0	3	2.3	2.0	0	4	2.1	1.2	4.7	7
Parvilucina tenuisculpta	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		121	38	81	80.0	79.5	38	121	41.5	24.0	93.4	240
	TOTAL SPECIES	24	17	13	15	15.0	15.0	13	17	2.0	1.2	4.5	45
	TOTAL CRUST. INDIV.		1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	TOTAL CRUST. SP.	4	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID SP.	1	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN SP.	3	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		4	0	4	2.7	2.0	0	4	2.3	1.3	5.2	8
	TOTAL MOLLUSC SP.	2	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL POLYCHAETE INDIV.		116	35	76	75.7	75.5	35	116	40.5	23.4	91.1	227
	TOTAL POLYCHAETE SP.	18	15	10	12	12.3	12.5	10	15	2.5	1.5	5.7	37

STANUM	STATION	IDORG	DATE	LEG
40011.2	INNER HARBOR (CHANNEL 3)	32	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta	5	3	5	4.3	4.0	3	5	1.2	0.7	2.6	13
Aphelochaeta multifilis	Polychaeta	3	3	4	3.3	3.5	3	4	0.6	0.3	1.3	10
Chaetozone corona	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	29	10	18	19.0	19.5	10	29	9.5	5.5	21.5	57
Euchone limnicola	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet.	Polychaeta	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Leitoscoloplos pugettensis	Polychaeta	3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Levinsenia gracilis	Polychaeta	2	1	5	2.7	3.0	1	5	2.1	1.2	4.7	8
Mediomastus californiensis	Polychaeta	2	3	17	7.3	9.5	2	17	8.4	4.8	18.9	22
Melinna oculata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina dorsobranchialis	Polychaeta	8	14	5	9.0	9.5	5	14	4.6	2.6	10.3	27

Monticellina sp. C	Polychaeta		3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Nephtys cornuta	Polychaeta		3	0	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Nereis procera	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Paramage scutata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Scoletoma inflata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma tetraura	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes missionensis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Listriella goleta	Amphipoda		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Euphilomedes carcharodonta	Ostracoda		6	0	0	2.0	3.0	0	6	3.5	2.0	7.8	6
Neotrypaea californiensis	Decapoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL INDIVIDUALS		80	42	61	61.0	61.0	42	80	19.0	11.0	42.8	183
	TOTAL SPECIES	25	20	13	12	15.0	16.0	12	20	4.4	2.5	9.8	45
	TOTAL CRUST. INDIV.		10	0	0	3.3	5.0	0	10	5.8	3.3	13.0	10
	TOTAL CRUST. SP.	3	3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
	GAMMARID INDIV.		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
	GAMMARID SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		7	0	0	2.3	3.5	0	7	4.0	2.3	9.1	7
	OTHER CRUSTACEAN SP.	2	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL MOLLUSC SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL POLYCHAETE INDIV.		65	41	60	55.3	53.0	41	65	12.7	7.3	28.5	166
	TOTAL POLYCHAETE SP.	20	15	12	11	12.7	13.0	11	15	2.1	1.2	4.7	38

STANUM	STATION	IDORG	DATE	LEG
40011.3	INNER HARBOR (CHANNEL 3)	33	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira horikoshii	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta	2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
Aphelochaeta multifilis	Polychaeta	4	5	5	4.7	4.5	4	5	0.6	0.3	1.3	14
Chaetozone corona	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	17	17	37	23.7	27.0	17	37	11.5	6.7	26.0	71

Euchone limnicola	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Laonice cirrata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Levinsenia gracilis	Polychaeta		2	4	1	2.3	2.5	1	4	1.5	0.9	3.4	7
Lumbrineris ? index	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		6	9	1	5.3	5.0	1	9	4.0	2.3	9.1	16
Monticellina dorsobranchialis	Polychaeta		4	3	6	4.3	4.5	3	6	1.5	0.9	3.4	13
Monticellina sp. C	Polychaeta		0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Nephtys cornuta	Polychaeta		7	9	6	7.3	7.5	6	9	1.5	0.9	3.4	22
Nereididae spp. juv.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pectinaria californiensis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Prionospio sp. A	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Sigambra tentaculata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes berkeleyorum	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblosoma sp. B	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides sp. juv.	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Euphilomedes carcharodonta	Ostracoda		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Monoculodes hartmanae	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Rictaxis punctocaelatus	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Neotrypaea californiensis	Decapoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Turbonilla sp.	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sulcoretusa xystrum	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		49	68	69	62.0	59.0	49	69	11.3	6.5	25.4	186
	TOTAL SPECIES	30	13	20	18	17.0	16.5	13	20	3.6	2.1	8.1	51
	TOTAL CRUST. INDIV.		1	4	1	2.0	2.5	1	4	1.7	1.0	3.9	6
	TOTAL CRUST. SP.	3	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	OTHER CRUSTACEAN SP.	2	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		3	3	1	2.3	2.0	1	3	1.2	0.7	2.6	7
	TOTAL MOLLUSC SP.	4	2	3	1	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL POLYCHAETE INDIV.		45	59	66	56.7	55.5	45	66	10.7	6.2	24.1	170
	TOTAL POLYCHAETE SP.	22	10	13	15	12.7	12.5	10	15	2.5	1.5	5.7	38

STANUM	STATION	IDORG	DATE	LEG
40011.4	INNER HARBOR (CHANNEL 3)	111	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amphicteis scaphobranchiata	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Aphelochaeta monilaris	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Aphelochaeta multifilis	Polychaeta	2	13	7	7.3	7.5	2	13	5.5	3.2	12.4	22
Chaetozone corona	Polychaeta	1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Cossura candida	Polychaeta	14	11	22	15.7	16.5	11	22	5.7	3.3	12.8	47
Euchone limnicola	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Euclymeninae spp. indet.	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Laonice cirrata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Levinsenia gracilis	Polychaeta	8	6	9	7.7	7.5	6	9	1.5	0.9	3.4	23
Lumbrineridae spp. juv.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	5	10	5	6.7	7.5	5	10	2.9	1.7	6.5	20
Monticellina dorsobranchialis	Polychaeta	7	1	4	4.0	4.0	1	7	3.0	1.7	6.8	12
Monticellina sp. C	Polychaeta	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Nephtys cornuta	Polychaeta	10	6	2	6.0	6.0	2	10	4.0	2.3	9.0	18
Paraprionospio pinnata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parougia caeca	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta	2	4	0	2.0	2.0	0	4	2.0	1.2	4.5	6
Prionospio sp. A	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Scoletoma erecta	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sigambra tentaculata	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblosoma sp. B	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes berkeleyorum	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spionidae sp. juv.	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides spp. juv.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
oligochaete	Oligochaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Westwoodilla caecula	Amphipoda	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Acuminodeutopus heteruropus	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pinnixa sp.	Decapoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Neotrypaea californiensis	Decapoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		56	71	67	64.7	63.5	56	71	7.8	4.5	17.5	194
	TOTAL SPECIES	36	15	23	22	20.0	19.0	15	23	4.4	2.5	9.8	60
	TOTAL CRUST. INDIV.		3	4	1	2.7	2.5	1	4	1.5	0.9	3.4	8
	TOTAL CRUST. SP.	7	3	4	1	2.7	2.5	1	4	1.5	0.9	3.4	8
	GAMMARID INDIV.		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	GAMMARID SP.	3	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	OTHER CRUSTACEAN INDIV.		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
	OTHER CRUSTACEAN SP.	4	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL POLYCHAETE INDIV.		52	64	64	60.0	58.0	52	64	6.9	4.0	15.6	180
	TOTAL POLYCHAETE SP.	25	11	17	19	15.7	15.0	11	19	4.2	2.4	9.4	47

STANUM	STATION	IDORG	DATE	LEG
40012.1	SOUTHEAST BASIN	34	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta multifilis	Polychaeta	3	4	1	2.7	2.5	1	4	1.5	0.9	3.4	8
Aphelochaeta monilaris	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	50	33	54	45.7	43.5	33	54	11.2	6.4	25.1	137
Euchone limnicola	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet.	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Glycinde armigera	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Leitoscoloplos pugettensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta	1	5	2	2.7	3.0	1	5	2.1	1.2	4.7	8
Monticellina dorsobranchialis	Polychaeta	3	4	6	4.3	4.5	3	6	1.5	0.9	3.4	13
Monticellina sp. C	Polychaeta	7	5	6	6.0	6.0	5	7	1.0	0.6	2.3	18
Nephtys cornuta	Polychaeta	6	3	13	7.3	8.0	3	13	5.1	3.0	11.5	22
Paramage scutata	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Paraprionospio pinnata	Polychaeta	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Poecilochaetus sp. A	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Prionospio heterobranchia	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		7	4	1	4.0	4.0	1	7	3.0	1.7	6.8	12
Spiophanes berkeleyorum	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides californica	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Bathyleberis californica	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		1	2	4	2.3	2.5	1	4	1.5	0.9	3.4	7
Amphideutopus oculatus	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		2	4	8	4.7	5.0	2	8	3.1	1.8	6.9	14
Cooperella subdiaphana	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Turbonilla sp.	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Odostomia sp.	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophioroidea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		86	74	107	89.0	90.5	74	107	16.7	9.6	37.6	267
	TOTAL SPECIES	30	15	17	19	17.0	17.0	15	19	2.0	1.2	4.5	51
	TOTAL CRUST. INDIV.		1	4	5	3.3	3.0	1	5	2.1	1.2	4.7	10
	TOTAL CRUST. SP.	4	1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
	GAMMARID INDIV.		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID SP.	2	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		1	3	4	2.7	2.5	1	4	1.5	0.9	3.4	8
	OTHER CRUSTACEAN SP.	2	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL ECHINODERM INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		2	4	11	5.7	6.5	2	11	4.7	2.7	10.6	17
	TOTAL MOLLUSC SP.	4	1	1	4	2.0	2.5	1	4	1.7	1.0	3.9	6
	TOTAL POLYCHAETE INDIV.		83	63	91	79.0	77.0	63	91	14.4	8.3	32.5	237
	TOTAL POLYCHAETE SP.	20	13	11	13	12.3	12.0	11	13	1.2	0.7	2.6	37

STANUM	STATION	IDORG	DATE	LEG
40012.2	SOUTHEAST BASIN	35	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Aphelochaeta monilaris	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	14	21	15	16.7	17.5	14	21	3.8	2.2	8.5	50
Euchone limnicola	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Glycera capitata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		3	10	11	8.0	7.0	3	11	4.4	2.5	9.8	24
Monticellina sp. C	Polychaeta		1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Nephtys cornuta	Polychaeta		0	4	5	3.0	2.5	0	5	2.6	1.5	6.0	9
Podarkeopsis sp. A	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		2	3	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Sigambra tentaculata	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
nemertea	Nemertea		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Bathyleberis californica	Ostracoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		7	6	12	8.3	9.0	6	12	3.2	1.9	7.2	25
Sulcoretusa xystrum	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophioroidea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		31	50	56	45.7	43.5	31	56	13.1	7.5	29.4	137
	TOTAL SPECIES	20	9	10	15	11.3	12.0	9	15	3.2	1.9	7.2	34
	TOTAL CRUST. INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL CRUST. SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		7	7	14	9.3	10.5	7	14	4.0	2.3	9.1	28
	TOTAL MOLLUSC SP.	3	1	2	3	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL POLYCHAETE INDIV.		22	42	40	34.7	32.0	22	42	11.0	6.4	24.8	104
	TOTAL POLYCHAETE SP.	14	6	7	11	8.0	8.5	6	11	2.6	1.5	6.0	24

STANUM	STATION	IDORG	DATE	LEG
40012.3	SOUTHEAST BASIN	36	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Amaeana occidentalis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta	6	9	7	7.3	7.5	6	9	1.5	0.9	3.4	22
Aphelochaeta multifilis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Cossura candida	Polychaeta		14	15	38	22.3	26.0	14	38	13.6	7.8	30.5	67
Euchone limnicola	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet.	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Gyptis plurisetis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		0	0	6	2.0	3.0	0	6	3.5	2.0	7.8	6
Mediomastus californiensis	Polychaeta		0	13	19	10.7	9.5	0	19	9.7	5.6	21.9	32
Monticellina dorsobranchialis	Polychaeta		2	1	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Monticellina sp. C	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Nephtys cornuta	Polychaeta		0	0	9	3.0	4.5	0	9	5.2	3.0	11.7	9
Nereis procera	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Notomastus tenuis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Paramage scutata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis sp. A	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Sigambra tentaculata	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Streblosoma sp. B	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Sphaerosyllis californiensis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes missionensis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		1	3	4	2.7	2.5	1	4	1.5	0.9	3.4	8
Listriella goleta	Amphipoda		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Euphilomedes carcharodonta	Ostracoda		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Pinnixa franciscana	Decapoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Serolis carinata	Isopoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		3	0	10	4.3	5.0	0	10	5.1	3.0	11.5	13
Sulcoretusa xystrum	Gastropoda		0	0	4	1.3	2.0	0	4	2.3	1.3	5.2	4
Cylichna diegensis	Gastropoda		0	0	4	1.3	2.0	0	4	2.3	1.3	5.2	4
Mysella tumida	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Thyasira flexosa	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Macoma sp.	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
	TOTAL INDIVIDUALS		32	48	130	70.0	81.0	32	130	52.6	30.4	118.3	210
	TOTAL SPECIES	34	11	11	30	17.3	20.5	11	30	11.0	6.3	24.7	52
	TOTAL CRUST. INDIV.		1	3	4	2.7	2.5	1	4	1.5	0.9	3.4	8
	TOTAL CRUST. SP.	4	1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	GAMMARID INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
	OTHER CRUSTACEAN SP.	3	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0

TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		4	0	24	9.3	12.0	0	24	12.9	7.4	28.9	28
TOTAL MOLLUSC SP.	7	2	0	7	3.0	3.5	0	7	3.6	2.1	8.1	9
TOTAL POLYCHAETE INDIV.		26	42	98	55.3	62.0	26	98	37.8	21.8	85.1	166
TOTAL POLYCHAETE SP.	22	7	8	20	11.7	13.5	7	20	7.2	4.2	16.3	35

STANUM	STATION	IDORG	DATE	LEG
40013.1	INNER QUEENSWAY BAY	37	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaeta		3	1	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Euchone limnicola	Polychaeta		0	5	6	3.7	3.0	0	6	3.2	1.9	7.2	11
Leitoscoloplos pugettensis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		34	20	29	27.7	27.0	20	34	7.1	4.1	16.0	83
Nephtys caecoides	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Prionospio lighti	Polychaeta		22	4	14	13.3	13.0	4	22	9.0	5.2	20.3	40
Scolelepis quinquedentata	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
nemertea	Nemertea		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Corophium ? acherusicum	Amphipoda		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mayerella banksia	Amphipoda		3	7	0	3.3	3.5	0	7	3.5	2.0	7.9	10
Grandidierella japonica	Amphipoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Theora fragilis	Bivalvia		5	10	6	7.0	7.5	5	10	2.6	1.5	6.0	21
Parvilucina tenuisculpta	Bivalvia		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Phoronid	Phoronida		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		72	53	63	62.7	62.5	53	72	9.5	5.5	21.4	188
	TOTAL SPECIES	16	10	11	9	10.0	10.0	9	11	1.0	0.6	2.3	30
	TOTAL CRUST. INDIV.		4	8	2	4.7	5.0	2	8	3.1	1.8	6.9	14
	TOTAL CRUST. SP.	3	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
	GAMMARID INDIV.		4	8	2	4.7	5.0	2	8	3.1	1.8	6.9	14
	GAMMARID SP.	3	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		6	11	6	7.7	8.5	6	11	2.9	1.7	6.5	23
	TOTAL MOLLUSC SP.	2	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5

TOTAL POLYCHAETE INDIV.		60	33	54	49.0	46.5	33	60	14.2	8.2	31.9	147
TOTAL POLYCHAETE SP.	9	4	6	6	5.3	5.0	4	6	1.2	0.7	2.6	16

STANUM	STATION	IDORG	DATE	LEG
40013.2	INNER QUEENSWAY BAY	38	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Armandia brevis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Capitella capitata	Polychaeta		11	3	2	5.3	6.5	2	11	4.9	2.8	11.1	16
Cossura candida	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Dorvillea longicornis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone limnicola	Polychaeta		4	2	9	5.0	5.5	2	9	3.6	2.1	8.1	15
Mediomastus californiensis	Polychaeta		17	9	16	14.0	13.0	9	17	4.4	2.5	9.8	42
Monticellina dorsobranchialis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nereis procera	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Owenia collaris	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaeta		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Prionospio heterobranchia	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		18	9	8	11.7	13.0	8	18	5.5	3.2	12.4	35
Pseudopolydora paucibranchiata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scolelepis quinquedentata	Polychaeta		2	3	4	3.0	3.0	2	4	1.0	0.6	2.3	9
Spiophanes missionensis	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
nemertea	Nemertea		1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Corophium ? acherusicum	Amphipoda		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Mayerella banksia	Amphipoda		2	0	5	2.3	2.5	0	5	2.5	1.5	5.7	7
Rudilemboides stenopropodus	Amphipoda		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Tritella sp.	Amphipoda		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Photis sp.	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Oxyurostylis pacifica	Cumacea		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mysella sp. A	Bivalvia		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Theora fragilis	Bivalvia		4	7	17	9.3	10.5	4	17	6.8	3.9	15.3	28
Cooperella subdiaphana	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
flatworm	Platyhelminthes		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		68	49	71	62.7	60.0	49	71	11.9	6.9	26.8	188
	TOTAL SPECIES	27	16	17	13	15.3	15.0	13	17	2.1	1.2	4.7	46
	TOTAL CRUST. INDIV.		4	5	10	6.3	7.0	4	10	3.2	1.9	7.2	19
	TOTAL CRUST. SP.	6	2	3	4	3.0	3.0	2	4	1.0	0.6	2.3	9

GAMMARID INDIV.		4	5	8	5.7	6.0	4	8	2.1	1.2	4.7	17
GAMMARID SP.	5	2	3	3	2.7	2.5	2	3	0.6	0.3	1.3	8
OTHER CRUSTACEAN INDIV.		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
OTHER CRUSTACEAN SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		4	10	18	10.7	11.0	4	18	7.0	4.1	15.8	32
TOTAL MOLLUSC SP.	3	1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
TOTAL POLYCHAETE INDIV.		58	33	40	43.7	45.5	33	58	12.9	7.4	29.0	131
TOTAL POLYCHAETE SP.	16	11	11	6	9.3	8.5	6	11	2.9	1.7	6.5	28

STANUM	STATION	IDORG	DATE	LEG
40013.3	INNER QUEENSWAY BAY	39	09/02/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Armandia brevis	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Capitella capitata	Polychaeta	5	9	1	5.0	5.0	1	9	4.0	2.3	9.0	15
Chaetozpne corona	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirriformia spirabrancha	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Dorvillea longicornis	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Euchone limnicola	Polychaeta	4	3	1	2.7	2.5	1	4	1.5	0.9	3.4	8
Glycera convoluta	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	21	34	29	28.0	27.5	21	34	6.6	3.8	14.8	84
Monticellina sp. C	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Owenia collaris	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Paraprionospio pinnata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaeta	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Prionospio heterobranchia	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Prionospio lighti	Polychaeta	15	11	10	12.0	12.5	10	15	2.6	1.5	6.0	36
Prionospio spp. juv.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scolelepis quinquedentata	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Spiophanes missionensis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Corophium ? acherusicum	Amphipoda	5	3	2	3.3	3.5	2	5	1.5	0.9	3.4	10
Theora fragilis	Bivalvia	7	10	1	6.0	5.5	1	10	4.6	2.6	10.3	18
Cooperella subdiphana	Bivalvia	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Mayerella banksia	Amphipoda	5	11	0	5.3	5.5	0	11	5.5	3.2	12.4	16

Laevicardium substriatum	Bivalvia		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Leptostylis sp.	Cumacea		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
flatworm	Platyhelminthes		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		72	93	54	73.0	73.5	54	93	19.5	11.3	43.9	219
	TOTAL SPECIES	26	15	16	15	15.3	15.5	15	16	0.6	0.3	1.3	46
	TOTAL CRUST. INDIV.		12	14	2	9.3	8.0	2	14	6.4	3.7	14.5	28
	TOTAL CRUST. SP.	3	3	2	1	2.0	2.0	1	3	1.0	0.6	2.3	6
	GAMMARID INDIV.		10	14	2	8.7	8.0	2	14	6.1	3.5	13.7	26
	GAMMARID SP.	2	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
	OTHER CRUSTACEAN INDIV.		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	OTHER CRUSTACEAN SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		8	13	2	7.7	7.5	2	13	5.5	3.2	12.4	23
	TOTAL MOLLUSC SP.	3	2	3	2	2.3	2.5	2	3	0.6	0.3	1.3	7
	TOTAL POLYCHAETE INDIV.		51	66	50	55.7	58.0	50	66	9.0	5.2	20.2	167
	TOTAL POLYCHAETE SP.	19	9	11	12	10.7	10.5	9	12	1.5	0.9	3.4	32

STANUM	STATION	IDORG	DATE	LEG
40014.1	OUTER QUEENSWAY BAY	40	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Apoprionospio pygmaea	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		8	13	5	8.7	9.0	5	13	4.0	2.3	9.1	26
Mediomastus californiensis	Polychaeta		0	3	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Nephtys cornuta	Polychaeta		2	3	2	2.3	2.5	2	3	0.6	0.3	1.3	7
Paraprionospio pinnata	Polychaeta		6	5	13	8.0	9.0	5	13	4.4	2.5	9.8	24
Prionospio lighti	Polychaeta		0	0	5	1.7	2.5	0	5	2.9	1.7	6.5	5
Sigambra tentaculata	Polychaeta		0	2	6	2.7	3.0	0	6	3.1	1.8	6.9	8
Tenonia priops	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphideutopus oculatus	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Phoronid	Phoronida		7	1	0	2.7	3.5	0	7	3.8	2.2	8.5	8
	TOTAL INDIVIDUALS		24	28	35	29.0	29.5	24	35	5.6	3.2	12.5	87
	TOTAL SPECIES	10	5	7	8	6.7	6.5	5	8	1.5	0.9	3.4	20
	TOTAL CRUST. INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL CRUST. SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL POLYCHAETE INDIV.		17	27	34	26.0	25.5	17	34	8.5	4.9	19.2	78
TOTAL POLYCHAETE SP.	8	4	6	7	5.7	5.5	4	7	1.5	0.9	3.4	17

STANUM	STATION	IDORG	DATE	LEG
40014.2	OUTER QUEENSWAY BAY	41	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Cossura candida	Polychaeta		17	21	17	18.3	19.0	17	21	2.3	1.3	5.2	55
Mediomastus californiensis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		7	0	1	2.7	3.5	0	7	3.8	2.2	8.5	8
Polydora spp. juv.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sigambra tentaculata	Polychaeta		1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
	TOTAL INDIVIDUALS		26	25	21	24.0	23.5	21	26	2.6	1.5	6.0	72
	TOTAL SPECIES	5	4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	TOTAL CRUST. INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		26	25	21	24.0	23.5	21	26	2.6	1.5	6.0	72
	TOTAL POLYCHAETE SP.	5	4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10

STANUM	STATION	IDORG	DATE	LEG
40014.3	OUTER QUEENSWAY BAY	42	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Apoprionospio pygmaea	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		14	12	25	17.0	18.5	12	25	7.0	4.0	15.8	51
Mediomastus californiensis	Polychaeta		3	1	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Paraprionospio pinnata	Polychaeta		5	12	2	6.3	7.0	2	12	5.1	3.0	11.5	19
Sigambra tentaculata	Polychaeta		3	0	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Spiochaetopterus costarum	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Phoronid	Phoronida		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		27	27	31	28.3	29.0	27	31	2.3	1.3	5.2	85
	TOTAL SPECIES	8	6	5	4	5.0	5.0	4	6	1.0	0.6	2.3	15
	TOTAL CRUST. INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		27	26	31	28.0	28.5	26	31	2.6	1.5	6.0	84
	TOTAL POLYCHAETE SP.	7	6	4	4	4.7	5.0	4	6	1.2	0.7	2.6	14

STANUM	STATION	IDORG	DATE	LEG
40015.1	FISH HARBOR ENTRANCE	43	08/19/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta	3	3	6	4.0	4.5	3	6	1.7	1.0	3.9	12
Chaetozone corona	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta	18	13	32	21.0	22.5	13	32	9.8	5.7	22.2	63
Glycera americana	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Glycinde armigera	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Levinsenia gracilis	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Lumbrineridae spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus acutus	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		35	22	22	26.3	28.5	22	35	7.5	4.3	16.9	79
Monticellina dorsobranchialis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Nephtys caecoides	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Prionospio lighti	Polychaeta		12	14	10	12.0	12.0	10	14	2.0	1.2	4.5	36
Scoletoma erecta	Polychaeta		3	2	2	2.3	2.5	2	3	0.6	0.3	1.3	7
Spiophanes missionensis	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Argissa hamatipes	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampelisia cristata	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Bathyleberis californica	Ostracoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		0	0	5	1.7	2.5	0	5	2.9	1.7	6.5	5
Leptostylis sp.	Cumacea		4	4	6	4.7	5.0	4	6	1.2	0.7	2.6	14
Oxyurostylis pacifica	Cumacea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		3	1	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Cooperella subdiaphana	Bivalvia		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Mactra californica	Bivalvia		2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
Laevicardium substriatum	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		89	72	96	85.7	84.0	72	96	12.3	7.1	27.8	257
	TOTAL SPECIES	28	16	18	17	17.0	17.0	16	18	1.0	0.6	2.3	51
	TOTAL CRUST. INDIV.		5	6	13	8.0	9.0	5	13	4.4	2.5	9.8	24
	TOTAL CRUST. SP.	7	2	3	4	3.0	3.0	2	4	1.0	0.6	2.3	9
	GAMMARID INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID SP.	3	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN INDIV.		4	4	13	7.0	8.5	4	13	5.2	3.0	11.7	21
	OTHER CRUSTACEAN SP.	4	1	1	4	2.0	2.5	1	4	1.7	1.0	3.9	6
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		8	4	6	6.0	6.0	4	8	2.0	1.2	4.5	18
	TOTAL MOLLUSC SP.	4	4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	TOTAL POLYCHAETE INDIV.		76	62	77	71.7	69.5	62	77	8.4	4.8	18.9	215
	TOTAL POLYCHAETE SP.	17	10	12	10	10.7	11.0	10	12	1.2	0.7	2.6	32

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40015.2	FISH HARBOR ENTRANCE	44	08/19/92	2

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Apoprionospio pygmaea	Polychaeta		10	3	1	4.7	5.5	1	10	4.7	2.7	10.6	14
Chaetozone corona	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		13	7	17	12.3	12.0	7	17	5.0	2.9	11.3	37
Eranno lagunae	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Lumbrineridae spp. juv.	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta		13	24	10	15.7	17.0	10	24	7.4	4.3	16.6	47
Monticellina dorsobranchialis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Nephtys caecoides	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Polydora cornuta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Scoletoma erecta	Polychaeta		5	3	2	3.3	3.5	2	5	1.5	0.9	3.4	10
Spiochaetopterus costarum	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Argissa hamatipes	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampelisca cristata	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		3	1	3	2.3	2.0	1	3	1.2	0.7	2.6	7
Rudilemboides stenopropodus	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Oxyurostylis pacifica	Cumacea		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Leptostylis sp.	Cumacea		2	5	4	3.7	3.5	2	5	1.5	0.9	3.4	11
Euphilomedes carcharodonta	Ostracoda		8	0	1	3.0	4.0	0	8	4.4	2.5	9.8	9
Pinnixa occidentalis	Decapoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiaphana	Bivalvia		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Theora fragilis	Bivalvia		2	3	1	2.0	2.0	1	3	1.0	0.6	2.3	6
Mactra californica	Bivalvia		12	7	1	6.7	6.5	1	12	5.5	3.2	12.4	20
Tagelus subteres	Bivalvia		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Aglajidae	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		77	69	52	66.0	64.5	52	77	12.8	7.4	28.7	198
	TOTAL SPECIES	30	17	20	19	18.7	18.5	17	20	1.5	0.9	3.4	56
	TOTAL CRUST. INDIV.		16	8	9	11.0	12.0	8	16	4.4	2.5	9.8	33
	TOTAL CRUST. SP.	8	6	4	4	4.7	5.0	4	6	1.2	0.7	2.6	14

GAMMARID INDIV.		6	1	3	3.3	3.5	1	6	2.5	1.5	5.7	10
GAMMARID SP.	4	4	1	1	2.0	2.5	1	4	1.7	1.0	3.9	6
OTHER CRUSTACEAN INDIV.		10	7	6	7.7	8.0	6	10	2.1	1.2	4.7	23
OTHER CRUSTACEAN SP.	4	2	3	3	2.7	2.5	2	3	0.6	0.3	1.3	8
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		16	12	7	11.7	11.5	7	16	4.5	2.6	10.1	35
TOTAL MOLLUSC SP.	5	3	4	5	4.0	4.0	3	5	1.0	0.6	2.3	12
TOTAL POLYCHAETE INDIV.		45	49	35	43.0	42.0	35	49	7.2	4.2	16.2	129
TOTAL POLYCHAETE SP.	16	8	12	9	9.7	10.0	8	12	2.1	1.2	4.7	29

STANUM	STATION	IDORG	DATE	LEG
40015.3	FISH HARBOR ENTRANCE	45	08/19/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amphicteis scaphobranchiata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta	2	3	2	2.3	2.5	2	3	0.6	0.3	1.3	7
Chaetozone corona	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	2	2	7	3.7	4.5	2	7	2.9	1.7	6.5	11
Glycera americana	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Malmgreniella macginitiei	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus acutus	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	24	21	13	19.3	18.5	13	24	5.7	3.3	12.8	58
Monticellina sp. C	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Notomastus tenuis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabra	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Pseudopolydora paucibranchiata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta	4	1	2	2.3	2.5	1	4	1.5	0.9	3.4	7
Spiophanes missionensis	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
nemertea	Nemertea	4	1	1	2.0	2.5	1	4	1.7	1.0	3.9	6
Argissa hamatipes	Amphipoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda	6	2	6	4.7	4.0	2	6	2.3	1.3	5.2	14
Rudilemboides stenopropodus	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda	4	8	3	5.0	5.5	3	8	2.6	1.5	6.0	15
Microjassa litotes	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia	3	0	2	1.7	1.5	0	3	1.5	0.9	3.4	5

Cooperella subdiaphana	Bivalvia		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Mactra californica	Bivalvia		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Tagelus subteres	Bivalvia		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Solen sp.	Bivalvia		1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Mysella tumida	Bivalvia		7	0	0	2.3	3.5	0	7	4.0	2.3	9.1	7
Tapes philippinarum	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Olivella baetica	Gastropoda		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Laevicardium substriatum	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Siliqua lucida	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		67	48	52	55.7	57.5	48	67	10.0	5.8	22.5	167
	TOTAL SPECIES	33	20	16	19	18.3	18.0	16	20	2.1	1.2	4.7	55
	TOTAL CRUST. INDIV.		11	13	9	11.0	11.0	9	13	2.0	1.2	4.5	33
	TOTAL CRUST. SP.	6	3	5	2	3.3	3.5	2	5	1.5	0.9	3.4	10
	GAMMARID INDIV.		7	5	6	6.0	6.0	5	7	1.0	0.6	2.3	18
	GAMMARID SP.	5	2	4	1	2.3	2.5	1	4	1.5	0.9	3.4	7
	OTHER CRUSTACEAN INDIV.		4	8	3	5.0	5.5	3	8	2.6	1.5	6.0	15
	OTHER CRUSTACEAN SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		17	2	12	10.3	9.5	2	17	7.6	4.4	17.2	31
	TOTAL MOLLUSC SP.	11	9	2	7	6.0	5.5	2	9	3.6	2.1	8.1	18
	TOTAL POLYCHAETE INDIV.		35	32	30	32.3	32.5	30	35	2.5	1.5	5.7	97
	TOTAL POLYCHAETE SP.	15	7	8	9	8.0	8.0	7	9	1.0	0.6	2.3	24

STANUM	STATION	IDORG	DATE	LEG
40016.1	TERMINAL ISLAND STP	46	08/18/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta monilaris	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Aphelochaeta multifilis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Chaetozone corona	Polychaeta	1	2	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Cossura candida	Polychaeta	26	25	27	26.0	26.0	25	27	1.0	0.6	2.3	78
Euclymeninae spp. indet.	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycinde armigera	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta	5	2	2	3.0	3.5	2	5	1.7	1.0	3.9	9
Mediomastus californiensis	Polychaeta	17	17	21	18.3	19.0	17	21	2.3	1.3	5.2	55

Monticellina dorsobranchialis	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Monticellina sp. C	Polychaeta		12	5	0	5.7	6.0	0	12	6.0	3.5	13.6	17
Nephtys caecoides	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
Prionospio lighti	Polychaeta		2	4	1	2.3	2.5	1	4	1.5	0.9	3.4	7
Scoletoma erecta	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Terebellides californica	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Bathyleberis californica	Ostracoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leptostylis sp.	Cumacea		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Oxyurostylis pacifica	Cumacea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Acuminodeutopus heteruropus	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Agrissa hamatipes	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Macoma yoldiformis	Bivalvia		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Theora fragilis	Bivalvia		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Tellina modesta	Bivalvia		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cooperella subdiaphana	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Laevicardium substriatum	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mactra californica	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Anthozoa	Anthozoa		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cyclaspis sp.	Cumacea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		80	72	63	71.7	71.5	63	80	8.5	4.9	19.1	215
	TOTAL SPECIES	32	21	18	12	17.0	16.5	12	21	4.6	2.6	10.3	51
	TOTAL CRUST. INDIV.		4	3	2	3.0	3.0	2	4	1.0	0.6	2.3	9
	TOTAL CRUST. SP.	7	4	3	2	3.0	3.0	2	4	1.0	0.6	2.3	9
	GAMMARID INDIV.		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	GAMMARID SP.	2	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	OTHER CRUSTACEAN INDIV.		4	1	2	2.3	2.5	1	4	1.5	0.9	3.4	7
	OTHER CRUSTACEAN SP.	5	4	1	2	2.3	2.5	1	4	1.5	0.9	3.4	7
	TOTAL ECHINODERM INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		7	2	2	3.7	4.5	2	7	2.9	1.7	6.5	11
	TOTAL MOLLUSC SP.	6	5	1	2	2.7	3.0	1	5	2.1	1.2	4.7	8
	TOTAL POLYCHAETE INDIV.		68	65	59	64.0	63.5	59	68	4.6	2.6	10.3	192
	TOTAL POLYCHAETE SP.	16	11	12	8	10.3	10.0	8	12	2.1	1.2	4.7	31

STANUM	STATION	IDORG	DATE	LEG

Benthic Community Data

40016.2 TERMINAL ISLAND STP 47 08/18/92 2

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphicteis scaphobranchiata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta		6	1	2	3.0	3.5	1	6	2.6	1.5	6.0	9
Chaetozone corona	Polychaeta		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Cossura candida	Polychaeta		35	17	18	23.3	26.0	17	35	10.1	5.8	22.8	70
Eranno lagunae	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Goniada littorea	Polychaeta		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Levinsenia gracilis	Polychaeta		1	1	5	2.3	3.0	1	5	2.3	1.3	5.2	7
Mediomastus californiensis	Polychaeta		38	31	36	35.0	34.5	31	38	3.6	2.1	8.1	105
Monticellina dorsobranchialis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Nephtys cornuta	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Pista alata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		155	1	4	53.3	78.0	1	155	88.1	50.8	198.1	160
nemertea	Nemertea		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Euphilomedes carcharodonta	Ostracoda		0	0	6	2.0	3.0	0	6	3.5	2.0	7.8	6
Bathyleberis californica	Ostracoda		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Leptostylis sp.	Cumacea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampelisca cristata	Amphipoda		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Tellina modesta	Bivalvia		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Cooperella subdiaphana	Bivalvia		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Mactra californica	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Odostomia sp.	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Macoma ?	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		244	60	86	130.0	152.0	60	244	99.6	57.5	224.1	390
	TOTAL SPECIES	25	12	12	16	13.3	14.0	12	16	2.3	1.3	5.2	40
	TOTAL CRUST. INDIV.		2	2	8	4.0	5.0	2	8	3.5	2.0	7.8	12
	TOTAL CRUST. SP.	5	1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID SP.	2	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		2	0	7	3.0	3.5	0	7	3.6	2.1	8.1	9
	OTHER CRUSTACEAN SP.	3	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0

TOTAL MOLLUSC INDIV.		2	0	6	2.7	3.0	0	6	3.1	1.8	6.9	8
TOTAL MOLLUSC SP.	5	2	0	4	2.0	2.0	0	4	2.0	1.2	4.5	6
TOTAL POLYCHAETE INDIV.		239	58	70	122.3	148.5	58	239	101.2	58.4	227.7	367
TOTAL POLYCHAETE SP.	14	8	11	8	9.0	9.5	8	11	1.7	1.0	3.9	27

STANUM	STATION	IDORG	DATE	LEG
40016.3	TERMINAL ISLAND STP	48	08/18/92	2

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira horidoshii	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta multifilis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Cossura candida	Polychaeta		27	37	40	34.7	33.5	27	40	6.8	3.9	15.3	104
Euclymeninae spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta		2	7	6	5.0	4.5	2	7	2.6	1.5	6.0	15
Mediomastus californiensis	Polychaeta		9	22	7	12.7	14.5	7	22	8.1	4.7	18.3	38
Monticellina dorsobranchialis	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Monticellina sp. C	Polychaeta		7	9	5	7.0	7.0	5	9	2.0	1.2	4.5	21
Nephtys cornuta	Polychaeta		4	2	4	3.3	3.0	2	4	1.2	0.7	2.6	10
Nereis procera	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amaeana occidentalis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		24	58	8	30.0	33.0	8	58	25.5	14.7	57.5	90
Scoletoma erecta	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
Euphilomedes carcharodonta	Ostracoda		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Bathyleberis californica	Ostracoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella goleta	Amphipoda		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Theora fragilis	Bivalvia		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Tellina modesta	Bivalvia		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cooperella subdiaphana	Bivalvia		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Macoma ?	Bivalvia		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mysella sp. A	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		80	149	87	105.3	114.5	80	149	38.0	21.9	85.5	316
	TOTAL SPECIES	25	13	15	17	15.0	15.0	13	17	2.0	1.2	4.5	45
	TOTAL CRUST. INDIV.		1	2	3	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL CRUST. SP.	3	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4

GAMMARID INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
GAMMARID SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
OTHER CRUSTACEAN INDIV.		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
OTHER CRUSTACEAN SP.	2	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		2	1	8	3.7	4.5	1	8	3.8	2.2	8.5	11
TOTAL MOLLUSC SP.	5	2	1	5	2.7	3.0	1	5	2.1	1.2	4.7	8
TOTAL POLYCHAETE INDIV.		76	143	73	97.3	108.0	73	143	39.6	22.8	89.0	292
TOTAL POLYCHAETE SP.	16	9	12	9	10.0	10.5	9	12	1.7	1.0	3.9	30

STANUM	STATION	IDORG	DATE	LEG
40017.1	LONG BEACH CHANNEL	49	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta		2	2	3	2.3	2.5	2	3	0.6	0.3	1.3	7
Aphelochaeta monilaris	Polychaeta		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Aphelochaeta multifilis	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Chaetozona corona	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Chaetozona sp. 1	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		8	4	14	8.7	9.0	4	14	5.0	2.9	11.3	26
Dorvillea moniloceras	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet.	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Glycera americana	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Mediomastus californiensis	Polychaeta		9	10	8	9.0	9.0	8	10	1.0	0.6	2.3	27
Monticellina dorsobranchialis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		3	3	1	2.3	2.0	1	3	1.2	0.7	2.6	7
Nephtys cornuta	Polychaeta		0	3	4	2.3	2.0	0	4	2.1	1.2	4.7	7
Nereis procera	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis sp. A	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Prionospio lighti	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Spiophanes missionensis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Euphilomedes carcharodonta	Ostracoda		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Agrissa hamatipes	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		31	31	41	34.3	36.0	31	41	5.8	3.3	13.0	103
	TOTAL SPECIES	21	12	12	13	12.3	12.5	12	13	0.6	0.3	1.3	37

TOTAL CRUST. INDIV.		0	1	3	1.3	1.5	0	3	1.5	0.9	3.4	4
TOTAL CRUST. SP.	2	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
GAMMARID INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
GAMMARID SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
OTHER CRUSTACEAN INDIV.		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
OTHER CRUSTACEAN SP.	1	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL POLYCHAETE INDIV.		31	28	38	32.3	33.0	28	38	5.1	3.0	11.5	97
TOTAL POLYCHAETE SP.	18	12	10	11	11.0	11.0	10	12	1.0	0.6	2.3	33

STANUM	STATION	IDORG	DATE	LEG
40017.2	LONG BEACH CHANNEL	50	09/02/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
Aphelochaeta monilaris	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta multifilis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	15	25	4	14.7	14.5	4	25	10.5	6.1	23.6	44
Eranno lagunae	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Euclymeninae spp. indet.	Polychaeta	0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Glycera americana	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Laonice cirrata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Malmgreniella macginitiei	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	0	6	3	3.0	3.0	0	6	3.0	1.7	6.8	9
Monticellina sp. C	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Nephtys cornuta	Polychaeta	1	7	0	2.7	3.5	0	7	3.8	2.2	8.5	8
Notomastus tenuis	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Paraprionospio pinnata	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista brevibranchiata	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta	1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Scoletoma erecta	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Bathyleberis californica	Ostracoda	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Euphilomedes carcharodonta	Ostracoda	0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3

Listriella goleta	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Agrissa hamatipes	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Amphiodia sp.	Ophiuroidea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		24	65	14	34.3	39.5	14	65	27.0	15.6	60.8	103
	TOTAL SPECIES	26	8	22	6	12.0	14.0	6	22	8.7	5.0	19.6	36
	TOTAL CRUST. INDIV.		1	7	0	2.7	3.5	0	7	3.8	2.2	8.5	8
	TOTAL CRUST. SP.	5	1	5	0	2.0	2.5	0	5	2.6	1.5	6.0	6
	GAMMARID INDIV.		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
	GAMMARID SP.	3	0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
	OTHER CRUSTACEAN INDIV.		1	4	0	1.7	2.0	0	4	2.1	1.2	4.7	5
	OTHER CRUSTACEAN SP.	2	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL MOLLUSC SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL POLYCHAETE INDIV.		23	54	14	30.3	34.0	14	54	21.0	12.1	47.2	91
	TOTAL POLYCHAETE SP.	18	7	14	6	9.0	10.0	6	14	4.4	2.5	9.8	27

STANUM	STATION	IDORG	DATE	LEG
40017.3	LONG BEACH CHANNEL	51	09/02/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	5	2	1	2.7	3.0	1	5	2.1	1.2	4.7	8
Aphelochaeta monilaris	Polychaeta	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Aphelochaeta multifilis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozona corona	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	13	10	12	11.7	11.5	10	13	1.5	0.9	3.4	35
Euclymeninae spp. indet.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	2	4	2	2.7	3.0	2	4	1.2	0.7	2.6	8
Levinsenia gracilis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	10	8	5	7.7	7.5	5	10	2.5	1.5	5.7	23
Monticellina dorsobranchialis	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Monticellina sp. C	Polychaeta	2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
Nephtys caecoides	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta	14	3	8	8.3	8.5	3	14	5.5	3.2	12.4	25
Podarkeopsis sp. A	Polychaeta	0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4

Prionospio lighti	Polychaeta		6	3	1	3.3	3.5	1	6	2.5	1.5	5.7	10
Prionspio sp. A	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
nemertea	Nemertea		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Euphilomedes carcharodonta	Ostracoda		5	1	1	2.3	3.0	1	5	2.3	1.3	5.2	7
Listriella goleta	Amphipoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Agrissa hamatipes	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Parvilucina tenuisculpta	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nuculana taphria	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Macoma yoldiformis	Bivalvia		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Nassarius perpinguis	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cooperella subdiaphana	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gasteropteron pacificum	Gastropoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cylichna diegensis	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pandora punctata	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mya ?	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		70	48	43	53.7	56.5	43	70	14.4	8.3	32.3	161
	TOTAL SPECIES	33	19	21	18	19.3	19.5	18	21	1.5	0.9	3.4	58
	TOTAL CRUST. INDIV.		7	3	1	3.7	4.0	1	7	3.1	1.8	6.9	11
	TOTAL CRUST. SP.	4	3	3	1	2.3	2.0	1	3	1.2	0.7	2.6	7
	GAMMARID INDIV.		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
	GAMMARID SP.	3	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
	OTHER CRUSTACEAN INDIV.		5	1	1	2.3	3.0	1	5	2.3	1.3	5.2	7
	OTHER CRUSTACEAN SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	TOTAL ECHINODERM INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC INDIV.		6	5	3	4.7	4.5	3	6	1.5	0.9	3.4	14
	TOTAL MOLLUSC SP.	11	5	5	3	4.3	4.0	3	5	1.2	0.7	2.6	13
	TOTAL POLYCHAETE INDIV.		56	37	39	44.0	46.5	37	56	10.4	6.0	23.5	132
	TOTAL POLYCHAETE SP.	16	10	11	14	11.7	12.0	10	14	2.1	1.2	4.7	35

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40018.1	LONG BEACH OUTER HAR.-18	52	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Aphelochaeta multifilis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		45	42	54	47.0	48.0	42	54	6.2	3.6	14.1	141
Euchone hancocki	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Lumbrineridae spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Nephtys cornuta	Polychaeta		1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Paraprionospio pinnata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis sp. A	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		0	7	1	2.7	3.5	0	7	3.8	2.2	8.5	8
Sigambra tentaculata	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Streblosoma sp. B	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		2	0	3	1.7	1.5	0	3	1.5	0.9	3.4	5
Euphilomedes carcharodonta	Ostracoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Amphiodia sp.	Ophiuroidea		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		52	59	70	60.3	61.0	52	70	9.1	5.2	20.4	181
	TOTAL SPECIES	19	7	10	13	10.0	10.0	7	13	3.0	1.7	6.8	30
	TOTAL CRUST. INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL CRUST. SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC INDIV.		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL MOLLUSC SP.	1	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL POLYCHAETE INDIV.		49	57	64	56.7	56.5	49	64	7.5	4.3	16.9	170
	TOTAL POLYCHAETE SP.	15	5	8	10	7.7	7.5	5	10	2.5	1.5	5.7	23

STANUM	STATION	IDORG	DATE	LEG
40018.2	LONG BEACH OUTER HAR.-18	53	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Ampharete labrops	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		30	64	52	48.7	47.0	30	64	17.2	10.0	38.8	146
Leitoscoloplos pugettensis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		4	5	5	4.7	4.5	4	5	0.6	0.3	1.3	14
Monticellina sp. C	Polychaeta		1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
Nephtys cornuta	Polychaeta		2	10	3	5.0	6.0	2	10	4.4	2.5	9.8	15
Paraprionospio pinnata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides californica	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	3	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Bathyleberis californica	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leptostylis sp.	Cumacea		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Corophium heterceratum	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Macoma yoldiformis	Bivalvia		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Cooperella subdiaphana	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		40	93	68	67.0	66.5	40	93	26.5	15.3	59.7	201
	TOTAL SPECIES	17	7	12	8	9.0	9.5	7	12	2.6	1.5	6.0	27
	TOTAL CRUST. INDIV.		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL CRUST. SP.	3	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	GAMMARID INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN SP.	2	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
	TOTAL MOLLUSC SP.	2	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL POLYCHAETE INDIV.		39	85	65	63.0	62.0	39	85	23.1	13.3	51.9	189
	TOTAL POLYCHAETE SP.	11	6	7	6	6.3	6.5	6	7	0.6	0.3	1.3	19

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40018.3	LONG BEACH OUTER HAR.-18	54	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphicteis scaphobranchiata	Polychaeta		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Cossura candida	Polychaeta		69	91	67	75.7	79.0	67	91	13.3	7.7	30.0	227
Leitoscoloplos pugettensis	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta		4	4	8	5.3	6.0	4	8	2.3	1.3	5.2	16
Nephtys cornuta	Polychaeta		1	7	3	3.7	4.0	1	7	3.1	1.8	6.9	11
Nereis procera	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis sp. A	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Agrissa hamatipes	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leptostylis sp.	Cumacea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nuculana taphria	Bivalvia		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Theora fragilis	Bivalvia		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Odostomia sp.	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		87	109	84	93.3	96.5	84	109	13.7	7.9	30.7	280
	TOTAL SPECIES	17	12	9	8	9.7	10.0	8	12	2.1	1.2	4.7	29
	TOTAL CRUST. INDIV.		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL CRUST. SP.	2	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	GAMMARID INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		4	3	4	3.7	3.5	3	4	0.6	0.3	1.3	11
	TOTAL MOLLUSC SP.	5	3	3	3	3.0	3.0	3	3	0.0	0.0	0.0	9
	TOTAL POLYCHAETE INDIV.		79	105	80	88.0	92.0	79	105	14.7	8.5	33.1	264
	TOTAL POLYCHAETE SP.	9	6	5	5	5.3	5.5	5	6	0.6	0.3	1.3	16

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40019.1	INNER FISH HARBOR	55	08/19/92	2

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leucon subnasica	Cumacea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL SPECIES	3	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL CRUST. INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL CRUST. SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL POLYCHAETE SP.	2	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2

STANUM	STATION	IDORG	DATE	LEG
40019.2	INNER FISH HARBOR	56	08/19/92	2

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta	15	25	24	21.3	20.0	15	25	5.5	3.2	12.4	64
Dorvillea longicornis	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Eumida spp. juv.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	8	9	11	9.3	9.5	8	11	1.5	0.9	3.4	28
Monticellina sp. C	Polychaeta	6	3	3	4.0	4.5	3	6	1.7	1.0	3.9	12
Podarkeopsis spp. indet.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Streblosoma sp. B	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nematoda	Nematoda	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2

oligochaeta	Oligochaeta		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Theora fragilis	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tapes philippinarum	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Phoronid	Phoronida		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		38	42	43	41.0	40.5	38	43	2.6	1.5	6.0	123
	TOTAL SPECIES	15	10	7	8	8.3	8.5	7	10	1.5	0.9	3.4	25
	TOTAL CRUST. INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC SP.	2	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL POLYCHAETE INDIV.		34	38	42	38.0	38.0	34	42	4.0	2.3	9.0	114
	TOTAL POLYCHAETE SP.	10	7	4	7	6.0	5.5	4	7	1.7	1.0	3.9	18

STANUM	STATION	IDORG	DATE	LEG
40019.3	INNER FISH HARBOR	57	08/19/92	2

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Dorvillea longicornis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nematoda	Nematoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		1	4	2	2.3	2.5	1	4	1.5	0.9	3.4	7
	TOTAL SPECIES	6	1	4	2	2.3	2.5	1	4	1.5	0.9	3.4	7
	TOTAL CRUST. INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0

TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL POLYCHAETE INDIV.		1	4	1	2.0	2.5	1	4	1.7	1.0	3.9	6
TOTAL POLYCHAETE SP.	5	1	4	1	2.0	2.5	1	4	1.7	1.0	3.9	6

STANUM	STATION	IDORG	DATE	LEG
40019.4	INNER FISH HARBOR	110	08/19/92	2

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Dorvillea longicornis	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
nematoda	Nematoda		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
oligochaeta	Oligochaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		3	0	7	3.3	3.5	0	7	3.5	2.0	7.9	10
	TOTAL SPECIES	6	2	0	5	2.3	2.5	0	5	2.5	1.5	5.7	7
	TOTAL CRUST. INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		1	0	5	2.0	2.5	0	5	2.6	1.5	6.0	6
	TOTAL POLYCHAETE SP.	4	1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40020.1	LONG BEACH/OUTER HAR.-20	58	09/02/92	3

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta		2	7	5	4.7	4.5	2	7	2.5	1.5	5.7	14
Amphicteis scaphobranchiata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta		1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
Cossura candida	Polychaeta		29	38	34	33.7	33.5	29	38	4.5	2.6	10.1	101
Euclymeninae spp. indet.	Polychaeta		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Glycinde armigera	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Goniada brunnea	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Levinsenia gracilis	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta		35	43	41	39.7	39.0	35	43	4.2	2.4	9.4	119
Monticellina dorsobranchialis	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Monticellina sp. C	Polychaeta		0	1	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Nephtys caecoides	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		5	9	7	7.0	7.0	5	9	2.0	1.2	4.5	21
Nereididae spp. juv	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Notomastus tenuis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Notomastus sp. juv.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Pherusa neopapillata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		3	11	0	4.7	5.5	0	11	5.7	3.3	12.8	14
Scoletoma tetraura	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Sigambra tentaculata	Polychaeta		3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Tenonia priops	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides sp. juv.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Amphideutopus oculatus	Amphipoda		6	4	4	4.7	5.0	4	6	1.2	0.7	2.6	14
Ampelisca cristata	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		0	3	6	3.0	3.0	0	6	3.0	1.7	6.8	9
Listriella goleta	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		89	131	117	112.3	110.0	89	131	21.4	12.3	48.1	337
	TOTAL SPECIES	29	13	20	18	17.0	16.5	13	20	3.6	2.1	8.1	51
	TOTAL CRUST. INDIV.		7	8	10	8.3	8.5	7	10	1.5	0.9	3.4	25
	TOTAL CRUST. SP.	4	2	3	2	2.3	2.5	2	3	0.6	0.3	1.3	7
	GAMMARID INDIV.		7	5	4	5.3	5.5	4	7	1.5	0.9	3.4	16

GAMMARID SP.	3	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
OTHER CRUSTACEAN INDIV.		0	3	6	3.0	3.0	0	6	3.0	1.7	6.8	9
OTHER CRUSTACEAN SP.	1	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL POLYCHAETE INDIV.		82	123	105	103.3	102.5	82	123	20.6	11.9	46.2	310
TOTAL POLYCHAETE SP.	24	11	17	15	14.3	14.0	11	17	3.1	1.8	6.9	43

STANUM	STATION	IDORG	DATE	LEG
40020.2	LONG BEACH OUTER HAR.-20	59	09/02/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10
Amaeana occidentalis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphicteis scaphobranchiata	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Aphelochaeta monilaris	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	39	71	31	47.0	51.0	31	71	21.2	12.2	47.6	141
Euclymeninae spp. indet.	Polychaeta	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Glycinde polygnatha	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Laonice cirrata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Malmgreniella spp. juv.	Polychaeta	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Mediomastus californiensis	Polychaeta	44	66	33	47.7	49.5	33	66	16.8	9.7	37.8	143
Monticellina dorsobranchialis	Polychaeta	0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Monticellina sp. C	Polychaeta	2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
Nephtys cornuta	Polychaeta	12	16	1	9.7	8.5	1	16	7.8	4.5	17.5	29
Nereis procera	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista disjuncta	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podakeopsis sp. A	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Prionospio lighti	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Scoletoma erecta	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea	3	7	6	5.3	5.0	3	7	2.1	1.2	4.7	16
Rudilemboides stenopropodus	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Euphilomedes carcharodonta	Ostracoda	11	14	10	11.7	12.0	10	14	2.1	1.2	4.7	35

Listriella goleta	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Argissa hamatipes	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Campylaspis sp.	Cumacea		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Odostomia sp.	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nuculana taphria	Bivalvia		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Macoma yoldiformis	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella sp. A	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Oxyurostylis sp.	Cumacea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		131	199	97	142.3	148.0	97	199	51.9	30.0	116.9	427
	TOTAL SPECIES	35	18	21	16	18.3	18.5	16	21	2.5	1.5	5.7	55
	TOTAL CRUST. INDIV.		12	17	15	14.7	14.5	12	17	2.5	1.5	5.7	44
	TOTAL CRUST. SP.	7	2	4	4	3.3	3.0	2	4	1.2	0.7	2.6	10
	GAMMARID INDIV.		0	3	3	2.0	1.5	0	3	1.7	1.0	3.9	6
	GAMMARID SP.	4	0	3	2	1.7	1.5	0	3	1.5	0.9	3.4	5
	OTHER CRUSTACEAN INDIV.		12	14	12	12.7	13.0	12	14	1.2	0.7	2.6	38
	OTHER CRUSTACEAN SP.	3	2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	TOTAL ECHINODERM INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		4	2	1	2.3	2.5	1	4	1.5	0.9	3.4	7
	TOTAL MOLLUSC SP.	6	3	2	1	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL POLYCHAETE INDIV.		112	172	75	119.7	123.5	75	172	49.0	28.3	110.1	359
	TOTAL POLYCHAETE SP.	20	12	13	10	11.7	11.5	10	13	1.5	0.9	3.4	35

STANUM	STATION	IDORG	DATE	LEG
40020.3	LONG BEACH OUTER HAR.-20	60	09/02/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Apoprionospio pygmaea	Polychaeta	3	0	3	2.0	1.5	0	3	1.7	1.0	3.9	6
Chaetozone corona	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	33	52	36	40.3	42.5	33	52	10.2	5.9	23.0	121
Euclymeninae spp. indet.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Lumbrineris californiensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	34	35	31	33.3	33.0	31	35	2.1	1.2	4.7	100

Monticellina dorsobranchialis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		0	1	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Nephtys cornuta	Polychaeta		7	7	12	8.7	9.5	7	12	2.9	1.7	6.5	26
Nereis procera	Polychaeta		1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Notomastus magnus	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Notomastus tenuis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Poecilochaetus sp. A	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		1	14	2	5.7	7.5	1	14	7.2	4.2	16.3	17
Scoletoma erecta	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Sigambra tentaculata	Polychaeta		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
nemertea	Nemertea		4	1	5	3.3	3.0	1	5	2.1	1.2	4.7	10
Amphideutopus oculatus	Amphipoda		2	4	3	3.0	3.0	2	4	1.0	0.6	2.3	9
Ampelisca cristata	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		3	8	4	5.0	5.5	3	8	2.6	1.5	6.0	15
Leptostylis sp.	Cumacea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Olivella baetica	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Turbonilla sp.	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		100	130	107	112.3	115.0	100	130	15.7	9.1	35.3	337
	TOTAL SPECIES	27	16	13	17	15.3	15.0	13	17	2.1	1.2	4.7	46
	TOTAL CRUST. INDIV.		7	12	7	8.7	9.5	7	12	2.9	1.7	6.5	26
	TOTAL CRUST. SP.	4	4	2	2	2.7	3.0	2	4	1.2	0.7	2.6	8
	GAMMARID INDIV.		3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	GAMMARID SP.	2	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	OTHER CRUSTACEAN INDIV.		4	8	4	5.3	6.0	4	8	2.3	1.3	5.2	16
	OTHER CRUSTACEAN SP.	2	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
	TOTAL MOLLUSC SP.	3	0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
	TOTAL POLYCHAETE INDIV.		89	117	92	99.3	103.0	89	117	15.4	8.9	34.6	298
	TOTAL POLYCHAETE SP.	19	11	10	11	10.7	10.5	10	11	0.6	0.3	1.3	32

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40021.1	ALAMITOS BAY, MARINE STAD	61	09/16/92	4

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta multifilis	Polychaeta	10	3	9	7.3	6.5	3	10	3.8	2.2	8.5	22
Cirratulidae spp. indet.	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Eranno lagunae	Polychaeta	1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Euchone limnicola	Polychaeta	0	3	5	2.7	2.5	0	5	2.5	1.5	5.7	8
Euclymeninae spp. indet.	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Exogone lourei	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Fabricinuda limnicola	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	4	4	5	4.3	4.5	4	5	0.6	0.3	1.3	13
Mediomastus californiensis	Polychaeta	7	2	9	6.0	5.5	2	9	3.6	2.1	8.1	18
Megalomma pigmentum	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Microspio pigmentata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nereis procera	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista alata	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Prionospio heterobranchia	Polychaeta	0	3	6	3.0	3.0	0	6	3.0	1.7	6.8	9
Prionospio lighti	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pseudopolydora paucibranchiata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Sphaerosyllis californiensis	Polychaeta	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
nematoda	Nematoda	0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4
nemertea	Nemertea	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
oligochaeta	Oligochaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Bathyleberis californica	Ostracoda	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Rudilemboides stenopropodus	Amphipoda	1	1	6	2.7	3.5	1	6	2.9	1.7	6.5	8
Sinelobus sanfordi	Tanaidacea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paranthura elegans	Isopoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Photis sp.	Amphipoda	0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Haminoea vesicula	Gastropoda	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Tagelus subteres	Bivalvia	0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Gasteropteron pacificum	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Edwardsia sp.	Anthozoa	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Molpadia		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL INDIVIDUALS	37	36	63	45.3	49.5	36	63	15.3	8.8	34.4	136
	TOTAL SPECIES 32	16	18	21	18.3	18.5	16	21	2.5	1.5	5.7	55

TOTAL CRUST. INDIV.		6	2	9	5.7	5.5	2	9	3.5	2.0	7.9	17
TOTAL CRUST. SP.	5	4	2	2	2.7	3.0	2	4	1.2	0.7	2.6	8
GAMMARID INDIV.		1	1	9	3.7	5.0	1	9	4.6	2.7	10.4	11
GAMMARID SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
OTHER CRUSTACEAN INDIV.		5	1	0	2.0	2.5	0	5	2.6	1.5	6.0	6
OTHER CRUSTACEAN SP.	3	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		0	2	4	2.0	2.0	0	4	2.0	1.2	4.5	6
TOTAL MOLLUSC SP.	3	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
TOTAL POLYCHAETE INDIV.		29	28	45	34.0	36.5	28	45	9.5	5.5	21.5	102
TOTAL POLYCHAETE SP.	19	10	13	13	12.0	11.5	10	13	1.7	1.0	3.9	36

STANUM	STATION	IDORG	DATE	LEG
40021.2	ALAMITOS BAY, MARINE STAD	62	09/16/92	4

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Aphelochaeta multifilis	Polychaeta	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Cirratulidae spp. indet.	Polychaeta	1	0	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Cirratulus cirratus	Polychaeta	5	3	3	3.7	4.0	3	5	1.2	0.7	2.6	11
Cossura candida	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Dorvillea longicornis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eranno lagunae	Polychaeta	4	3	4	3.7	3.5	3	4	0.6	0.3	1.3	11
Euchone limnicola	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Exogone lourei	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	4	6	5	5.0	5.0	4	6	1.0	0.6	2.3	15
Mediomastus californiensis	Polychaeta	15	25	16	18.7	20.0	15	25	5.5	3.2	12.4	56
Monticellina sp. C	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pherusa capulata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaeta	2	6	3	3.7	4.0	2	6	2.1	1.2	4.7	11
Scoletoma erecta	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Sphaerosyllis californiensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiochaetopterus costarum	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes missionensis	Polychaeta	0	1	3	1.3	1.5	0	3	1.5	0.9	3.4	4
nematoda	Nematoda	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
nemertea	Nemertea	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
oligochaeta	Oligochaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Bathyleberis californica	Ostracoda		3	2	5	3.3	3.5	2	5	1.5	0.9	3.4	10
Rudilemboides stenopropodus	Amphipoda		9	19	13	13.7	14.0	9	19	5.0	2.9	11.3	41
Paranthura elegans	Isopoda		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Monoculodes hartmanae	Amphipoda		2	1	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Mayerella banksia	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podocerus brasiliensis	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tapes philippinarum	Bivalvia		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Theora fragilis	Bivalvia		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Cooperella subdiaphana	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Kellia sp.	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Musculista senhousei	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Molpadia			3	2	4	3.0	3.0	2	4	1.0	0.6	2.3	9
Phoronid	Phoronida		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Edwardsia sp.	Anthozoa		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		61	82	79	74.0	71.5	61	82	11.4	6.6	25.6	222
	TOTAL SPECIES	35	20	23	26	23.0	23.0	20	26	3.0	1.7	6.8	69
	TOTAL CRUST. INDIV.		16	23	25	21.3	20.5	16	25	4.7	2.7	10.6	64
	TOTAL CRUST. SP.	7	4	4	7	5.0	5.5	4	7	1.7	1.0	3.9	15
	GAMMARID INDIV.		11	20	19	16.7	15.5	11	20	4.9	2.8	11.1	50
	GAMMARID SP.	5	2	2	5	3.0	3.5	2	5	1.7	1.0	3.9	9
	OTHER CRUSTACEAN INDIV.		5	3	6	4.7	4.5	3	6	1.5	0.9	3.4	14
	OTHER CRUSTACEAN SP.	2	2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		4	3	2	3.0	3.0	2	4	1.0	0.6	2.3	9
	TOTAL MOLLUSC SP.	5	3	3	2	2.7	2.5	2	3	0.6	0.3	1.3	8
	TOTAL POLYCHAETE INDIV.		35	50	45	43.3	42.5	35	50	7.6	4.4	17.2	130
	TOTAL POLYCHAETE SP.	17	9	12	14	11.7	11.5	9	14	2.5	1.5	5.7	35

STANUM	STATION	IDORG	DATE	LEG
40021.3	ALAMITOS BAY, MARINE STAD	63	09/16/92	4

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amaeana occidentalis	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphicteis scaphobranchiata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta multifilis	Polychaeta	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Aphelochaeta monilaris	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Cossura candida	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eranno lagunae	Polychaeta		7	4	6	5.7	5.5	4	7	1.5	0.9	3.4	17
Euchone limnicola	Polychaeta		2	1	6	3.0	3.5	1	6	2.6	1.5	6.0	9
Exogone lourei	Polychaeta		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
Leitoscoloplos pugettensis	Polychaeta		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Macrochaeta spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		27	33	32	30.7	30.0	27	33	3.2	1.9	7.2	92
Pista alata	Polychaeta		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Polydora cornuta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaeta		2	4	1	2.3	2.5	1	4	1.5	0.9	3.4	7
Prionospio lighti	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Pseudopolydora paucibranchiata	Polychaeta		2	0	2	1.3	1.0	0	2	1.2	0.7	2.6	4
Sphaerosyllis californiensis	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Spionidae spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes missionensis	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
nemertea	Nemertea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
oligochaeta	Oligochaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Bathyleberis californica	Ostracoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Amphipoda		4	4	6	4.7	5.0	4	6	1.2	0.7	2.6	14
Paranthura elegans	Isopoda		1	7	1	3.0	4.0	1	7	3.5	2.0	7.8	9
Grandidierella japonica	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Haminoea vesicula	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tapes philippinarum	Bivalvia		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Tagelus subteres	Bivalvia		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Theora fragilis	Bivalvia		3	2	1	2.0	2.0	1	3	1.0	0.6	2.3	6
Laevicardium substriatum	Bivalvia		0	5	1	2.0	2.5	0	5	2.6	1.5	6.0	6
Chione californiensis	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiaphana	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Kellia sp.	Bivalvia		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Bivalve	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Molpadia			0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Edwardsia sp.	Anthozoa		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL INDIVIDUALS		70	77	71	72.7	73.5	70	77	3.8	2.2	8.5	218
	TOTAL SPECIES	38	25	24	20	23.0	22.5	20	25	2.6	1.5	6.0	69
	TOTAL CRUST. INDIV.		8	12	8	9.3	10.0	8	12	2.3	1.3	5.2	28
	TOTAL CRUST. SP.	5	5	3	3	3.7	4.0	3	5	1.2	0.7	2.6	11
	GAMMARID INDIV.		6	5	7	6.0	6.0	5	7	1.0	0.6	2.3	18
	GAMMARID SP.	3	3	2	2	2.3	2.5	2	3	0.6	0.3	1.3	7

OTHER CRUSTACEAN INDIV.		2	7	1	3.3	4.0	1	7	3.2	1.9	7.2	10
OTHER CRUSTACEAN SP.	2	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		11	10	4	8.3	7.5	4	11	3.8	2.2	8.5	25
TOTAL MOLLUSC SP.	9	6	5	4	5.0	5.0	4	6	1.0	0.6	2.3	15
TOTAL POLYCHAETE INDIV.		49	53	58	53.3	53.5	49	58	4.5	2.6	10.1	160
TOTAL POLYCHAETE SP.	20	13	14	12	13.0	13.0	12	14	1.0	0.6	2.3	39

STANUM	STATION	IDORG	DATE	LEG
40022.1	ALAMITOS BAY, ENTRANCE	64	09/15/92	4

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amaeana occidentalis	Polychaeta	3	1	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Eranno lagunae	Polychaeta	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Euchone limnicola	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet.	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eumida longicornuta	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Goniada littorea	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Leitoscoloplos pugettensis	Polychaeta	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Malmgreniella macginitiei	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	19	23	23	21.7	21.0	19	23	2.3	1.3	5.2	65
Megalomma pigmentum	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polyophthalmus pictus	Polychaeta	0	0	4	1.3	2.0	0	4	2.3	1.3	5.2	4
Prionospio heterobranchia	Polychaeta	0	2	5	2.3	2.5	0	5	2.5	1.5	5.7	7
Scolelepis quinquedentata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta	6	4	7	5.7	5.5	4	7	1.5	0.9	3.4	17
Scoletoma tetraura	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Sphaerosyllis californiensis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes bombyx	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nematoda	Nematoda	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
nemertea	Nemertea	5	1	4	3.3	3.0	1	5	2.1	1.2	4.7	10
Rudilemboides stenopropodus	Amphipoda	5	15	46	22.0	25.5	5	46	21.4	12.3	48.1	66
Amphideutopus oculatus	Amphipoda	1	3	9	4.3	5.0	1	9	4.2	2.4	9.4	13
Mayerella banksia	Amphipoda	2	4	5	3.7	3.5	2	5	1.5	0.9	3.4	11
Gnathia crenulatifrons	Isopoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Cooperella subdiaphana	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Laevicardium substriatum	Bivalvia		1	5	10	5.3	5.5	1	10	4.5	2.6	10.1	16
Mysella sp. A	Bivalvia		8	1	17	8.7	9.0	1	17	8.0	4.6	18.0	26
Cylichna diegensis	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mytilus sp.	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tagelus subteres	Bivalvia		1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Cylichnella spp.	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mactra californica	Bivalvia		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Sipunculid	Sipunculida		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		60	73	146	93.0	103.0	60	146	46.4	26.8	104.3	279
	TOTAL SPECIES	34	17	22	22	20.3	19.5	17	22	2.9	1.7	6.5	61
	TOTAL CRUST. INDIV.		8	23	60	30.3	34.0	8	60	26.8	15.5	60.2	91
	TOTAL CRUST. SP.	4	3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	GAMMARID INDIV.		8	22	60	30.0	34.0	8	60	26.9	15.5	60.5	90
	GAMMARID SP.	3	3	3	3	3.0	3.0	3	3	0.0	0.0	0.0	9
	OTHER CRUSTACEAN INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		10	9	34	17.7	21.5	9	34	14.2	8.2	31.8	53
	TOTAL MOLLUSC SP.	8	3	4	7	4.7	5.0	3	7	2.1	1.2	4.7	14
	TOTAL POLYCHAETE INDIV.		37	38	47	40.7	42.0	37	47	5.5	3.2	12.4	122
	TOTAL POLYCHAETE SP.	19	10	11	10	10.3	10.5	10	11	0.6	0.3	1.3	31

STANUM	STATION	IDORG	DATE	LEG
40022.2	ALAMITOS BAY, ENTRANCE	65	09/15/92	4

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amaeana occidentalis	Polychaeta	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Apoprionospio pygmaea	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	4	4	6	4.7	5.0	4	6	1.2	0.7	2.6	14
Eranno lagunae	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone limnicola	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Exogone lourei	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
Lumbrineridae spp. juv.	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	16	14	29	19.7	21.5	14	29	8.1	4.7	18.3	59

Monticellina dorsobranchialis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabra	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polyophthalmus pictus	Polychaeta		2	3	3	2.7	2.5	2	3	0.6	0.3	1.3	8
Prionospio heterobranchia	Polychaeta		6	8	1	5.0	4.5	1	8	3.6	2.1	8.1	15
Prionospio lighti	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scolelepis quinquedentata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta		3	0	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Scoletoma tetraura	Polychaeta		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Sphaerosyllis californiensis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes bombyx	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes missionensis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nematoda	Nematoda		0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4
nemertea	Nemertea		8	2	2	4.0	5.0	2	8	3.5	2.0	7.8	12
Rudilemboides stenopropodus	Amphipoda		15	22	2	13.0	12.0	2	22	10.1	5.9	22.8	39
Amphideutopus oculatus	Amphipoda		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Grandidierella japonica	Amphipoda		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Mayerella banksia	Amphipoda		1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Alpheus bellimanus	Decapoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leptochelia dubia	Tanaidacea		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Tagelus subteres	Bivalvia		2	4	0	2.0	2.0	0	4	2.0	1.2	4.5	6
Mactra californica	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Laevicardium substriatum	Bivalvia		5	0	1	2.0	2.5	0	5	2.6	1.5	6.0	6
Mysella sp. A	Bivalvia		5	2	0	2.3	2.5	0	5	2.5	1.5	5.7	7
Cylichnella sp.	Gastropoda		5	5	0	3.3	2.5	0	5	2.9	1.7	6.5	10
Cylichna diegensis	Gastropoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Tellina carpenteri	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Theora fragilis	Bivalvia		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Leptosynapta sp.	Holothuroidea		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Sipunculid	Sipunculida		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		81	90	64	78.3	77.0	64	90	13.2	7.6	29.7	235
	TOTAL SPECIES	41	19	27	24	23.3	23.0	19	27	4.0	2.3	9.1	70
	TOTAL CRUST. INDIV.		18	30	5	17.7	17.5	5	30	12.5	7.2	28.1	53
	TOTAL CRUST. SP.	6	3	5	4	4.0	4.0	3	5	1.0	0.6	2.3	12
	GAMMARID INDIV.		18	28	4	16.7	16.0	4	28	12.1	7.0	27.1	50
	GAMMARID SP.	4	3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	OTHER CRUSTACEAN INDIV.		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN SP.	2	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2

TOTAL ECHINODERM INDIV.		1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
TOTAL ECHINODERM SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
TOTAL MOLLUSC INDIV.		19	14	3	12.0	11.0	3	19	8.2	4.7	18.4	36
TOTAL MOLLUSC SP.	8	6	5	3	4.7	4.5	3	6	1.5	0.9	3.4	14
TOTAL POLYCHAETE INDIV.		35	40	49	41.3	42.0	35	49	7.1	4.1	16.0	124
TOTAL POLYCHAETE SP.	22	8	14	12	11.3	11.0	8	14	3.1	1.8	6.9	34

STANUM	STATION	IDORG	DATE	LEG
40022.3	ALAMITOS BAY, ENTRANCE	66	09/15/92	4

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amaeana occidentalis	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Chaetozone corona	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta	5	1	1	2.3	3.0	1	5	2.3	1.3	5.2	7
Exogone uniformis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Fabricinuda limnicola	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	0	0	4	1.3	2.0	0	4	2.3	1.3	5.2	4
Mediomastus acutus	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	12	24	48	28.0	30.0	12	48	18.3	10.6	41.2	84
Monticellina sp. C	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista alata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista disjuncta	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Podarke pugettensis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polyophthalmus pictus	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaeta	0	1	9	3.3	4.5	0	9	4.9	2.8	11.1	10
Prionospio lighti	Polychaeta	4	0	3	2.3	2.0	0	4	2.1	1.2	4.7	7
Scolelepis quinquedentata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta	3	0	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Sphaerosyllis californiensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nematoda	Nematoda	0	0	13	4.3	6.5	0	13	7.5	4.3	16.9	13
nemertea	Nemertea	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Rudilemboides stenopropodus	Amphipoda	0	0	9	3.0	4.5	0	9	5.2	3.0	11.7	9
Mayerella banksia	Amphipoda	0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Rhepoxynius menziesi	Amphipoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tagelus subteres	Bivalvia	3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
Theora fragilis	Bivalvia	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Tellina modesta	Bivalvia	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Sulcoretusa xystrum	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Cylichna diegensis	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Molpadia			0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		34	34	110	59.3	72.0	34	110	43.9	25.3	98.7	178
	TOTAL SPECIES	29	11	8	23	14.0	15.5	8	23	7.9	4.6	17.9	42
	TOTAL CRUST. INDIV.		1	0	12	4.3	6.0	0	12	6.7	3.8	15.0	13
	TOTAL CRUST. SP.	3	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID INDIV.		1	0	12	4.3	6.0	0	12	6.7	3.8	15.0	13
	GAMMARID SP.	3	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		3	4	9	5.3	6.0	3	9	3.2	1.9	7.2	16
	TOTAL MOLLUSC SP.	5	1	1	5	2.3	3.0	1	5	2.3	1.3	5.2	7
	TOTAL POLYCHAETE INDIV.		29	29	74	44.0	51.5	29	74	26.0	15.0	58.5	132
	TOTAL POLYCHAETE SP.	18	8	6	13	9.0	9.5	6	13	3.6	2.1	8.1	27

STANUM	STATION	IDORG	DATE	LEG
40023.1	ALAMITOS BAY, L.B. MARINA	67	09/16/92	4

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Diopatra tridentata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eranno lagunae	Polychaeta	3	3	2	2.7	2.5	2	3	0.6	0.3	1.3	8
Exogone uniformis	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Goniada littorea	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus acutus	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta	66	41	48	51.7	53.5	41	66	12.9	7.4	29.0	155
Monticellina dorsobranchialis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Neanthes arenaceodentata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Phyllodoce hartmanae	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polyophthalmus pictus	Polychaeta	6	1	2	3.0	3.5	1	6	2.6	1.5	6.0	9
Prionospio heterobranchia	Polychaeta	8	2	15	8.3	8.5	2	15	6.5	3.8	14.6	25
Prionospio lighti	Polychaeta	8	8	6	7.3	7.0	6	8	1.2	0.7	2.6	22
Sphaerosyllis californiensis	Polychaeta	4	2	2	2.7	3.0	2	4	1.2	0.7	2.6	8
nematoda	Nematoda	1	3	9	4.3	5.0	1	9	4.2	2.4	9.4	13
nemertea	Nemertea	1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
oligochaeta	Oligochaeta	0	0	4	1.3	2.0	0	4	2.3	1.3	5.2	4
Rudilemboides stenopropodus	Amphipoda	29	26	27	27.3	27.5	26	29	1.5	0.9	3.4	82

Amphideutopus oculatus	Amphipoda		2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
Bathyleberis californica	Ostracoda		5	0	4	3.0	2.5	0	5	2.6	1.5	6.0	9
Microdeutopus schmitti	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mayerella banksia	Amphipoda		9	19	8	12.0	13.5	8	19	6.1	3.5	13.7	36
Theora fragilis	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tagelus subteres	Bivalvia		8	5	4	5.7	6.0	4	8	2.1	1.2	4.7	17
Laevicardium substriatum	Bivalvia		4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10
Mysella sp. A	Bivalvia		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Tellina modesta	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Macoma nasuta	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cylichnella sp.	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Protothaca staminea	Bivalvia		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Cooperella subdiaphana	Bivalvia		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphiodia sp.	Ophiuroidea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Bivalve	Mollusca		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Molpadia			6	2	0	2.7	3.0	0	6	3.1	1.8	6.9	8
Edwardia sp.	Anthozoa		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		175	124	142	147.0	149.5	124	175	25.9	14.9	58.2	441
	TOTAL SPECIES	34	27	18	20	21.7	22.5	18	27	4.7	2.7	10.6	65
	TOTAL CRUST. INDIV.		46	47	41	44.7	44.0	41	47	3.2	1.9	7.2	134
	TOTAL CRUST. SP.	5	5	3	4	4.0	4.0	3	5	1.0	0.6	2.3	12
	GAMMARID INDIV.		41	47	37	41.7	42.0	37	47	5.0	2.9	11.3	125
	GAMMARID SP.	4	4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	OTHER CRUSTACEAN INDIV.		5	0	4	3.0	2.5	0	5	2.6	1.5	6.0	9
	OTHER CRUSTACEAN SP.	1	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		20	8	10	12.7	14.0	8	20	6.4	3.7	14.5	38
	TOTAL MOLLUSC SP.	9	8	2	5	5.0	5.0	2	8	3.0	1.7	6.8	15
	TOTAL POLYCHAETE INDIV.		99	60	78	79.0	79.5	60	99	19.5	11.3	43.9	237
	TOTAL POLYCHAETE SP.	13	9	9	9	9.0	9.0	9	9	0.0	0.0	0.0	27

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40023.2	ALAMITOS BAY, L.B. MARINA	68	09/16/92	4

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Caulleriella spp. juv.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eranno lagunae	Polychaeta		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Exogone uniformis	Polychaeta		2	3	1	2.0	2.0	1	3	1.0	0.6	2.3	6
Goniada littorea	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		6	11	5	7.3	8.0	5	11	3.2	1.9	7.2	22
Polyophthalmus pictus	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		6	2	2	3.3	4.0	2	6	2.3	1.3	5.2	10
Sphaerosyllis californiensis	Polychaeta		3	0	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Streblospio benedicti	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nematoda	Nematoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
oligochaeta	Oligochaeta		7	2	3	4.0	4.5	2	7	2.6	1.5	6.0	12
Rudilemboides stenopropodus	Amphipoda		2	12	27	13.7	14.5	2	27	12.6	7.3	28.3	41
Amphideutopus oculatus	Amphipoda		0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Bathyleberis californica	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mayerella banksia	Amphipoda		1	1	5	2.3	3.0	1	5	2.3	1.3	5.2	7
Leptochelia sp.	Tanaidacea		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Tagelus subteres	Bivalvia		2	4	1	2.3	2.5	1	4	1.5	0.9	3.4	7
Laevicardium substriatum	Bivalvia		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Cooperella subdiaphana	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mactra californica	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Molpadia			0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Edwardia sp.	Anthozoa		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		35	47	54	45.3	44.5	35	54	9.6	5.5	21.6	136
	TOTAL SPECIES	23	13	14	16	14.3	14.5	13	16	1.5	0.9	3.4	43
	TOTAL CRUST. INDIV.		5	17	33	18.3	19.0	5	33	14.0	8.1	31.6	55
	TOTAL CRUST. SP.	5	3	4	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	GAMMARID INDIV.		3	16	33	17.3	18.0	3	33	15.0	8.7	33.9	52
	GAMMARID SP.	3	2	3	3	2.7	2.5	2	3	0.6	0.3	1.3	8
	OTHER CRUSTACEAN INDIV.		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM INDIV.		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM SP.	1	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC INDIV.		3	6	4	4.3	4.5	3	6	1.5	0.9	3.4	13

TOTAL MOLLUSC SP.	4	2	2	4	2.7	3.0	2	4	1.2	0.7	2.6	8
TOTAL POLYCHAETE INDIV.		19	19	12	16.7	15.5	12	19	4.0	2.3	9.1	50
TOTAL POLYCHAETE SP.	9	6	5	6	5.7	5.5	5	6	0.6	0.3	1.3	17

STANUM	STATION	IDORG	DATE	LEG
40023.3	ALAMITOS BAY, L.B. MARINA	69	09/16/92	4

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Armandia brevis	Polychaeta		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Capitella capitata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eranno lagunae	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Exogone uniformis	Polychaeta		3	2	3	2.7	2.5	2	3	0.6	0.3	1.3	8
Leitoscoloplos pugettensis	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Mediomastus californiensis	Polychaeta		41	36	39	38.7	38.5	36	41	2.5	1.5	5.7	116
Notomastus tenuis	Polychaeta		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Polydora cornuta	Polychaeta		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Polyophthalmus pictus	Polychaeta		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Prionospio heterobranchia	Polychaeta		4	7	8	6.3	6.0	4	8	2.1	1.2	4.7	19
Prionospio lighti	Polychaeta		1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Sphaerosyllis californiensis	Polychaeta		2	4	3	3.0	3.0	2	4	1.0	0.6	2.3	9
nematoda	Nematoda		62	21	29	37.3	41.5	21	62	21.7	12.5	48.9	112
nemertea	Nemertea		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
oligochaeta	Oligochaeta		5	10	2	5.7	6.0	2	10	4.0	2.3	9.1	17
Rudilemboides stenopropodus	Amphipoda		15	18	45	26.0	30.0	15	45	16.5	9.5	37.2	78
Amphideutopus oculatus	Amphipoda		3	2	2	2.3	2.5	2	3	0.6	0.3	1.3	7
Bathyleberis californica	Ostracoda		2	5	16	7.7	9.0	2	16	7.4	4.3	16.6	23
Mayerella banksia	Amphipoda		8	5	18	10.3	11.5	5	18	6.8	3.9	15.3	31
Tagelus subteres	Bivalvia		8	5	10	7.7	7.5	5	10	2.5	1.5	5.7	23
Laevicardium substriatum	Bivalvia		1	5	3	3.0	3.0	1	5	2.0	1.2	4.5	9
Mysella sp. A	Bivalvia		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Prototheca staminea	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiaphana	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Macoma sp.	Bivalvia		1	4	0	1.7	2.0	0	4	2.1	1.2	4.7	5
Edwardsia ?	Anthozoa		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Molpadia			1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		165	138	189	164.0	163.5	138	189	25.5	14.7	57.4	492
	TOTAL SPECIES	28	21	21	19	20.3	20.0	19	21	1.2	0.7	2.6	61

TOTAL CRUST. INDIV.		28	30	81	46.3	54.5	28	81	30.0	17.3	67.6	139
TOTAL CRUST. SP.	4	4	4	4	4.0	4.0	4	4	0.0	0.0	0.0	12
GAMMARID INDIV.		26	25	65	38.7	45.0	25	65	22.8	13.2	51.3	116
GAMMARID SP.	3	3	3	3	3.0	3.0	3	3	0.0	0.0	0.0	9
OTHER CRUSTACEAN INDIV.		2	5	16	7.7	9.0	2	16	7.4	4.3	16.6	23
OTHER CRUSTACEAN SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
TOTAL ECHINODERM INDIV.		1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
TOTAL ECHINODERM SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
TOTAL MOLLUSC INDIV.		10	16	15	13.7	13.0	10	16	3.2	1.9	7.2	41
TOTAL MOLLUSC SP.	6	3	4	4	3.7	3.5	3	4	0.6	0.3	1.3	11
TOTAL POLYCHAETE INDIV.		55	56	61	57.3	58.0	55	61	3.2	1.9	7.2	172
TOTAL POLYCHAETE SP.	12	8	9	8	8.3	8.5	8	9	0.6	0.3	1.3	25

STANUM	STATION	IDORG	DATE	LEG
40031.1	PALOS VERDES(SWARTZ 6)	76	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Cossura candida	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Glycera nana	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Gymnonereis crosslandi	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Lumbrineris cruzensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Maldane glebifex	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Marphysa disjuncta	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	2	4	4	3.3	3.0	2	4	1.2	0.7	2.6	10
Monticellina dorsobranchialis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta	4	0	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Pectinaria californiensis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista disjuncta	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio sp. A	Polychaeta	0	2	5	2.3	2.5	0	5	2.5	1.5	5.7	7
Sigambra tentaculata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes missionensis	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
nemertea	Nemertea	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Euphilomedes producta	Ostracoda	18	0	4	7.3	9.0	0	18	9.5	5.5	21.3	22
Caprella sp.	Caprellida	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampelisca brevisimulata	Amphipoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Foxiphalus similis	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leucon subnasica	Cumacea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Kurtzia arteaga	Gastropoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Parvilucina tenuisculpta	Bivalvia		4	5	10	6.3	7.0	4	10	3.2	1.9	7.2	19
Mysella tumida	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella sp. A	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		38	22	30	30.0	30.0	22	38	8.0	4.6	18.0	90
	TOTAL SPECIES	27	13	12	11	12.0	12.0	11	13	1.0	0.6	2.3	36
	TOTAL CRUST. INDIV.		21	0	5	8.7	10.5	0	21	11.0	6.3	24.7	26
	TOTAL CRUST. SP.	5	4	0	2	2.0	2.0	0	4	2.0	1.2	4.5	6
	GAMMARID INDIV.		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	GAMMARID SP.	2	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	OTHER CRUSTACEAN INDIV.		19	0	5	8.0	9.5	0	19	9.8	5.7	22.2	24
	OTHER CRUSTACEAN SP.	3	2	0	2	1.3	1.0	0	2	1.2	0.7	2.6	4
	TOTAL ECHINODERM INDIV.		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM SP.	1	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC INDIV.		5	7	11	7.7	8.0	5	11	3.1	1.8	6.9	23
	TOTAL MOLLUSC SP.	4	2	3	2	2.3	2.5	2	3	0.6	0.3	1.3	7
	TOTAL POLYCHAETE INDIV.		12	12	12	12.0	12.0	12	12	0.0	0.0	0.0	36
	TOTAL POLYCHAETE SP.	16	7	7	5	6.3	6.0	5	7	1.2	0.7	2.6	19

STANUM	STATION	IDORG	DATE	LEG
40031.2	PALOS VERDES (SWART 6)	77	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Aphelochaeta multifilis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Apistobranchus ornatus	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	1	0	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Eranno lagunae	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera americana	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera nana	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycinde armigera	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Hesperonoe spp. indet.	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Lumbrineris cruzensis	Polychaeta	0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Maldane glebifex	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Malmgreniella spp. indet.	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		22	18	3	14.3	12.5	3	22	10.0	5.8	22.5	43
Monticellina dorsobranchialis	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Monticellina tesselata	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Pectinaria californiensis	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pholoe glabra	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabra	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Podarkeopsis sp. A	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Prionospio sp. A	Polychaeta		4	7	4	5.0	5.5	4	7	1.7	1.0	3.9	15
nemertea	Nemertea		0	3	4	2.3	2.0	0	4	2.1	1.2	4.7	7
oligochaeta	Oligochaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
flatworm	platyhelminthes		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes producta	Ostracoda		8	13	5	8.7	9.0	5	13	4.0	2.3	9.1	26
Euphilomedes carcharodonta	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Heterophoxus oculatus	Amphipoda		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Eudorella pacifica	Cumacea		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Leptostylis sp.	Cumacea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampelisca brevisimulata	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leptognathia cf. sp. B	Tanaidacea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia		5	2	1	2.7	3.0	1	5	2.1	1.2	4.7	8
Volvulella cylindrica	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Saxicavella pacifica	Bivalvia		2	4	0	2.0	2.0	0	4	2.0	1.2	4.5	6
Mysella sp.	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiadphana	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		0	0	9	3.0	4.5	0	9	5.2	3.0	11.7	9
Caudina sp.			1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Leptosynaptus sp.	Holothuroidea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		57	69	42	56.0	55.5	42	69	13.5	7.8	30.4	168
	TOTAL SPECIES	41	20	24	19	21.0	21.5	19	24	2.6	1.5	6.0	63
	TOTAL CRUST. INDIV.		12	16	7	11.7	11.5	7	16	4.5	2.6	10.1	35
	TOTAL CRUST. SP.	7	5	4	3	4.0	4.0	3	5	1.0	0.6	2.3	12
	GAMMARID INDIV.		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	GAMMARID SP.	2	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	OTHER CRUSTACEAN INDIV.		10	15	6	10.3	10.5	6	15	4.5	2.6	10.1	31
	OTHER CRUSTACEAN SP.	5	3	3	2	2.7	2.5	2	3	0.6	0.3	1.3	8
	TOTAL ECHINODERM INDIV.		1	2	10	4.3	5.5	1	10	4.9	2.8	11.1	13
	TOTAL ECHINODERM SP.	3	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4

TOTAL MOLLUSC INDIV.		8	7	2	5.7	5.0	2	8	3.2	1.9	7.2	17
TOTAL MOLLUSC SP.	5	3	3	2	2.7	2.5	2	3	0.6	0.3	1.3	8
TOTAL POLYCHAETE INDIV.		35	40	19	31.3	29.5	19	40	11.0	6.3	24.7	94
TOTAL POLYCHAETE SP.	23	10	14	11	11.7	12.0	10	14	2.1	1.2	4.7	35

STANUM	STATION	IDORG	DATE	LEG
40031.3	PALOS VERDES (SWARTZ 6)	78	09/01/92	3

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Anobothrus gracilis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Goniada brunnea	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Lumbrineris cruzensis	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta	5	4	0	3.0	2.5	0	5	2.6	1.5	6.0	9
Monticellina dorsobranchialis	Polychaeta	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Nephtys cornuta	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Pectinaria californiensis	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Podarkeopsis glabra	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis sp. A	Polychaeta	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Prionospio lighti	Polychaeta	1	1	4	2.0	2.5	1	4	1.7	1.0	3.9	6
Prionospio sp. A	Polychaeta	1	2	3	2.0	2.0	1	3	1.0	0.6	2.3	6
nemertea	Nemertea	1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Euphilomedes producta	Ostracoda	2	2	3	2.3	2.5	2	3	0.6	0.3	1.3	7
Heterophoxus oculatus	Amphipoda	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Ampelisca brevisimulata	Amphipoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nicippe tumida	Amphipoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Byblis sp.	Amphipoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Diastylis sp.	Cumacea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leucon subnasica	Cumacea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eudorella pacifica	Cumacea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leptostylis sp.	Cumacea	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Cadulus quadrifissatus	Scaphopoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea	4	7	9	6.7	6.5	4	9	2.5	1.5	5.7	20
Volvulella cylindrica	Gastropoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Kurtzia arteaga (dead)	Gastropoda	0	12	0	4.0	6.0	0	12	6.9	4.0	15.6	12
Mysella tumida	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Tellina modesta	Bivalvia		4	0	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Protothaca staminea	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		27	42	37	35.3	34.5	27	42	7.6	4.4	17.2	106
	TOTAL SPECIES	31	15	18	16	16.3	16.5	15	18	1.5	0.9	3.4	49
	TOTAL CRUST. INDIV.		6	7	7	6.7	6.5	6	7	0.6	0.3	1.3	20
	TOTAL CRUST. SP.	10	4	6	4	4.7	5.0	4	6	1.2	0.7	2.6	14
	GAMMARID INDIV.		4	2	1	2.3	2.5	1	4	1.5	0.9	3.4	7
	GAMMARID SP.	4	3	2	1	2.0	2.0	1	3	1.0	0.6	2.3	6
	OTHER CRUSTACEAN INDIV.		2	5	6	4.3	4.0	2	6	2.1	1.2	4.7	13
	OTHER CRUSTACEAN SP.	6	1	4	3	2.7	2.5	1	4	1.5	0.9	3.4	8
	TOTAL ECHINODERM INDIV.		4	7	9	6.7	6.5	4	9	2.5	1.5	5.7	20
	TOTAL ECHINODERM SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	TOTAL MOLLUSC INDIV.		6	13	1	6.7	7.0	1	13	6.0	3.5	13.6	20
	TOTAL MOLLUSC SP.	6	3	2	1	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL POLYCHAETE INDIV.		10	13	18	13.7	14.0	10	18	4.0	2.3	9.1	41
	TOTAL POLYCHAETE SP.	13	6	8	9	7.7	7.5	6	9	1.5	0.9	3.4	23

STANUM	STATION	IDORG	DATE	LEG
40032.1	SAN PEDRO BAY POLA 19	79	07/30/92	1

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampharete labrops	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Anotomastus gordiodes	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta	1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Chaetozone corona	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Eranno lagunae	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	12	10	6	9.3	9.0	6	12	3.1	1.8	6.9	28
Monticellina sp. C	Polychaeta	5	5	2	4.0	3.5	2	5	1.7	1.0	3.9	12
Nereis procera	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Poecilochaetus sp. A	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Sabellidae spp. juv.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Scoletoma erecta	Polychaeta		2	3	3	2.7	2.5	2	3	0.6	0.3	1.3	8
nematoda	Nematoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		0	4	1	1.7	2.0	0	4	2.1	1.2	4.7	5
Argissa hamatipes	Amphipoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Foxiphalus obtusidens	Amphipoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Crangon nigricauda	Decapoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampelisca cristata	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Amphipoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rutiderma rostrata	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glottidia albida	Brachipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiphana	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Odostomia sp.	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella tumida	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Modiolus rectus	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Phoronid	Phoronida		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		34	38	24	32.0	31.0	24	38	7.2	4.2	16.2	96
	TOTAL SPECIES	35	17	18	15	16.7	16.5	15	18	1.5	0.9	3.4	50
	TOTAL CRUST. INDIV.		3	4	1	2.7	2.5	1	4	1.5	0.9	3.4	8
	TOTAL CRUST. SP.	7	3	4	1	2.7	2.5	1	4	1.5	0.9	3.4	8
	GAMMARID INDIV.		2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
	GAMMARID SP.	4	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
	OTHER CRUSTACEAN INDIV.		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN SP.	3	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		3	3	1	2.3	2.0	1	3	1.2	0.7	2.6	7
	TOTAL MOLLUSC SP.	5	2	3	1	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL POLYCHAETE INDIV.		27	27	18	24.0	22.5	18	27	5.2	3.0	11.7	72
	TOTAL POLYCHAETE SP.	18	11	10	9	10.0	10.0	9	11	1.0	0.6	2.3	30

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40032.2	SAN PEDRO BAY POLA 19	80	07/30/92	1

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampharete labrops	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphicteis scaphobranchiata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta	1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
Chaetozone corona	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Eranno lagunae	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone limnicola	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet.	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Glycera americana	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Glycinde armigera	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Laonice cirrata	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Leitoscoloplos pugettensis	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Marphysa disjuncta	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaeta	15	24	11	16.7	17.5	11	24	6.7	3.8	15.0	50
Melinna oculata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Metasychis disparidentatus	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta	12	3	4	6.3	7.5	3	12	4.9	2.8	11.1	19
Nephtys cornuta	Polychaeta	0	3	3	2.0	1.5	0	3	1.7	1.0	3.9	6
Nereis procera	Polychaeta	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Notomastus tenuis	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Paraprionospio pinnata	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pectinaria californiensis	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista disjuncta	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Praxillella spp. indet.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Scoletoma erecta	Polychaeta	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Spiophanes missionensis	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
nemertea	Nemertea	3	5	2	3.3	3.5	2	5	1.5	0.9	3.4	10
Euphilomedes carcharodonta	Ostracoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Bathyleberis californica	Ostracoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampelisca cristata	Amphipoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Rutiderma lomae	Ostracoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Edotea sublittoralis	Isopoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leptostylis sp.	Cumacea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Odostomia sp.	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cylichna diegensis	Gastropoda		0	2	4	2.0	2.0	0	4	2.0	1.2	4.5	6
Gasteropteron pacificum	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphiodia sp.	Ophiuroidea		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Tellina modesta	Bivalvia		0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Mysella sp. A	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Macoma sp.	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Poromya sp.	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella tumida	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		44	66	50	53.3	55.0	44	66	11.4	6.6	25.6	160
	TOTAL SPECIES	46	13	28	24	21.7	20.5	13	28	7.8	4.5	17.5	65
	TOTAL CRUST. INDIV.		3	5	2	3.3	3.5	2	5	1.5	0.9	3.4	10
	TOTAL CRUST. SP.	7	1	5	2	2.7	3.0	1	5	2.1	1.2	4.7	8
	GAMMARID INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	GAMMARID SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		3	5	1	3.0	3.0	1	5	2.0	1.2	4.5	9
	OTHER CRUSTACEAN SP.	6	1	5	1	2.3	3.0	1	5	2.3	1.3	5.2	7
	TOTAL ECHINODERM INDIV.		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL ECHINODERM SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		1	8	9	6.0	5.0	1	9	4.4	2.5	9.8	18
	TOTAL MOLLUSC SP.	9	1	7	3	3.7	4.0	1	7	3.1	1.8	6.9	11
	TOTAL POLYCHAETE INDIV.		37	46	37	40.0	41.5	37	46	5.2	3.0	11.7	120
	TOTAL POLYCHAETE SP.	28	10	14	18	14.0	14.0	10	18	4.0	2.3	9.0	42

STANUM	STATION	IDORG	DATE	LEG
40032.3	SAN PEDRO BAY, POLA 19	81	07/30/92	1

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amaeana occidentalis	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Ampharete labrops	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphicteis scaphobranchiata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaeta	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Chone mollis	Polychaeta	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cirratulidae spp. indet.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Cossura candida	Polychaeta		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Eranno lagunae	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae spp. indet.	Polychaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Eumida longicornuta	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycinde armigera	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Levinsenia gracilis	Polychaeta		1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Lumbrineris californiensis	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta		10	5	9	8.0	7.5	5	10	2.6	1.5	6.0	24
Metasychis disparidentatus	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina dorsobranchialis	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Monticellina sp. C	Polychaeta		9	4	8	7.0	6.5	4	9	2.6	1.5	6.0	21
Nephtys cornuta	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nereididae spp. juv.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paramage scutata	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabra	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis sp. A	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scalibregma inflatum	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Spiophanes berkeleyorum	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphideutopus oculatus	Amphipoda		6	0	9	5.0	4.5	0	9	4.6	2.6	10.3	15
Euphilomedes carcharodonta	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Lamprops sp.	Cumacea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysidacea	Mysidacea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Cylichna diegensis	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Laevicardium substriatum	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella tumida	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiaphana	Bivalvia		0	2	5	2.3	2.5	0	5	2.5	1.5	5.7	7
Rudilemboides stenopropodus	Amphipoda		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL INDIVIDUALS		41	33	49	41.0	41.0	33	49	8.0	4.6	18.0	123
	TOTAL SPECIES	41	18	21	19	19.3	19.5	18	21	1.5	0.9	3.4	58
	TOTAL CRUST. INDIV.		8	1	11	6.7	6.0	1	11	5.1	3.0	11.5	20
	TOTAL CRUST. SP.	5	2	1	3	2.0	2.0	1	3	1.0	0.6	2.3	6
	GAMMARID INDIV.		8	0	9	5.7	4.5	0	9	4.9	2.8	11.1	17

GAMMARID SP.	2	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
OTHER CRUSTACEAN INDIV.		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
OTHER CRUSTACEAN SP.	3	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		2	6	6	4.7	4.0	2	6	2.3	1.3	5.2	14
TOTAL MOLLUSC SP.	6	2	4	2	2.7	3.0	2	4	1.2	0.7	2.6	8
TOTAL POLYCHAETE INDIV.		30	26	31	29.0	28.5	26	31	2.6	1.5	6.0	87
TOTAL POLYCHAETE SP.	29	13	16	13	14.0	14.5	13	16	1.7	1.0	3.9	42

STANUM	STATION	IDORG	DATE	LEG
40033.1	OUTER HARBOR, POLA 10	82	07/30/92	1

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta	0	5	6	3.7	3.0	0	6	3.2	1.9	7.2	11
Euclymeninae spp. indet.	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Harmothoinae spp. indet.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Levinsenia gracilis	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Malmgreniella spp. indet.	Polychaeta	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Mediomastus californiensis	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta	2	5	3	3.3	3.5	2	5	1.5	0.9	3.4	10
Pectinaria californiensis	Polychaeta	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Sigalionidae spp. indet.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spionidae spp. indet.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellidae spp. indet.	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Terebellides californica	Polychaeta	0	2	4	2.0	2.0	0	4	2.0	1.2	4.5	6
nemertea	Nemertea	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphideutopus oculatus	Amphipoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Rudilemboides stenopropodus	Amphipoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella tumida	Bivalvia	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Theora fragilis	Bivalvia	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Tellina modesta	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cylichna diegensis	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nuculana taphria	Bivalvia	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Polinices sp.	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1

Aglajidae	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		11	23	28	20.7	19.5	11	28	8.7	5.0	19.7	62
	TOTAL SPECIES	25	9	13	17	13.0	13.0	9	17	4.0	2.3	9.0	39
	TOTAL CRUST. INDIV.		1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL CRUST. SP.	3	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	GAMMARID INDIV.		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID SP.	2	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN SP.	1	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		2	2	5	3.0	3.5	2	5	1.7	1.0	3.9	9
	TOTAL MOLLUSC SP.	7	2	2	5	3.0	3.5	2	5	1.7	1.0	3.9	9
	TOTAL POLYCHAETE INDIV.		8	19	20	15.7	14.0	8	20	6.7	3.8	15.0	47
	TOTAL POLYCHAETE SP.	14	6	9	9	8.0	7.5	6	9	1.7	1.0	3.9	24

STANUM	STATION	IDORG	DATE	LEG
40033.2	OUTER HARBOR, POLA 10	83	07/30/92	1

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	3	0	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Amphicteis scaphobranchiata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaeta	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cossura candida	Polychaeta	13	9	23	15.0	16.0	9	23	7.2	4.2	16.2	45
Euchone limnicola	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Levinsenia gracilis	Polychaeta	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Lumbrineridae spp. juv.	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Malmgreniella spp. indet.	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Marphysa disjuncta	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaeta	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus spp. indet.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina sp. C	Polychaeta	5	0	1	2.0	2.5	0	5	2.6	1.5	6.0	6
Nephtys cornuta	Polychaeta	12	12	6	10.0	9.0	6	12	3.5	2.0	7.8	30
Nereis procera	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Notomastus tenuis	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paramage scutata	Polychaeta	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaeta	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3

Scoletoma erecta	Polychaeta		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Terebellides californica	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
nemertea	Nemertea		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphideutopus oculatus	Amphipoda		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Rudilemboides stenopropodus	Amphipoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nassarius perpinguis	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella sp. A	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Parvilucina tenuisculpta	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cooperella subdiaphana	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Odostomia sp.	Gastropoda		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Amphiodia sp.	Ophiuroidea		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		53	33	44	43.3	43.0	33	53	10.0	5.8	22.5	130
	TOTAL SPECIES	31	18	12	16	15.3	15.0	12	18	3.1	1.8	6.9	46
	TOTAL CRUST. INDIV.		0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
	TOTAL CRUST. SP.	2	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID INDIV.		0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
	GAMMARID SP.	2	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		6	4	2	4.0	4.0	2	6	2.0	1.2	4.5	12
	TOTAL MOLLUSC SP.	6	3	3	2	2.7	2.5	2	3	0.6	0.3	1.3	8
	TOTAL POLYCHAETE INDIV.		46	26	39	37.0	36.0	26	46	10.1	5.9	22.8	111
	TOTAL POLYCHAETE SP.	21	14	7	11	10.7	10.5	7	14	3.5	2.0	7.9	32

STANUM	STATION	IDORG	DATE	LEG
40033.3	OUTER HARBOR, POLA 10	84	07/30/92	1

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acmira catherinae	Polychaeta	5	0	1	2.0	2.5	0	5	2.6	1.5	6.0	6
Chaetozone corona	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaeta	4	1	0	1.7	2.0	0	4	2.1	1.2	4.7	5
Cossura candida	Polychaeta	18	9	4	10.3	11.0	4	18	7.1	4.1	16.0	31
Glycera capitata	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5

Malmgreniella spp. indet.	Polychaeta		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Mediomastus spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaeta		13	7	0	6.7	6.5	0	13	6.5	3.8	14.6	20
Nereis procera	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pholoe glabra	Polychaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma erecta	Polychaeta		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Spionidae spp. indet.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides californica	Polychaeta		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
nemertea	Nemertea		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Amphideutopus oculatus	Amphipoda		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Amphiodia sp.	Ophiuroidea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Odostomia sp.	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		1	2	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Nuculana taphria	Bivalvia		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Cylichna diegensis	Gastropoda		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Parvilucina tenuisculpta	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Turbonilla sp.	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aglajidae	Gastropoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		55	35	12	34.0	33.5	12	55	21.5	12.4	48.4	102
	TOTAL SPECIES	24	16	17	6	13.0	11.5	6	17	6.1	3.5	13.7	39
	TOTAL CRUST. INDIV.		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL CRUST. SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID INDIV.		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	GAMMARID SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		4	7	3	4.7	5.0	3	7	2.1	1.2	4.7	14
	TOTAL MOLLUSC SP.	7	4	5	1	3.3	3.0	1	5	2.1	1.2	4.7	10
	TOTAL POLYCHAETE INDIV.		47	26	9	27.3	28.0	9	47	19.0	11.0	42.8	82
	TOTAL POLYCHAETE SP.	14	10	10	5	8.3	7.5	5	10	2.9	1.7	6.5	25

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40004.2	LOWER MAIN CHANNEL-REP 1	830	06/17/93	20

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amphideutopus oculatus	Gammaridea		3			3.0	3.0	3	3				3
Diastylis sp.	Cumacea		1			1.0	1.0	1	1				1
Scleroplax granulata	Decapoda		3			3.0	3.0	3	3				3
Euphilomedes carcharodonta	Ostracoda		4			4.0	4.0	4	4				4
Mysella sp.	Bivalvia		1			1.0	1.0	1	1				1
Acmira catherinae	Polychaeta		4			4.0	4.0	4	4				4
Amphicteis scaphobranchiata	Polychaeta		4			4.0	4.0	4	4				4
Chaetozone corona	Polychaeta		4			4.0	4.0	4	4				4
Chone mollis	Polychaeta		1			1.0	1.0	1	1				1
Cossura candida	Polychaeta		3			3.0	3.0	3	3				3
Eranno lagunae	Polychaeta		3			3.0	3.0	3	3				3
Euchone limnicola	Polychaeta		5			5.0	5.0	5	5				5
Exogone lourei	Polychaeta		1			1.0	1.0	1	1				1
Levinsenia gracilis	Polychaeta		1			1.0	1.0	1	1				1
Lysippe labiata	Polychaeta		1			1.0	1.0	1	1				1
Mediomastus californiensis	Polychaeta		2			2.0	2.0	2	2				2
Metasychis disparidentata	Polychaeta		1			1.0	1.0	1	1				1
Monticellina dorsobranchialis	Polychaeta		1			1.0	1.0	1	1				1
Monticellina sp. C	Polychaeta		13			13.0	13.0	13	13				13
Nereis procera	Polychaeta		1			1.0	1.0	1	1				1
Paraprionospio pinnata	Polychaeta		1			1.0	1.0	1	1				1
Pista sp(p).	Polychaeta		1			1.0	1.0	1	1				1
Podarkeopsis perkinsi	Polychaeta		1			1.0	1.0	1	1				1
Prionospio steenstrupi	Polychaeta		1			1.0	1.0	1	1				1
Scoletoma tetraura	Polychaeta		1			1.0	1.0	1	1				1
Spiophanes missionensis	Polychaeta		1			1.0	1.0	1	1				1
Streblosoma sp. B	Polychaeta		12			12.0	12.0	12	12				12
Nemertea	Nemertea		1			1.0	1.0	1	1				1
	TOTAL INDIVIDUALS		76			76.0	76.0	76	76				76
	TOTAL SPECIES	28	28			28.0	28.0	28	28				28
	TOTAL CRUST. INDIV.		11			11.0	11.0	11	11				11
	TOTAL CRUST. SP.	4	4			4.0	4.0	4	4				4
	GAMMARID INDIV.		3			3.0	3.0	3	3				3
	GAMMARID SP.	1	1			1.0	1.0	1	1				1

OTHER CRUSTACEAN INDIV.		8	8.0	8.0	8	8		8
OTHER CRUSTACEAN SP.	3	3	3.0	3.0	3	3		3
TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
TOTAL MOLLUSC INDIV.		1	1.0	1.0	1	1		1
TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
TOTAL POLYCHAETE INDIV.		63	63.0	63.0	63	63		63
TOTAL POLYCHAETE SP.	22	22	22.0	22.0	22	22		22

STANUM	STATION	IDORG	DATE	LEG
40004.2	LOWER MAIN CHANNEL-REP 2	831	06/17/93	20

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Euphilomedes carcharodonta	Ostracoda	1			1.0	1.0	1	1				1
Pectinaria californiensis	Bivalvia	1			1.0	1.0	1	1				1
Theora fragilis	Bivalvia	7			7.0	7.0	7	7				7
Amaeana occidentalis	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta monilaris	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta multifilis	Polychaeta	1			1.0	1.0	1	1				1
Chaetozone corona	Polychaeta	5			5.0	5.0	5	5				5
Cossura candida	Polychaeta	125			125.0	125.0	125	125				125
Euchone limnicola	Polychaeta	1			1.0	1.0	1	1				1
Levinsenia gracilis	Polychaeta	6			6.0	6.0	6	6				6
Mediomastus californiensis	Polychaeta	5			5.0	5.0	5	5				5
Monticellina dorsobranchialis	Polychaeta	1			1.0	1.0	1	1				1
Monticellina sp. C	Polychaeta	24			24.0	24.0	24	24				24
Nephtys cornuta	Polychaeta	6			6.0	6.0	6	6				6
TOTAL INDIVIDUALS		185			185.0	185.0	185	185				185
TOTAL SPECIES	14	14			14.0	14.0	14	14				14
TOTAL CRUST. INDIV.		1			1.0	1.0	1	1				1
TOTAL CRUST. SP.	1	1			1.0	1.0	1	1				1
GAMMARID INDIV.		0			0.0	0.0	0	0				0
GAMMARID SP.	0	0			0.0	0.0	0	0				0
OTHER CRUSTACEAN INDIV.		1			1.0	1.0	1	1				1
OTHER CRUSTACEAN SP.	1	1			1.0	1.0	1	1				1
TOTAL ECHINODERM INDIV.		0			0.0	0.0	0	0				0
TOTAL ECHINODERM SP.	0	0			0.0	0.0	0	0				0
TOTAL MOLLUSC INDIV.		8			8.0	8.0	8	8				8

TOTAL MOLLUSC SP.	2	2	2.0	2.0	2	2		2
TOTAL POLYCHAETE INDIV.		176	176.0	176.0	176	176		176
TOTAL POLYCHAETE SP.	11	11	11.0	11.0	11	11		11

STANUM	STATION	IDORG	DATE	LEG
40004.2	LOWER MAIN CHANNEL-REF 3	832	06/17/93	20

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Neotrypaea californiensis	Decapoda	1			1.0	1.0	1	1				1
Mactra californica	Bivalvia	1			1.0	1.0	1	1				1
Acmira catherinae	Polychaeta	2			2.0	2.0	2	2				2
Amaeana occidentalis	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta multifilis	Polychaeta	1			1.0	1.0	1	1				1
Chaetozone corona	Polychaeta	3			3.0	3.0	3	3				3
Cossura candida	Polychaeta	3			3.0	3.0	3	3				3
Diopatra tridentata	Polychaeta	1			1.0	1.0	1	1				1
Eranno lagunae	Polychaeta	2			2.0	2.0	2	2				2
Euclymeninae, unident.	Polychaeta	2			2.0	2.0	2	2				2
Glycera americana	Polychaeta	1			1.0	1.0	1	1				1
Mediomastus californiensis	Polychaeta	2			2.0	2.0	2	2				2
Melinna oculata	Polychaeta	3			3.0	3.0	3	3				3
Monticellina dorsobranchialis	Polychaeta	1			1.0	1.0	1	1				1
Monticellina sp. C	Polychaeta	25			25.0	25.0	25	25				25
Nereis procera	Polychaeta	2			2.0	2.0	2	2				2
Notomastus tenuis	Polychaeta	2			2.0	2.0	2	2				2
Paramage scutata	Polychaeta	1			1.0	1.0	1	1				1
Paraprionospio pinnata	Polychaeta	2			2.0	2.0	2	2				2
Poecilochaetus johnsoni	Polychaeta	1			1.0	1.0	1	1				1
Prionospio lighti	Polychaeta	1			1.0	1.0	1	1				1
Spiophanes missionensis	Polychaeta	1			1.0	1.0	1	1				1
Sthenelanella uniformis	Polychaeta	1			1.0	1.0	1	1				1
Streblosoma sp. B	Polychaeta	6			6.0	6.0	6	6				6
Pennatulacea	Anthozoa	1			1.0	1.0	1	1				1
Nemertea	Nemertea	2			2.0	2.0	2	2				2
	TOTAL INDIVIDUALS	69			69.0	69.0	69	69				69
	TOTAL SPECIES	26	26		26.0	26.0	26	26				26
	TOTAL CRUST. INDIV.	1			1.0	1.0	1	1				1
	TOTAL CRUST. SP.	1	1		1.0	1.0	1	1				1

GAMMARID INDIV.		0	0.0	0.0	0	0		0
GAMMARID SP.	0	0	0.0	0.0	0	0		0
OTHER CRUSTACEAN INDIV.		1	1.0	1.0	1	1		1
OTHER CRUSTACEAN SP.	1	1	1.0	1.0	1	1		1
TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
TOTAL MOLLUSC INDIV.		1	1.0	1.0	1	1		1
TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
TOTAL POLYCHAETE INDIV.		64	64.0	64.0	64	64		64
TOTAL POLYCHAETE SP.	22	22	22.0	22.0	22	22		22

STANUM	STATION	IDORG	DATE	LEG
40009.1	WEST BASIN ENTRANCE-REP 1	834	06/17/93	20

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acuminodeutopus heteruropus	Gammaridea	1			1.0	1.0	1	1				1
Amphideutopus oculatus	Gammaridea	1			1.0	1.0	1	1				1
Marphysa disjuncta	Gammaridea	1			1.0	1.0	1	1				1
Theora fragilis	Bivalvia	2			2.0	2.0	2	2				2
Aglaja sp.	Gastropoda	2			2.0	2.0	2	2				2
Acmira catherinae	Polychaeta	2			2.0	2.0	2	2				2
Amphicteis scaphobranchiata	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta monilaris	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta multifilis	Polychaeta	1			1.0	1.0	1	1				1
Apoprionospio pygmaea	Polychaeta	1			1.0	1.0	1	1				1
Chaetozone corona	Polychaeta	1			1.0	1.0	1	1				1
Cossura candida	Polychaeta	52			52.0	52.0	52	52				52
Eranno lagunae	Polychaeta	2			2.0	2.0	2	2				2
Euclymeninae, unident.	Polychaeta	1			1.0	1.0	1	1				1
Leitoscoloplos pugettensis	Polychaeta	3			3.0	3.0	3	3				3
Levinsenia gracilis	Polychaeta	1			1.0	1.0	1	1				1
Mediomastus californiensis	Polychaeta	3			3.0	3.0	3	3				3
Monticellina dorsobranchialis	Polychaeta	4			4.0	4.0	4	4				4
Monticellina sp. C	Polychaeta	2			2.0	2.0	2	2				2
Nephtys cornuta	Polychaeta	1			1.0	1.0	1	1				1
Paraprionospio pinnata	Polychaeta	2			2.0	2.0	2	2				2
Parougia caeca	Polychaeta	1			1.0	1.0	1	1				1
Podarkeopsis glabra	Polychaeta	1			1.0	1.0	1	1				1

Streblosoma sp. B	Polychaeta		1	1.0	1.0	1	1		1
Nemertea	Nemertea		1	1.0	1.0	1	1		1
	TOTAL INDIVIDUALS		89	89.0	89.0	89	89		89
	TOTAL SPECIES	25	25	25.0	25.0	25	25		25
	TOTAL CRUST. INDIV.		3	3.0	3.0	3	3		3
	TOTAL CRUST. SP.	3	3	3.0	3.0	3	3		3
	GAMMARID INDIV.		3	3.0	3.0	3	3		3
	GAMMARID SP.	3	3	3.0	3.0	3	3		3
	OTHER CRUSTACEAN INDIV.		0	0.0	0.0	0	0		0
	OTHER CRUSTACEAN SP.	0	0	0.0	0.0	0	0		0
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		4	4.0	4.0	4	4		4
	TOTAL MOLLUSC SP.	2	2	2.0	2.0	2	2		2
	TOTAL POLYCHAETE INDIV.		81	81.0	81.0	81	81		81
	TOTAL POLYCHAETE SP.	19	19	19.0	19.0	19	19		19

STANUM	STATION	IDORG	DATE	LEG
40009.1	WEST BASIN ENTRANCE-REP 2	835	06/17/93	20

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Acuminodeutopus heteruropus	Gammaridea	1			1.0	1.0	1	1				1
Amphideutopus oculatus	Gammaridea	6			6.0	6.0	6	6				6
Theora fragilis	Bivalvia	7			7.0	7.0	7	7				7
Amaeana occidentalis	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta monilaris	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta multifilis	Polychaeta	2			2.0	2.0	2	2				2
Chaetozone corona	Polychaeta	3			3.0	3.0	3	3				3
Cossura candida	Polychaeta	32			32.0	32.0	32	32				32
Eranno lagunae	Polychaeta	5			5.0	5.0	5	5				5
Leitoscoloplos pugettensis	Polychaeta	4			4.0	4.0	4	4				4
Mediomastus californiensis	Polychaeta	2			2.0	2.0	2	2				2
Monticellina dorsobranchialis	Polychaeta	1			1.0	1.0	1	1				1
Monticellina sp. C	Polychaeta	4			4.0	4.0	4	4				4
Nephtys cornuta	Polychaeta	1			1.0	1.0	1	1				1
Paraprionospio pinnata	Polychaeta	3			3.0	3.0	3	3				3
Prionospio lighti	Polychaeta	1			1.0	1.0	1	1				1
Spiophanes berkeleyorum	Polychaeta	1			1.0	1.0	1	1				1

Streblosoma sp. B	Polychaeta		1	1.0	1.0	1	1	1
Tenonia priops	Polychaeta		1	1.0	1.0	1	1	1
Nemertea	Nemertea		4	4.0	4.0	4	4	4
	TOTAL INDIVIDUALS		81	81.0	81.0	81	81	81
	TOTAL SPECIES	20	20	20.0	20.0	20	20	20
	TOTAL CRUST. INDIV.		7	7.0	7.0	7	7	7
	TOTAL CRUST. SP.	2	2	2.0	2.0	2	2	2
	GAMMARID INDIV.		7	7.0	7.0	7	7	7
	GAMMARID SP.	2	2	2.0	2.0	2	2	2
	OTHER CRUSTACEAN INDIV.		0	0.0	0.0	0	0	0
	OTHER CRUSTACEAN SP.	0	0	0.0	0.0	0	0	0
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0	0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0	0
	TOTAL MOLLUSC INDIV.		7	7.0	7.0	7	7	7
	TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1	1
	TOTAL POLYCHAETE INDIV.		63	63.0	63.0	63	63	63
	TOTAL POLYCHAETE SP.	16	16	16.0	16.0	16	16	16

STANUM	STATION	IDORG	DATE	LEG
40009.1	WEST BASIN ENTRANCE-REP 3	836	06/17/93	20

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amphideutopus oculatus	Gammaridea	1			1.0	1.0	1	1				1
Gnathia crenulatifrons	Isopoda	1			1.0	1.0	1	1				1
Holothuroid	Holothuroidea	1			1.0	1.0	1	1				1
Theora fragilis	Bivalvia	6			6.0	6.0	6	6				6
Acmira catherinae	Polychaeta	3			3.0	3.0	3	3				3
Ampelisca brevisimulata	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta monilaris	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta multifilis	Polychaeta	1			1.0	1.0	1	1				1
Apoprionospio pygmaea	Polychaeta	1			1.0	1.0	1	1				1
Chaetozone corona	Polychaeta	3			3.0	3.0	3	3				3
Chone mollis	Polychaeta	1			1.0	1.0	1	1				1
Cossura candida	Polychaeta	77			77.0	77.0	77	77				77
Laonice cirrata	Polychaeta	2			2.0	2.0	2	2				2
Leitoscoloplos pugettensis	Polychaeta	6			6.0	6.0	6	6				6
Levinsenia gracilis	Polychaeta	2			2.0	2.0	2	2				2
Mediomastus californiensis	Polychaeta	3			3.0	3.0	3	3				3

Monticellina dorsobranchialis	Polychaeta		2	2.0	2.0	2	2		2
Monticellina sp. C	Polychaeta		11	11.0	11.0	11	11		11
Nephtys cornuta	Polychaeta		3	3.0	3.0	3	3		3
Paramage scutata	Polychaeta		2	2.0	2.0	2	2		2
Paraprionospio pinnata	Polychaeta		1	1.0	1.0	1	1		1
Podarkeopsis glabra	Polychaeta		1	1.0	1.0	1	1		1
Prionospio steenstrupi	Polychaeta		2	2.0	2.0	2	2		2
Scoletoma tetraura	Polychaeta		1	1.0	1.0	1	1		1
Terebellides californica	Polychaeta		5	5.0	5.0	5	5		5
Nemertea	Nemertea		4	4.0	4.0	4	4		4
	TOTAL INDIVIDUALS		142	142.0	142.0	142	142		142
	TOTAL SPECIES	26	26	26.0	26.0	26	26		26
	TOTAL CRUST. INDIV.		2	2.0	2.0	2	2		2
	TOTAL CRUST. SP.	2	2	2.0	2.0	2	2		2
	GAMMARID INDIV.		1	1.0	1.0	1	1		1
	GAMMARID SP.	1	1	1.0	1.0	1	1		1
	OTHER CRUSTACEAN INDIV.		1	1.0	1.0	1	1		1
	OTHER CRUSTACEAN SP.	1	1	1.0	1.0	1	1		1
	TOTAL ECHINODERM INDIV.		1	1.0	1.0	1	1		1
	TOTAL ECHINODERM SP.	1	1	1.0	1.0	1	1		1
	TOTAL MOLLUSC INDIV.		6	6.0	6.0	6	6		6
	TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
	TOTAL POLYCHAETE INDIV.		129	129.0	129.0	129	129		129
	TOTAL POLYCHAETE SP.	21	21	21.0	21.0	21	21		21

STANUM	STATION	IDORG	DATE	LEG
40018.3	LONG BEACH OUTER HAR.-18 REF1	884	08/05/93	22

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Diastylis sp.	Cumacea	1			1.0	1.0	1	1				1
Euphilomedes carcharodonta	Ostracoda	8			8.0	8.0	8	8				8
Theora fragilis	Bivalvia	1			1.0	1.0	1	1				1
Amaeana occidentalis	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta monilaris	Polychaeta	1			1.0	1.0	1	1				1
Apistobranchus sp(p).	Polychaeta	1			1.0	1.0	1	1				1
Chaetozone corona	Polychaeta	1			1.0	1.0	1	1				1
Cossura candida	Polychaeta	9			9.0	9.0	9	9				9
Monticellina sp. C	Polychaeta	1			1.0	1.0	1	1				1

Nephtys cornuta	Polychaeta		1	1.0	1.0	1	1		1
Pista sp(p).	Polychaeta		1	1.0	1.0	1	1		1
TOTAL INDIVIDUALS			26	26.0	26.0	26	26		26
TOTAL SPECIES		11	11	11.0	11.0	11	11		11
TOTAL CRUST. INDIV.			9	9.0	9.0	9	9		9
TOTAL CRUST. SP.		2	2	2.0	2.0	2	2		2
GAMMARID INDIV.			0	0.0	0.0	0	0		0
GAMMARID SP.		0	0	0.0	0.0	0	0		0
OTHER CRUSTACEAN INDIV.			9	9.0	9.0	9	9		9
OTHER CRUSTACEAN SP.		2	2	2.0	2.0	2	2		2
TOTAL ECHINODERM INDIV.			0	0.0	0.0	0	0		0
TOTAL ECHINODERM SP.		0	0	0.0	0.0	0	0		0
TOTAL MOLLUSC INDIV.			1	1.0	1.0	1	1		1
TOTAL MOLLUSC SP.		1	1	1.0	1.0	1	1		1
TOTAL POLYCHAETE INDIV.			16	16.0	16.0	16	16		16
TOTAL POLYCHAETE SP.		8	8	8.0	8.0	8	8		8

STANUM	STATION	IDORG	DATE	LEG
40018.3	LONG BEACH OUTER HAR.-18 REF2	885	08/05/93	22

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Diastylis sp.	Cumacea	2			2.0	2.0	2	2				2
Parasterope barnesi	Ostracoda	1			1.0	1.0	1	1				1
Theora fragilis	Bivalvia	1			1.0	1.0	1	1				1
Aglaja sp.	Gastropoda	1			1.0	1.0	1	1				1
Acmira catherinae	Polychaeta	2			2.0	2.0	2	2				2
Acmira horikoshii	Polychaeta	1			1.0	1.0	1	1				1
Amaeana occidentalis	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta monilaris	Polychaeta	1			1.0	1.0	1	1				1
Cossura candida	Polychaeta	39			39.0	39.0	39	39				39
Eranno lagunae	Polychaeta	1			1.0	1.0	1	1				1
Euclymeninae, unident.	Polychaeta	2			2.0	2.0	2	2				2
Mediomastus californiensis	Polychaeta	2			2.0	2.0	2	2				2
Monticellina sp. C	Polychaeta	6			6.0	6.0	6	6				6
Nephtys cornuta	Polychaeta	1			1.0	1.0	1	1				1
Paraprionospio pinnata	Polychaeta	1			1.0	1.0	1	1				1
Scoletoma tetraura	Polychaeta	1			1.0	1.0	1	1				1
Terebellides californica	Polychaeta	1			1.0	1.0	1	1				1

Nemertea	Nemertea		1	1.0	1.0	1	1		1
	TOTAL INDIVIDUALS		65	65.0	65.0	65	65		65
	TOTAL SPECIES	18	18	18.0	18.0	18	18		18
	TOTAL CRUST. INDIV.		3	3.0	3.0	3	3		3
	TOTAL CRUST. SP.	2	2	2.0	2.0	2	2		2
	GAMMARID INDIV.		0	0.0	0.0	0	0		0
	GAMMARID SP.	0	0	0.0	0.0	0	0		0
	OTHER CRUSTACEAN INDIV.		3	3.0	3.0	3	3		3
	OTHER CRUSTACEAN SP.	2	2	2.0	2.0	2	2		2
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		2	2.0	2.0	2	2		2
	TOTAL MOLLUSC SP.	2	2	2.0	2.0	2	2		2
	TOTAL POLYCHAETE INDIV.		59	59.0	59.0	59	59		59
	TOTAL POLYCHAETE SP.	13	13	13.0	13.0	13	13		13

STANUM	STATION	IDORG	DATE	LEG
40018.3	LONG BEACH OUTER HAR.-18 REF3	886	08/05/93	22

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Diastylis sp.	Cumacea		1			1.0	1.0	1	1				1
Euphilomedes carcharodonta	Ostracoda		1			1.0	1.0	1	1				1
Theora fragilis	Bivalvia		1			1.0	1.0	1	1				1
Aglaja sp.	Gastropoda		1			1.0	1.0	1	1				1
Cossura candida	Polychaeta		12			12.0	12.0	12	12				12
Monticellina sp. C	Polychaeta		2			2.0	2.0	2	2				2
Nephtys cornuta	Polychaeta		1			1.0	1.0	1	1				1
Nemertea	Nemertea		1			1.0	1.0	1	1				1
	TOTAL INDIVIDUALS		20			20.0	20.0	20	20				20
	TOTAL SPECIES	8	8			8.0	8.0	8	8				8
	TOTAL CRUST. INDIV.		2			2.0	2.0	2	2				2
	TOTAL CRUST. SP.	2	2			2.0	2.0	2	2				2
	GAMMARID INDIV.		0			0.0	0.0	0	0				0
	GAMMARID SP.	0	0			0.0	0.0	0	0				0
	OTHER CRUSTACEAN INDIV.		2			2.0	2.0	2	2				2
	OTHER CRUSTACEAN SP.	2	2			2.0	2.0	2	2				2
	TOTAL ECHINODERM INDIV.		0			0.0	0.0	0	0				0
	TOTAL ECHINODERM SP.	0	0			0.0	0.0	0	0				0

TOTAL MOLLUSC INDIV.		2	2.0	2.0	2	2			2
TOTAL MOLLUSC SP.	2	2	2.0	2.0	2	2			2
TOTAL POLYCHAETE INDIV.		15	15.0	15.0	15	15			15
TOTAL POLYCHAETE SP.	3	3	3.0	3.0	3	3			3

STANUM	STATION	IDORG	DATE	LEG
40031.2	PALOS VERDES (SWARTZ 6)-REF 1	1002	08/19/93	23

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Eudorella pacifica	Cumacea		1			1.0	1.0	1	1				1
Euphilomedes carcharodonta	Ostracoda		1			1.0	1.0	1	1				1
Euphilomedes producta	Ostracoda		10			10.0	10.0	10	10				10
Ophiuroid	Ophiuroidea		1			1.0	1.0	1	1				1
Parvilucina tenuisculpta	Bivalvia		2			2.0	2.0	2	2				2
Aphelochaeta multifilis	Polychaeta		1			1.0	1.0	1	1				1
Eranno lagunae	Polychaeta		1			1.0	1.0	1	1				1
Goniada brunnea	Polychaeta		2			2.0	2.0	2	2				2
Prionospio steenstrupi	Polychaeta		3			3.0	3.0	3	3				3
Spiophanes berkeleyorum	Polychaeta		1			1.0	1.0	1	1				1
Spiophanes missionensis	Polychaeta		5			5.0	5.0	5	5				5
Sthenelais tertiaglabra	Polychaeta		1			1.0	1.0	1	1				1
Nemertea	Nemertea		1			1.0	1.0	1	1				1
TOTAL INDIVIDUALS			30			30.0	30.0	30	30				30
TOTAL SPECIES		13	13			13.0	13.0	13	13				13
TOTAL CRUST. INDIV.			12			12.0	12.0	12	12				12
TOTAL CRUST. SP.		3	3			3.0	3.0	3	3				3
GAMMARID INDIV.			0			0.0	0.0	0	0				0
GAMMARID SP.		0	0			0.0	0.0	0	0				0
OTHER CRUSTACEAN INDIV.			12			12.0	12.0	12	12				12
OTHER CRUSTACEAN SP.		3	3			3.0	3.0	3	3				3
TOTAL ECHINODERM INDIV.			1			1.0	1.0	1	1				1
TOTAL ECHINODERM SP.		1	1			1.0	1.0	1	1				1
TOTAL MOLLUSC INDIV.			2			2.0	2.0	2	2				2
TOTAL MOLLUSC SP.		1	1			1.0	1.0	1	1				1
TOTAL POLYCHAETE INDIV.			14			14.0	14.0	14	14				14
TOTAL POLYCHAETE SP.		7	7			7.0	7.0	7	7				7

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40031.2	PALOS VERDES (SWARTZ 6)-REF 2	1003	08/19/93	23

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Marphysa disjuncta	Gammaridea		1			1.0	1.0	1	1				1
Corophium heteroceratum	Gammaridea		1			1.0	1.0	1	1				1
Heterophoxus oculatus	Gammaridea		1			1.0	1.0	1	1				1
Euphilomedes carcharodonta	Ostracoda		1			1.0	1.0	1	1				1
Ophiuroid	Ophiuroidea		1			1.0	1.0	1	1				1
Parvilucina tenuisculpta	Bivalvia		2			2.0	2.0	2	2				2
Pectinaria californiensis	Bivalvia		1			1.0	1.0	1	1				1
Ampelisca hancocki	Polychaeta		1			1.0	1.0	1	1				1
Eranno lagunae	Polychaeta		1			1.0	1.0	1	1				1
Glycera nana	Polychaeta		2			2.0	2.0	2	2				2
Myriochele sp. M	Polychaeta		1			1.0	1.0	1	1				1
Pista alata	Polychaeta		1			1.0	1.0	1	1				1
Prionospio steenstrupi	Polychaeta		2			2.0	2.0	2	2				2
Spiophanes missionensis	Polychaeta		3			3.0	3.0	3	3				3
	TOTAL INDIVIDUALS		19			19.0	19.0	19	19				19
	TOTAL SPECIES	14	14			14.0	14.0	14	14				14
	TOTAL CRUST. INDIV.		4			4.0	4.0	4	4				4
	TOTAL CRUST. SP.	4	4			4.0	4.0	4	4				4
	GAMMARID INDIV.		3			3.0	3.0	3	3				3
	GAMMARID SP.	3	3			3.0	3.0	3	3				3
	OTHER CRUSTACEAN INDIV.		1			1.0	1.0	1	1				1
	OTHER CRUSTACEAN SP.	1	1			1.0	1.0	1	1				1
	TOTAL ECHINODERM INDIV.		1			1.0	1.0	1	1				1
	TOTAL ECHINODERM SP.	1	1			1.0	1.0	1	1				1
	TOTAL MOLLUSC INDIV.		3			3.0	3.0	3	3				3
	TOTAL MOLLUSC SP.	2	2			2.0	2.0	2	2				2
	TOTAL POLYCHAETE INDIV.		11			11.0	11.0	11	11				11
	TOTAL POLYCHAETE SP.	7	7			7.0	7.0	7	7				7

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40031.2	PALOS VERDES (SWARTZ 6)-REF 3	1004	08/19/93	23

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Munnogonium californiensis	Isopoda		1			1.0	1.0	1	1				1
Euphilomedes producta	Ostracoda		16			16.0	16.0	16	16				16
Ophiuroid	Ophiuroidea		3			3.0	3.0	3	3				3
Parvilucina tenuisculpta	Bivalvia		8			8.0	8.0	8	8				8
Cossura candida	Polychaeta		1			1.0	1.0	1	1				1
Glycera nana	Polychaeta		1			1.0	1.0	1	1				1
Mediomastus californiensis	Polychaeta		1			1.0	1.0	1	1				1
Paraprionospio pinnata	Polychaeta		1			1.0	1.0	1	1				1
Pholoe glabra	Polychaeta		1			1.0	1.0	1	1				1
Prionospio steenstrupi	Polychaeta		1			1.0	1.0	1	1				1
Tenonia priops	Polychaeta		1			1.0	1.0	1	1				1
Terebellidae, unident.	Polychaeta		1			1.0	1.0	1	1				1
Terebellides californica	Polychaeta		1			1.0	1.0	1	1				1
Nemertea	Nemertea		1			1.0	1.0	1	1				1
	TOTAL INDIVIDUALS		38			38.0	38.0	38	38				38
	TOTAL SPECIES	14	14			14.0	14.0	14	14				14
	TOTAL CRUST. INDIV.		17			17.0	17.0	17	17				17
	TOTAL CRUST. SP.	2	2			2.0	2.0	2	2				2
	GAMMARID INDIV.		0			0.0	0.0	0	0				0
	GAMMARID SP.	0	0			0.0	0.0	0	0				0
	OTHER CRUSTACEAN INDIV.		17			17.0	17.0	17	17				17
	OTHER CRUSTACEAN SP.	2	2			2.0	2.0	2	2				2
	TOTAL ECHINODERM INDIV.		3			3.0	3.0	3	3				3
	TOTAL ECHINODERM SP.	1	1			1.0	1.0	1	1				1
	TOTAL MOLLUSC INDIV.		8			8.0	8.0	8	8				8
	TOTAL MOLLUSC SP.	1	1			1.0	1.0	1	1				1
	TOTAL POLYCHAETE INDIV.		9			9.0	9.0	9	9				9
	TOTAL POLYCHAETE SP.	9	9			9.0	9.0	9	9				9

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40010.1	OFF CABRILLO BEACH-REF 1	1006	08/19/93	23

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amphideutopus oculatus	Gammaridea		4			4.0	4.0	4	4				4
Corophium heteroceratum	Gammaridea		7			7.0	7.0	7	7				7
Listriella goleta	Gammaridea		2			2.0	2.0	2	2				2
Euphilomedes carcharodonta	Ostracoda		10			10.0	10.0	10	10				10
Macoma cf yoldiformis	Bivalvia		1			1.0	1.0	1	1				1
Chaetozone corona	Polychaeta		1			1.0	1.0	1	1				1
Cossura candida	Polychaeta		50			50.0	50.0	50	50				50
Leitoscoloplos pugettensis	Polychaeta		1			1.0	1.0	1	1				1
Lumbrineridae, unident.	Polychaeta		1			1.0	1.0	1	1				1
Mediomastus californiensis	Polychaeta		11			11.0	11.0	11	11				11
Nephtys caecoides	Polychaeta		1			1.0	1.0	1	1				1
Nephtys cornuta	Polychaeta		1			1.0	1.0	1	1				1
Paraprionospio pinnata	Polychaeta		1			1.0	1.0	1	1				1
Pseudopolydora paucibranchiata	Polychaeta		2			2.0	2.0	2	2				2
	TOTAL INDIVIDUALS		93			93.0	93.0	93	93				93
	TOTAL SPECIES	14	14			14.0	14.0	14	14				14
	TOTAL CRUST. INDIV.		23			23.0	23.0	23	23				23
	TOTAL CRUST. SP.	4	4			4.0	4.0	4	4				4
	GAMMARID INDIV.		13			13.0	13.0	13	13				13
	GAMMARID SP.	3	3			3.0	3.0	3	3				3
	OTHER CRUSTACEAN INDIV.		10			10.0	10.0	10	10				10
	OTHER CRUSTACEAN SP.	1	1			1.0	1.0	1	1				1
	TOTAL ECHINODERM INDIV.		0			0.0	0.0	0	0				0
	TOTAL ECHINODERM SP.	0	0			0.0	0.0	0	0				0
	TOTAL MOLLUSC INDIV.		1			1.0	1.0	1	1				1
	TOTAL MOLLUSC SP.	1	1			1.0	1.0	1	1				1
	TOTAL POLYCHAETE INDIV.		69			69.0	69.0	69	69				69
	TOTAL POLYCHAETE SP.	9	9			9.0	9.0	9	9				9

STANUM	STATION	IDORG	DATE	LEG
40010.2	OFF CABRILLO BEACH-REF 2	1007	08/19/93	23

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Gammaridea		1			1.0	1.0	1	1				1
Corophium heteroceratum	Gammaridea		4			4.0	4.0	4	4				4
Euphilomedes carcharodonta	Ostracoda		2			2.0	2.0	2	2				2
Theora fragilis	Bivalvia		1			1.0	1.0	1	1				1
Olivella baetica	Gastropoda		1			1.0	1.0	1	1				1
Cossura candida	Polychaeta		11			11.0	11.0	11	11				11
Eranno lagunae	Polychaeta		1			1.0	1.0	1	1				1
Mediomastus californiensis	Polychaeta		3			3.0	3.0	3	3				3
	TOTAL INDIVIDUALS		24			24.0	24.0	24	24				24
	TOTAL SPECIES	8	8			8.0	8.0	8	8				8
	TOTAL CRUST. INDIV.		7			7.0	7.0	7	7				7
	TOTAL CRUST. SP.	3	3			3.0	3.0	3	3				3
	GAMMARID INDIV.		5			5.0	5.0	5	5				5
	GAMMARID SP.	2	2			2.0	2.0	2	2				2
	OTHER CRUSTACEAN INDIV.		2			2.0	2.0	2	2				2
	OTHER CRUSTACEAN SP.	1	1			1.0	1.0	1	1				1
	TOTAL ECHINODERM INDIV.		0			0.0	0.0	0	0				0
	TOTAL ECHINODERM SP.	0	0			0.0	0.0	0	0				0
	TOTAL MOLLUSC INDIV.		2			2.0	2.0	2	2				2
	TOTAL MOLLUSC SP.	2	2			2.0	2.0	2	2				2
	TOTAL POLYCHAETE INDIV.		15			15.0	15.0	15	15				15
	TOTAL POLYCHAETE SP.	3	3			3.0	3.0	3	3				3

STANUM	STATION	IDORG	DATE	LEG
40010.3	OFF CABRILLO BEACH-REF 3	1008	08/19/93	23

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amphideutopus oculatus	Gammaridea	6			6.0	6.0	6	6				6
Grandidierella japonica	Gammaridea	2			2.0	2.0	2	2				2
Mayerella banksia	Gammaridea	1			1.0	1.0	1	1				1
Rudilemboides stenopropodus	Gammaridea	1			1.0	1.0	1	1				1
Lophopanopeus bellus diegensis	Decapoda	1			1.0	1.0	1	1				1
Neotrypaea californiensis	Decapoda	1			1.0	1.0	1	1				1

Corophium heteroceratum	Gammaridea		1	1.0	1.0	1	1		1
Listriella goleta	Gammaridea		2	2.0	2.0	2	2		2
Euphilomedes carcharodonta	Ostracoda		32	32.0	32.0	32	32		32
Cossura candida	Polychaeta		28	28.0	28.0	28	28		28
Mediomastus californiensis	Polychaeta		7	7.0	7.0	7	7		7
Nephtys caecoides	Polychaeta		1	1.0	1.0	1	1		1
Prionospio lighti	Polychaeta		6	6.0	6.0	6	6		6
	TOTAL INDIVIDUALS		89	89.0	89.0	89	89		89
	TOTAL SPECIES	13	13	13.0	13.0	13	13		13
	TOTAL CRUST. INDIV.		47	47.0	47.0	47	47		47
	TOTAL CRUST. SP.	9	9	9.0	9.0	9	9		9
	GAMMARID INDIV.		13	13.0	13.0	13	13		13
	GAMMARID SP.	6	6	6.0	6.0	6	6		6
	OTHER CRUSTACEAN INDIV.		34	34.0	34.0	34	34		34
	OTHER CRUSTACEAN SP.	3	3	3.0	3.0	3	3		3
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		0	0.0	0.0	0	0		0
	TOTAL MOLLUSC SP.	0	0	0.0	0.0	0	0		0
	TOTAL POLYCHAETE INDIV.		42	42.0	42.0	42	42		42
	TOTAL POLYCHAETE SP.	4	4	4.0	4.0	4	4		4

STANUM	STATION	IDORG	DATE	LEG
44014	MARINA DEL REY	1630	06/19/96	45

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	1	0	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Grandidierella japonica	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paramicrodentopus schmitti	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Capitella capitata	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Caulleriella pacifica	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Cirriformia moorei	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Dorvillea longicornis	Polychaeta	3	1	6	3.3	3.5	1	6	2.5	1.5	5.7	10
Dorvillea spp. juv.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	1	0	5	2.0	2.5	0	5	2.6	1.5	6.0	6
Mediomastus californiensis	Polychaeta	3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Neanthes acuminata	Polychaeta	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Polydora cornuta	Polychaeta	7	1	5	4.3	4.0	1	7	3.1	1.8	6.9	13

Pseudopolydora paucibranchiata	Polychaeta		2	0	3	1.7	1.5	0	3	1.5	0.9	3.4	5
Scolelepis texana	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblospio benedicti	Polychaeta		9	5	12	8.7	8.5	5	12	3.5	2.0	7.9	26
Cossura pygodactylata	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus sp(p)	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma tetraura	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Syllides reishi	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nemertea	Nemertea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Oligochaeta	Oligochaeta		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Phoronida	Phoronida		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		39	9	39	29.0	24.0	9	39	17.3	10.0	39.0	87
	TOTAL SPECIES	22	16	5	10	10.3	10.5	5	16	5.5	3.2	12.4	31
	TOTAL CRUST. INDIV.		2	1	4	2.3	2.5	1	4	1.5	0.9	3.4	7
	TOTAL CRUST. SP.	3	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	GAMMARID INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		1	0	4	1.7	2.0	0	4	2.1	1.2	4.7	5
	OTHER CRUSTACEAN SP.	1	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		35	7	35	25.7	21.0	7	35	16.2	9.3	36.4	77
	TOTAL POLYCHAETE SP.	16	12	3	9	8.0	7.5	3	12	4.6	2.6	10.3	24

STANUM	STATION	IDORG	DATE	LEG
44020	SHORELINE MARINA	1631	06/20/96	45

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Corophium heteroceratum	Gammaridea		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Cossura candida	Polychaeta		7	1	0	2.7	3.5	0	7	3.8	2.2	8.5	8
Dorvillea spp. juv.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Harmothoinae, unident.	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina siblina	Polychaeta		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Streblospio benedicti	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabrus	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		16	1	0	5.7	8.0	0	16	9.0	5.2	20.2	17
	TOTAL SPECIES	7	7	1	0	2.7	3.5	0	7	3.8	2.2	8.5	8

TOTAL CRUST. INDIV.		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
TOTAL CRUST. SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
GAMMARID INDIV.		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
GAMMARID SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL POLYCHAETE INDIV.		14	1	0	5.0	7.0	0	14	7.8	4.5	17.6	15
TOTAL POLYCHAETE SP.	6	6	1	0	2.3	3.0	0	6	3.2	1.9	7.2	7

STANUM	STATION	IDORG	DATE	LEG
40012	SOUTHEAST BASIN	1632	06/20/96	45

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Pinnixa sp.	Decapoda	0	1	5	2.0	2.5	0	5	2.6	1.5	6.0	6
Amphideutopus oculatus	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium heteroceratum	Gammaridea	5	3	9	5.7	6.0	3	9	3.1	1.8	6.9	17
Listriella sp.	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia sp.	Isopoda	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Cooperella sp.	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Siliqua sp.	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Philine sp.	Gastropoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta glandaria	Polychaeta	8	2	3	4.3	5.0	2	8	3.2	1.9	7.2	13
Chaetozone corona	Polychaeta	2	1	6	3.0	3.5	1	6	2.6	1.5	6.0	9
Cossura candida	Polychaeta	15	4	6	8.3	9.5	4	15	5.9	3.4	13.2	25
Euchone limnicola	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera capitata	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Monticellina cryptica	Polychaeta	3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Monticellina siblina	Polychaeta	9	8	8	8.3	8.5	8	9	0.6	0.3	1.3	25
Nephtys cornuta	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pholoe glabra	Polychaeta	1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Prionospio steenstrupi	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes duplex	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Tenonia priops	Polychaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amage anops	Polychaete		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
Aphelochaeta monilaris	Polychaete		0	2	5	2.3	2.5	0	5	2.5	1.5	5.7	7
Euclymeninae, unident.	Polychaete		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Harmothoinae, unident.	Polychaete		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Levinsenia gracilis	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Monicellina cryptica	Polychaete		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Paraprionospio pinnata	Polychaete		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Pista alata	Polychaete		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Scoletoma tetraura	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes berkeleyorum	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		55	34	57	48.7	45.5	34	57	12.7	7.4	28.7	146
	TOTAL SPECIES	32	18	17	17	17.3	17.5	17	18	0.6	0.3	1.3	52
	TOTAL CRUST. INDIV.		6	6	15	9.0	10.5	6	15	5.2	3.0	11.7	27
	TOTAL CRUST. SP.	5	2	3	3	2.7	2.5	2	3	0.6	0.3	1.3	8
	GAMMARID INDIV.		6	3	10	6.3	6.5	3	10	3.5	2.0	7.9	19
	GAMMARID SP.	3	2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	OTHER CRUSTACEAN INDIV.		0	3	5	2.7	2.5	0	5	2.5	1.5	5.7	8
	OTHER CRUSTACEAN SP.	2	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
	TOTAL MOLLUSC SP.	4	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
	TOTAL POLYCHAETE INDIV.		47	26	40	37.7	36.5	26	47	10.7	6.2	24.1	113
	TOTAL POLYCHAETE SP.	23	14	12	13	13.0	13.0	12	14	1.0	0.6	2.3	39

STANUM	STATION	IDORG	DATE	LEG
47001	CONSOLIDATED SLIP-198-SURFACE	1647	07/17/96	46

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Pinnixidae	Decapoda	1			1.0	1.0	1	1				1
Listriella sp.	Gammaridea	1			1.0	1.0	1	1				1
Theora fragilis	Bivalvia	2			2.0	2.0	2	2				2
Aphelochaeta monilaris	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta sp(p)	Polychaeta	12			12.0	12.0	12	12				12
Cossura candida	Polychaeta	148			148.0	148.0	148	148				148
Cossura pygodactylata	Polychaeta	54			54.0	54.0	54	54				54
Dorvillea longicornis	Polychaeta	2			2.0	2.0	2	2				2

Euchone limnicola	Polychaeta		22	22.0	22.0	22	22		22
Laonice cirrata	Polychaeta		1	1.0	1.0	1	1		1
Leitoscoloplos pugettensis	Polychaeta		3	3.0	3.0	3	3		3
Mediomastus californiensis	Polychaeta		3	3.0	3.0	3	3		3
Monticellina cryptica	Polychaeta		2	2.0	2.0	2	2		2
Monticellina siblina	Polychaeta		16	16.0	16.0	16	16		16
Nephtys cornuta	Polychaeta		20	20.0	20.0	20	20		20
Scoletoma tetraura	Polychaeta		1	1.0	1.0	1	1		1
Spiophanes berkeleyorum	Polychaeta		2	2.0	2.0	2	2		2
Nemertea	Nemertea		2	2.0	2.0	2	2		2
Oligochaeta	Oligochaeta		1	1.0	1.0	1	1		1
	TOTAL INDIVIDUALS		294	294.0	294.0	294	294		294
	TOTAL SPECIES	19	19	19.0	19.0	19	19		19
	TOTAL CRUST. INDIV.		2	2.0	2.0	2	2		2
	TOTAL CRUST. SP.	2	2	2.0	2.0	2	2		2
	GAMMARID INDIV.		1	1.0	1.0	1	1		1
	GAMMARID SP.	1	1	1.0	1.0	1	1		1
	OTHER CRUSTACEAN INDIV.		1	1.0	1.0	1	1		1
	OTHER CRUSTACEAN SP.	1	1	1.0	1.0	1	1		1
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		2	2.0	2.0	2	2		2
	TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
	TOTAL POLYCHAETE INDIV.		287	287.0	287.0	287.0	287.0		287.0
	TOTAL POLYCHAETE SP.	14	14	14.0	14.0	14	14		14

STANUM	STATION	IDORG	DATE	LEG
47002	CONSOLIDATED SLIP-200-SURFACE	1650	07/17/96	46

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Theora fragilis	Bivalvia	4			4.0	4.0	4	4				4
Amphicteis scaphobranchiata	Polychaeta	2			2.0	2.0	2	2				2
Aphelochaeta monilaris	Polychaeta	1			1.0	1.0	1	1				1
Aphelochaeta sp(p)	Polychaeta	8			8.0	8.0	8	8				8
Cossura candida	Polychaeta	168			168.0	168.0	168	168				168
Cossura pygodactylata	Polychaeta	128			128.0	128.0	128	128				128
Dorvillea longicornis	Polychaeta	1			1.0	1.0	1	1				1
Euchone limnicola	Polychaeta	25			25.0	25.0	25	25				25

Mediomastus californiensis	Polychaeta		6	6.0	6.0	6	6		6
Monticellina cryptica	Polychaeta		2	2.0	2.0	2	2		2
Monticellina siblina	Polychaeta		12	12.0	12.0	12	12		12
Nephtys cornuta	Polychaeta		9	9.0	9.0	9	9		9
Paraprionospio pinnata	Polychaeta		1	1.0	1.0	1	1		1
Spiophanes berkeleyorum	Polychaeta		1	1.0	1.0	1	1		1
Nemertea	Nemertea		2	2.0	2.0	2	2		2
Oligochaeta	Oligochaeta		102	102.0	102.0	102	102		102
	TOTAL INDIVIDUALS		472	472.0	472.0	472	472		472
	TOTAL SPECIES	16	16	16.0	16.0	16	16		16
	TOTAL CRUST. INDIV.		0	0.0	0.0	0	0		0
	TOTAL CRUST. SP.	0	0	0.0	0.0	0	0		0
	GAMMARID INDIV.		0	0.0	0.0	0	0		0
	GAMMARID SP.	0	0	0.0	0.0	0	0		0
	OTHER CRUSTACEAN INDIV.		0	0.0	0.0	0	0		0
	OTHER CRUSTACEAN SP.	0	0	0.0	0.0	0	0		0
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		4	4.0	4.0	4	4		4
	TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
	TOTAL POLYCHAETE INDIV.		364	364.0	364.0	364	364		364
	TOTAL POLYCHAETE SP.	13	13	13.0	13.0	13	13		13

STANUM	STATION	IDORG	DATE	LEG
47003	CONSOLIDATED SLIP-200B-SURFACE	1653	07/17/96	46

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Zeuxo normani	Tanaidacea	1			1.0	1.0	1	1				1
Theora fragilis	Bivalvia	2			2.0	2.0	2	2				2
Aphelochaeta sp(p)	Polychaeta	2			2.0	2.0	2	2				2
Chaetozone corona	Polychaeta	1			1.0	1.0	1	1				1
Cossura candida	Polychaeta	32			32.0	32.0	32	32				32
Cossura pygodactylata	Polychaeta	24			24.0	24.0	24	24				24
Dorvillea longicornis	Polychaeta	5			5.0	5.0	5	5				5
Euchone limnicola	Polychaeta	5			5.0	5.0	5	5				5
Leitoscoloplos pugettensis	Polychaeta	1			1.0	1.0	1	1				1
Malmgreniella macginitiei	Polychaeta	1			1.0	1.0	1	1				1
Mediomastus ambiseta	Polychaeta	1			1.0	1.0	1	1				1

Nephtys cornuta	Polychaeta		6	6.0	6.0	6	6		6
Paraprionospio pinnata	Polychaeta		1	1.0	1.0	1	1		1
Pista alata	Polychaeta		1	1.0	1.0	1	1		1
Polydora cornuta	Polychaeta		1	1.0	1.0	1	1		1
Prionospio heterobranchia	Polychaeta		1	1.0	1.0	1	1		1
Scoletoma zonata	Polychaeta		1	1.0	1.0	1	1		1
Spiophanes duplex	Polychaeta		5	5.0	5.0	5	5		5
Nemertea	Nemertea		3	3.0	3.0	3	3		3
Oligochaeta	Oligochaeta		51	51.0	51.0	51	51		51
Platyhelminthes	Platyhelminthes		2	2.0	2.0	2	2		2
	TOTAL INDIVIDUALS		147	147.0	147.0	147	147		147
	TOTAL SPECIES	21	21	21.0	21.0	21	21		21
	TOTAL CRUST. INDIV.		1	1.0	1.0	1	1		1
	TOTAL CRUST. SP.	1	1	1.0	1.0	1	1		1
	GAMMARID INDIV.		0	0.0	0.0	0	0		0
	GAMMARID SP.	0	0	0.0	0.0	0	0		0
	OTHER CRUSTACEAN INDIV.		1	1.0	1.0	1	1		1
	OTHER CRUSTACEAN SP.	1	1	1.0	1.0	1	1		1
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		2	2.0	2.0	2	2		2
	TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
	TOTAL POLYCHAETE INDIV.		88	88.0	88.0	88	88		88
	TOTAL POLYCHAETE SP.	16	16	16.0	16.0	16	16		16

STANUM	STATION	IDORG	DATE	LEG
47004	CONSOLIDATED SLIP-200E-SURFACE	1656	07/17/96	46

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Grandidierella japonica	Gammaridea	10			10.0	10.0	10	10				10
Zeuxo normani	Tanaidacea	1			1.0	1.0	1	1				1
Armandia brevis	Polychaeta	4			4.0	4.0	4	4				4
Dorvillea longicornis	Polychaeta	33			33.0	33.0	33	33				33
Euchone limnicola	Polychaeta	1			1.0	1.0	1	1				1
Monticellina siblina	Polychaeta	2			2.0	2.0	2	2				2
Neanthes acuminata	Polychaeta	1			1.0	1.0	1	1				1
Nephtys cornuta	Polychaeta	9			9.0	9.0	9	9				9
Nereis procera	Polychaeta	1			1.0	1.0	1	1				1

Prionospio heterobranchia	Polychaeta		1	1.0	1.0	1	1		1
Pseudopolydora paucibranchiata	Polychaeta		2	2.0	2.0	2	2		2
Oligochaeta	Oligochaeta		5	5.0	5.0	5	5		5
	TOTAL INDIVIDUALS		70	70.0	70.0	70	70		70
	TOTAL SPECIES	12	12	12.0	12.0	12	12		12
	TOTAL CRUST. INDIV.		11	11.0	11.0	11	11		11
	TOTAL CRUST. SP.	2	2	2.0	2.0	2	2		2
	GAMMARID INDIV.		10	10.0	10.0	10	10		10
	GAMMARID SP.	1	1	1.0	1.0	1	1		1
	OTHER CRUSTACEAN INDIV.		1	1.0	1.0	1	1		1
	OTHER CRUSTACEAN SP.	1	1	1.0	1.0	1	1		1
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		0	0.0	0.0	0	0		0
	TOTAL MOLLUSC SP.	0	0	0.0	0.0	0	0		0
	TOTAL POLYCHAETE INDIV.		54	54.0	54.0	54	54		54
	TOTAL POLYCHAETE SP.	9	9	9.0	9.0	9	9		9

STANUM	STATION	IDORG	DATE	LEG
47005	CONSOLIDATED SLIP-200T-SURFACE	1659	07/17/96	46

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Corophium sp.	Gammaridea	100			100.0	100.0	100	100				100
Grandidierella japonica	Gammaridea	228			228.0	228.0	228	228				228
Anthuridae	Isopoda	3			3.0	3.0	3	3				3
Zeuxo normani	Tanaidacea	480			480.0	480.0	480	480				480
Macoma sp.	Bivalvia	7			7.0	7.0	7	7				7
Protothaca sp.	Bivalvia	5			5.0	5.0	5	5				5
Olivella pycna	Gastropoda	1			1.0	1.0	1	1				1
Capitella capitata	Polychaeta	203			203.0	203.0	203	203				203
Cirriformia moorei	Polychaeta	10			10.0	10.0	10	10				10
Dorvillea longicornis	Polychaeta	24			24.0	24.0	24	24				24
Eunicidae, unident.	Polychaeta	3			3.0	3.0	3	3				3
Neanthes acuminata	Polychaeta	5			5.0	5.0	5	5				5
Parougia caeca	Polychaeta	2			2.0	2.0	2	2				2
Platynereis bicanaliculata	Polychaeta	1			1.0	1.0	1	1				1
Prionospio heterobranchia	Polychaeta	3			3.0	3.0	3	3				3
Pseudopolydora paucibranchiata	Polychaeta	117			117.0	117.0	117	117				117

Scoletoma zonata	Polychaeta		1	1.0	1.0	1	1		1
Scoletoma zonata	Polychaeta		2	2.0	2.0	2	2		2
Typosyllis pulchra	Polychaeta		1	1.0	1.0	1	1		1
	TOTAL INDIVIDUALS		1196	1196.0	1196.0	1196	1196		1196
	TOTAL SPECIES	19	19	19.0	19.0	19	19		19
	TOTAL CRUST. INDIV.		811	811.0	811.0	811	811		811
	TOTAL CRUST. SP.	4	4	4.0	4.0	4	4		4
	GAMMARID INDIV.		328	328.0	328.0	328	328		328
	GAMMARID SP.	2	2	2.0	2.0	2	2		2
	OTHER CRUSTACEAN INDIV.		483	483.0	483.0	483	483		483
	OTHER CRUSTACEAN SP.	2	2	2.0	2.0	2	2		2
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		13	13.0	13.0	13	13		13
	TOTAL MOLLUSC SP.	3	3	3.0	3.0	3	3		3
	TOTAL POLYCHAETE INDIV.		372	372.0	372.0	372	372		372
	TOTAL POLYCHAETE SP.	12	12	12.0	12.0	12	12		12

STANUM	STATION	IDORG	DATE	LEG
47007	CONSOLIDATED SLIP-END-SURFACE	1662	07/18/96	46

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Corophium sp.	Gammaridea	199			199.0	199.0	199	199				199
Grandidierella japonica	Gammaridea	268			268.0	268.0	268	268				268
Melphisana bola	Gammaridea	4			4.0	4.0	4	4				4
Gnorimosphaeroma sp.	Isopoda	1			1.0	1.0	1	1				1
Zeuxo normani	Tanaidacea	55			55.0	55.0	55	55				55
Theora fragilis	Bivalvia	4			4.0	4.0	4	4				4
Armandia brevis	Polychaeta	1			1.0	1.0	1	1				1
Capitella capitata	Polychaeta	69			69.0	69.0	69	69				69
Dorvillea longicornis	Polychaeta	34			34.0	34.0	34	34				34
Euchone limnicola	Polychaeta	9			9.0	9.0	9	9				9
Eumida longicornata	Polychaeta	1			1.0	1.0	1	1				1
Mediomastus californiensis	Polychaeta	1			1.0	1.0	1	1				1
Monticellina siblina	Polychaeta	1			1.0	1.0	1	1				1
Neanthes acuminata	Polychaeta	5			5.0	5.0	5	5				5
Polydora cornuta	Polychaeta	11			11.0	11.0	11	11				11
Prionospio heterobranchia	Polychaeta	2			2.0	2.0	2	2				2

Pseudopolydora paucibranchiata	Polychaeta		206	206.0	206.0	206	206		206
Scoletoma zonata	Polychaeta		1	1.0	1.0	1	1		1
Sphaerosyllis ranunculus	Polychaeta		1	1.0	1.0	1	1		1
Nemertea	Nemertea		1	1.0	1.0	1	1		1
Oligochaeta	Oligochaeta		23	23.0	23.0	23	23		23
	TOTAL INDIVIDUALS		897	897.0	897.0	897	897		897
	TOTAL SPECIES	21	21	21.0	21.0	21	21		21
	TOTAL CRUST. INDIV.		527	527.0	527.0	527	527		527
	TOTAL CRUST. SP.	5	5	5.0	5.0	5	5		5
	GAMMARID INDIV.		471	471.0	471.0	471	471		471
	GAMMARID SP.	3	3	3.0	3.0	3	3		3
	OTHER CRUSTACEAN INDIV.		56	56.0	56.0	56	56		56
	OTHER CRUSTACEAN SP.	2	2	2.0	2.0	2	2		2
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		4	4.0	4.0	4	4		4
	TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
	TOTAL POLYCHAETE INDIV.		342	342.0	342.0	342	342		342
	TOTAL POLYCHAETE SP.	13	13	13.0	13.0	13	13		13

STANUM	STATION	IDORG	DATE	LEG
47008	CONSOLIDATED SLIP-STORM DRAIN	1663	07/18/96	46

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Grandidierella japonica	Gammaridea	10			10.0	10.0	10	10				10
Melphisana bola	Gammaridea	1			1.0	1.0	1	1				1
Theora fragilis	Bivalvia	2			2.0	2.0	2	2				2
Aphelochaeta sp(p)	Polychaeta	2			2.0	2.0	2	2				2
Armandia brevis	Polychaeta	1			1.0	1.0	1	1				1
Cossura candida	Polychaeta	3			3.0	3.0	3	3				3
Cossura pygodactylata	Polychaeta	52			52.0	52.0	52	52				52
Dorvillea longicornis	Polychaeta	49			49.0	49.0	49	49				49
Euchone limnicola	Polychaeta	17			17.0	17.0	17	17				17
Mediomastus ambiseta	Polychaeta	1			1.0	1.0	1	1				1
Mediomastus sp(p)	Polychaeta	1			1.0	1.0	1	1				1
Monticellina siblina	Polychaeta	5			5.0	5.0	5	5				5
Nephtys cornuta	Polychaeta	12			12.0	12.0	12	12				12
Paraprionospio pinnata	Polychaeta	2			2.0	2.0	2	2				2

Prionospio heterobranchia	Polychaeta		4	4.0	4.0	4	4		4
Pseudopolydora paucibranchiata	Polychaeta		1	1.0	1.0	1	1		1
Scoletoma tetraura	Polychaeta		1	1.0	1.0	1	1		1
Nemertea	Nemertea		1	1.0	1.0	1	1		1
Oligochaeta	Oligochaeta		1	1.0	1.0	1	1		1
	TOTAL INDIVIDUALS		166	166.0	166.0	166	166		166
	TOTAL SPECIES	19	19	19.0	19.0	19	19		19
	TOTAL CRUST. INDIV.		11	11.0	11.0	11	11		11
	TOTAL CRUST. SP.	2	2	2.0	2.0	2	2		2
	GAMMARID INDIV.		11	11.0	11.0	11	11		11
	GAMMARID SP.	2	2	2.0	2.0	2	2		2
	OTHER CRUSTACEAN INDIV.		0	0.0	0.0	0	0		0
	OTHER CRUSTACEAN SP.	0	0	0.0	0.0	0	0		0
	TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
	TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
	TOTAL MOLLUSC INDIV.		2	2.0	2.0	2	2		2
	TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
	TOTAL POLYCHAETE INDIV.		151	151.0	151.0	151	151		151
	TOTAL POLYCHAETE SP.	14	14	14.0	14.0	14	14		14

STANUM	STATION	IDORG	DATE	LEG
47009	CONSOLIDATED SLIP-200G-SURFACE	1664	07/18/96	46

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Grandidierella japonica	Gammaridea		19			19.0	19.0	19	19				19
Capitella capitata	Polychaeta		96			96.0	96.0	96	96				96
Chone spp. juv.	Polychaeta		1			1.0	1.0	1	1				1
Cossura candida	Polychaeta		1			1.0	1.0	1	1				1
Dorvillea longicornis	Polychaeta		12			12.0	12.0	12	12				12
Euchone limnicola	Polychaeta		7			7.0	7.0	7	7				7
Neanthes acuminata	Polychaeta		1			1.0	1.0	1	1				1
Pectinaria californiensis	Polychaeta		1			1.0	1.0	1	1				1
Phyllodoce longipes	Polychaeta		1			1.0	1.0	1	1				1
Polydora cornuta	Polychaeta		5			5.0	5.0	5	5				5
Pseudopolydora paucibranchiata	Polychaeta		6			6.0	6.0	6	6				6
Nemertea	Nemertea		1			1.0	1.0	1	1				1
	TOTAL INDIVIDUALS		151			151.0	151.0	151	151				151
	TOTAL SPECIES	12	12			12.0	12.0	12	12				12

TOTAL CRUST. INDIV.		19	19.0	19.0	19	19	19
TOTAL CRUST. SP.	1	1	1.0	1.0	1	1	1
GAMMARID INDIV.		19	19.0	19.0	19	19	19
GAMMARID SP.	1	1	1.0	1.0	1	1	1
OTHER CRUSTACEAN INDIV.		0	0.0	0.0	0	0	0
OTHER CRUSTACEAN SP.	0	0	0.0	0.0	0	0	0
TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0	0
TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0	0
TOTAL MOLLUSC INDIV.		0	0.0	0.0	0	0	0
TOTAL MOLLUSC SP.	0	0	0.0	0.0	0	0	0
TOTAL POLYCHAETE INDIV.		131	131.0	131.0	131	131	131
TOTAL POLYCHAETE SP.	10	10	10.0	10.0	10	10	10

STANUM	STATION	IDORG	DATE	LEG
47010	DOMINGUEZ-H. FORD BRIDGE-SURFC	1665	07/18/96	46

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Corophium sp.	Gammaridea	38			38.0	38.0	38	38				38
Grandidierella japonica	Gammaridea	51			51.0	51.0	51	51				51
Protothaca sp.	Bivalvia	1			1.0	1.0	1	1				1
Armandia brevis	Polychaeta	1			1.0	1.0	1	1				1
Capitella capitata	Polychaeta	28			28.0	28.0	28	28				28
Cirratulus spp. juv.	Polychaeta	4			4.0	4.0	4	4				4
Cirriformia moorei	Polychaeta	5			5.0	5.0	5	5				5
Dorvillea longicornis	Polychaeta	12			12.0	12.0	12	12				12
Euchone limnicola	Polychaeta	3			3.0	3.0	3	3				3
Eunicidae, unident.	Polychaeta	3			3.0	3.0	3	3				3
Monticellina siblina	Polychaeta	1			1.0	1.0	1	1				1
Naineris dendritica	Polychaeta	1			1.0	1.0	1	1				1
Nereis sp.	Polychaeta	1			1.0	1.0	1	1				1
Polydora cornuta	Polychaeta	5			5.0	5.0	5	5				5
Prionospio heterobranchia	Polychaeta	2			2.0	2.0	2	2				2
Pseudopolydora paucibranchiata	Polychaeta	136			136.0	136.0	136	136				136
Timarete luxuriosa	Polychaeta	1			1.0	1.0	1	1				1
Oligochaeta	Oligochaeta	104			104.0	104.0	104	104				104
	TOTAL INDIVIDUALS	397			397.0	397.0	397	397				397
	TOTAL SPECIES	18	18		18.0	18.0	18	18				18
	TOTAL CRUST. INDIV.	89			89.0	89.0	89	89				89

TOTAL CRUST. SP.	2	2	2.0	2.0	2	2		2
GAMMARID INDIV.		89	89.0	89.0	89	89		89
GAMMARID SP.	2	2	2.0	2.0	2	2		2
OTHER CRUSTACEAN INDIV.		0	0.0	0.0	0	0		0
OTHER CRUSTACEAN SP.	0	0	0.0	0.0	0	0		0
TOTAL ECHINODERM INDIV.		0	0.0	0.0	0	0		0
TOTAL ECHINODERM SP.	0	0	0.0	0.0	0	0		0
TOTAL MOLLUSC INDIV.		1	1.0	1.0	1	1		1
TOTAL MOLLUSC SP.	1	1	1.0	1.0	1	1		1
TOTAL POLYCHAETE INDIV.		203	203.0	203.0	203	203		203
TOTAL POLYCHAETE SP.	14	14	14.0	14.0	14	14		14

STANUM	STATION	IDORG	DATE	LEG
48001	MARINA DEL REY- A1 (X1)	1686	02/05/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Caprella sp.	Caprellida	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Bemlos concavus	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Anthuridae	Isopoda	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Transennella tantilla	Bivalvia	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Acteocina sp.	Gastropoda	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Dorvillea longicornis	Polychaete	0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Euchone limnicola	Polychaete	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Exogone lourei	Polychaete	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Leitoscoloplos pugettensis	Polychaete	4	7	3	4.7	5.0	3	7	2.1	1.2	4.7	14
Lumbrineridae spp. juv.	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus ambiseta	Polychaete	3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Mediomastus sp(p)	Polychaete	1	10	0	3.7	5.0	0	10	5.5	3.2	12.4	11
Neanthes acuminata	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaete	0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Prionospio heterobranchia	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pseudopolydora paucibranchiata	Polychaete	14	13	11	12.7	12.5	11	14	1.5	0.9	3.4	38
Scolelepis spp. indet.	Polychaete	5	3	0	2.7	2.5	0	5	2.5	1.5	5.7	8
Scoletoma zonata	Polychaete	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Streblospio benedicti	Polychaete	1	1	4	2.0	2.5	1	4	1.7	1.0	3.9	6
Oligochaeta	Oligochaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2

TOTAL INDIVIDUALS		38	47	29	38.0	38.0	29	47	9.0	5.2	20.3	114
TOTAL SPECIES	22	14	12	12	12.7	13.0	12	14	1.2	0.7	2.6	38
TOTAL CRUST. INDIV.		5	2	1	2.7	3.0	1	5	2.1	1.2	4.7	8
TOTAL CRUST. SP.	4	4	1	1	2.0	2.5	1	4	1.7	1.0	3.9	6
GAMMARID INDIV.		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
GAMMARID SP.	2	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
OTHER CRUSTACEAN INDIV.		3	2	1	2.0	2.0	1	3	1.0	0.6	2.3	6
OTHER CRUSTACEAN SP.	2	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		3	0	1	1.3	1.5	0	3	1.5	0.9	3.4	4
TOTAL MOLLUSC SP.	2	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
TOTAL POLYCHAETE INDIV.		29	45	26	33.3	35.5	26	45	10.2	5.9	23.0	100
TOTAL POLYCHAETE SP.	15	7	11	9	9.0	9.0	7	11	2.0	1.2	4.5	27

STANUM	STATION	IDORG	DATE	LEG
48002	MARINA DEL REY- A2 (X2)	1687	02/05/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Grandidierella japonica	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Melphisana bola	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Colanthura squamosissima	Isopoda	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Zeuxo normani	Tanaidacea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Acteocina sp.	Gastropoda	4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10
Aphelochaeta sp(p)	Polychaete	6	5	1	4.0	3.5	1	6	2.6	1.5	6.0	12
Cirratulus spectabilis	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirriformia moorei	Polychaete	7	18	12	12.3	12.5	7	18	5.5	3.2	12.4	37
Dorvillea longicornis	Polychaete	1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Euchone limnicola	Polychaete	2	1	8	3.7	4.5	1	8	3.8	2.2	8.5	11
Exogone uniformis	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaete	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Mediomastus ambiseta	Polychaete	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Mediomastus californiensis	Polychaete	4	0	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Mediomastus sp(p)	Polychaete	9	4	6	6.3	6.5	4	9	2.5	1.5	5.7	19
Monticellina nr. serratiseta	Polychaete	15	6	8	9.7	10.5	6	15	4.7	2.7	10.6	29
Nephtys cornuta	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pseudopolydora paucibranchiata	Polychaete	4	12	13	9.7	8.5	4	13	4.9	2.8	11.1	29

Scoletoma zonata	Polychaete		0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
Scoloplos sp.	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Anthozoa	Anthozoa		5	2	0	2.3	2.5	0	5	2.5	1.5	5.7	7
Nemertea	Nemertea		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Phoronida	Phoronida		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL INDIVIDUALS		68	64	58	63.3	63.0	58	68	5.0	2.9	11.3	190
	TOTAL SPECIES	24	18	16	13	15.7	15.5	13	18	2.5	1.5	5.7	47
	TOTAL CRUST. INDIV.		4	2	0	2.0	2.0	0	4	2.0	1.2	4.5	6
	TOTAL CRUST. SP.	5	4	2	0	2.0	2.0	0	4	2.0	1.2	4.5	6
	GAMMARID INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
	OTHER CRUSTACEAN SP.	3	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10
	TOTAL MOLLUSC SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	TOTAL POLYCHAETE INDIV.		52	55	55	54.0	53.5	52	55	1.7	1.0	3.9	162
	TOTAL POLYCHAETE SP.	15	10	11	12	11.0	11.0	10	12	1.0	0.6	2.3	33

STANUM	STATION	IDORG	DATE	LEG
48003	MARINA DEL REY- B1 (X1)	1688	02/05/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	11	1	6	6.0	6.0	1	11	5.0	2.9	11.3	18
Grandidierella japonica	Gammaridea	2	0	4	2.0	2.0	0	4	2.0	1.2	4.5	6
Zeuxo normani	Tanaidacea	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Acteocina sp.	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirriformia moorei	Polychaete	2	0	3	1.7	1.5	0	3	1.5	0.9	3.4	5
Dorvillea longicornis	Polychaete	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Euchone limnicola	Polychaete	3	5	4	4.0	4.0	3	5	1.0	0.6	2.3	12
Exogone uniformis	Polychaete	2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Leitoscoloplos pugettensis	Polychaete	15	15	6	12.0	10.5	6	15	5.2	3.0	11.7	36
Mediomastus ambiseta	Polychaete	6	3	6	5.0	4.5	3	6	1.7	1.0	3.9	15
Mediomastus californiensis	Polychaete	0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Mediomastus sp(p)	Polychaete	2	1	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Monticellina nr. serratiseta	Polychaete	6	6	3	5.0	4.5	3	6	1.7	1.0	3.9	15

Polydora cornuta	Polychaete		5	0	0	1.7	2.5	0	5	2.9	1.7	6.5	5
Pseudopolydora paucibranchiata	Polychaete		17	13	28	19.3	20.5	13	28	7.8	4.5	17.5	58
Scoletoma zonata	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoloplos sp.	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblospio benedicti	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Anthozoa	Anthozoa		10	2	0	4.0	5.0	0	10	5.3	3.1	11.9	12
Nemertea	Nemertea		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Oligochaeta	Oligochaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sipuncula	Sipunculida		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		88	49	74	70.3	68.5	49	88	19.8	11.4	44.5	211
	TOTAL SPECIES	23	18	11	16	15.0	14.5	11	18	3.6	2.1	8.1	45
	TOTAL CRUST. INDIV.		15	2	10	9.0	8.5	2	15	6.6	3.8	14.8	27
	TOTAL CRUST. SP.	3	3	2	2	2.3	2.5	2	3	0.6	0.3	1.3	7
	GAMMARID INDIV.		2	0	4	2.0	2.0	0	4	2.0	1.2	4.5	6
	GAMMARID SP.	1	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN INDIV.		13	2	6	7.0	7.5	2	13	5.6	3.2	12.5	21
	OTHER CRUSTACEAN SP.	2	2	2	1	1.7	1.5	1	2	0.6	0.3	1.3	5
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL POLYCHAETE INDIV.		60	45	63	56.0	54.0	45	63	9.6	5.6	21.7	168
	TOTAL POLYCHAETE SP.	15	11	8	13	10.7	10.5	8	13	2.5	1.5	5.7	32

STANUM	STATION	IDORG	DATE	LEG
48004	MARINA DEL REY- B2 (X2)	1689	02/05/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Amphideutopus oculatus	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Gammaridea	0	1	5	2.0	2.5	0	5	2.6	1.5	6.0	6
Colanthura squamosissima	Isopoda	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Leptognathia sp.	Tanaidacea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pseudotanais macrothrix	Tanaidacea	19	28	2	16.3	15.0	2	28	13.2	7.6	29.7	49
Zeuxo normani	Tanaidacea	6	3	1	3.3	3.5	1	6	2.5	1.5	5.7	10
Ophiuroidea	Ophiuroidea	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Lyonsia californica	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3

Tagelus subteres	Bivalvia		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Bulla gouldiana	Gastropoda		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Apoprionospio pygmaea	Polychaete		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Armandia brevis	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Brania brevipharyngea	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Cirriformia moorei	Polychaete		3	1	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Cossura pygodactylata	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Dorvillea longicornis	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone limnicola	Polychaete		63	54	74	63.7	64.0	54	74	10.0	5.8	22.5	191
Euclymeninae sp. A	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Exogone uniformis	Polychaete		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Leitoscoloplos pugettensis	Polychaete		10	11	4	8.3	7.5	4	11	3.8	2.2	8.5	25
Mediomastus ambiseta	Polychaete		6	17	4	9.0	10.5	4	17	7.0	4.0	15.8	27
Mediomastus californiensis	Polychaete		8	4	2	4.7	5.0	2	8	3.1	1.8	6.9	14
Mediomastus sp(p)	Polychaete		16	21	10	15.7	15.5	10	21	5.5	3.2	12.4	47
Monticellina nr. serratiseta	Polychaete		7	2	3	4.0	4.5	2	7	2.6	1.5	6.0	12
Nereis procera	Polychaete		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Pista disjuncta	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polyophthalmus pictus	Polychaete		3	2	2	2.3	2.5	2	3	0.6	0.3	1.3	7
Prionospio heterobranchia	Polychaete		5	5	8	6.0	6.5	5	8	1.7	1.0	3.9	18
Pseudopolydora paucibranchiata	Polychaete		124	85	48	85.7	86.0	48	124	38.0	21.9	85.5	257
Scolelepis spp. indet.	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Scoletoma tetraura	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Scoletoma zonata	Polychaete		9	13	8	10.0	10.5	8	13	2.6	1.5	6.0	30
Anthozoa	Anthozoa		4	2	0	2.0	2.0	0	4	2.0	1.2	4.5	6
Nemertea	Nemertea		1	2	4	2.3	2.5	1	4	1.5	0.9	3.4	7
	TOTAL INDIVIDUALS		299	260	191	250.0	245.0	191	299	54.7	31.6	123.1	750
	TOTAL SPECIES	36	28	24	26	26.0	26.0	24	28	2.0	1.2	4.5	78
	TOTAL CRUST. INDIV.		26	34	12	24.0	23.0	12	34	11.1	6.4	25.1	72
	TOTAL CRUST. SP.	7	3	5	6	4.7	4.5	3	6	1.5	0.9	3.4	14
	GAMMARID INDIV.		0	1	6	2.3	3.0	0	6	3.2	1.9	7.2	7
	GAMMARID SP.	2	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	OTHER CRUSTACEAN INDIV.		26	33	6	21.7	19.5	6	33	14.0	8.1	31.5	65
	OTHER CRUSTACEAN SP.	5	3	4	4	3.7	3.5	3	4	0.6	0.3	1.3	11
	TOTAL ECHINODERM INDIV.		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL ECHINODERM SP.	1	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC INDIV.		4	4	1	3.0	2.5	1	4	1.7	1.0	3.9	9
	TOTAL MOLLUSC SP.	4	4	3	1	2.7	2.5	1	4	1.5	0.9	3.4	8
	TOTAL POLYCHAETE INDIV.		263	218	172	217.7	217.5	172	263	45.5	26.3	102.4	653

TOTAL POLYCHAETE SP.	22	18	14	17	16.3	16.0	14	18	2.1	1.2	4.7	49

STANUM	STATION	IDORG	DATE	LEG
48005	MARINA DEL REY- C1 (X1)	1690	02/05/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	9	0	0	3.0	4.5	0	9	5.2	3.0	11.7	9
Amphideutopus oculatus	Gammaridea	0	4	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Mysella sp.	Bivalvia	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Protothaca staminea	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tagelus subteres	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia	4	1	0	1.7	2.0	0	4	2.1	1.2	4.7	5
Theora fragilis	Bivalvia	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Acteocina sp.	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampharetidae spp. juv.	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphicteis scaphobranchiata	Polychaete	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Anotomastus gordiodes	Polychaete	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Apoprionospio pygmaea	Polychaete	6	1	1	2.7	3.5	1	6	2.9	1.7	6.5	8
Armandia brevis	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaete	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Cossura pygodactylata	Polychaete	9	12	1	7.3	6.5	1	12	5.7	3.3	12.8	22
Euchone limnicola	Polychaete	93	65	76	78.0	79.0	65	93	14.1	8.1	31.7	234
Euclymeninae sp. A	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Exogone uniformis	Polychaete	2	5	2	3.0	3.5	2	5	1.7	1.0	3.9	9
Goniada littorea	Polychaete	5	5	3	4.3	4.0	3	5	1.2	0.7	2.6	13
Leitoscoloplos pugettensis	Polychaete	9	5	12	8.7	8.5	5	12	3.5	2.0	7.9	26
Mediomastus ambiseta	Polychaete	77	40	65	60.7	58.5	40	77	18.9	10.9	42.5	182
Mediomastus californiensis	Polychaete	11	4	9	8.0	7.5	4	11	3.6	2.1	8.1	24
Mediomastus sp(p)	Polychaete	39	35	45	39.7	40.0	35	45	5.0	2.9	11.3	119
Monticellina nr. serratiseta	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys caecoides	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaete	0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Onuphidae spp. juv.	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Phyllodoce longipes	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pista spp. juv.	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaete	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3

Prionospio lighti	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pseudopolydora paucibranchiata	Polychaete		7	0	3	3.3	3.5	0	7	3.5	2.0	7.9	10
Scolelepis spp. indet.	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Scoletoma tetraura	Polychaete		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Spionidae spp. indet.	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nemertea	Nemertea		2	0	3	1.7	1.5	0	3	1.5	0.9	3.4	5
Oligochaeta	Oligochaeta		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
	TOTAL INDIVIDUALS		290	191	230	237.0	240.5	191	290	49.9	28.8	112.2	711
	TOTAL SPECIES	39	27	22	21	23.3	24.0	21	27	3.2	1.9	7.2	70
	TOTAL CRUST. INDIV.		9	4	0	4.3	4.5	0	9	4.5	2.6	10.1	13
	TOTAL CRUST. SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	GAMMARID INDIV.		0	4	0	1.3	2.0	0	4	2.3	1.3	5.2	4
	GAMMARID SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN INDIV.		9	0	0	3.0	4.5	0	9	5.2	3.0	11.7	9
	OTHER CRUSTACEAN SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		7	5	2	4.7	4.5	2	7	2.5	1.5	5.7	14
	TOTAL MOLLUSC SP.	7	4	4	2	3.3	3.0	2	4	1.2	0.7	2.6	10
	TOTAL POLYCHAETE INDIV.		270	181	225	225.3	225.5	181	270	44.5	25.7	100.1	676
	TOTAL POLYCHAETE SP.	28	20	16	18	18.0	18.0	16	20	2.0	1.2	4.5	54

STANUM	STATION	IDORG	DATE	LEG
48006	SHORELINE MARINA- A1 (X1)	1691	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Diastylis sp.	Cumacea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium insidiosum	Gammaridea	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Grandidierella japonica	Gammaridea	10	0	0	3.3	5.0	0	10	5.8	3.3	13.0	10
Theora fragilis	Bivalvia	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Capitella capitata	Polychaete	3	0	3	2.0	1.5	0	3	1.7	1.0	3.9	6
Cossura candida	Polychaete	1	4	1	2.0	2.5	1	4	1.7	1.0	3.9	6
Cossura pygodactylata	Polychaete	5	6	0	3.7	3.0	0	6	3.2	1.9	7.2	11
Dorvillea longicornis	Polychaete	0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Mediomastus ambiseta	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina cryptica	Polychaete	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Nephtys cornuta	Polychaete	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2

Onuphidae spp. juv.	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarke pugettensis	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaete		8	1	5	4.7	4.5	1	8	3.5	2.0	7.9	14
Prionospio heterobranchia	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Pseudopolydora paucibranchiata	Polychaete		2	1	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Spiophanes duplex	Polychaete		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Tenonia priops	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nemertea	Nemertea		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
Oligochaeta	Oligochaeta		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Phoronida	Phoronida		1	4	9	4.7	5.0	1	9	4.0	2.3	9.1	14
	TOTAL INDIVIDUALS		40	22	31	31.0	31.0	22	40	9.0	5.2	20.3	93
	TOTAL SPECIES	23	15	11	12	12.7	13.0	11	15	2.1	1.2	4.7	38
	TOTAL CRUST. INDIV.		13	1	0	4.7	6.5	0	13	7.2	4.2	16.3	14
	TOTAL CRUST. SP.	4	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
	GAMMARID INDIV.		12	0	0	4.0	6.0	0	12	6.9	4.0	15.6	12
	GAMMARID SP.	2	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	OTHER CRUSTACEAN INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	OTHER CRUSTACEAN SP.	2	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC SP.	1	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL POLYCHAETE INDIV.		23	16	21	20.0	19.5	16	23	3.6	2.1	8.1	60
	TOTAL POLYCHAETE SP.	15	9	8	10	9.0	9.0	8	10	1.0	0.6	2.3	27

STANUM	STATION	IDORG	DATE	LEG
48007	SHORELINE MARINA- B1 (X1)	1692	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Grandidierella japonica	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Capitella capitata	Polychaete	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Cossura candida	Polychaete	2	2	3	2.3	2.5	2	3	0.6	0.3	1.3	7
Cossura pygodactylata	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Dorvillea longicornis	Polychaete	24	6	5	11.7	14.5	5	24	10.7	6.2	24.1	35
Euchone limnicola	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaete	7	2	1	3.3	4.0	1	7	3.2	1.9	7.2	10

Lumbrineridae spp. juv.	Polychaete		0	3	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Mediomastus ambiseta	Polychaete		38	13	19	23.3	25.5	13	38	13.1	7.5	29.4	70
Mediomastus californiensis	Polychaete		5	0	2	2.3	2.5	0	5	2.5	1.5	5.7	7
Mediomastus sp(p)	Polychaete		24	3	2	9.7	13.0	2	24	12.4	7.2	28.0	29
Monticellina cryptica	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys cornuta	Polychaete		2	1	4	2.3	2.5	1	4	1.5	0.9	3.4	7
Paraprionospio pinnata	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Polydora cornuta	Polychaete		6	1	3	3.3	3.5	1	6	2.5	1.5	5.7	10
Prionospio heterobranchia	Polychaete		5	0	2	2.3	2.5	0	5	2.5	1.5	5.7	7
Pseudopolydora paucibranchiata	Polychaete		2	0	3	1.7	1.5	0	3	1.5	0.9	3.4	5
Sigambra tentaculata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nematoda	Nematoda		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Nemertea	Nemertea		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Oligochaeta	Oligochaeta		20	0	5	8.3	10.0	0	20	10.4	6.0	23.4	25
	TOTAL INDIVIDUALS		140	37	54	77.0	88.5	37	140	55.2	31.9	124.2	231
	TOTAL SPECIES	22	15	13	16	14.7	14.5	13	16	1.5	0.9	3.4	44
	TOTAL CRUST. INDIV.		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	TOTAL CRUST. SP.	2	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	GAMMARID INDIV.		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	GAMMARID SP.	2	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		117	34	48	66.3	75.5	34	117	44.4	25.7	100.0	199
	TOTAL POLYCHAETE SP.	17	12	10	14	12.0	12.0	10	14	2.0	1.2	4.5	36

STANUM	STATION	IDORG	DATE	LEG
48008	SHORELINE MARINA- C1 (X1)	1693	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	1	7	0	2.7	3.5	0	7	3.8	2.2	8.5	8
Diastylis sp.	Cumacea	2	7	6	5.0	4.5	2	7	2.6	1.5	6.0	15
Neotrypaea californiensis	Decapoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Gammaridea	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Grandidierella japonica	Gammaridea	0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4

Rudilemboides stenopropodus	Gammaridea		0	6	0	2.0	3.0	0	6	3.5	2.0	7.8	6
Euphilomedes carcharodonta	Ostracoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Protothaca staminea	Bivalvia		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Theora fragilis	Bivalvia		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Armandia brevis	Polychaete		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Chaetozone corona	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone lunula	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaete		3	3	1	2.3	2.0	1	3	1.2	0.7	2.6	7
Dorvillea longicornis	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Euchone limnicola	Polychaete		5	1	5	3.7	3.0	1	5	2.3	1.3	5.2	11
Eumida spp. juv.	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera spp. juv.	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycinde armigera	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaete		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Mediomastus ambiseta	Polychaete		58	65	70	64.3	64.0	58	70	6.0	3.5	13.6	193
Mediomastus californiensis	Polychaete		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Mediomastus sp(p)	Polychaete		59	35	33	42.3	46.0	33	59	14.5	8.4	32.6	127
Monticellina cryptica	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys caecoides	Polychaete		0	1	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Nephtys cornuta	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Polydora cornuta	Polychaete		5	6	1	4.0	3.5	1	6	2.6	1.5	6.0	12
Prionospio heterobranchia	Polychaete		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Prionospio lighti	Polychaete		49	3	13	21.7	26.0	3	49	24.2	14.0	54.4	65
Pseudopolydora paucibranchiata	Polychaete		13	5	6	8.0	9.0	5	13	4.4	2.5	9.8	24
Scolelepis spp. indet.	Polychaete		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Scoletoma tetraura	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes duplex	Polychaete		1	7	3	3.7	4.0	1	7	3.1	1.8	6.9	11
Tenonia priops	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nemertea	Nemertea		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Oligochaeta	Oligochaeta		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Phoronida	Phoronida		3	1	4	2.7	2.5	1	4	1.5	0.9	3.4	8
	TOTAL INDIVIDUALS		211	164	162	179.0	186.5	162	211	27.7	16.0	62.4	537
	TOTAL SPECIES	36	21	24	24	23.0	22.5	21	24	1.7	1.0	3.9	69
	TOTAL CRUST. INDIV.		4	25	8	12.3	14.5	4	25	11.2	6.4	25.1	37
	TOTAL CRUST. SP.	7	3	5	3	3.7	4.0	3	5	1.2	0.7	2.6	11
	GAMMARID INDIV.		0	11	1	4.0	5.5	0	11	6.1	3.5	13.7	12
	GAMMARID SP.	3	0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4
	OTHER CRUSTACEAN INDIV.		4	14	7	8.3	9.0	4	14	5.1	3.0	11.5	25
	OTHER CRUSTACEAN SP.	4	3	2	2	2.3	2.5	2	3	0.6	0.3	1.3	7

TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
TOTAL MOLLUSC SP.	2	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
TOTAL POLYCHAETE INDIV.		202	133	148	161.0	167.5	133	202	36.3	21.0	81.7	483
TOTAL POLYCHAETE SP.	24	15	15	18	16.0	16.5	15	18	1.7	1.0	3.9	48

STANUM	STATION	IDORG	DATE	LEG
48009	SAN PEDRO BAY OUTER HARBOR	1694	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Ampelisca cristata	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Gammaridea	10	11	9	10.0	10.0	9	11	1.0	0.6	2.3	30
Euphilomedes carcharodonta	Ostracoda	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Ophiuroidea	Ophiuroidea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella sp.	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Acteocina sp.	Gastropoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Odostomia sp.	Gastropoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Olivella baetica	Gastropoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Volvulella cylindrica	Gastropoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys sp	Polychaeta	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amaeana occidentalis	Polychaete	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Amphicteis scaphobranchiata	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaete	4	3	1	2.7	2.5	1	4	1.5	0.9	3.4	8
Aricidea catherinae	Polychaete	3	0	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Aricidea horikoshii	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chone albocincta	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Chone veleronis	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirratulidae spp. indet.	Polychaete	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Cossura candida	Polychaete	13	18	12	14.3	15.0	12	18	3.2	1.9	7.2	43
Euchone limnicola	Polychaete	1	3	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Euchone sp. A	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euclymeninae sp. A	Polychaete	3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Glycinde armigera	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus ambiseta	Polychaete	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2

Mediomastus sp(p)	Polychaete		6	8	5	6.3	6.5	5	8	1.5	0.9	3.4	19
Monticellina cryptica	Polychaete		2	3	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Monticellina siblina	Polychaete		2	6	3	3.7	4.0	2	6	2.1	1.2	4.7	11
Nephtys cornuta	Polychaete		3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Nereis procera	Polychaete		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Onuphidae spp. juv.	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabrus	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio jubata	Polychaete		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Prionospio lighti	Polychaete		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Scoletoma tetraura	Polychaete		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Spiophanes duplex	Polychaete		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Streblosoma sp. B	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Nemertea	Nemertea		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
	TOTAL INDIVIDUALS		66	71	42	59.7	56.5	42	71	15.5	9.0	34.9	179
	TOTAL SPECIES	40	24	23	15	20.7	19.5	15	24	4.9	2.8	11.1	62
	TOTAL CRUST. INDIV.		10	11	12	11.0	11.0	10	12	1.0	0.6	2.3	33
	TOTAL CRUST. SP.	3	1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
	GAMMARID INDIV.		10	11	10	10.3	10.5	10	11	0.6	0.3	1.3	31
	GAMMARID SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	OTHER CRUSTACEAN INDIV.		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
	OTHER CRUSTACEAN SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		3	3	1	2.3	2.0	1	3	1.2	0.7	2.6	7
	TOTAL MOLLUSC SP.	7	3	3	1	2.3	2.0	1	3	1.2	0.7	2.6	7
	TOTAL POLYCHAETE INDIV.		50	55	29	44.7	42.0	29	55	13.8	8.0	31.0	134
	TOTAL POLYCHAETE SP.	28	18	18	11	15.7	14.5	11	18	4.0	2.3	9.1	47

STANUM	STATION	IDORG	DATE	LEG
40018.3	LONG BEACH OUTER HARBOR- 18	1695	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Ampelisca agassizi	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Gammaridea	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Photis sp.	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4

Parasterope sp	Ostracoda		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Ophiuroidea	Ophiuroidea		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Theora fragilis	Bivalvia		3	6	0	3.0	3.0	0	6	3.0	1.7	6.8	9
Ampharetidae spp. juv.	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphicteis scaphobranchiata	Polychaete		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Aphelochaeta monilaris	Polychaete		2	5	8	5.0	5.0	2	8	3.0	1.7	6.8	15
Aphelochaeta sp(p)	Polychaete		1	5	6	4.0	3.5	1	6	2.6	1.5	6.0	12
Aricidea catherinae	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaete		4	2	1	2.3	2.5	1	4	1.5	0.9	3.4	7
Cossura candida	Polychaete		23	19	36	26.0	27.5	19	36	8.9	5.1	20.0	78
Euchone limnicola	Polychaete		0	4	1	1.7	2.0	0	4	2.1	1.2	4.7	5
Euclymeninae sp. A	Polychaete		1	4	2	2.3	2.5	1	4	1.5	0.9	3.4	7
Glycera spp. juv.	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Goniada littorea	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Laonice cirrata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaete		1	6	5	4.0	3.5	1	6	2.6	1.5	6.0	12
Mediomastus californiensis	Polychaete		1	2	6	3.0	3.5	1	6	2.6	1.5	6.0	9
Mediomastus sp(p)	Polychaete		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Megalomma pigmentum	Polychaete		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Monticellina cryptica	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina siblina	Polychaete		14	4	14	10.7	9.0	4	14	5.8	3.3	13.0	32
Nephtys cornuta	Polychaete		5	10	7	7.3	7.5	5	10	2.5	1.5	5.7	22
Nereis procera	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Notomastus tenuis	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaete		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Pholoe glabra	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabrus	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polycirrus californicus	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma tetraura	Polychaete		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Terebellides californica	Polychaete		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Terebellides spp. juv.	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Edwardsia sp.	Anthozoa		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Nemertea	Nemertea		2	2	4	2.7	3.0	2	4	1.2	0.7	2.6	8
	TOTAL INDIVIDUALS		73	94	100	89.0	86.5	73	100	14.2	8.2	31.9	267
	TOTAL SPECIES	41	24	30	19	24.3	24.5	19	30	5.5	3.2	12.4	73
	TOTAL CRUST. INDIV.		6	8	0	4.7	4.0	0	8	4.2	2.4	9.4	14
	TOTAL CRUST. SP.	7	4	5	0	3.0	2.5	0	5	2.6	1.5	6.0	9

GAMMARID INDIV.		3	4	0	2.3	2.0	0	4	2.1	1.2	4.7	7
GAMMARID SP.	4	2	3	0	1.7	1.5	0	3	1.5	0.9	3.4	5
OTHER CRUSTACEAN INDIV.		3	4	0	2.3	2.0	0	4	2.1	1.2	4.7	7
OTHER CRUSTACEAN SP.	3	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
TOTAL ECHINODERM INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL ECHINODERM SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL MOLLUSC INDIV.		4	7	0	3.7	3.5	0	7	3.5	2.0	7.9	11
TOTAL MOLLUSC SP.	2	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
TOTAL POLYCHAETE INDIV.		59	75	94	76.0	76.5	59	94	17.5	10.1	39.4	228
TOTAL POLYCHAETE SP.	29	16	20	17	17.7	18.0	16	20	2.1	1.2	4.7	53

STANUM	STATION	IDORG	DATE	LEG
40020.2	LONG BEACH OUTER HARBOR- 20	1696	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Cumella cf californica	Cumacea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Diastylis sp.	Cumacea	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Amphideutopus oculatus	Gammaridea	7	0	1	2.7	3.5	0	7	3.8	2.2	8.5	8
Listriella melanica	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Photis sp.	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda	3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Euphilomedes carcharodonta	Ostracoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parasterope sp	Ostracoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Bivalve	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Modiolus sp.	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Theora fragilis	Bivalvia	2	3	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Odostomia sp.	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Volvulella cylindrica	Gastropoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amaeana occidentalis	Polychaete	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Ampharetidae spp. juv.	Polychaete	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Aphelochaeta monilaris	Polychaete	6	3	3	4.0	4.5	3	6	1.7	1.0	3.9	12
Aphelochaeta sp(p)	Polychaete	26	30	27	27.7	28.0	26	30	2.1	1.2	4.7	83
Aricidea catherinae	Polychaete	2	1	4	2.3	2.5	1	4	1.5	0.9	3.4	7
Aricidea horikoshii	Polychaete	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Chaetozone corona	Polychaete	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Cirratulidae spp. indet.	Polychaete	4	9	3	5.3	6.0	3	9	3.2	1.9	7.2	16

Cossura candida	Polychaete		40	34	29	34.3	34.5	29	40	5.5	3.2	12.4	103
Diplocirrus sp.	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Drilonereis spp. indet.	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone incolor	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone limnicola	Polychaete		3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
Euclymeninae sp. A	Polychaete		7	11	12	10.0	9.5	7	12	2.6	1.5	6.0	30
Laonice cirrata	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Leitoscoloplos pugettensis	Polychaete		1	3	3	2.3	2.0	1	3	1.2	0.7	2.6	7
Levinsenia gracilis	Polychaete		6	3	4	4.3	4.5	3	6	1.5	0.9	3.4	13
Lumbrineris index	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus ambiseta	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaete		5	4	2	3.7	3.5	2	5	1.5	0.9	3.4	11
Mediomastus sp(p)	Polychaete		7	12	3	7.3	7.5	3	12	4.5	2.6	10.1	22
Megalomma pigmentum	Polychaete		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Monticellina cryptica	Polychaete		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Monticellina siblina	Polychaete		9	12	7	9.3	9.5	7	12	2.5	1.5	5.7	28
Nephtys cornuta	Polychaete		6	7	8	7.0	7.0	6	8	1.0	0.6	2.3	21
Nereis procera	Polychaete		4	3	2	3.0	3.0	2	4	1.0	0.6	2.3	9
Notomastus tenuis	Polychaete		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Onuphidae spp. juv.	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Paraprionospio pinnata	Polychaete		1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Podarkeopsis glabrus	Polychaete		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Scoletoma tetraura	Polychaete		6	7	4	5.7	5.5	4	7	1.5	0.9	3.4	17
Spiophanes berkeleyorum	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Streblosoma sp. B	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tenonia priops	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides californica	Polychaete		3	3	1	2.3	2.0	1	3	1.2	0.7	2.6	7
Terebellides spp. juv.	Polychaete		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Anthozoa	Anthozoa		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nematoda	Nematoda		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Nemertea	Nemertea		3	1	2	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL INDIVIDUALS		171	172	132	158.3	152.0	132	172	22.8	13.2	51.3	475
	TOTAL SPECIES	54	35	35	30	33.3	32.5	30	35	2.9	1.7	6.5	100
	TOTAL CRUST. INDIV.		13	1	5	6.3	7.0	1	13	6.1	3.5	13.7	19
	TOTAL CRUST. SP.	8	5	1	4	3.3	3.0	1	5	2.1	1.2	4.7	10
	GAMMARID INDIV.		8	1	1	3.3	4.5	1	8	4.0	2.3	9.1	10
	GAMMARID SP.	3	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	OTHER CRUSTACEAN INDIV.		5	0	4	3.0	2.5	0	5	2.6	1.5	6.0	9
	OTHER CRUSTACEAN SP.	5	3	0	3	2.0	1.5	0	3	1.7	1.0	3.9	6

TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		3	8	1	4.0	4.5	1	8	3.6	2.1	8.1	12
TOTAL MOLLUSC SP.	7	2	5	1	2.7	3.0	1	5	2.1	1.2	4.7	8
TOTAL POLYCHAETE INDIV.		150	159	124	144.3	141.5	124	159	18.2	10.5	40.9	433
TOTAL POLYCHAETE SP.	36	26	26	24	25.3	25.0	24	26	1.2	0.7	2.6	76

STANUM	STATION	IDORG	DATE	LEG
48010	TURNING BASIN	1697	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Gammaridea	2	2	2	2.0	2.0	2	2	0.0	0.0	0.0	6
Rudilemboides stenopropodus	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Parasterope sp	Ostracoda	0	3	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Mya arenaria	Bivalvia	0	0	4	1.3	2.0	0	4	2.3	1.3	5.2	4
Tellina modesta	Bivalvia	4	1	0	1.7	2.0	0	4	2.1	1.2	4.7	5
Theora fragilis	Bivalvia	0	0	5	1.7	2.5	0	5	2.9	1.7	6.5	5
Amaeana occidentalis	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampharetidae spp. juv.	Polychaete	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Aphelochaeta glandaria	Polychaete	4	3	3	3.3	3.5	3	4	0.6	0.3	1.3	10
Aphelochaeta monilaris	Polychaete	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Apoprionospio pygmaea	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aricidea catherinae	Polychaete	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Chaetozone corona	Polychaete	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Cirratulidae spp. indet.	Polychaete	6	0	2	2.7	3.0	0	6	3.1	1.8	6.9	8
Cossura candida	Polychaete	39	17	14	23.3	26.5	14	39	13.7	7.9	30.7	70
Diopatra ornata	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Dorvillea longicornis	Polychaete	5	5	3	4.3	4.0	3	5	1.2	0.7	2.6	13
Dorvilleidae spp. indet.	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euchone limnicola	Polychaete	15	10	81	35.3	45.5	10	81	39.6	22.9	89.2	106
Euclymeninae sp. A	Polychaete	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Eumida longicornata	Polychaete	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Exogone lourei	Polychaete	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Glycinde armigera	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaete	5	2	15	7.3	8.5	2	15	6.8	3.9	15.3	22

Levinsenia gracilis	Polychaete		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Lumbrinereis inflata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus californiensis	Polychaete		13	11	1	8.3	7.0	1	13	6.4	3.7	14.5	25
Mediomastus sp(p)	Polychaete		41	19	14	24.7	27.5	14	41	14.4	8.3	32.3	74
Melinna oculata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina cryptica	Polychaete		5	6	6	5.7	5.5	5	6	0.6	0.3	1.3	17
Monticellina siblina	Polychaete		36	7	8	17.0	21.5	7	36	16.5	9.5	37.0	51
Nephtys comuta	Polychaete		5	1	14	6.7	7.5	1	14	6.7	3.8	15.0	20
Nereis procera	Polychaete		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Onuphidae spp. juv.	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pilargis maculata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaete		2	1	13	5.3	7.0	1	13	6.7	3.8	15.0	16
Pseudopolydora paucibranchiata	Polychaete		4	0	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Scoletoma tetraura	Polychaete		2	1	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Spiochaetopterus costarum	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes duplex	Polychaete		5	3	2	3.3	3.5	2	5	1.5	0.9	3.4	10
Streblosoma crassibranchia	Polychaete		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Streblosoma sp. B	Polychaete		2	0	2	1.3	1.0	0	2	1.2	0.7	2.6	4
Streblospio benedicti	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tenonia priops	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides spp. juv.	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Anthozoa	Anthozoa		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nemertea	Nemertea		0	1	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Oligochaeta	Oligochaeta		1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
	TOTAL INDIVIDUALS		222	107	212	180.3	164.5	107	222	63.7	36.8	143.3	541
	TOTAL SPECIES	52	39	28	32	33.0	33.5	28	39	5.6	3.2	12.5	99
	TOTAL CRUST. INDIV.		3	7	6	5.3	5.0	3	7	2.1	1.2	4.7	16
	TOTAL CRUST. SP.	6	2	4	4	3.3	3.0	2	4	1.2	0.7	2.6	10
	GAMMARID INDIV.		2	3	2	2.3	2.5	2	3	0.6	0.3	1.3	7
	GAMMARID SP.	2	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	OTHER CRUSTACEAN INDIV.		1	4	4	3.0	2.5	1	4	1.7	1.0	3.9	9
	OTHER CRUSTACEAN SP.	4	1	2	3	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		4	1	9	4.7	5.0	1	9	4.0	2.3	9.1	14
	TOTAL MOLLUSC SP.	3	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL POLYCHAETE INDIV.		213	95	192	166.7	154.0	95	213	62.9	36.3	141.6	500
	TOTAL POLYCHAETE SP.	40	34	21	24	26.3	27.5	21	34	6.8	3.9	15.3	79

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
40015.1	FISH HARBOR ENTRANCE	1698	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	8	5	3	5.3	5.5	3	8	2.5	1.5	5.7	16
Cumella cf californica	Cumacea	1	1	6	2.7	3.5	1	6	2.9	1.7	6.5	8
Amphideutopus oculatus	Gammaridea	10	36	24	23.3	23.0	10	36	13.0	7.5	29.3	70
Listriella melanica	Gammaridea	0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Photis sp.	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Protomedeia sp.	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Gammaridea	2	7	5	4.7	4.5	2	7	2.5	1.5	5.7	14
Stenothoidae	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia crenulatifrons	Isopoda	2	3	1	2.0	2.0	1	3	1.0	0.6	2.3	6
Euphilomedes carcharodonta	Ostracoda	3	1	4	2.7	2.5	1	4	1.5	0.9	3.4	8
Leptochelia dubia	Tanaidacea	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Bivalve	Bivalvia	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Lyonsia californica	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella sp.	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia	0	2	2	1.3	1.0	0	2	1.2	0.7	2.6	4
Solen sp.	Bivalvia	0	1	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Tagelus subteres	Bivalvia	1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Theora fragilis	Bivalvia	3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Bulla gouldiana	Gastropoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampharete labrops	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aricidea catherinae	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aricidea horikoshii	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chaetozone corona	Polychaete	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Chone albocincta	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaete	7	4	2	4.3	4.5	2	7	2.5	1.5	5.7	13
Euchone limnicola	Polychaete	34	29	29	30.7	31.5	29	34	2.9	1.7	6.5	92
Euclymeninae sp. A	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Eumida longicornata	Polychaete	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Exogone lourei	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera americana	Polychaete	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Leitoscoloplos pugettensis	Polychaete	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Levinsenia gracilis	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Lumbrineris californiensis	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus ambiseta	Polychaete		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Mediomastus californiensis	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Mediomastus sp(p)	Polychaete		0	3	5	2.7	2.5	0	5	2.5	1.5	5.7	8
Metasychis disparidentatus	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina siblina	Polychaete		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Nephtys cornuta	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nereis procera	Polychaete		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Pholoe glabra	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaete		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Pseudopolydora paucibranchiata	Polychaete		13	6	23	14.0	14.5	6	23	8.5	4.9	19.2	42
Scoletoma tetraura	Polychaete		4	4	1	3.0	2.5	1	4	1.7	1.0	3.9	9
Sthenelais spp. juv.	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nemertea	Nemertea		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		107	123	122	117.3	115.0	107	123	9.0	5.2	20.2	352
	TOTAL SPECIES	47	29	31	25	28.3	28.0	25	31	3.1	1.8	6.9	85
	TOTAL CRUST. INDIV.		26	56	48	43.3	41.0	26	56	15.5	9.0	35.0	130
	TOTAL CRUST. SP.	11	6	9	10	8.3	8.0	6	10	2.1	1.2	4.7	25
	GAMMARID INDIV.		12	45	33	30.0	28.5	12	45	16.7	9.6	37.6	90
	GAMMARID SP.	6	2	4	5	3.7	3.5	2	5	1.5	0.9	3.4	11
	OTHER CRUSTACEAN INDIV.		14	11	15	13.3	13.0	11	15	2.1	1.2	4.7	40
	OTHER CRUSTACEAN SP.	5	4	5	5	4.7	4.5	4	5	0.6	0.3	1.3	14
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		6	7	9	7.3	7.5	6	9	1.5	0.9	3.4	22
	TOTAL MOLLUSC SP.	8	4	5	5	4.7	4.5	4	5	0.6	0.3	1.3	14
	TOTAL POLYCHAETE INDIV.		74	59	65	66.0	66.5	59	74	7.5	4.4	17.0	198
	TOTAL POLYCHAETE SP.	27	18	16	10	14.7	14.0	10	18	4.2	2.4	9.4	44

STANUM	STATION	IDORG	DATE	LEG
40009	WEST BASIN ENTRANCE	1699	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium sp.	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Grandidierella japonica	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Listriella diffusa	Gammaridea	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2

Gnathia crenulatifrons	Isopoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rutiderma rostratum	Ostracoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ophiuroidea	Ophiuroidea		2	0	4	2.0	2.0	0	4	2.0	1.2	4.5	6
Mysella sp.	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amaeana occidentalis	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphicteis scaphobranchiata	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaete		11	12	3	8.7	7.5	3	12	4.9	2.8	11.1	26
Aphelochaeta sp(p)	Polychaete		3	1	3	2.3	2.0	1	3	1.2	0.7	2.6	7
Aricidea catherinae	Polychaete		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Chaetozone corona	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Chone albocincta	Polychaete		1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Cirratulidae spp. indet.	Polychaete		4	6	6	5.3	5.0	4	6	1.2	0.7	2.6	16
Cossura candida	Polychaete		11	13	20	14.7	15.5	11	20	4.7	2.7	10.6	44
Euchone limnicola	Polychaete		1	2	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Euclymeninae sp. A	Polychaete		2	1	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Laonice cirrata	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaete		1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Levinsenia gracilis	Polychaete		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Mediomastus sp(p)	Polychaete		3	10	4	5.7	6.5	3	10	3.8	2.2	8.5	17
Metasychis disparidentatus	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina cryptica	Polychaete		4	4	9	5.7	6.5	4	9	2.9	1.7	6.5	17
Monticellina siblina	Polychaete		5	12	8	8.3	8.5	5	12	3.5	2.0	7.9	25
Nephtys cornuta	Polychaete		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Nereididae spp. juv.	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nereis procera	Polychaete		0	1	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Pista alata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podarkeopsis glabrus	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaete		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Scalibregma inflatum	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Scoletoma tetraura	Polychaete		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Spiophanes duplex	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Terebellides californica	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Nemertea	Nemertea		3	2	0	1.7	1.5	0	3	1.5	0.9	3.4	5
	TOTAL INDIVIDUALS		63	78	82	74.3	72.5	63	82	10.0	5.8	22.5	223
	TOTAL SPECIES	39	23	22	23	22.7	22.5	22	23	0.6	0.3	1.3	68
	TOTAL CRUST. INDIV.		4	2	3	3.0	3.0	2	4	1.0	0.6	2.3	9
	TOTAL CRUST. SP.	8	4	2	3	3.0	3.0	2	4	1.0	0.6	2.3	9
	GAMMARID INDIV.		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5

GAMMARID SP.	4	2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
OTHER CRUSTACEAN INDIV.		2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
OTHER CRUSTACEAN SP.	4	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
TOTAL ECHINODERM INDIV.		2	0	4	2.0	2.0	0	4	2.0	1.2	4.5	6
TOTAL ECHINODERM SP.	1	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
TOTAL MOLLUSC INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL MOLLUSC SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
TOTAL POLYCHAETE INDIV.		54	73	75	67.3	64.5	54	75	11.6	6.7	26.1	202
TOTAL POLYCHAETE SP.	28	17	18	19	18.0	18.0	17	19	1.0	0.6	2.3	54

STANUM	STATION	IDORG	DATE	LEG
48011	KING HARBOR	1700	02/05/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	7	1	2	3.3	4.0	1	7	3.2	1.9	7.2	10
Cumella cf californica	Cumacea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphideutopus oculatus	Gammaridea	0	4	1	1.7	2.0	0	4	2.1	1.2	4.7	5
Grandidierella japonica	Gammaridea	3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Listriella melanica	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Rudilemboides stenopropodus	Gammaridea	2	6	1	3.0	3.5	1	6	2.6	1.5	6.0	9
Colanthura squamosissima	Isopoda	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Euphilomedes carcharodonta	Ostracoda	15	31	18	21.3	23.0	15	31	8.5	4.9	19.1	64
Parasterope sp	Ostracoda	5	3	5	4.3	4.0	3	5	1.2	0.7	2.6	13
Rutiderma lomae	Ostracoda	11	7	12	10.0	9.5	7	12	2.6	1.5	6.0	30
Rutiderma rostratum	Ostracoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leptochelia dubia	Tanaidacea	0	6	0	2.0	3.0	0	6	3.5	2.0	7.8	6
Zeuxo normani	Tanaidacea	40	51	78	56.3	59.0	40	78	19.6	11.3	44.0	169
Theora fragilis	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Transennella tantilla	Bivalvia	40	22	49	37.0	35.5	22	49	13.7	7.9	30.9	111
Acteocina sp.	Gastropoda	11	14	7	10.7	10.5	7	14	3.5	2.0	7.9	32
Exogone lourei	Polychaeta	13	16	14	14.3	14.5	13	16	1.5	0.9	3.4	43
Polydora sp.	Polychaeta	3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Ampharetidae spp. juv.	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta sp(p)	Polychaete	1	4	0	1.7	2.0	0	4	2.1	1.2	4.7	5
Apoprionospio pygmaea	Polychaete	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Armandia brevis	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Brania brevipharyngea	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Capitella capitata	Polychaete		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Caulleriella pacifica	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cirriformia spirabrancha	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Dorvillea longicornis	Polychaete		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Euclymeninae sp. A	Polychaete		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Fabricinuda limnicola	Polychaete		2	4	10	5.3	6.0	2	10	4.2	2.4	9.4	16
Leitoscoloplos pugettensis	Polychaete		17	10	9	12.0	13.0	9	17	4.4	2.5	9.8	36
Mediomastus ambiseta	Polychaete		5	2	6	4.3	4.0	2	6	2.1	1.2	4.7	13
Mediomastus californiensis	Polychaete		7	5	1	4.3	4.0	1	7	3.1	1.8	6.9	13
Mediomastus sp(p)	Polychaete		10	4	2	5.3	6.0	2	10	4.2	2.4	9.4	16
Monticellina cryptica	Polychaete		0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Monticellina siblina	Polychaete		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Nephtys caecoides	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nereis procera	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Notomastus tenuis	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Pherusa capulata	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polyophthalmus pictus	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio heterobranchia	Polychaete		3	1	7	3.7	4.0	1	7	3.1	1.8	6.9	11
Pseudopolydora paucibranchiata	Polychaete		72	41	39	50.7	55.5	39	72	18.5	10.7	41.6	152
Scoloplos sp.	Polychaete		4	0	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Scyphoproctus oculatus	Polychaete		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Sphaerosyllis californiensis	Polychaete		8	5	4	5.7	6.0	4	8	2.1	1.2	4.7	17
Anthozoa	Anthozoa		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Nematoda	Nematoda		1	2	4	2.3	2.5	1	4	1.5	0.9	3.4	7
Nemertea	Nemertea		2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Oligochaeta	Oligochaeta		8	17	8	11.0	12.5	8	17	5.2	3.0	11.7	33
	TOTAL INDIVIDUALS		308	278	280	288.7	293.0	278	308	16.8	9.7	37.7	866
	TOTAL SPECIES	50	38	39	23	33.3	31.0	23	39	9.0	5.2	20.2	100
	TOTAL CRUST. INDIV.		84	115	118	105.7	101.0	84	118	18.8	10.9	42.4	317
	TOTAL CRUST. SP.	13	8	13	8	9.7	10.5	8	13	2.9	1.7	6.5	29
	GAMMARID INDIV.		5	12	3	6.7	7.5	3	12	4.7	2.7	10.6	20
	GAMMARID SP.	4	2	4	3	3.0	3.0	2	4	1.0	0.6	2.3	9
	OTHER CRUSTACEAN INDIV.		79	103	115	99.0	97.0	79	115	18.3	10.6	41.2	297
	OTHER CRUSTACEAN SP.	9	6	9	5	6.7	7.0	5	9	2.1	1.2	4.7	20
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		51	37	56	48.0	46.5	37	56	9.8	5.7	22.2	144
	TOTAL MOLLUSC SP.	3	2	3	2	2.3	2.5	2	3	0.6	0.3	1.3	7
	TOTAL POLYCHAETE INDIV.		159	105	94	119.3	126.5	94	159	34.8	20.1	78.3	358

	TOTAL POLYCHAETE SP.	30	24	20	11	18.3	17.5	11	24	6.7	3.8	15.0	55

STANUM	STATION	IDORG	DATE	LEG
40023.1	ALAMITOS BAY-LONG BEACH MARINA	1701	02/04/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Rudilemboides stenopropodus	Gammaridea	18	4	8	10.0	11.0	4	18	7.2	4.2	16.2	30
Parasterope sp	Ostracoda	8	10	31	16.3	19.5	8	31	12.7	7.4	28.7	49
Holothuroidea	Holothuroidea	8	0	3	3.7	4.0	0	8	4.0	2.3	9.1	11
Mysella sp.	Bivalvia	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Protothaca staminea	Bivalvia	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tagelus subteres	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia	5	1	0	2.0	2.5	0	5	2.6	1.5	6.0	6
Theora fragilis	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Amphicteis scaphobranchiata	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Apoprionospio pygmaea	Polychaete	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Armandia brevis	Polychaete	2	2	4	2.7	3.0	2	4	1.2	0.7	2.6	8
Cirratulidae spp. indet.	Polychaete	4	0	0	1.3	2.0	0	4	2.3	1.3	5.2	4
Cossura candida	Polychaete	4	2	0	2.0	2.0	0	4	2.0	1.2	4.5	6
Euchone limnicola	Polychaete	3	2	3	2.7	2.5	2	3	0.6	0.3	1.3	8
Exogone uniformis	Polychaete	8	0	5	4.3	4.0	0	8	4.0	2.3	9.1	13
Goniada littorea	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Leitoscoloplos pugettensis	Polychaete	4	1	1	2.0	2.5	1	4	1.7	1.0	3.9	6
Mediomastus ambiseta	Polychaete	107	92	72	90.3	89.5	72	107	17.6	10.1	39.5	271
Mediomastus californiensis	Polychaete	18	11	12	13.7	14.5	11	18	3.8	2.2	8.5	41
Mediomastus sp(p)	Polychaete	202	185	203	196.7	194.0	185	203	10.1	5.8	22.8	590
Nephtys cornuta	Polychaete	3	0	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Notomastus latericeus	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaete	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaete	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Prionospio heterobranchia	Polychaete	9	11	16	12.0	12.5	9	16	3.6	2.1	8.1	36
Prionospio lighti	Polychaete	8	3	12	7.7	7.5	3	12	4.5	2.6	10.1	23
Pseudopolydora paucibranchiata	Polychaete	2	2	0	1.3	1.0	0	2	1.2	0.7	2.6	4
Scoletoma zonata	Polychaete	3	0	3	2.0	1.5	0	3	1.7	1.0	3.9	6
Scoloplos sp.	Polychaete	3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Sphaerosyllis californiensis	Polychaete	4	2	5	3.7	3.5	2	5	1.5	0.9	3.4	11
Spiophanes duplex	Polychaete	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3

Nematoda	Nematoda		5	1	6	4.0	3.5	1	6	2.6	1.5	6.0	12
Nemertea	Nemertea		1	5	0	2.0	2.5	0	5	2.6	1.5	6.0	6
Oligochaeta	Oligochaeta		7	5	3	5.0	5.0	3	7	2.0	1.2	4.5	15
Phoronida	Phoronida		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Platyhelminthes	Platyhelminthes		5	0	0	1.7	2.5	0	5	2.9	1.7	6.5	5
	TOTAL INDIVIDUALS		453	345	391	396.3	399.0	345	453	54.2	31.3	121.9	1189
	TOTAL SPECIES	37	32	23	20	25.0	26.0	20	32	6.2	3.6	14.1	75
	TOTAL CRUST. INDIV.		27	14	40	27.0	27.0	14	40	13.0	7.5	29.3	81
	TOTAL CRUST. SP.	3	3	2	3	2.7	2.5	2	3	0.6	0.3	1.3	8
	GAMMARID INDIV.		18	4	8	10.0	11.0	4	18	7.2	4.2	16.2	30
	GAMMARID SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	OTHER CRUSTACEAN INDIV.		9	10	32	17.0	20.5	9	32	13.0	7.5	29.3	51
	OTHER CRUSTACEAN SP.	2	2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	TOTAL ECHINODERM INDIV.		8	0	3	3.7	4.0	0	8	4.0	2.3	9.1	11
	TOTAL ECHINODERM SP.	1	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL MOLLUSC INDIV.		8	3	0	3.7	4.0	0	8	4.0	2.3	9.1	11
	TOTAL MOLLUSC SP.	5	3	3	0	2.0	1.5	0	3	1.7	1.0	3.9	6
	TOTAL POLYCHAETE INDIV.		390	317	339	348.7	353.5	317	390	37.4	21.6	84.3	1046
	TOTAL POLYCHAETE SP.	23	20	15	14	16.3	17.0	14	20	3.2	1.9	7.2	49

STANUM	STATION	IDORG	DATE	LEG
48012	CHANNEL IS. HARBOR- FRONT	1702	02/03/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida	1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Cumella cf californica	Cumacea	1	4	8	4.3	4.5	1	8	3.5	2.0	7.9	13
Ampelisca cristata	Gammaridea	0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Amphideutopus oculatus	Gammaridea	30	41	23	31.3	32.0	23	41	9.1	5.2	20.4	94
Grandidierella japonica	Gammaridea	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Rudilemboides stenopropodus	Gammaridea	0	5	7	4.0	3.5	0	7	3.6	2.1	8.1	12
Euphilomedes carcharodonta	Ostracoda	1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Leptochelia dubia	Tanaidacea	2	3	3	2.7	2.5	2	3	0.6	0.3	1.3	8
Zeuxo normani	Tanaidacea	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Holothuroidea	Holothuroidea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cardiida	Bivalvia	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Tellina modesta	Bivalvia	2	1	1	1.3	1.5	1	2	0.6	0.3	1.3	4
Exogone lourei	Polychaeta	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Haploscoloplos sp.	Polychaeta	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1

Amaeana occidentalis	Polychaete		2	5	4	3.7	3.5	2	5	1.5	0.9	3.4	11
Amphicteis scaphobranchiata	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Cossura candida	Polychaete		36	10	9	18.3	22.5	9	36	15.3	8.8	34.4	55
Euchone limnicola	Polychaete		2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Glycinde polygnatha	Polychaete		1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Levinsenia gracilis	Polychaete		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Mediomastus ambiseta	Polychaete		0	1	10	3.7	5.0	0	10	5.5	3.2	12.4	11
Mediomastus californiensis	Polychaete		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Mediomastus sp(p)	Polychaete		1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
Metasychis disparidentatus	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Paraprionospio pinnata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Platyhelminthes	Polychaete		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Prionospio lighti	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Scolelepis spp. indet.	Polychaete		1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Scoletoma zonata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Sphaerosyllis californiensis	Polychaete		0	2	13	5.0	6.5	0	13	7.0	4.0	15.8	15
Anthozoa	Anthozoa		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nemertea	Nemertea		4	3	4	3.7	3.5	3	4	0.6	0.3	1.3	11
Oligochaeta	Oligochaeta		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		99	86	97	94.0	92.5	86	99	7.0	4.0	15.8	282
	TOTAL SPECIES	33	25	19	19	21.0	22.0	19	25	3.5	2.0	7.8	63
	TOTAL CRUST. INDIV.		38	58	45	47.0	48.0	38	58	10.1	5.9	22.8	141
	TOTAL CRUST. SP.	9	7	8	6	7.0	7.0	6	8	1.0	0.6	2.3	21
	GAMMARID INDIV.		31	49	30	36.7	39.5	30	49	10.7	6.2	24.1	110
	GAMMARID SP.	4	2	4	2	2.7	3.0	2	4	1.2	0.7	2.6	8
	OTHER CRUSTACEAN INDIV.		7	9	15	10.3	11.0	7	15	4.2	2.4	9.4	31
	OTHER CRUSTACEAN SP.	5	5	4	4	4.3	4.5	4	5	0.6	0.3	1.3	13
	TOTAL ECHINODERM INDIV.		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM SP.	1	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL MOLLUSC INDIV.		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	TOTAL MOLLUSC SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL POLYCHAETE INDIV.		54	23	45	40.7	38.5	23	54	15.9	9.2	35.9	122
	TOTAL POLYCHAETE SP.	18	15	8	9	10.7	11.5	8	15	3.8	2.2	8.5	32

STANUM	STATION	IDORG	DATE	LEG
48013	WEST MUGU LAGOON- A1 (X2)	1703	02/06/97	48

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Mayerella banksia	Caprellida		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Corophium insidiosum	Gammaridea		31	44	23	32.7	33.5	23	44	10.6	6.1	23.8	98
Boccardia proboscidea	Polychaete		7	9	11	9.0	9.0	7	11	2.0	1.2	4.5	27
Capitella capitata	Polychaete		6	6	15	9.0	10.5	6	15	5.2	3.0	11.7	27
Polydora cornuta	Polychaete		6	15	19	13.3	12.5	6	19	6.7	3.8	15.0	40
Pseudopolydora paucibranchiata	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblospio benedicti	Polychaete		15	29	38	27.3	26.5	15	38	11.6	6.7	26.1	82
Nemertea	Nemertea		3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Oligochaeta	Oligochaeta		15	166	147	109.3	90.5	15	166	82.2	47.5	185.1	328
	TOTAL INDIVIDUALS		83	272	253	202.7	177.5	83	272	104.1	60.1	234.2	608
	TOTAL SPECIES	9	7	9	6	7.3	7.5	6	9	1.5	0.9	3.4	22
	TOTAL CRUST. INDIV.		31	45	23	33.0	34.0	23	45	11.1	6.4	25.1	99
	TOTAL CRUST. SP.	2	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	GAMMARID INDIV.		31	44	23	32.7	33.5	23	44	10.6	6.1	23.8	98
	GAMMARID SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	OTHER CRUSTACEAN INDIV.		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	OTHER CRUSTACEAN SP.	1	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL POLYCHAETE INDIV.		34	60	83	59.0	58.5	34	83	24.5	14.2	55.2	177
	TOTAL POLYCHAETE SP.	5	4	5	4	4.3	4.5	4	5	0.6	0.3	1.3	13

STANUM	STATION	IDORG	DATE	LEG
48014	WEST MUGU LAGOON- A2 (X3)	1704	02/06/97	48

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS							
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Corophium insidiosum	Gammaridea	16	4	6	8.7	10.0	4	16	6.4	3.7	14.5	26
Acteocina sp.	Gastropoda	32	1	29	20.7	16.5	1	32	17.1	9.9	38.5	62
Boccardia proboscidea	Polychaete	2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Capitella capitata	Polychaete	36	34	15	28.3	25.5	15	36	11.6	6.7	26.1	85
Eteone californica	Polychaete	2	0	0	0.7	1.0	0	2	1.2	0.7	2.6	2

Mediomastus sp(p)	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Polydora cornuta	Polychaete		1	3	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Streblospio benedicti	Polychaete		94	180	89	121.0	134.5	89	180	51.2	29.5	115.1	363
Nematoda	Nematoda		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nemertea	Nemertea		1	0	3	1.3	1.5	0	3	1.5	0.9	3.4	4
Oligochaeta	Oligochaeta		201	323	320	281.3	262.0	201	323	69.6	40.2	156.6	844
	TOTAL INDIVIDUALS		386	547	463	465.3	466.5	386	547	80.5	46.5	181.2	1396
	TOTAL SPECIES	11	10	8	7	8.3	8.5	7	10	1.5	0.9	3.4	25
	TOTAL CRUST. INDIV.		16	4	6	8.7	10.0	4	16	6.4	3.7	14.5	26
	TOTAL CRUST. SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	GAMMARID INDIV.		16	4	6	8.7	10.0	4	16	6.4	3.7	14.5	26
	GAMMARID SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		32	1	29	20.7	16.5	1	32	17.1	9.9	38.5	62
	TOTAL MOLLUSC SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	TOTAL POLYCHAETE INDIV.		135	219	105	153.0	162.0	105	219	59.1	34.1	133.0	459
	TOTAL POLYCHAETE SP.	6	5	5	3	4.3	4.0	3	5	1.2	0.7	2.6	13

STANUM	STATION	IDORG	DATE	LEG
48015	CENTRAL MUGU LAGOON- B1 (X4)	1705	02/06/97	48

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Capitella capitata	Polychaete		1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Eteone californica	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus ambiseta	Polychaete		2	1	2	1.7	1.5	1	2	0.6	0.3	1.3	5
Mediomastus sp(p)	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Notomastus tenuis	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Prionospio lighti	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblospio benedicti	Polychaete		9	2	4	5.0	5.5	2	9	3.6	2.1	8.1	15
Halacaridae	Mite		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Oligochaeta	Oligochaeta		8	60	22	30.0	34.0	8	60	26.9	15.5	60.5	90
	TOTAL INDIVIDUALS		22	66	34	40.7	44.0	22	66	22.7	13.1	51.2	122
	TOTAL SPECIES	9	6	4	8	6.0	6.0	4	8	2.0	1.2	4.5	18
	TOTAL CRUST. INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0

GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL MOLLUSC SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
TOTAL POLYCHAETE INDIV.		13	6	12	10.3	9.5	6	13	3.8	2.2	8.5	31
TOTAL POLYCHAETE SP.	7	4	3	7	4.7	5.0	3	7	2.1	1.2	4.7	14

STANUM	STATION	IDORG	DATE	LEG
48016	CENTRAL MUGU LAGOON- B2 (X3)	1706	02/06/97	48

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Cooperella subdiaphana	Bivalvia		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Acteocina sp.	Gastropoda		35	0	5	13.3	17.5	0	35	18.9	10.9	42.6	40
Capitella capitata	Polychaete		10	24	4	12.7	14.0	4	24	10.3	5.9	23.1	38
Eteone californica	Polychaete		1	1	3	1.7	2.0	1	3	1.2	0.7	2.6	5
Mediomastus ambiseta	Polychaete		1	2	5	2.7	3.0	1	5	2.1	1.2	4.7	8
Mediomastus sp(p)	Polychaete		19	1	14	11.3	10.0	1	19	9.3	5.4	20.9	34
Polydora cornuta	Polychaete		0	7	0	2.3	3.5	0	7	4.0	2.3	9.1	7
Pseudopolydora paucibranchiata	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Streblospio benedicti	Polychaete		102	88	142	110.7	115.0	88	142	28.0	16.2	63.1	332
Nematoda	Nematoda		5	2	0	2.3	2.5	0	5	2.5	1.5	5.7	7
Nemertea	Nemertea		7	1	2	3.3	4.0	1	7	3.2	1.9	7.2	10
Oligochaeta	Oligochaeta		309	255	136	233.3	222.5	136	309	88.5	51.1	199.2	700
	TOTAL INDIVIDUALS		490	381	312	394.3	401.0	312	490	89.7	51.8	201.9	1183
	TOTAL SPECIES	12	10	9	9	9.3	9.5	9	10	0.6	0.3	1.3	28
	TOTAL CRUST. INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL CRUST. SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	GAMMARID SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		35	0	6	13.7	17.5	0	35	18.7	10.8	42.1	41

TOTAL MOLLUSC SP.	2	1	0	2	1.0	1.0	0	2	1.0	0.6	2.3	3
TOTAL POLYCHAETE INDIV.		134	123	168	141.7	145.5	123	168	23.5	13.5	52.8	425
TOTAL POLYCHAETE SP.	7	6	6	5	5.7	5.5	5	6	0.6	0.3	1.3	17

STANUM	STATION	IDORG	DATE	LEG
48017	EAST MUGU LAGOON- C1 (X1)	1707	02/06/97	48

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Corophium insidiosum	Gammaridea		3	2	3	2.7	2.5	2	3	0.6	0.3	1.3	8
Acteocina sp.	Gastropoda		40	41	45	42.0	42.5	40	45	2.6	1.5	6.0	126
Bulla gouldiana	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Capitella capitata	Polychaete		42	40	35	39.0	38.5	35	42	3.6	2.1	8.1	117
Eteone californica	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus sp(p)	Polychaete		1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
Polydora cornuta	Polychaete		5	1	8	4.7	4.5	1	8	3.5	2.0	7.9	14
Streblospio benedicti	Polychaete		145	176	210	177.0	177.5	145	210	32.5	18.8	73.2	531
Nematoda	Nematoda		4	14	6	8.0	9.0	4	14	5.3	3.1	11.9	24
Nemertea	Nemertea		3	8	0	3.7	4.0	0	8	4.0	2.3	9.1	11
Oligochaeta	Oligochaeta		269	179	181	209.7	224.0	179	269	51.4	29.7	115.6	629
Phoronida	Phoronida		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		513	465	491	489.7	489.0	465	513	24.0	13.9	54.1	1469
	TOTAL SPECIES	12	10	10	9	9.7	9.5	9	10	0.6	0.3	1.3	29
	TOTAL CRUST. INDIV.		3	2	3	2.7	2.5	2	3	0.6	0.3	1.3	8
	TOTAL CRUST. SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	GAMMARID INDIV.		3	2	3	2.7	2.5	2	3	0.6	0.3	1.3	8
	GAMMARID SP.	1	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		40	42	45	42.3	42.5	40	45	2.5	1.5	5.7	127
	TOTAL MOLLUSC SP.	2	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL POLYCHAETE INDIV.		193	220	256	223.0	224.5	193	256	31.6	18.2	71.1	669
	TOTAL POLYCHAETE SP.	5	4	4	5	4.3	4.5	4	5	0.6	0.3	1.3	13

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
48018	EAST MUGU LAGOON- C2 (X2)	1708	02/06/97	48

SPECIES	TAXA		NUMBER PER CORE			SUMMARY STATISTICS						
			rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Corophium insidiosum	Gammaridea		9	2	10	7.0	6.0	2	10	4.4	2.5	9.8	21
Grandidierella japonica	Gammaridea		0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Cooperella subdiaphana	Bivalvia		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Acteocina sp.	Gastropoda		58	40	31	43.0	44.5	31	58	13.7	7.9	30.9	129
Spiophanes bombyx	Polychaeta		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Capitella capitata	Polychaete		27	33	38	32.7	32.5	27	38	5.5	3.2	12.4	98
Eteone californica	Polychaete		2	4	1	2.3	2.5	1	4	1.5	0.9	3.4	7
Mediomastus ambiseta	Polychaete		0	4	2	2.0	2.0	0	4	2.0	1.2	4.5	6
Mediomastus sp(p)	Polychaete		2	5	4	3.7	3.5	2	5	1.5	0.9	3.4	11
Streblospio benedicti	Polychaete		77	118	119	104.7	98.0	77	119	24.0	13.8	53.9	314
Nematoda	Nematoda		3	2	6	3.7	4.0	2	6	2.1	1.2	4.7	11
Nemertea	Nemertea		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Oligochaeta	Oligochaeta		59	516	281	285.3	287.5	59	516	228.5	131.9	514.2	856
Phoronida	Phoronida		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		239	726	495	486.7	482.5	239	726	243.6	140.6	548.1	1460
	TOTAL SPECIES	14	10	11	11	10.7	10.5	10	11	0.6	0.3	1.3	32
	TOTAL CRUST. INDIV.		9	2	12	7.7	7.0	2	12	5.1	3.0	11.5	23
	TOTAL CRUST. SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	GAMMARID INDIV.		9	2	12	7.7	7.0	2	12	5.1	3.0	11.5	23
	GAMMARID SP.	2	1	1	2	1.3	1.5	1	2	0.6	0.3	1.3	4
	OTHER CRUSTACEAN INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	OTHER CRUSTACEAN SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		58	41	31	43.3	44.5	31	58	13.7	7.9	30.7	130
	TOTAL MOLLUSC SP.	2	1	2	1	1.3	1.5	1	2	0.6	0.3	1.3	4
	TOTAL POLYCHAETE INDIV.		108	164	165	145.7	136.5	108	165	32.6	18.8	73.4	437
	TOTAL POLYCHAETE SP.	6	4	5	6	5.0	5.0	4	6	1.0	0.6	2.3	15

Benthic Community Data

STANUM	STATION	IDORG	DATE	LEG
49004	KAISER INTL.- BERTH 49	1793	08/21/97	54

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amphideutopus oculatus	Gammaridea	4	3	11	6.0	7.0	3	11	4.4	2.5	9.8	18
Listriella melanica	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Paramicrodentopus schmitti	Gammaridea	4	5	10	6.3	7.0	4	10	3.2	1.9	7.2	19
Photis sp.	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Synchelidium sp.	Gammaridea	5	0	2	2.3	2.5	0	5	2.5	1.5	5.7	7
Bathyleberis sp.	Ostracoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Euphilomedes carcharodonta	Ostracoda	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Parasterope sp	Ostracoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Theora fragilis	Bivalvia	14	16	12	14.0	14.0	12	16	2.0	1.2	4.5	42
Philine sp.	Gastropoda	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Rictaxis sp.	Gastropoda	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Aphelochaeta monilaris	Polychaete	6	3	2	3.7	4.0	2	6	2.1	1.2	4.7	11
Aphelochaeta sp(p)	Polychaete	3	1	1	1.7	2.0	1	3	1.2	0.7	2.6	5
Aricidea catherinae	Polychaete	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Chaetozone corona	Polychaete	1	0	39	13.3	19.5	0	39	22.2	12.8	50.0	40
Cossura candida	Polychaete	23	31	1	18.3	16.0	1	31	15.5	9.0	35.0	55
Dorvillea longicornis	Polychaete	0	0	9	3.0	4.5	0	9	5.2	3.0	11.7	9
Euchone limnicola	Polychaete	18	3	0	7.0	9.0	0	18	9.6	5.6	21.7	21
Eunice americana	Polychaete	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
Eunicidae, unident.	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Glycera americana	Polychaete	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Laonice cirrata	Polychaete	1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Leitoscoloplos pugettensis	Polychaete	1	2	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Mediomastus ambiseta	Polychaete	3	4	2	3.0	3.0	2	4	1.0	0.6	2.3	9
Mediomastus sp(p)	Polychaete	0	3	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Melinna oculata	Polychaete	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Monticellina cryptica	Polychaete	0	0	12	4.0	6.0	0	12	6.9	4.0	15.6	12
Monticellina siblina	Polychaete	23	26	8	19.0	17.0	8	26	9.6	5.6	21.7	57
Nephtys caecoides	Polychaete	0	0	2	0.7	1.0	0	2	1.2	0.7	2.6	2
Nephtys cornuta	Polychaete	5	5	1	3.7	3.0	1	5	2.3	1.3	5.2	11
Paraprionospio pinnata	Polychaete	2	1	3	2.0	2.0	1	3	1.0	0.6	2.3	6
Pista fasciata	Polychaete	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
Prionospio heterobranchia	Polychaete	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3

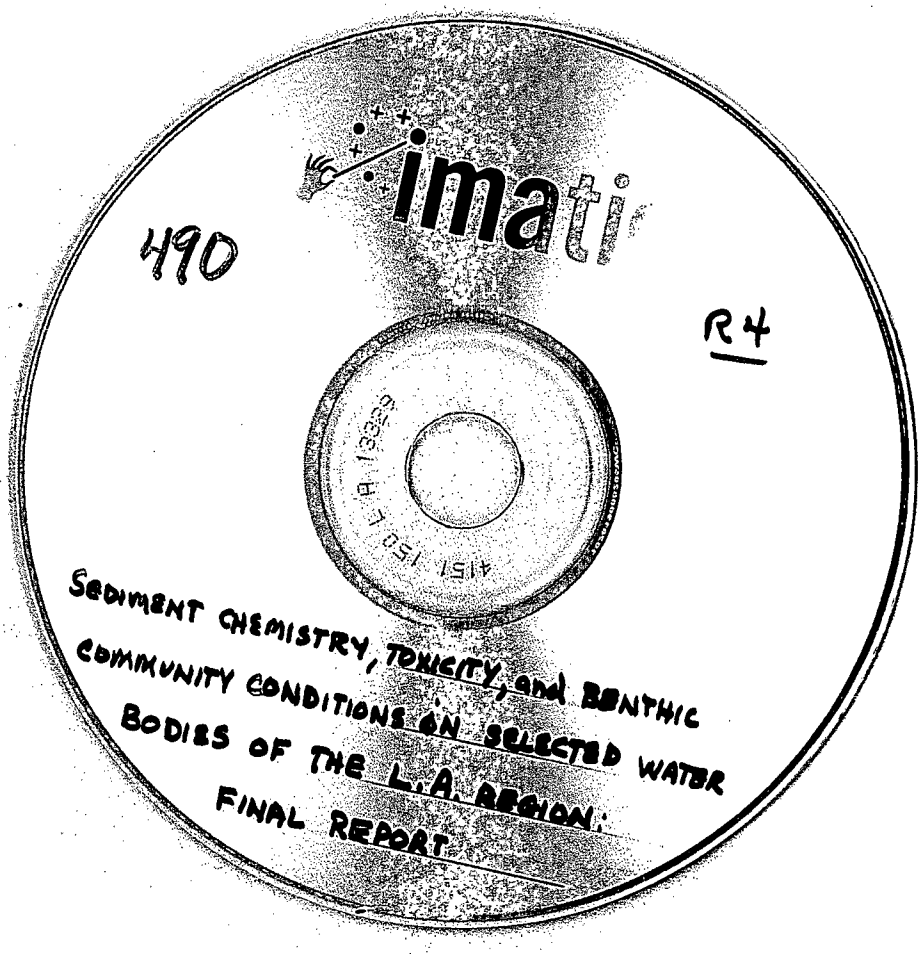
Prionospio lighti	Polychaete		0	0	3	1.0	1.5	0	3	1.7	1.0	3.9	3
Pseudopolydora paucibranchiata	Polychaete		3	0	1	1.3	1.5	0	3	1.5	0.9	3.4	4
Scoletoma tetraura	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Spiophanes duplex	Polychaete		4	4	0	2.7	2.0	0	4	2.3	1.3	5.2	8
Enteropneust	Enteropneusta		2	0	2	1.3	1.0	0	2	1.2	0.7	2.6	4
Nemertea	Nemertea		0	3	2	1.7	1.5	0	3	1.5	0.9	3.4	5
Oligochaeta	Oligochaeta		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
Phoronida	Phoronida		1	1	0	0.7	0.5	0	1	0.6	0.3	1.3	2
	TOTAL INDIVIDUALS		127	118	136	127.0	127.0	118	136	9.0	5.2	20.3	381
	TOTAL SPECIES	42	23	23	31	25.7	27.0	23	31	4.6	2.7	10.4	77
	TOTAL CRUST. INDIV.		14	10	27	17.0	18.5	10	27	8.9	5.1	20.0	51
	TOTAL CRUST. SP.	8	4	4	7	5.0	5.5	4	7	1.7	1.0	3.9	15
	GAMMARID INDIV.		13	8	25	15.3	16.5	8	25	8.7	5.0	19.7	46
	GAMMARID SP.	5	3	2	5	3.3	3.5	2	5	1.5	0.9	3.4	10
	OTHER CRUSTACEAN INDIV.		1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	OTHER CRUSTACEAN SP.	3	1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL MOLLUSC INDIV.		15	17	14	15.3	15.5	14	17	1.5	0.9	3.4	46
	TOTAL MOLLUSC SP.	4	2	2	3	2.3	2.5	2	3	0.6	0.3	1.3	7
	TOTAL POLYCHAETE INDIV.		94	86	91	90.3	90.0	86	94	4.0	2.3	9.1	271
	TOTAL POLYCHAETE SP.	26	14	14	19	15.7	16.5	14	19	2.9	1.7	6.5	47

STANUM	STATION	IDORG	DATE	LEG
49005	KAISER INTL.- BERTH 48	1794	08/21/97	54

SPECIES	TAXA	NUMBER PER CORE			SUMMARY STATISTICS						
		rep 1	rep 2	rep 3	mean	median	min	max	St. Dev.	S.E.	95%CL	sum
Amphideutopus oculatus	Gammaridea	0	2	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Corophium heteroceratum	Gammaridea	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Grandidierella japonica	Gammaridea	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Podocerus falcatus	Gammaridea	1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Gnathia sp.	Isopoda	0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Euphilomedes carcharodonta	Ostracoda	1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Parasterope sp	Ostracoda	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Macoma sp.	Bivalvia	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Mysella sp.	Bivalvia	0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Nuculana taphria	Bivalvia	0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Parvilucina tenuisculpta	Bivalvia	2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3

Theora fragilis	Bivalvia		7	12	23	14.0	15.0	7	23	8.2	4.7	18.4	42
Acteocina sp.	Gastropoda		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Philine sp.	Gastropoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Cadulus sp.	Scaphapoda		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampharete labrops	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Ampharetidae, unident.(juv)	Polychaete		1	0	7	2.7	3.5	0	7	3.8	2.2	8.5	8
Aphelochaeta glandaria	Polychaete		3	4	10	5.7	6.5	3	10	3.8	2.2	8.5	17
Aphelochaeta monilaris	Polychaete		7	6	1	4.7	4.0	1	7	3.2	1.9	7.2	14
Aricidea catherinae	Polychaete		0	2	0	0.7	1.0	0	2	1.2	0.7	2.6	2
Aricidea horikoshii	Polychaete		1	0	29	10.0	14.5	0	29	16.5	9.5	37.0	30
Cossura candida	Polychaete		53	41	0	31.3	26.5	0	53	27.8	16.0	62.5	94
Diopatra spp. juv.	Polychaete		1	0	4	1.7	2.0	0	4	2.1	1.2	4.7	5
Euchone limnicola	Polychaete		9	3	0	4.0	4.5	0	9	4.6	2.6	10.3	12
Euclymeninae, unident.	Polychaete		0	1	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Glycera americana	Polychaete		0	0	1	0.3	0.5	0	1	0.6	0.3	1.3	1
Laonice cirrata	Polychaete		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
Leitoscoloplos pugettensis	Polychaete		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Mediomastus californiensis	Polychaete		1	0	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Mediomastus sp(p)	Polychaete		2	4	1	2.3	2.5	1	4	1.5	0.9	3.4	7
Monticellina cryptica	Polychaete		3	1	0	1.3	1.5	0	3	1.5	0.9	3.4	4
Nephtys caecoides	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Nephtys comuta	Polychaete		3	0	0	1.0	1.5	0	3	1.7	1.0	3.9	3
Paraprionospio pinnata	Polychaete		2	0	1	1.0	1.0	0	2	1.0	0.6	2.3	3
Pholoe glabra	Polychaete		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
Prionospio lighti	Polychaete		1	0	1	0.7	0.5	0	1	0.6	0.3	1.3	2
Pseudopolydora paucibranchiata	Polychaete		1	1	1	1.0	1.0	1	1	0.0	0.0	0.0	3
Scoletoma tetraura	Polychaete		2	1	0	1.0	1.0	0	2	1.0	0.6	2.3	3
Spiophanes duplex	Polychaete		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
Phoronida	Phoronida		0	1	0	0.3	0.5	0	1	0.6	0.3	1.3	1
	TOTAL INDIVIDUALS		105	87	89	93.7	96.0	87	105	9.9	5.7	22.2	281
	TOTAL SPECIES	40	21	21	21	21.0	21.0	21	21	0.0	0.0	0.0	63
	TOTAL CRUST. INDIV.		2	6	4	4.0	4.0	2	6	2.0	1.2	4.5	12
	TOTAL CRUST. SP.	7	2	5	4	3.7	3.5	2	5	1.5	0.9	3.4	11
	GAMMARID INDIV.		1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
	GAMMARID SP.	4	1	2	2	1.7	1.5	1	2	0.6	0.3	1.3	5
	OTHER CRUSTACEAN INDIV.		1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
	OTHER CRUSTACEAN SP.	3	1	3	2	2.0	2.0	1	3	1.0	0.6	2.3	6
	TOTAL ECHINODERM INDIV.		0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0
	TOTAL ECHINODERM SP.	0	0	0	0	0.0	0.0	0	0	0.0	0.0	0.0	0

TOTAL MOLLUSC INDIV.		9	14	28	17.0	18.5	9	28	9.8	5.7	22.2	51
TOTAL MOLLUSC SP.	8	2	3	6	3.7	4.0	2	6	2.1	1.2	4.7	11
TOTAL POLYCHAETE INDIV.		94	66	57	72.3	75.5	57	94	19.3	11.1	43.4	217
TOTAL POLYCHAETE SP.	24	17	12	11	13.3	14.0	11	17	3.2	1.9	7.2	40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SEDIMENT CHEMISTRY, TOXICITY, and BENTHIC
COMMUNITY CONDITIONS ON SELECTED WATER
BODIES OF THE L.A. REGION:
FINAL REPORT