

CONTINUED OPERATION OF THE PUENTE HILLS LANDFILL

**VOLUME V: TECHNICAL APPENDIX J (2 OF 2) FOR THE
DRAFT ENVIRONMENTAL IMPACT REPORT**

State Clearinghouse Number 2000041066



Prepared by:

Solid Waste Management Department
Sanitation Districts of Los Angeles County
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June 2001



Printed on recycled paper

Cover photo, Typical mature landscaped landfill surface along the entrance road at the Puente Hills Landfill. Groundcover in this area is primarily red fescue. Shrubs and trees present include bottlebrush, bushy yate, California pepper, cypress hybrid, various Eucalyptus species, Crape Myrtle, and a yucca commonly referred to as Our Lord's Candle.

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1996 Puente Hills Landfill Annual Water Quality Monitoring Report

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1997 Puente Hills Landfill Annual Water Quality Monitoring Report (with 5-year trend graphs)

1998 Puente Hills Landfill Annual Water Quality Monitoring Report

1999 Puente Hills Landfill Annual Water Quality Monitoring Report

1997 Annual Water Quality Monitoring Report



COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

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CHARLES W. CARRY
Chief Engineer and General Manager

May 18, 1998
File No. 31R-102.10B

California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA. 91754-2156
Attn: Data and Information Management Unit

Puente Hills Landfill
1997 Water Quality Monitoring Annual Report
Order Nos. 93-062, 90-046, and 93-070
File No. 57-220, C.I. Nos. 2294 and 7336

Enclosed please find *1997 Water Quality Monitoring Annual Report for the Puente Hills Landfill*.
If you have any questions regarding this report, please contact Dr. Chi-Chung Tang of this office.

I certify that all wastes deposited at the Puente Hills Landfill during 1997 were deposited in compliance with the requirements of the Los Angeles Regional Water Quality Control Board (RWQCB), and that no wastes were deposited outside of the boundaries of the waste management area as specified in the RWQCB's requirements. In addition, I certify that the Sanitation Districts have complied with all monitoring and reporting requirements which apply to the Puente Hills Landfill, pursuant to Order Nos. 93-062, 90-046, and 93-070; and Monitoring and Reporting Programs 2294 and 7336. All laboratory analyses performed as part of the required water quality monitoring program were conducted at laboratories certified for such analyses, and in accordance with current guideline procedures contained in SW-846 and approved by USEPA.

I declare, under penalty of perjury, that to the best of my knowledge the foregoing statements are true, complete, and correct. Executed on the 18th day of MAY, 1998, at Whittier, California.

Very truly yours,

Charles W. Carry

Thomas J. Le Brun
Division Engineer
Solid Waste Management Department

TJL:CJH:leh

**1997 WATER QUALITY MONITORING ANNUAL REPORT
FOR THE PUENTE HILLS LANDFILL**

PREPARED BY

**COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
1955 WORKMAN MILL ROAD
WHITTIER, CALIFORNIA**

MAY, 1998

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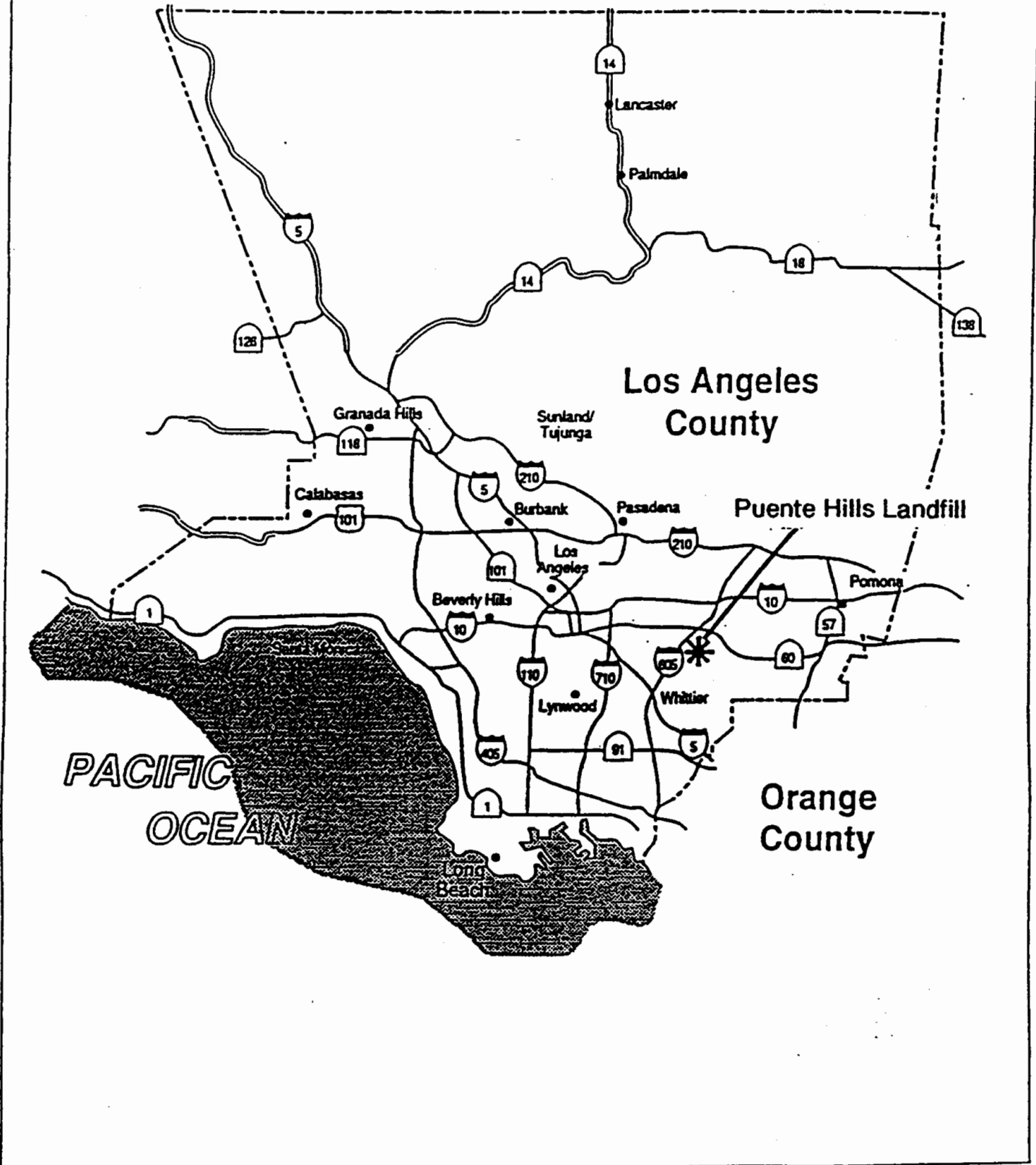
1997 WATER QUALITY MONITORING ANNUAL REPORT
FOR THE PUENTE HILLS LANDFILL

1.0 INTRODUCTION

The County Sanitation Districts of Los Angeles County (Sanitation Districts) own and operate the Puente Hills Landfill as a Class III municipal solid waste disposal facility. The site is located in unincorporated Los Angeles County, southeast of the intersection of the Pomona (SR-60) and San Gabriel River (I-605) freeways, as depicted in Exhibit 1. The site address is 2800 Workman Mill Road, Whittier, California. As shown in Exhibit 2, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons.

The Sanitation Districts operate the Puente Hills Landfill in accordance with permits, Waste Discharge Requirements (WDRs) and Monitoring and Reporting Programs (MRPs), issued by the Regional Water Quality Control Board, Los Angeles Region (RWQCB). The Puente Hills Landfill is currently subject to the following WDRs: (1) Order No. 93-062 which applies to all active municipal solid waste disposal sites in the Los Angeles Region; (2) Order Nos. 90-046 and 91-035 which apply to the Main Canyon and Canyon 9 of the Puente Hills Landfill; and (3) Order Nos. 93-070 and 94-103 which apply to the Eastern Canyons expansion area of the Puente Hills Landfill. Groundwater monitoring requirements are specified in MRP No. 2294 for the Main Canyon and Canyon 9, most recently revised on December 30, 1996; and MRP No. 7336 for the Eastern Canyon expansion area issued on November 1, 1993.


This annual report is prepared to comply with Section 13B(2) of RWQCB Order No. 93-062. Included in this report is site information, waste disposal information, facility changes, all water quality monitoring data collected in 1997 and a discussion of these data. The report also includes a graphical presentation of the groundwater quality data collected during the period from 1993 to 1997.



Site Location

EXHIBIT 1



LEGEND
 Property Boundary

Site Topography and
 Identified Site Areas

EXHIBIT 2



2.0 SITE INFORMATION

2.1 GENERAL INFORMATION

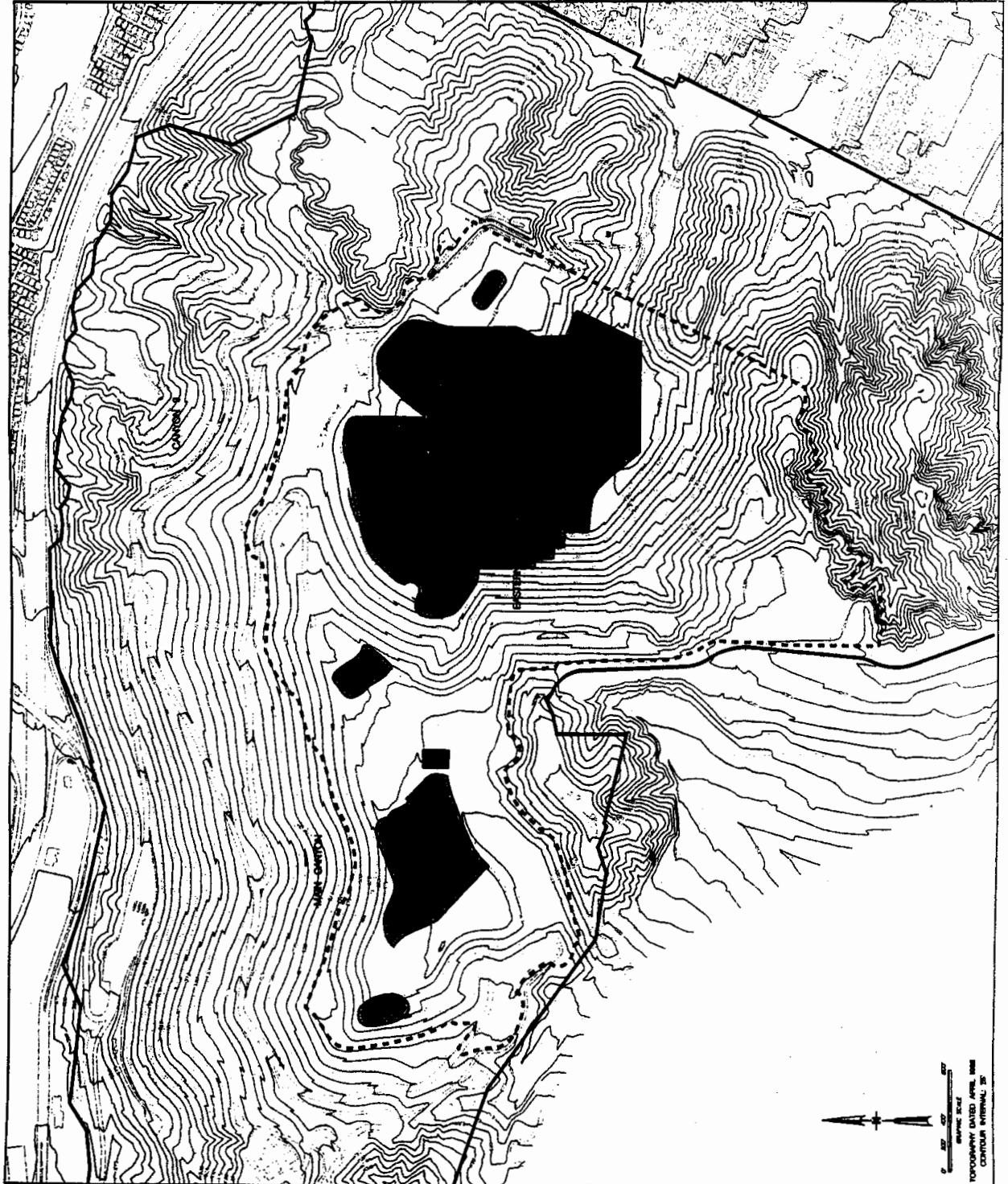
The Puente Hills Landfill is located immediately east of the San Gabriel River Freeway and immediately south of the Pomona Freeway on Workman Mill Road (refer to Exhibit 1). The principal land acquisition for what is now known as the Puente Hills Landfill was completed in 1970 with the Sanitation Districts' purchase of a 1,214 acre parcel of the Pellissier Ranch. This portion of the Pellissier Ranch included a landfill operation that began in 1957 by the San Jose Development Company. At the time of the 1970 purchase by the Sanitation Districts, approximately six million tons of waste had been placed on the property. Since June 1970, the Sanitation Districts have remained the sole owner and operator of the Puente Hills Landfill. In May 1981, an additional 151 acres of land along the north side of the site was purchased bringing the site acreage to its present 1,365 acres. The Main Canyon is the location of the initial refuse operations which began in 1957. Refuse operations for Canyon 9 began in 1990. In July 1995, refuse operations were expanded into the Eastern Canyons.

The placement of refuse at the site is pursuant to the Conditional Use Permit (CUP) issued by the Los Angeles County Regional Planning. Exhibit 3 shows the current permitted landfill operation boundaries under CUP 92-250(4) and the 1997 disposal areas. The Puente Hills Landfill received approximately 3.7 million tons of solid waste in 1997. The 1997 average daily disposal rate was approximately 11,920 tons. Table 1 summarizes the monthly solid waste disposal rate. As of December 31, 1997, approximately 79.0 million tons of refuse have been deposited since the Sanitation Districts began landfilling in 1970. The Sanitation Districts estimate that as of December 31, 1997, approximately 22.6 million tons of capacity remain at the Puente Hills Landfill under the current CUP. CUP 92-250(4) expires on November 1, 2003, at which time approximately 10 years of additional capacity will remain.

2.2 GEOLOGY AND HYDROGEOLOGY

2.2.1 Regional Hydrogeology

The Puente Hills Landfill is located on the northern tip of the western Puente Hills, which are part of the Santa Ana Mountains (see Exhibit 4). Hill slopes within the Puente Hills are usually rounded and gently sloping except where cut by canyons, where steep sided slopes commonly form. The western Puente Hills are bounded on the east and northeast by the San Jose Creek floodplain, on the north and northwest by the San Gabriel River floodplain, and on the southwest by interfingering alluvial fans forming from the numerous west to southwest flowing creeks. The rocks or geologic units of the western Puente Hills area, which include the Puente Hills Landfill, are considered non-water bearing by the Department of Water Resources because they do not contain or store groundwater in economically recoverable quantities. The western Puente Hills are a major barrier to groundwater flow and separate the Main San Gabriel Basin (north) from the Central Basin (south).



LEGEND




-  PROPERTY LINE
-  PERMITTED LANDFILL OPERATIONS LIMIT
-  1997 DISPOSAL AREAS

EXHIBIT 3

PERMITTED FILL AND
1997 DISPOSAL AREAS

PUEBLO HILLS LANDFILL
SANITATION DISTRICTS

TABLE 1
1997 SOLID WASTE DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Nonhazardous Waste (Tons)	Inert Waste (Tons)	Total (Tons)
January	317,473	188	317,661
February	286,154	118	286,272
March	306,460	53	306,513
April	313,815	66	313,881
May	316,170	259	316,429
June	300,284	249	300,533
July	317,820	130	317,950
August	306,660	94	306,754
September	307,982	60	308,042
October	327,191	75	327,266
November	283,211	39	283,250
December	309,528	69	309,597
Total	3,692,748	1,400	3,694,148

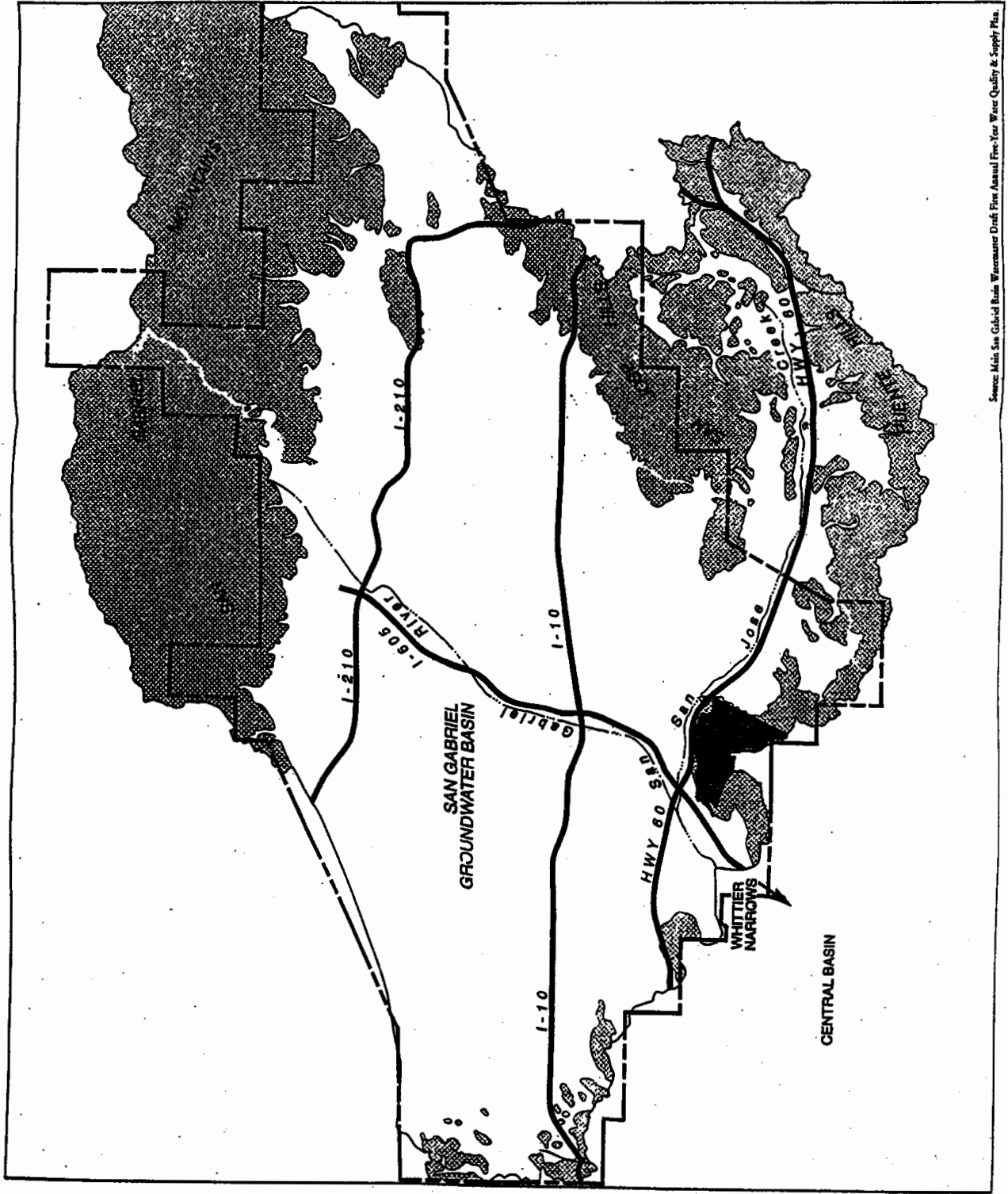
Note: Nonhazardous waste includes dewatered biosolids and water treatment sludge.

1:50,000

-  Groundwater Basin Boundary
-  Whittier Basin Boundary
-  Freeway
-  Nonwater-bearing Material
-  Potable Water Levels

General Basin Geology

EXHIBIT 4



Source: Main San Gabriel Basin Watermaster Draft Five Annual Fee-Year Water Quality & Supply Plan.

The Main San Gabriel Basin is an important groundwater aquifer in the Los Angeles County. It consists of very permeable sands and gravel originating from the San Gabriel Mountains which are capable of transmitting groundwater at high rates. Recharge to the Main San Gabriel Basin occurs by percolation of rainfall and stream flow, principally from the San Gabriel River, Rio Hondo, and San Jose Creek. Artificial recharge also takes place in the Main San Gabriel Basin. Main San Gabriel Basin discharge occurs by groundwater pumping and outflow at the Whittier Narrows area.

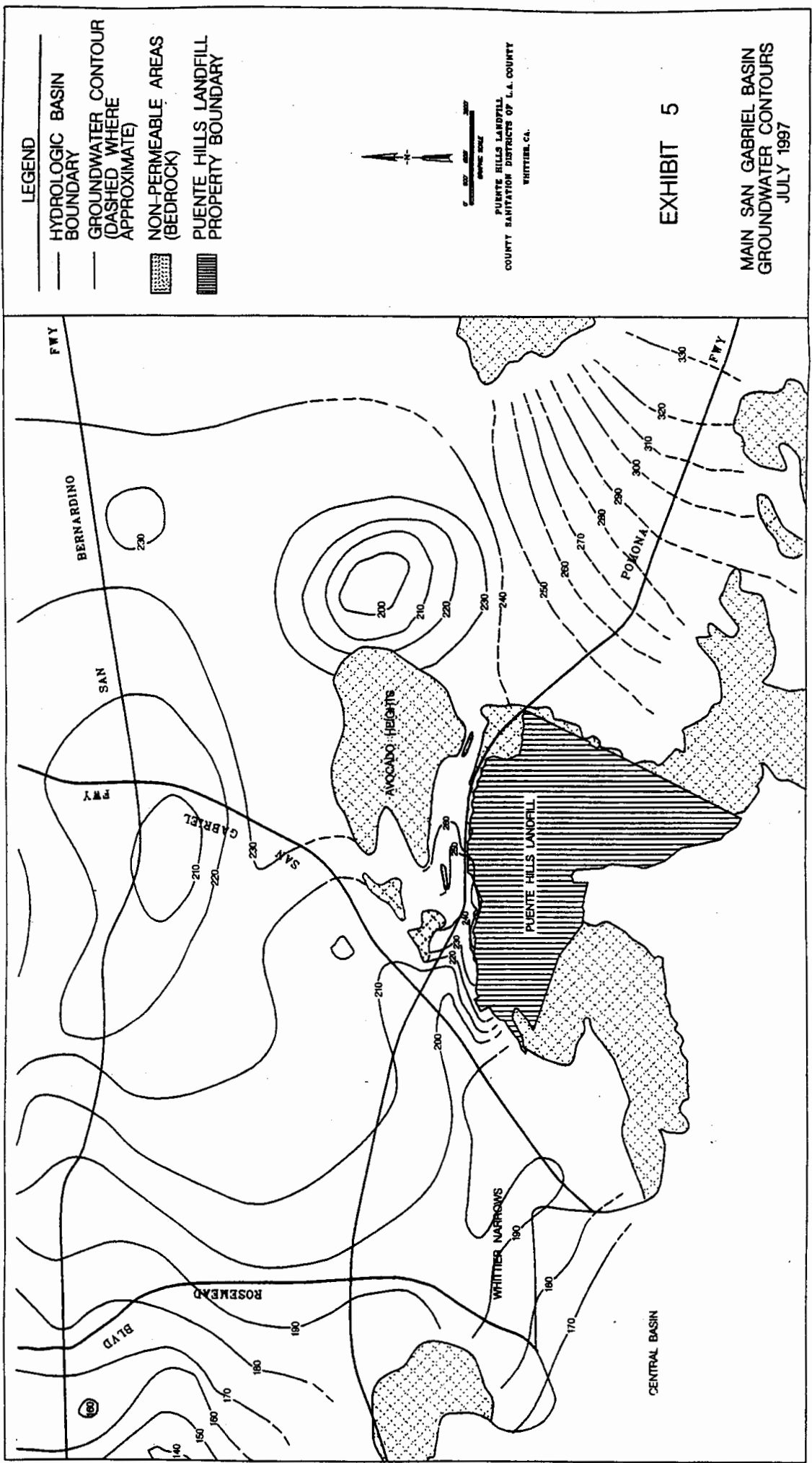
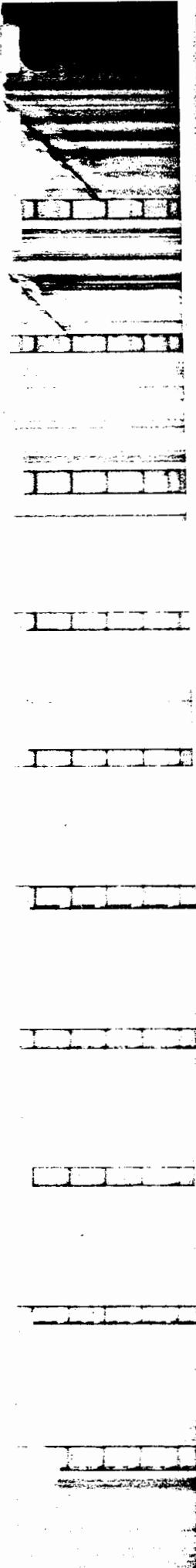
In addition to the Main San Gabriel Basin, the Central Basin aquifer also serves as a source of drinking water for a large portion of Los Angeles County. Groundwater contained within these two regional basins is physically separated by the Puente Hills, except in the western area where the Puente Hills end and the basins are connected by the Whittier Narrows gap. It is through the Whittier Narrows gap and San Gabriel River that the groundwater from the Main San Gabriel Basin drains into the Central Basin. Groundwater elevation contours in these adjacent groundwater basins are presented in Exhibit 5. As illustrated in Exhibit 5, the groundwater in the Main San Gabriel Basin near the landfill site flows in a westerly direction around the bedrock of the Puente Hills and then flows southwesterly towards Whittier Narrows. This flow eventually joins the southerly flow along the San Gabriel River.

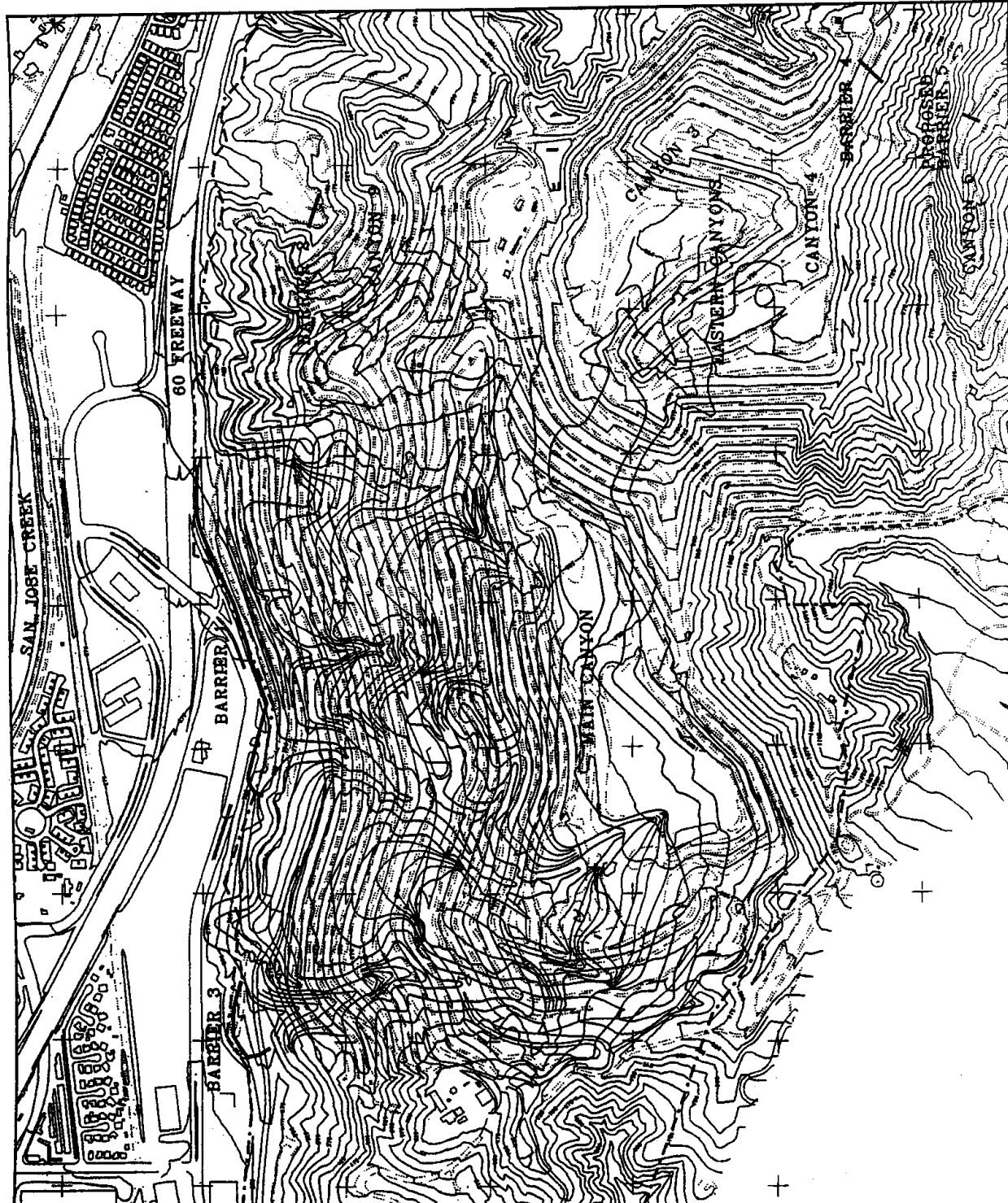
2.2.2 Site Geology

As described above, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons. Prior to landfilling activities, several canyons, oriented toward the north, existed in the Main Canyon and Canyon 9 areas as shown in Exhibit 6. Similarly, three east-west and one north-south trending ridgelines, separated by three east trending canyons (Canyons 3 and 4, Canyon 5, and Canyon 6) existed in the Eastern Canyons area prior to landfilling as shown in Exhibit 7.

The landfill site is underlain by a thick sequence of north-northwest dipping sedimentary marine bedrock units. Exhibits 8 and 9 show the general geologic conditions of the entire site and Eastern Canyons area, respectively. Unconsolidated surficial deposits which can be found overlying bedrock units at the site include artificial fill, alluvium, colluvium, and landslides which typically occur on north facing slopes due to the predominant north dipping bedrock. The distribution of surficial deposits has been modified as a result of grading operations associated with landfill development. Within the Eastern Canyons and Canyon 9 areas, surficial deposits and underlying bedrock have been or are being excavated to provide a suitable foundation for the construction of the underdrain and composite liner containment systems. Narrow alluvial channels outside the landfill's footprint remain generally unaltered.

From oldest to youngest, the bedrock units found at the site consist of the Sycamore Canyon member of the Puente Formation, and the Repetto and Pico members of the Fernando Formation. The Sycamore Canyon member outcrops in the southern portion of the Eastern Canyons and includes three subunits which are designated as: lower conglomerate (Tsc₁), siltstone and claystone with





LEGEND

PROPERTY LINE

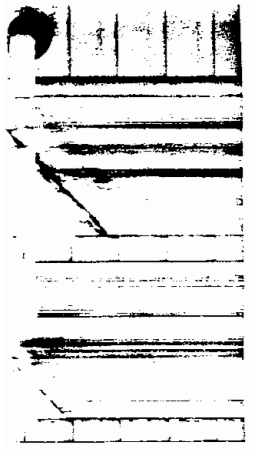
GRAPHIC SCALE
 TOPOGRAPHY DATE MAY 1988

EXHIBIT 6

MAIN CANYON AND CANYON 9

TOPOGRAPHY PRIOR TO EXCAVATION

PUEBLO HILLS LANDFILL
SANITATION DISTRICTS



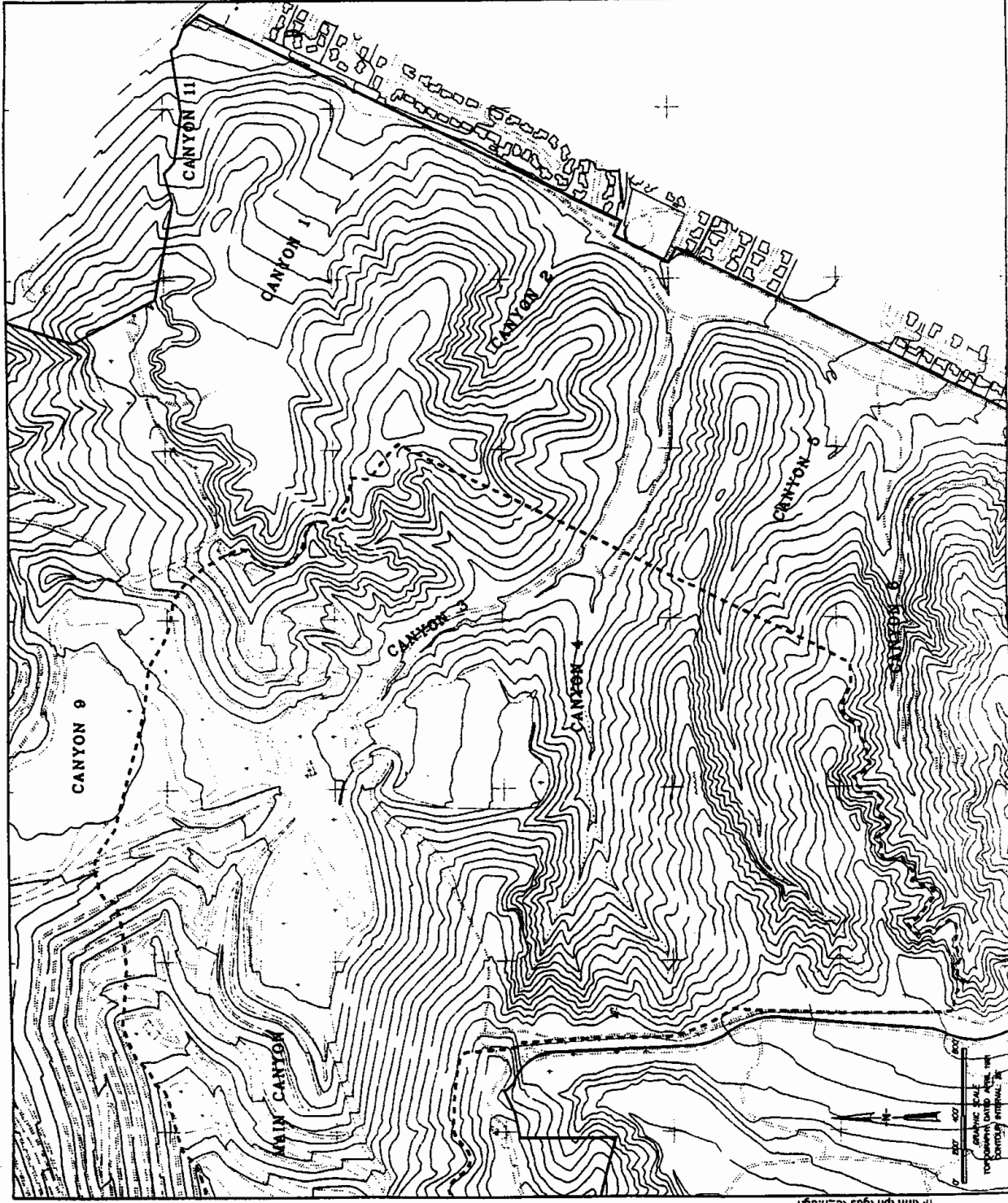
LEGEND

- PROPERTY LINE
- PERMITTED LANDFILL OPERATIONS AREA

EXHIBIT 7

EASTERN CANYONS TOPOGRAPHY PRIOR TO EXCAVATION

PUEBLO HILLS LANDFILL SANITATION DISTRICTS



LEGEND

af	Artificial Fill: pavement, structure
Qm	Mass Movement Deposits: colluvium, talus, slump
Qal	Stream Alluvium
Qt	Tertiary: Full or Older Alluvium
Tr	Four Members, Fossiliferous Formations: - predominantly conglomerate (some sandstone); - predominantly sandstone (some conglomerate); - alluvium and fine-grained sandstone; and - sandstone and conglomerate, and some sandstone
Tr	Recent Members, Fossiliferous Formations: - fine to medium grained sandstone, some alluvium; - predominantly conglomerate, some sandstone; - (1, 2, units older to younger respectively); alluvium and - fine grained sandstone
Ts	Synthetic Canyon Members, Pliocene Formations: - conglomerate with thin lenses of sandstone & fine - to coarse grained sandstone with thin lenses of conglomerate - and alluvial sandstone and conglomerate; - (1, 2, units older to younger respectively)
	Surficial Deposit Contact
	Bedrock Contact, dashed where inferred or questionable
	Fault Contact, dashed where inferred or questionable denoted where concealed by surficial deposits, U and D appear relative dipplacement up and down
	Whittier-Highgate Fault Zone

Quaternary

Pliocene

Pleistocene

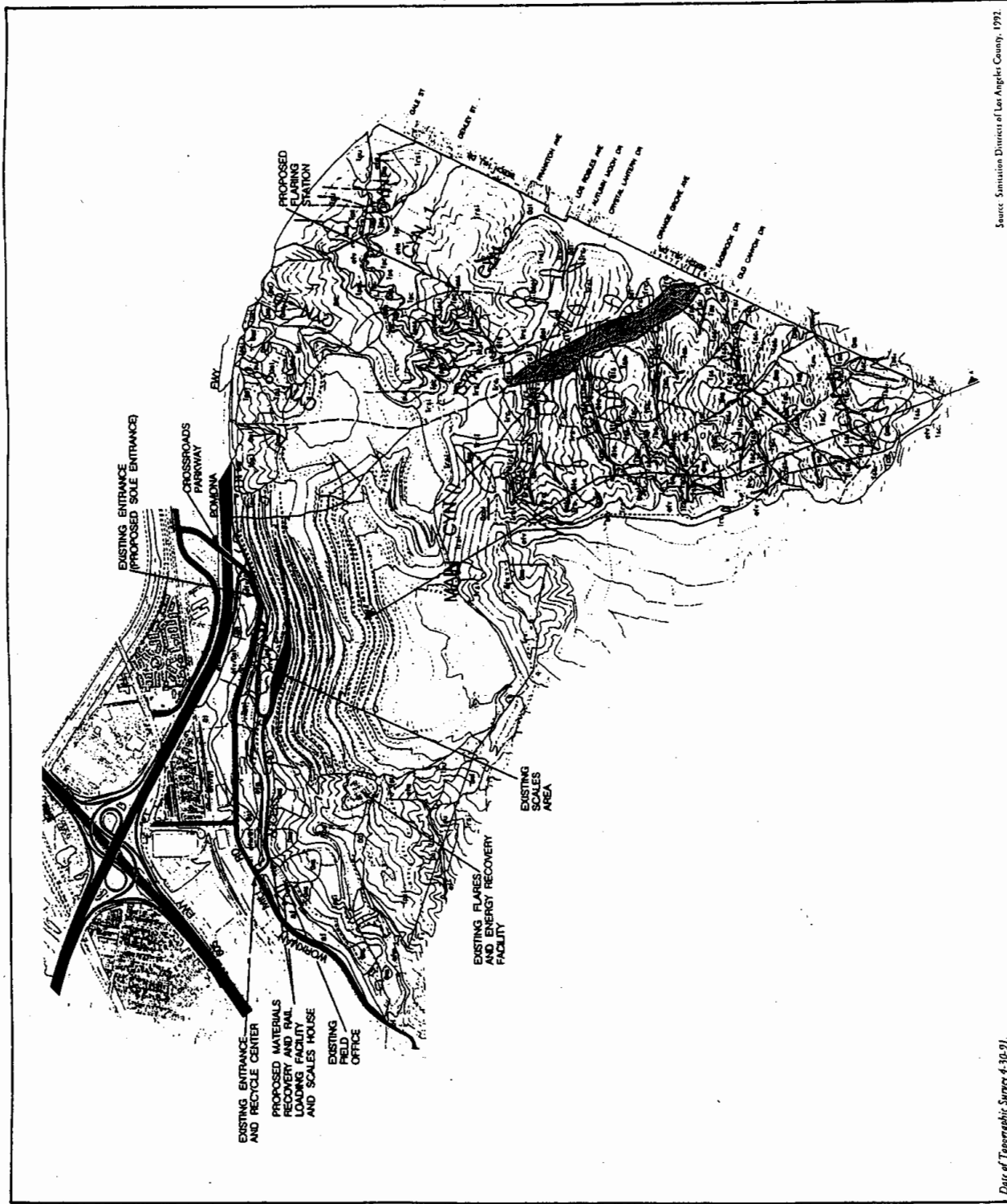
Holocene

Upper

Miocene

Site Geologic Map

EXHIBIT 8





minor sandstone interbeds (Tss), and upper conglomerate (Tsc₂). The Repetto member outcrops in the central portion of the Eastern Canyons and underlies the southern portions of Canyon 9 and the Main Canyon. The Repetto member includes three subunits: a lower conglomerate unit (Trc₁), a siltstone unit (Trsi), and an upper conglomerate unit (Trc₂). Within the Trsi subunit, there are two small subunits (Trss₁ and Trss₂) that have distinct sandstone beds. The Pico member occurs at the surface in the northern portion of the site and underlies landfill material in the northern portion of the Main Canyon and Canyon 9. A small block of Pico member sandstone has also been mapped in the central portion of the Eastern Canyons area within the Whittier Heights fault zone. The Pico member in the Eastern Canyons area, where exposed, has been mapped as an undifferentiated subunit. The Pico member is made up of a conglomerate unit (Tpc), a sandstone unit (Tps), an undifferentiated conglomerate, sandstone, and siltstone unit (Tpu), and a siltstone unit (Tpsi).

Bedrock units have been displaced by the Whittier Heights fault zone that transects the eastern portion of the property and is the major structure feature of the site. The northwest-trending Whittier Heights Fault is a normal fault with the east side downthrown. Maximum vertical displacement on the fault is 3,800 feet. There has been no recent movement (within the last 11,000 years) on the fault within the site boundary. Secondary and apparently less continuous faulting is found elsewhere throughout the area on similar, generally north-south trends. As-built mapping in the northern portion of the Eastern Canyons demonstrates that the main strand of the Whittier Heights zone is a narrow trace of slickensided clay gouge where Repetto member siltstone is on both sides of the fault. This trace widens southward into several splays in the ridge between Canyons 4 and 5, where it apparently incorporates slivers of the Pico member of the Fernando Formation between juxtaposed upper and lower portions of the Repetto member of the Fernando Formation. Investigations performed by the Sanitation Districts' consultants indicate that portions of the Whittier Heights fault zone may impede groundwater flow in the expansion area.

2.2.3 Site Hydrogeology

Groundwater flow regimes at the site have been characterized by Levine Fricke (1994), Earth Tech (1995), ENVIRON Corporation (1996), IT Corporation (1996), and Dames & Moore (1997). Results obtained from these studies have been used to update the hydrogeologic description of the site previously contained in Geotechnical Consultants (1987) and LeRoy Crandall (1981). It should be recognized that groundwater encountered at the site does not constitute an aquifer in the traditional sense due to relatively low hydraulic conductivities. The geologic formations present at the site are more accurately classified as aquitards in relationship to the San Gabriel Groundwater Basin. However, the term "aquifer" is used in the following discussion according to the terminology used in Title 27, California Code of Regulations (27 CCR) and Title 40, Code of Federal Regulations (40 CFR), Part 258 (Subtitle D).

2.2.3.1 Main Canyon and Canyon 9

Alluvial materials that formed in the original five canyon bottoms in the Main Canyon and Canyon 9 areas have the potential for groundwater outflow (see Exhibit 6 for topography prior to excavation). The Sanitation Districts have installed three subsurface cement-bentonite barriers downgradient of the landfill to control alluvial groundwater flow from these historic canyons. Barriers 1 and 3 have been installed along the north side of the Main Canyon. Although no significant alluvial groundwater occurs in the Canyon 9 area, Barrier 2 was installed to sever potential alluvial flow in the historic drainage in this area. Each barrier is equipped with groundwater extraction wells to remove water from behind the barrier. Exhibit 10 shows the location of Barriers 1, 2, and 3 and the extraction wells upgradient of each barrier.

A detailed discussion of the groundwater flow regimes in the Main Canyon and Canyon 9 is included in *Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill, Whittier California* (ENVIRON Corporation, July 1996). The following sections summarize the key findings of this report.

Barrier 1

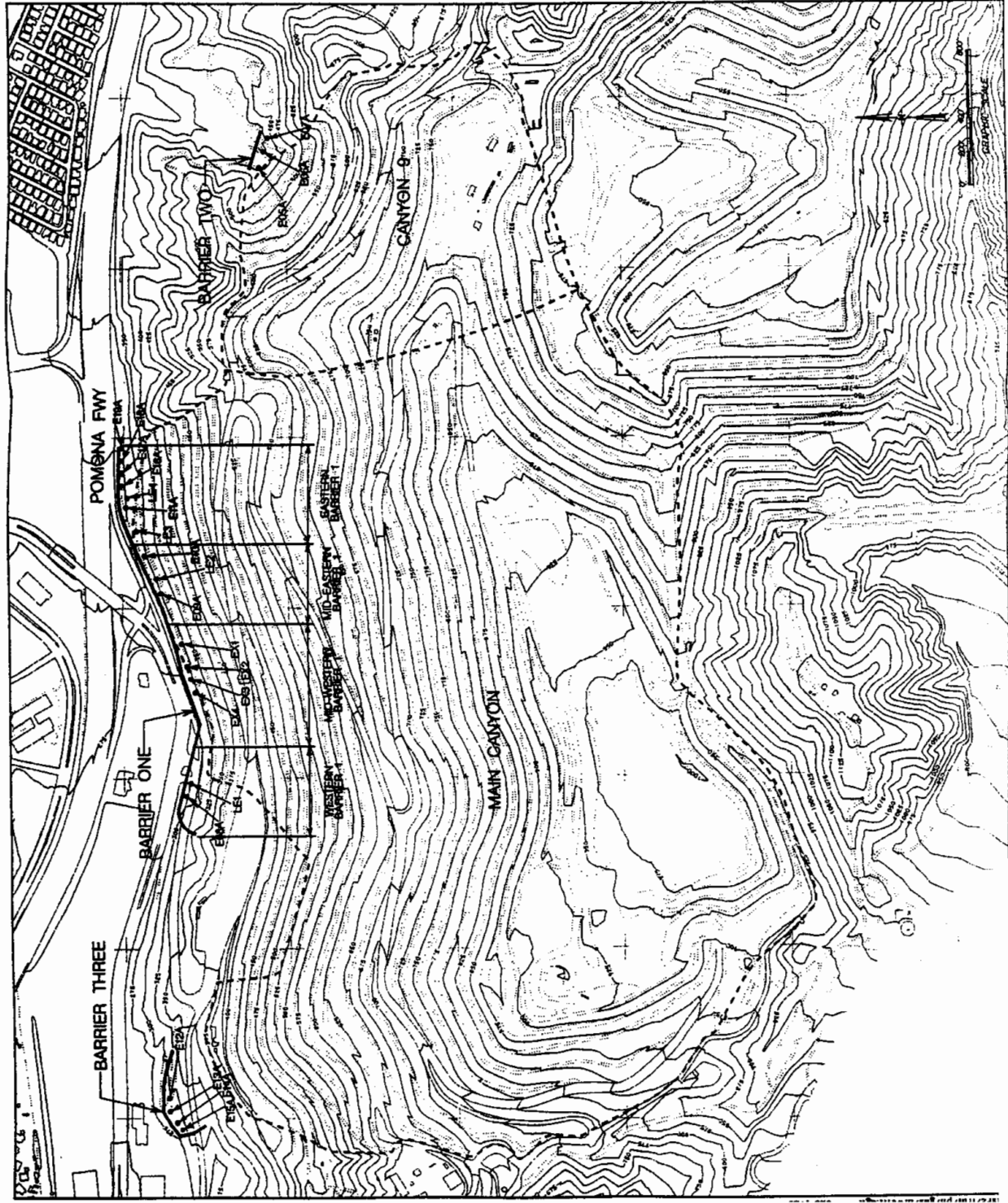
To simplify this hydrogeologic discussion, Barrier 1 has been divided into four sections. These sections are named western, mid-western, mid-eastern, and eastern portions and are approximately 700, 600, 550, and 550 feet in length, respectively (see Exhibit 10).

The uppermost aquifer in the western Barrier 1 area occurs under unconfined conditions in fill and weathered siltstone. It has a mean hydraulic conductivity of 6.3×10^{-4} cm/sec and average transmissivity of 493 gallons per day per foot (gpd/ft). The uppermost aquifer is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow in this area.

The uppermost aquifer in the mid-western Barrier 1 area is discontinuous, unconfined, and occurs in fill, alluvium and weathered siltstone. The uppermost aquifer is not productive and has an estimated transmissivity of less than approximately 67 gpd/ft. The uppermost aquifer is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow in this area.

The uppermost aquifer in the mid-eastern Barrier 1 area occurs in alluvium under unconfined conditions. The uppermost aquifer is not productive. It is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow in this area.

The uppermost aquifer in the eastern Barrier 1 occurs in sandstone and conglomerate units of the Pico Formation under either unconfined or semiconfined conditions. It is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow in this area. The hydraulic conductivity of the uppermost aquifer ranges from 3.9×10^{-4} to 1.8×10^{-3} cm/sec and the average transmissivity ranges from 857 to 2,097 gpd/ft.



LEGEND





-  EXISTING SUBSURFACE BARRIER
-  EXISTING EXTRACTION WELL
-  LIMIT OF CURRENT FILL AREA
-  MAIN CANYON, CANYON 9

EXHIBIT 10

**PUEBLO HILLS LANDFILL
MAIN CANYON & CANYON 9
EXISTING SUBSURFACE BARRIERS
AND EXTRACTION WELL SYSTEMS**

Barrier 2

This area is underlain by unconsolidated fill, alluvium, and Pico Formation siltstone, sandstone, and conglomerate. The uppermost aquifer occurs in sandstone and conglomeratic sandstone units under confined or semiconfined conditions. The uppermost aquifer has a mean hydraulic conductivity of 1.9×10^{-4} cm/sec and an average transmissivity of 60 gpd/ft. The uppermost aquifer is confined above and below by Pico Formation siltstone, which acts as an aquitard to groundwater flow in this area. The Pico Formation siltstone has a hydraulic conductivity less than 4.9×10^{-6} cm/sec.

Barrier 3

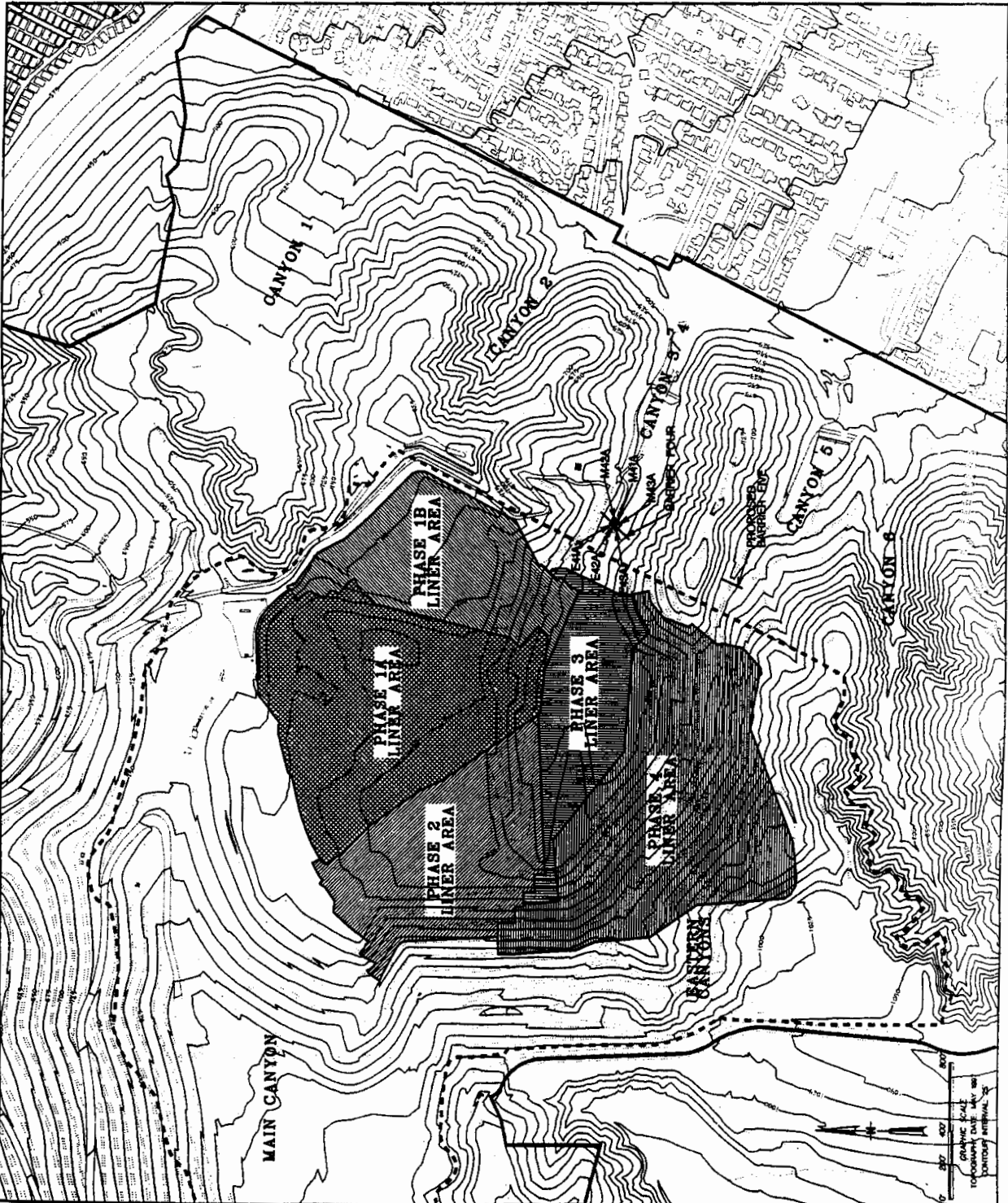
This area is underlain by unconsolidated fill, alluvium, and Pico Formation siltstone. Alluvial thicknesses are greatest near the center of the barrier and decrease toward the sides of the former canyon. The alluvium thins to the northwest. The alluvium consists of an upper layer of silts and clays that overlies a sand and silty sand unit.

The uppermost aquifer occurs in the sand and silty sand alluvium unit under confined conditions. It is confined above by alluvial silts and clays and below by Pico Formation siltstone; both units have hydraulic conductivities in the 10^{-6} cm/sec range. The mean hydraulic conductivity and average transmissivity of the uppermost aquifer are 7.7×10^{-3} cm/sec and 3,283 gpd/ft, respectively.

2.2.3.2 Eastern Canyons Area

During 1996, Dames & Moore conducted an extensive hydrogeologic study in the Eastern Canyons area. This study determined that, in general, groundwater encountered in the Eastern Canyons area flows in a pattern which mimics surface topography. Water level elevation data collected for this area fit this pattern, which shows groundwater flowing from ridges towards canyons. Thus, most rainfall which infiltrates to the bedrock across the Eastern Canyons will subsequently flow toward and discharge to canyon alluvium. Some groundwater may flow toward canyons but remain within bedrock units beneath canyon alluvium as it flows downgradient.

As described earlier, a number of canyons existed in the Eastern Canyons area prior to grading modifications and landfill development (Exhibit 7). Before landfilling activities commenced in Canyons 3 and 4, the Sanitation Districts installed subsurface Barrier 4 to control alluvial groundwater flow. Barrier 4 is equipped with three groundwater extraction wells that remove water from behind the barrier. As landfill development proceeds to the south, subsurface Barrier 5 will be installed to control potential alluvial groundwater flow in Canyon 5. Exhibit 11 shows the locations of Barrier 4 and proposed Barrier 5.



LEGEND





-  PROPERTY LINE
-  PERMITTED LANDFILL OPERATION AREA
-  EXTRACTION WELL
-  BARRIER 4 MONITORING WELL

EXHIBIT 11

**EASTERN CANYONS
LANDFILL AREA**

PUEBLO HILLS LANDFILL
SANITATION DISTRICTS

Barrier 4

Levine-Fricke (1994) and Earth Tech (1995) determined that this area is underlain by artificial fill, alluvium, and bedrock of the Repetto member of the Fernando Formation. The Repetto member of the Fernando Formation consists predominantly of siltstone. The uppermost aquifer occurs in alluvium and weathered bedrock under unconfined conditions. The thickness of the alluvium at the confluence of Canyons 3 and 4 near Barrier 4 is approximately 40 feet. The depth of the weathered bedrock near Barrier 4 ranges from 4 to 22 feet. Levine-Fricke and Earth Tech have obtained values of hydraulic conductivity for the alluvium and weathered bedrock in Canyons 3 and 4 based on slug tests and pumping tests. Based on slug test results, these values vary from approximately 10^{-3} to 10^{-6} cm/sec with a geometric mean value of 4×10^{-4} cm/sec. If only the pumping test data are used, which are usually more reliable than slug test data to represent the characteristics of the water bearing zones, the geometric mean value of hydraulic conductivity for the Canyons 3 and 4 alluvium/weathered bedrock is 3.6×10^{-3} cm/sec. The geometric mean of the combined slug and pumping test data for alluvium/weathered bedrock in Canyons 3 and 4 is 1.3×10^{-3} cm/sec. The alluvium/weathered bedrock near Barrier 4 is underlain by Repetto member siltstone. Slug testing results indicate that the Repetto member siltstone has a geometric mean hydraulic conductivity of 1.5×10^{-6} cm/sec.

Proposed Barrier 5

IT Corporation (1996) determined that this area is underlain by alluvium, landslide deposits, and Sycamore Canyon member sandstone and siltstone. The uppermost aquifer during IT Corporation's study occurred under unconfined conditions within the landslide deposits and the weathered horizon of the Sycamore Canyon bedrock underlying the alluvium. In Canyon 5 in the vicinity of the proposed Barrier 5, the alluvium and landslide deposits are approximately 20 feet thick. The depth of weathered bedrock in the vicinity of the proposed Barrier 5 ranges from 25 to 40 feet. IT Corporation, Geotechnical Consultants, Inc., and Hazen (1994) have obtained values of hydraulic conductivity for the alluvium and weathered bedrock in Canyons 5. The hydraulic conductivity for Canyon 5 alluvium is only available from one well screened in silty clay and located near the mouth of the canyon. The relatively low value of 1.7×10^{-6} cm/sec reported for one slug test may not be representative for alluvium overall. Due to the limited saturated thickness in Canyon 5 alluvium, it is not feasible to perform aquifer testing of the alluvium near the proposed Barrier 5. Therefore, most hydraulic conductivity data for Canyon 5 are representative of underlying weathered bedrock. The geometric mean value for slug and pumping tests in the weathered bedrock is 4.7×10^{-5} cm/sec. The alluvium/weathered bedrock near the proposed Barrier 5 is underlain by Sycamore Canyon member sandstone and siltstone. Slug testing results indicate that the Sycamore Canyon member sandstone and siltstone has a geometric mean hydraulic conductivity of 4.8×10^{-6} cm/sec.

2.3 WATER QUALITY PROTECTION SYSTEMS

The water quality protection systems currently installed at the Puente Hills Landfill include four cement bentonite subsurface barriers with their canyon water extraction system, and two

composite liner systems. The purpose for the water quality protection systems is to mitigate the potential for any landfill affected groundwater to migrate offsite. The water protection systems for each of the landfill areas are discussed below.

Main Canyon

The groundwater protection systems currently installed at the Main Canyon include Barriers 1 and 3 and their corresponding extraction systems. The locations of the subsurface barriers is shown in Exhibit 10. Subsurface Barrier 1 was installed in 1980 by Bencor Corporation of America. The Sanitation Districts commissioned LeRoy Crandall and Associates to develop design depths for the barrier system and to perform third party construction quality assurance (CQA) for the installation of the barrier. The barrier was designed and installed into bedrock to cut-off alluvial pathways which could serve as a potential conduit for migration from the landfill. The design hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. A total of sixteen extraction wells have been installed to remove canyon water that collects upgradient of Barrier 1. The design and construction of Barrier 1 was approved by the RWQCB and the State Water Resources Control Board under a Federal Clean Water Grant.

The subsurface Barrier 3 was installed in 1993 by Foster Wheeler Environmental Services. The Sanitation Districts retained the Earth Technology Corporation to perform third party construction quality assurance for the installation of the barrier. The barrier was installed at least five feet into unweathered bedrock to cut-off alluvial and weathered bedrock pathways which could allow migration from the Main Canyon. The hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. Barrier 3 is equipped with four extraction wells to remove water that collects behind the barrier.

Canyon 9

The groundwater protection systems currently installed at Canyon 9 include Barrier 2 with its corresponding extraction system and a composite liner system. The locations of the subsurface barriers is shown in Exhibit 10. Subsurface Barrier 2 was installed in 1988 by Case International. The Sanitation Districts commissioned Geofon Incorporated to perform third party construction quality assurance for the barrier installation. The barrier was designed and installed at least five feet into unweathered bedrock to cut-off alluvial and weathered bedrock pathways which could allow migration from Canyon 9. Barrier 2 is equipped with three extraction wells installed to remove any alluvial water that collects behind the barrier. No water has been observed in the extraction system since its installation.

The composite liner system for Canyon 9 was installed in 1989 and 1990 prior to refuse placement in Canyon 9. The Canyon 9 composite liner system consists of the following components: subdrain, clay liner (minimum one foot thick with a hydraulic conductivity of less than 1×10^{-6} cm/sec), synthetic liner (80 mil high density polyethylene), liquid collection and removal system (LCRS), geotextile filter, and protective soil layer. These components, together, effectively

prevent landfill affected liquid from entering the underlying strata. All components of the Canyon 9 composite liner system were subjected to rigorous quality assurance tests to ensure that all materials used met the design criteria and specifications.

Eastern Canyons

The groundwater protection systems currently installed at the Eastern Canyons include Barrier 4 and its corresponding extraction system and a composite liner system. The locations of these systems are shown in Exhibit 11. Subsurface Barrier 4 was installed in 1995 by Clarke Contracting Corporation. The Sanitation Districts commissioned Earth Tech, Inc. to perform geologic observation and construction quality assurance services for the installation of the barrier. The barrier was designed and installed at least five feet into unweathered bedrock to cut-off alluvial and weathered bedrock pathways which could allow migration from Canyons 3 and 4. Barrier 4 is equipped with three extraction wells to remove any water that collects behind the barrier.

The composite liner system for the Eastern Canyons area is being installed in phases. The existing liner areas for the Eastern Canyons area are shown in Exhibit 11 and include Phase 1A, Phase 1B, Phase 2, and Phase 3. The Phase 4 liner area is scheduled to be installed in 1998. The design specifications for the Eastern Canyons composite liner system exceed the Subtitle D requirements described in RWQCB Order No. 93-062, §7. The Eastern Canyons composite liner system consists of the following components: subdrain, clay liner (minimum two foot thick with a hydraulic conductivity of less than 1×10^{-7} cm/sec), synthetic liner (80 mil high density polyethylene), LCRS, geotextile filter, and protective soil layer. The design specifications for each phase of the liner system were approved by the RWQCB prior to construction. The construction quality assurance for each phase of the liner system was performed by a Sanitation Districts' consultant. The RWQCB inspected and approved each liner system before waste placement.

3.0 COMPLIANCE RECORD

RWQCB Order No. 93-062, §13(B)(2)(c) requires a comprehensive discussion of the compliance record, and of any corrective actions taken or planned which may be needed to bring the discharger into full compliance with the landfill's waste discharge requirements. As discussed in Section 1.0, operations at the Puente Hills Landfill follow the conditions specified in various waste discharge requirements and monitoring and reporting programs issued by the RWQCB. In 1997, the Sanitation Districts were in full compliance with these conditions. This section discusses the Sanitation Districts' compliance with these operating conditions.

The requirements in various permits issued by the RWQCB that are applicable to the operations of the Puente Hills Landfill during 1997 can be summarized into three major categories: landfill operations, water quality monitoring and response program, and containment systems. The Sanitation Districts' compliance with these conditions in 1997 is discussed below:

3.1 LANDFILL OPERATIONS

During 1997, the Puente Hills Landfill accepted nonhazardous solid wastes, inert solid wastes, biosolids, water treatment sludge, and treated municipal solid waste incinerator ash. The site did not accept any of the unacceptable wastes specified in WDR Order Nos. 90-046, 91-035, or 93-070. The minimum solids-to-liquids ratio of 5:1 by weight, as specified in the WDRs, was always maintained in 1997. In fact, the typical solids-to-liquids ratio at the Puente Hills Landfill during 1997 was over 35:1.

Landfill gas condensate is collected at the Puente Hills Landfill, treated, and discharged to the sewer system pursuant to industrial waste discharge permits for the site. Liquid collected from the Canyon 9 LCRS and the Eastern Canyons LCRS is discharged to the sewer system pursuant to an industrial waste discharge permit. In 1997, the quality of the discharged wastewater met the discharge requirements specified in this industrial waste discharge permit. No LCRS liquid or condensate was reused on site in 1997.

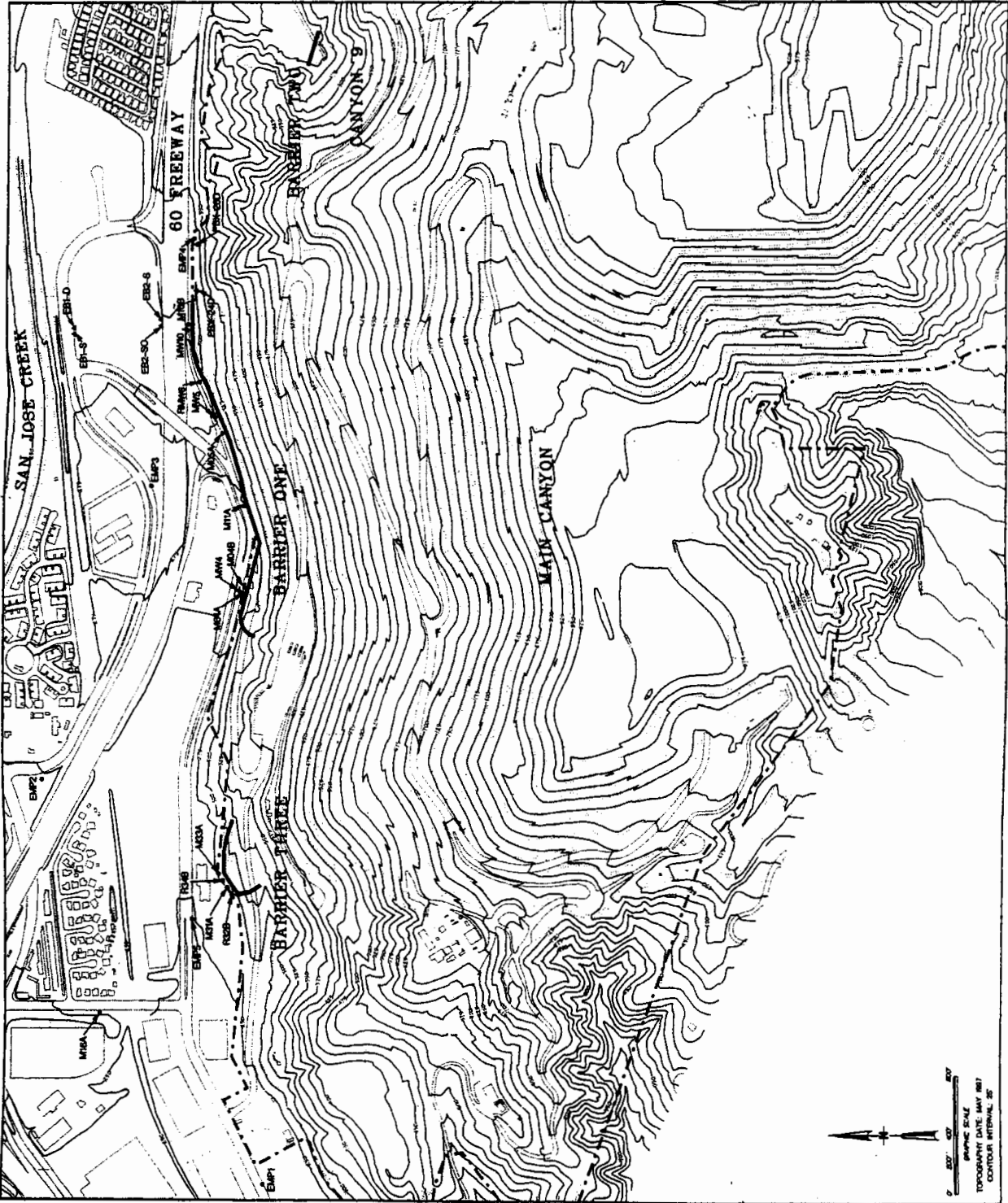
The Sanitation Districts operate the Puente Hills Landfill in accordance with all other requirements for disposal site operations set forth in WDR Order Nos. 90-046, 91-035, and 93-070. A periodic waste-load checking program has been implemented at the landfill to ensure that unauthorized hazardous materials are not disposed at the landfill. Surface water drainage controls are installed at the landfill to adequately divert rainfall runoff away from the site to prevent ponding over the waste-filled areas of the landfill and control the potential for cover erosion. Any surface water that leaves the site is permitted by a National Pollutant Discharge Elimination System (NPDES) permit. The Sanitation Districts adequately cover all waste at the end of each operating day. The County of Los Angeles Department of Health Services conducts a solid waste facility inspection of the Puente Hills Landfill on a monthly basis. The California Integrated Waste Management Board and the RWQCB also conduct periodic inspections of the site. All Federal, State, County and City

sanitary health codes, rules, regulations, and ordinances pertinent to the disposal of wastes at the landfill are complied with in the operation and maintenance of the landfill.

3.2 WATER QUALITY MONITORING AND RESPONSE PROGRAM

The *Puente Hills Landfill Water Quality Monitoring System Report for Compliance with RWQCB Order No. 93-062* (herein referred to as the Subtitle D Report) submitted by the Sanitation Districts to the RWQCB on August 9, 1994 includes a complete water quality monitoring program for the Puente Hills Landfill. The report presents, for both groundwater and surface water monitoring, the detection monitoring systems, monitoring parameters, constituents of concern, monitoring and reporting frequency, sampling and analysis plans (including both field and laboratory quality assurance and quality control program), statistical methods for data analysis, and concentration limits developed for all monitoring parameters and constituents of concern (if available data allowed the calculations of these limits). The water quality monitoring program was amended based on the Sanitation Districts' discussion with the RWQCB staff on November 7, 1994. Two letters dated November 21, 1994 (one on Laboratory Analyses and Reporting of Water Quality and Ash Sampling Results, the other on Water Quality Monitoring and Reporting Program) documented the meeting discussion. The Sanitation Districts have been implementing the program described in the Subtitle D Report since the fourth quarter of 1994 for the Main Canyon and Canyon 9 areas of the Puente Hills Landfill. Quarterly monitoring reports were submitted to the RWQCB in 1997 to present detailed water quality monitoring activities and monitoring results at the Puente Hills Landfill. Each quarterly report includes waste disposal information, results from the waste load checking programs, sludge and treated ash analysis results, descriptions of water and wastewater management, groundwater monitoring data including sampling information, surface water monitoring data, if any, and a discussion of water quality monitoring results. Also included in the report as an appendix are all laboratory analysis results and quality assurance/quality control information required by Order No. 93-062, § 13(A).

For the Main Canyon and Canyon 9 areas of the landfill, there have been several modifications to the water quality monitoring program since 1994. The Sanitation Districts submitted *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program* to the RWQCB on November 15, 1996. The report proposed revised groundwater detection and evaluation monitoring programs for the Main Canyon and Canyon 9, as required by the State Water Resources Control Board's Order No. WQ 96-10. Additional monitoring wells were proposed to monitor areas immediately downgradient of Barrier 1 and offsite locations downgradient of the Main Canyon. The RWQCB approved the revised groundwater evaluation monitoring program for the Main Canyon portion of the landfill and the installation of the proposed new monitoring wells on December 30, 1996. During the third quarter of 1997, the Sanitation Districts installed monitoring wells EMP1, EMP2, EMP3, EMP4, and M11A, and replaced existing monitoring wells MW4, MW5, and MW10 with new monitoring wells M04A, M04B, M05A, and M10B. The locations of the monitoring wells for the Main Canyon are shown in Exhibit 12. The monitoring of these new wells began in the third quarter of 1997. Details about



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

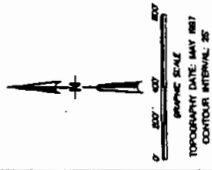
-  PROPERTY LINE
-  MONITORING WELL
-  EXISTING SUBSURFACE BARRIER
-  TEMPORARY PIEZOMETER
-  ABANDONED MONITORING WELL

EXHIBIT 12

**GROUNDWATER QUALITY
MONITORING LOCATIONS FOR THE
MAIN CANYON LANDFILL AREA**

PUEBLO HILLS LANDFILL
SANITATION DISTRICTS



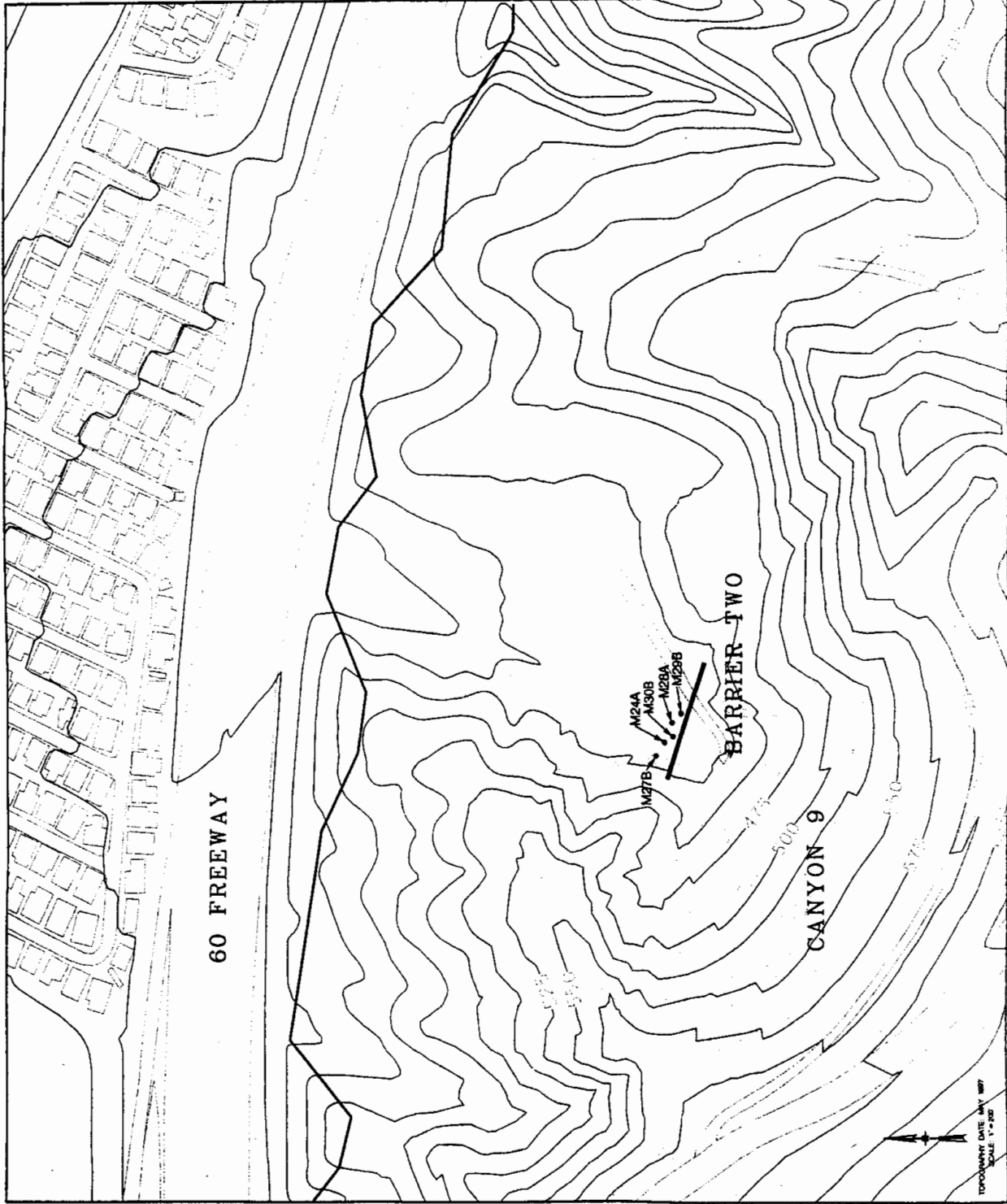
the installation of the new monitoring wells are included in *Detection and Evaluation Monitoring Programs for the Main Canyon at Puente Hills Landfill* (IT Corporation, March 1998) submitted to the RWQCB on April 10, 1998.

For the Canyon 9 portion of the landfill, the Sanitation Districts proposed a revised detection monitoring program in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*. The RWQCB is still reviewing the proposed detection monitoring program. Therefore, the Sanitation Districts continued to monitor the three compliance monitoring wells, M24A, M27B, and M29B, in 1997. The locations of the monitoring wells for Canyon 9 are shown in Exhibit 13.

For the Eastern Canyons area, the Sanitation Districts continued to monitor detection monitoring wells M41A, M42A, and M43A downgradient of Barrier 4 in 1997. In February 1998, the Sanitation Districts submitted *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* report to the RWQCB. This report proposed the detection monitoring program for the entire Eastern Canyons area of the Puente Hills Landfill including areas currently monitored by wells M41A, M42A, and M43A. An additional bedrock monitoring well M47B was proposed in the Canyon 3 and 4 area. For Canyon 5, the Sanitation Districts proposed to install an alluvial monitoring well M51A and a bedrock monitoring well M52B downgradient of the proposed Barrier 5. The locations of the existing and proposed monitoring wells for the Eastern Canyons are shown in Exhibit 14. The RWQCB is still reviewing the proposed detection monitoring program, but agreed to the installation of monitoring well M47B downgradient of Barrier 4 in a letter dated April 21, 1998. As discussed in the *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* report, until monitoring wells M47B, M51A, and M52B are installed, the Sanitation Districts will also quarterly monitor piezometers DM23, S16, and S6 (see Exhibit 14 for locations) which are located adjacent to M47B, M51A, and M52B, respectively, to collect background water quality data.

The Puente Hills Landfill drainage system consists of graded benches, drainage channels, debris basins, and downdrains. The surface water drainage system minimizes surface water infiltration, ponding, and slope erosion by providing a means for rainfall runoff to be diverted from the front face and top deck of the landfill and channeled into desilting basins, and eventually, into storm drains. The surface water drainage system is depicted on Exhibit 15. In 1997, the drainage system functioned effectively as designed.

In 1992, the Sanitation Districts prepared a Storm Water Pollution Prevention Plan (SWPPP) for the Puente Hills Landfill pursuant to the California General Permit requirements for compliance with the National Pollutant Discharge Elimination System (NPDES) rules. The SWPPP calls for the use of best management practices to minimize the potential for runoff contamination by landfill operations. To fulfill the requirements of the General Permit and to determine the effectiveness of the SWPPP, the Sanitation Districts developed a runoff monitoring program in December 1992. The



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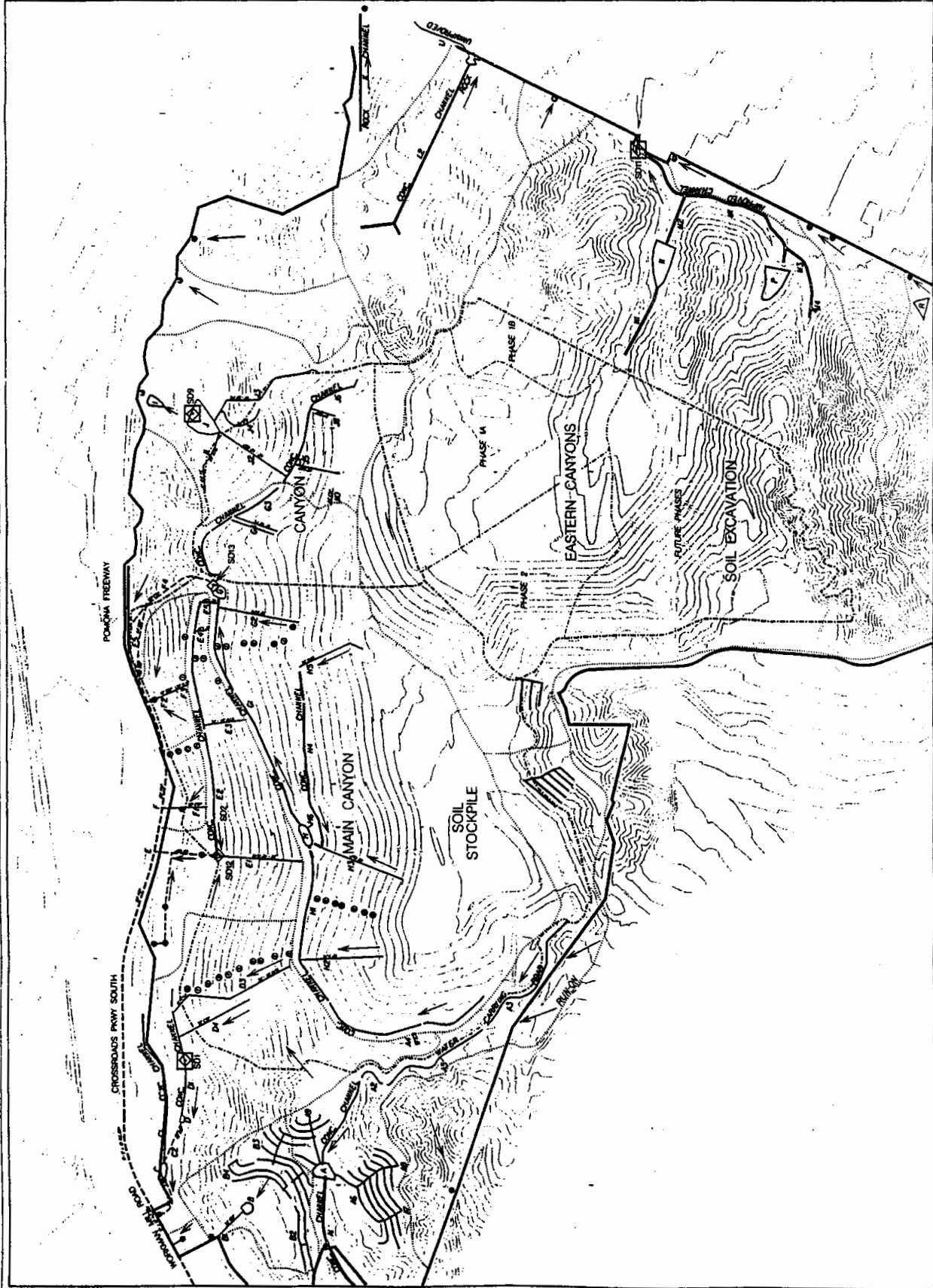
-  PROPERTY LINE
-  MONITORING WELL
-  EXISTING SUBSURFACE BARRIER

EXHIBIT 13

**GROUNDWATER QUALITY
MONITORING LOCATIONS FOR THE
CANYON 9 AREA**

FUENTE HILLS LANDELL
SANITATION DISTRICTS



PUENTE HILLS LANDFILL
 COURT SANITATION DISTRICTS OF L.A. COUNTY
 WESTVIEW, CA
 SURFACE WATER SAMPLING LOCATIONS

- PROPERTY LINE
- CANYON BOUNDARY LINE
- DEBRIS BANK LABELED A THROUGH R
- STORMWATER CHANNEL LABELED A THROUGH R
- UNDERGROUND TREATMENT LINE
- PAVED ACCESS
- DRAINAGE AREA BOUNDARY
- SURFACE WATER FLOW DIRECTION
- SURFACE WATER SAMPLING OR OBSERVATION LOCATION
- POINTS OF SURFACE WATER DISCHARGE
- PIPES STORMWATER DISCHARGE
- PIPES OBSERVATION LOCATION
- PIPES SURFACE WATER SAMPLING LOCATION

EXHIBIT 15

**DRAINAGE SYSTEM AND
 SURFACE WATER
 SAMPLING LOCATIONS**

PUENTE HILLS LANDFILL
 SANITATION DISTRICTS AUGUST 1987
 SOURCE AERIAL PHOTOGRAMMETRY TAKEN APRIL 1987

implementation of this program began in 1993 and continued during 1997. The NPDES permit was revised on April 17, 1997. Pursuant to the revised NPDES permit, the Sanitation Districts updated the SWPPP on August 1, 1997.

Surface water monitoring at Puente Hills Landfill follows the requirements in the NPDES permit. This program was approved by the RWQCB on May 22, 1997, following its review of *Request for Change in Surface Water Monitoring Requirements at Calabasas, Puente Hills, Scholl Canyon, and Spadra Landfills*, submitted by the Sanitation Districts on February 18, 1997.

3.3 CONTAINMENT SYSTEMS

During 1997, the Sanitation Districts completed the design and installation of the Phase 3 liner system for the Eastern Canyons area (shown in Exhibit 14). The following technical design plans were submitted to the RWQCB for the Phase 3 liner system before construction:

- 1) "Special Provisions for Construction of Puente Hills Landfill Composite Liner System - Phase 3", dated February 1997;
- 2) "Puente Hills Landfill, Composite Liner System - Phase 3" (Drawing No. 69D-g-93), dated February 26, 1997;
- 3) "Request for Proposal for Construction Quality Assurance Services, Phase 3 Composite Liner System at the Puente Hills Landfill", dated March 1997;
- 4) "Slope Stability Analyses of Phase 3 Cut Plan, Puente Hills Landfill", by Dames and Moore, dated March 17, 1997; and
- 5) "Geotechnical Report, Development of Canyon 4 Berm and Front Face, Eastern Canyons Expansion, Puente Hills Landfill", dated April 1997;

The RWQCB reviewed these documents and approved the technical design plans for the Phase 3 liner system in a letter dated May 7, 1997. Construction of the Phase 3 liner system took place from May 6, 1997 to August 27, 1997. Construction quality assurance services for the Phase 3 liner system were performed by the Sanitation Districts' consultant Golder Construction Services, Inc. The final construction quality assurance report for the Phase 3 liner was completed in December 1997 and delivered to the RWQCB on January 5, 1998.

4.0 WATER QUALITY MONITORING PROGRAMS

Water quality monitoring programs implemented at the Puente Hills Landfill during 1997 include groundwater monitoring, surface water monitoring, monitoring of liquid collection and removal systems (LCRS) of the Canyon 9 and Eastern Canyons liner systems, monitoring of reused water, and monitoring of dewatered biosolids, water treatment sludge, and treated incinerator ash disposed of at the landfill. The following sections describe these monitoring programs.

4.1 GROUNDWATER

At the Puente Hills Landfill, different groundwater monitoring programs are implemented in different operating areas. Groundwater monitoring is also conducted in offsite areas to comply with the evaluation monitoring program requirements. For each area, geologic and hydrogeologic conditions and existing water quality conditions determine the appropriate monitoring programs. These programs are described below by areas.

Main Canyon

Groundwater monitoring system in the Main Canyon includes wells downgradient of Barrier 1 and Barrier 3 (refer to Exhibit 12 for locations). Prior to the third quarter of 1997, the Sanitation Districts had been monitoring MW4, MW5, RMW6, and MW10 downgradient of Barrier 1 in accordance with the monitoring program described in the Subtitle D report. During the third quarter of 1997, monitoring wells MW4, MW5 and MW10 were replaced by new monitoring wells M04A, M04B, M05A, and M10B, and two new monitoring wells, M11A and EMP4, were added to the Barrier 1 monitoring system. The change in the monitoring system was proposed by the Sanitation Districts in *Revised Detection and Evaluation Monitoring Programs, Puente Hills Landfill - Main Canyon and Canyon 9* which was approved by the RWQCB on December 30, 1996. At the same time, the RWQCB also revised MRP No. 2294 and specified an evaluation monitoring program (EMP) for the Main Canyon monitoring wells. The Sanitation Districts retained International Technology Corporation (IT Corporation) in May 1997 to implement the proposed change in the monitoring system. Beginning in the third quarter of 1997, the Sanitation Districts began to implement the revised EMP as specified in MRP No. 2294.

Prior to the third quarter of 1997, monitoring wells MW4 and MW5 were tested for metal surrogates (pH, total dissolved solids, sulfate, chloride, and nitrate) and the VOCs contained in Appendix I to Title 40, Code of Federal Regulations, Part 258 (herein referred to as Appendix I VOCs); and monitoring well RMW6 was tested for, in addition to the above parameters, major anions and cations, ammonia nitrogen, soluble BOD, soluble COD, total organic carbon, and oil and grease. During the third quarter of 1997, all Barrier 1 monitoring wells were tested for all "constituents of concern" including all parameters listed in WDR Order No. 91-046 and constituents listed in Appendix II to Title 40, Code of Federal Regulations, Part 258 (or Appendix II constituents). During the fourth quarter of 1997, monitoring wells M04B and M11A were tested for general parameters, metals (both total and filtered), and the Appendix I VOCs. The other monitoring

wells including M04A, M05A, RMW6, M10B, M11A, and EMP4 were tested for a longer list of parameters including pH, total dissolved solids, all major anions and cations, ammonia nitrogen, soluble BOD, soluble COD, total organic carbon, oil and grease, and all Appendix I VOCs.

In addition to installation and replacement of groundwater monitoring wells, IT Corporation also conducted further characterization of geologic and hydrogeologic conditions in areas to the east of Barrier 1 and to the north and west of the Main Canyon. Exploratory boreholes, piezometers, and gas migration monitoring probes were installed and water quality and gas data obtained to assess the nature and extent of VOC detection in groundwater downgradient of Barrier 1. Hydropunch samples were collected from exploratory boreholes PBX-24D and PBX-26D at various depths during the study. The hydropunch samples from were analyzed for pH, conductivity, total dissolved solids, boron, all major anions and cations, ammonia nitrogen, soluble BOD, soluble COD, total organic carbon, and all Appendix I VOCs.

Ten gas monitoring probes were installed by IT Corporation and their locations shown in Exhibit 16. The purpose of the gas probes was to determine whether the VOC detection in groundwater in the eastern Barrier 1 area resulted from landfill gas. Some of the probes have multiple depths (shown in Exhibit 16) which were determined based on geology and groundwater occurrence. During the fourth quarter of 1997, the Sanitation Districts collected gas samples from all gas monitoring probes and analyzed them for hydrogen sulfide, total permanent gases, oxygen, argon, nitrogen, methane, carbon dioxide, and volatile organic compounds.

Barrier 3 monitoring system includes four wells, M31A, R32B, M33A, and R34B. Monitoring wells R32B and R34B are completed in the Pico Formation siltstone, and monitoring wells M31A and M33A are completed in alluvium overlying the Pico Formation bedrock.

During 1997, monitoring wells R32B and R34B were tested on a quarterly basis for the five metal surrogates and the Appendix I VOCs. For the first, second, and fourth quarters of 1997, wells M31A and M33A were tested for a longer list of parameters including pH, total dissolved solids, all major anions and cations, ammonia nitrogen, soluble BOD, soluble COD, total organic carbon, oil and grease, and all Appendix I VOCs. For the third quarter of 1998, M31A and M33A were tested for the comprehensive list of all constituents of concern.

Canyon 9

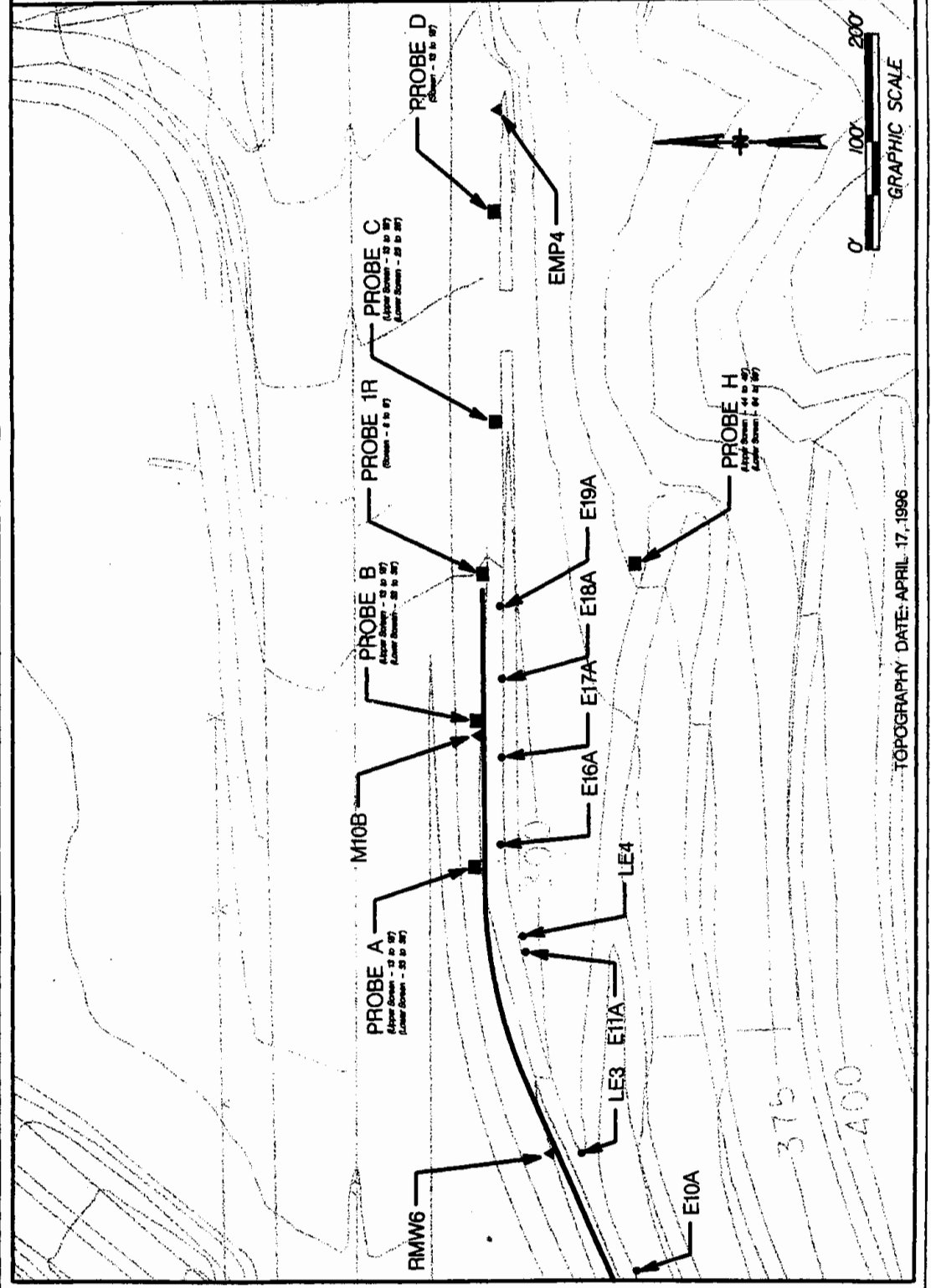
Based on the Subtitle D report, the compliance monitoring wells for the Canyon 9 area are M24A, M27B, M28A, M29B, and M30B (refer to Exhibit 13). These wells are situated in alluvium and bedrock of the Pico Formation at the mouth of Canyon 9. Insufficient water for sampling purposes has been observed in alluvial monitoring wells M28A and M30B since their installation. In *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation*

LEGEND

- EXTRACTION WELL
- ▲ MONITORING WELL
- GAS PROBE
▲ Upper Screen Interval
■ Lower Screen Interval
- SUBSURFACE BARRIER 1

GAS MONITORING PROBES

EXHIBIT 16



TOPOGRAPHY DATE: APRIL 17, 1996

Monitoring Program, submitted to the RWQCB on November 15, 1996, the Sanitation Districts proposed to revise the groundwater detection monitoring program for the Canyon 9 monitoring wells. The revised detection monitoring program was based on recommendations by ENVIRON Corporation in their July 1996 "*Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill*" report. The RWQCB is still reviewing the proposed detection monitoring program for Canyon 9. Therefore, the Sanitation Districts continued to monitor wells M24A, M27B, and M29B for 1997. During 1997, these wells were tested on a quarterly basis for metal surrogates (pH, total dissolved solids, sulfate, chloride, and nitrate) and the Appendix I VOCs.

Eastern Canyons

The current groundwater monitoring system for the Eastern Canyons expansion area includes wells M41A, M42A, and M43A. These wells monitor the uppermost aquifer, which is in the alluvium, downgradient of Barrier 4 in Canyons 3 and 4. The locations of these monitoring wells are shown in Exhibit 14. The Sanitation Districts began monitoring M41A, M42A, and M43A in the third quarter of 1995 pursuant to RWQCB's MRP No. 7336. On February 24, 1997, after obtaining four quarters of sampling results for all constituents of concern at these monitoring wells, the Sanitation Districts proposed to modify the program contained in MRP No. 7336. The proposed modifications included reduction of monitoring frequency for those constituents of concern that were not detected in the Eastern Canyons LCRS liquid during the first five quarters of monitoring. The RWQCB approved the proposed change on March 4, 1997. During 1997, monitoring wells M41A, M42A, and M43A were tested quarterly for all general parameters, seven metals including iron (both total and filtered), and the Appendix I VOCs.

With landfilling being expanded into the entire footprint of the Eastern Canyons, the Sanitation Districts, in February 1998, proposed a groundwater monitoring program for the entire Eastern Canyons. Three additional monitoring wells were proposed for the Eastern Canyons monitoring system. This report, *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program*, is currently being reviewed by the RWQCB.

Offsite Monitoring Wells

Prior to the third quarter of 1997, the Sanitation Districts monitored existing offsite monitoring wells EMP5 and M16A (refer to Exhibit 12). Monitoring well EMP5 is located approximately 400 feet downgradient of Barrier 3. This monitoring well was installed by Environ in 1995. Monitoring well M16A is located hydraulically downgradient of the Puente Hills Landfill approximately 1,200 feet from the landfill boundary. Any water quality effect on downgradient groundwater quality caused by the Puente Hills Landfill will be indicated by this well. However, since it is located in the San Gabriel Groundwater Basin, where groundwater contamination by industries is widely documented and is being investigated by both the RWQCB and the United States Environmental Protection Agency, there is a potential that M16A may be affected by industrial contamination not related to the Puente Hills Landfill.

During the third quarter of 1997, the Sanitation Districts installed three new offsite monitoring wells, EMP1, EMP2, and EMP3 (refer to Exhibit 12) as part of the Evaluation Monitoring Program (EMP) for the Puente Hills Landfill. All offsite monitoring wells (M16A, EMP1, EMP2, EMP3, and EMP5) were tested for all general parameters and all Appendix II constituents during the third quarter of 1997. During the first, second, and fourth quarters of 1997, the offsite monitoring wells were tested for pH, total dissolved solids, all major anions and cations, ammonia nitrogen, soluble BOD, soluble COD, total organic carbon, oil and grease, and all Appendix I VOCs.

The Sanitation Districts also installed temporary piezometers EB1-S, EB1-D, EB2-S, and EB2-SO as part of the EMP for the Puente Hills Landfill for water level measurements. Exhibit 12 shows the locations of these piezometers. Groundwater samples were collected from these piezometers during the third quarter of 1997 and were tested for general parameters and all Appendix II constituents.

4.2 SURFACE WATER

As mentioned in Section 3.2, surface water monitoring at Puente Hills Landfill follows the requirements in the NPDES permit. This program was approved by the RWQCB on May 22, 1997, following its review of *Request for Change in Surface Water Monitoring Requirements at Calabasas, Puente Hills, Scholl Canyon, and Spadra Landfills*, submitted by the Sanitation Districts on February 18, 1997. The surface water monitoring system consists of three monitoring locations where runoff samples are collected. The surface runoff monitoring locations are shown in Exhibit 15. Monitoring location SD1 is located downgradient of Main Canyon, monitoring location SD9 is located downgradient of Canyon 9, and monitoring location SD11 is located downgradient of the Eastern Canyons.

During 1997, two sets of runoff samples were collected from locations SD1, SD9, and SD11 as part of the NPDES sampling. These samples were analyzed for pH, conductivity, suspended solids, total organic carbon, selected metals, and volatile organic compounds.

4.3 LIQUID COLLECTION AND REMOVAL SYSTEM (LCRS)

Liquid collection and removal systems (LCRS) were installed as part of the composite liner systems for Canyon 9 and the Eastern Canyons areas of the Puente Hills Landfill. Water collected from both LCRS is discharged to the sewer system pursuant to the site's industrial waste discharge permits. The monthly LCRS collection rates for the Canyon 9 and Eastern Canyons LCRS are presented in Table 2. These systems functioned effectively in 1997. High flow rates to the Eastern Canyons LCRS during the winter months were due to rainfall. The liquids associated with both LCRS were collected continuously and discharged to a sanitary sewer pursuant to an industrial waste discharge permit.

TABLE 2
1997 LCRS FLOW RATES AND CANYON WATER EXTRACTION RATES
PUENTE HILLS LANDFILL

Month	Canyon 9 LCRS (gallons)	Eastern Canyons LCRS (gallons)	Barrier 1 (gallons)	Barrier 3 (gallons)	Barrier 4 (gallons)	Eastern Canyons Drain System (gallons)
January	32,908	857,718 ⁽¹⁾	572,578	586,766	94,494	157,208
February	26,583	114,689 ⁽¹⁾	524,095	531,367	167,089	225,358
March	27,089	19,066	595,604	564,151	139,908	220,941
April	23,217	10,313	506,145	522,740	102,068	219,534
May	22,602	3,202	493,034	529,236	207,823	522,967 ⁽³⁾
June	24,026	5,288	314,192	498,525	191,871	1,206,601 ⁽³⁾
July	24,405	4,551	116,460 ⁽²⁾	518,693	95,379	1,116,903
August	24,923	3,808	29,989 ⁽²⁾	503,222	61,492	997,661
September	28,157	8,190	308,233	468,906	41,480	911,313
October	29,370	4,125	644,655	491,840	72,296	860,278
November	30,138	45,141 ⁽¹⁾	324,967	473,359	98,581	944,798
December	31,696	150,747 ⁽¹⁾	491,651	494,375	52,027	876,816
Total	325,114	1,226,838	4,921,603	6,183,180	1,324,508	8,260,378

- (1) The increase in water volumes collected from the Eastern Canyons LCRS during the months of January, February, November, and December 1997 were a result of rainfall events.
- (2) The decrease in extraction volumes from Barrier 1 in July and August 1997 was a result of aquifer testing during these months.
- (3) The increase in water volumes from the Eastern Canyons Drain System in May and June of 1997 was a result of connecting 24 horizontal drains and the underdrain for the Phase 3 liner into the Eastern Canyons Drain System.

The Canyon 9 LCRS and the Eastern Canyons LCRS were sampled in April and October of 1997 pursuant to RWQCB Order No. 93-062. The samples were analyzed for all constituents of concern. The purpose of this sampling is to determine the lists of constituents of concern for monitoring wells downgradient of the Canyon 9 and Eastern Canyons expansion areas, respectively. The results of these constituents of concern scans were reported to the RWQCB in the Constituents of Concern Reports submitted in August 1997 and February 1998.

The Eastern Canyons LCRS was also sampled in July and December of 1997 in accordance with a letter dated March 4, 1997 from the RWQCB to the Sanitation Districts approving a revised groundwater monitoring program for the Eastern Canyons area. These two samples were analyzed for general parameters, all metals and inorganics, and Appendix I VOCs. The results of these samples were reported to the RWQCB in the 1997 water quality quarterly monitoring reports submitted to the RWQCB.

4.4 REUSED WATER

At the Puente Hills Landfill, groundwater is collected upgradient of each barrier through a system of extraction wells. The extraction volumes at each barrier during 1997 are summarized in Table 2. No water was collected upgradient of Barrier 2 in 1997. Table 2 also includes the extraction volumes for liquids collected from the Eastern Canyons drain system for 1997. The Eastern Canyons drain system includes the underdrain system beneath the liner on the floor and horizontal drains located along the side slopes. The purpose of the horizontal drains is to reduce hydrostatic pore pressure within the subgrade of the slopes in order to improve slope stability.

MRP No. 2294 requires that the extraction wells at the barriers be sampled and analyzed for a short list of water quality parameters. Prior to the fourth quarter of 1994, the Sanitation Districts collected composite samples from the extraction wells at Barriers 1 and 3 (Barrier 2 was dry) on a monthly basis for the specified analyses. However, since the extracted water from the barriers was not reused, nor are extraction wells point of compliance in the site's groundwater monitoring program, the Sanitation Districts proposed in the Subtitle D Report to discontinue extraction wells sampling. The collected groundwater from Barriers 1 and 3 is discharged to the sewer system pursuant to two industrial waste discharge permits.

The groundwater from the Eastern Canyons drain system is combined with the Barrier 4 extracted canyon water and is either reused for dust control (no treatment required), pursuant to the RWQCB's July 18, 1995 canyon water reuse approval letter, or discharged to the sanitary sewer pursuant to an industrial waste discharge permit. During 1997, approximately 3,018,055 gallons of water collected from the Barrier 4 extraction wells and Eastern Canyons drain system was reused for dust control at the Puente Hills Landfill.

4.5 DEWATERED BIOSOLIDS, WATER TREATMENT SLUDGE, AND TREATED INCINERATOR ASH

The dewatered biosolids disposed of at the landfill originates at the Sanitation Districts' Joint Water Pollution Control Plant. Summaries of the monthly average biosolids percent solids content and tons disposed are presented in Table 3. Two different types of analyses are performed on a regular basis: a quarterly modified citrate extract procedure for metals analyses, and a semi-annual analysis for pesticides and VOCs. Monitoring performed during 1997 did not indicate any exceedances of Title 22 criteria for the identification of hazardous wastes for those analyses required in MRP Nos. 2294 and 7336, Section II (C). Results of biosolids analyses have been separately reported to the RWQCB in quarterly monitoring reports and are not included in this annual report.

During 1997, the Puente Hills Landfill accepted lime cake sludge generated at the West Basin Reclamation Plant operated by the West Basin Municipal Water District. The West Basin Municipal Water District tests the sludge quarterly to demonstrate compliance with the trace metals Total Threshold Limit Concentration (TTLC) and Soluble Threshold Limit Concentration (STLC) contained in the permit (Order No. 90-046) for the Puente Hills Landfill. The total tons of sludge disposed and the analytical results for the sludge analyses have been separately reported by the West Basin Municipal Water District to the RWQCB in quarterly monitoring reports and are not included in this annual report.

Treated incinerator ash from Commerce Refuse to Energy Facility (Commerce) and the Southeast Resources Recovery Facility (SERRF) located in Long Beach was disposed at the Puente Hills Landfill during 1997. Summaries of the monthly tons of treated ash disposed are presented in Table 4. All incinerator ash accepted at the Puente Hills Landfill during 1997 was treated by a solidification/stabilization process. This process forms a concrete or aggregate like material which is used as road base at the Puente Hills Landfill. Ash treated by this process has been classified as a nonhazardous waste by the California Department of Toxic Substances Control.

In accordance with MRP No. 7336, the treated ash from Commerce and SERRF was analyzed by the Waste Extraction Test (WET) with citrate buffer and deionized water extraction on a quarterly basis. These results and disposal summaries have been separately submitted to RWQCB in quarterly monitoring reports and are not included in this annual report.

TABLE 3
1997 BIOSOLIDS DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Tonnages	Solids Content (%)
January	11,286	25.9
February	8,789	26.4
March	8,207	26.6
April	10,999	26.5
May	12,060	26.4
June	13,593	26.1
July	10,459	26.4
August	8,584	27.0
September	9,995	26.4
October	11,501	26.7
November	8,340	26.6
December	10,474	26.8
Total	124,287	

TABLE 4
1997 TREATED INCINERATOR ASH DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Tonnes
January	15,326
February	14,889
March	15,908
April	16,578
May	12,992
June	17,331
July	17,932
August	14,922
September	16,067
October	15,643
November	14,346
December	15,153
Total	187,087

5.0 WATER QUALITY MONITORING RESULTS

This section discusses primarily the monitoring results obtained from the groundwater and surface water monitoring programs. All monitoring data presented in this annual report have previously been submitted to the RWQCB in quarterly monitoring reports and the semi-annual constituents of concern monitoring reports for the LCRS liquid.

5.1 MONITORING DATA SUMMARY

Water quality monitoring results for 1997 are presented in the Appendix (Tables A.1 through A.12) of this report. The Appendix includes, in tabular form, the data collected from each monitoring facility. In addition, graphs presenting five years of data for each constituent at each groundwater monitoring well are included pursuant to the requirement in Order No. 93-062. Graphs were prepared for constituents which were analyzed for during 1997 for all onsite and offsite monitoring wells. If there were no detections of a particular constituent at a particular well during 1997, the graph was not plotted unless the constituent was detected at or above the detection limit in at least two monitoring periods since 1993. The tabulated and graphed data are grouped as follows:

- Barrier 1 downgradient monitoring wells (MW4, M04A, M04B, M05A, RMW6, M10B, M11A, and EMP4; MW5 and MW10 were dry in 1997);
- Barrier 2 downgradient monitoring wells (M24A, M27B, and M29B; M28A and M30B were dry in 1997);
- Barrier 3 downgradient monitoring wells (M31A, R32B, M33A, and R34B);
- Barrier 4 downgradient monitoring wells (M41A, M42A, and M43A);
- Offsite monitoring wells (EMP1, EMP2, EMP3, EMP5, and M16A);
- Offsite piezometers (EB1-S, EB1-D, EB2-S, and EB2-SO);
- Hydropunch results (PBX-24D and PBX-26D);
- Gas monitoring probes (Probes A, B, C, D, H, and 1R);
- Liquid collection and removal systems (LCRS for Canyon 9 and LCS2 for the Eastern Canyons);
- Surface runoff monitoring locations (SD1, SD9, and SD11);
- Reused water (REUS); and
- Equipment and trip blanks (BLNK or EQIP).

A computer diskette containing all monitoring results collected in 1997 is included with the transmittal of this report to the RWQCB. The data are in the Microsoft® Excel version 5.0 format. Incomplete analyses were the result of insufficient sample volume. Laboratory analyses, including laboratory methods and method detection limits (MDL), followed the program outlined in the Subtitle D Report and two Sanitation Districts' transmittals to the RWQCB on September 22, 1994 and November 21, 1994 regarding this issue. Changes in the method detection limits are a result of matrix interference. All laboratory analyses were conducted at laboratories certified by the California Department of Health Services Environmental Laboratory Accreditation Program for such

analyses. Laboratory analyses follow the methods approved by the United States Environmental Protection Agency. The QA/QC data were previously provided in quarterly monitoring or constituents of concern reports.

5.2 GROUNDWATER MONITORING RESULTS

The groundwater monitoring results are discussed in this section. The water quality parameters are discussed according to the following categories: (1) general parameters (pH, conductivity, total dissolved solids, hardness, cations, anions, and organic matter); (2) metals; (3) VOCs; and (4) base neutral/acid extractable compounds (BNAs), pesticides, and herbicides. Data are analyzed to identify statistical outliers which may be due to sampling anomalies or laboratory errors. Outliers are included in this report and are presented in tabular and graphical data summary, but are excluded from further evaluation or statistical analyses.

5.2.1 Background Water Quality

Background water quality is a critical element in a groundwater detection monitoring program. It is used to determine whether a release has occurred at a waste management unit and, if so, the nature of the release. Based on background water quality data, concentration limits can be derived for each water quality indicator parameter. A tentative release from the landfill is indicated if the groundwater monitoring results from a downgradient compliance well exceed the concentration limits.

The Sanitation Districts have submitted a detailed proposal for determination of background water quality conditions for the Main Canyon and Canyon 9 in 1994 in the Subtitle D Report. The Sanitation Districts' approaches are based on extensive monitoring data collected from wells not affected by landfilling operations and from experimental studies. These data characterize the range of background water quality in different portions, i.e., Main Canyon, Canyon 9, and Eastern Canyons, of the Puente Hills Landfill. An updated discussion of the site's background water quality and the Sanitation Districts proposal for characterizing background water quality for the Main Canyon and Canyon 9 was included in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*, submitted to the RWQCB on November 15, 1996. In the report, the Sanitation Districts proposed concentration limits for Main Canyon and Canyon 9 wells that have not shown any landfill effect (R32B, R34B, M27B, and M29B). The concentration limits were statistically derived based on historical monitoring data collected from these wells.

The Sanitation Districts' proposal for characterizing background water quality for the Eastern Canyons was included in *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program*, submitted to the RWQCB in February 1998. The Sanitation Districts have collected a significant amount of background water quality data for the Eastern Canyons area. An analysis of these data shows that the natural groundwater quality for the Eastern Canyons area varies spatially between the up-canyon and down-canyon locations. Therefore, the Sanitation Districts have decided not to use upgradient wells to obtain background water quality. Instead, an intra-well

comparison procedure, which uses historical monitoring data collected from unaffected monitoring wells to represent background water quality, is proposed to evaluate monitoring data.

The *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* report also proposed a statistical data analysis plan which discusses how the concentration limits for each monitoring well will be calculated using the intra-well prediction limit procedure. Proposed concentration limits for monitoring wells M41A, M42A, and M43A are included in the report. The RWQCB is currently reviewing this proposed groundwater monitoring program.

5.2.2 Main Canyon

Barrier 1 Monitoring Wells

During 1997, monitoring results showed no landfill effect at Barrier 1 monitoring wells MW4, M04B, M11A, and EMP4. No anthropogenic compounds (VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds) were detected at these wells except for two phthalates at M04B. Phthalates are widely used plasticizers and are common laboratory contaminants. Therefore, the detection of these compounds is not considered to be related to the landfill.

Low levels of VOCs were detected at onsite monitoring wells M04A, M05A, RMW6, and M10B downgradient of Barrier 1. The detected VOCs during 1997 include methylene chloride, trichloroethylene, tetrachloroethylene, chlorobenzene, vinyl chloride, p-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, benzene, toluene, 1,2-dibromoethane, and cis-1,2-dichloroethylene. Vinyl chloride and cis-1,2-dichloroethylene were detected at concentrations above the maximum contaminant levels (MCLs) for drinking water at M04A. Vinyl chloride was detected above the MCL at M05A. Three VOCs, vinyl chloride, 1,1-dichloroethane, and cis-1,2-dichloroethylene, were detected above the MCLs at RMW6. Finally, seven VOCs, trichloroethylene, tetrachloroethylene, vinyl chloride, p-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, and cis-1,2-dichloroethylene, were detected above MCLs at M10B. Although VOCs were detected at these monitoring wells, the concentration levels for most of the typical leachate indicator parameters such as nitrate nitrogen, soluble BOD, soluble COD, total organic carbon, and total organic halogen were within the range of background water quality concentrations. This indicates that these monitoring wells are not affected by leachate. Also during 1997, all detected soluble metals from these monitoring wells were below the MCLs for drinking water.

During the third quarter of 1997, monitoring wells M04A, M05A, RMW6, and M10B were analyzed for BNAs, pesticides, herbicides, and organophosphorus compounds. There were no detections of these anthropogenic compounds except for phthalates and one pesticide (Silvex) at RMW6. Phthalates are widely used plasticizers and are common laboratory contaminants. Therefore, the detection of these compounds is not considered to be related to the landfill. The pesticide Silvex had never been previously detected at RMW6. RMW6 was retested for Silvex during the fourth quarter of 1997, and it was not detected. Therefore, the previous Silvex detection

at RMW6 was not confirmed. Based on this information, there are no water quality concerns related to the BNAs, pesticides or herbicides for these monitoring wells.

During the third quarter of 1997, the Sanitation Districts collected hydropunch samples from two locations (PBX-24D and PBX-26D) at multiple depths. The results for the hydropunch samples are presented in Table A.7. The purpose this sampling was to characterize the vertical as well as lateral extent of VOCs in groundwater to the east of Barrier 1. Hydropunch samples were collected from PBX-24D at three depths (70, 110, and 190 feet below ground surface) and analyzed for selected VOCs and general parameters. At PBX-26D, hydropunch samples were collected at 130 feet and 170 feet below ground surface and were analyzed for the same list of parameters. Duplicate samples were collected at each depth if the recharge rates were high enough to allow the collection of duplicates. No VOCs were detected in these hydropunch samples except acetone, 2-butanone, vinyl chloride, and methylene chloride. Acetone and 2-butanone are common laboratory contaminants; acetone was found in trip blank samples. Therefore the detections of these compounds are not due to the landfill. Vinyl chloride and methylene chloride were found in the samples collected from 70 feet below ground surface at PBX-24D which is approximately 120 feet to the eastern end of Barrier 1. These detections define the lateral and vertical extent of VOCs in groundwater east of Barrier 1.

During the fourth quarter of 1997, the Sanitation Districts collected gas samples from ten gas monitoring probes located along Barrier 1. The results for the gas probe samples are presented in Table A.8. In general, for any probes with both an upper and lower screen interval, the VOC concentrations observed in the upper screen interval were less than those observed from the lower screen interval. Probe H, located the closest to the landfill, had the highest concentrations of VOCs. The gas samples from the lower screen interval of probe H had concentrations of tetrachloroethylene, trichloroethylene, cis-1,2-dichloroethylene, vinyl chloride, and 1,1-dichloroethane that exceeded 1000 parts per billion (ppb); and had concentrations of benzene that exceeded 100 ppb. The gas samples from the upper screen interval of probe H had concentrations of tetrachloroethylene, trichloroethylene, and cis-1,2-dichloroethylene that exceeded 1000 ppb; and had concentrations of vinyl chloride, 1,1-dichloroethane, and 1,2-dichloroethane that exceeded 100 ppb.

Probe B, located along the eastern edge of subsurface Barrier 1 adjacent to groundwater monitoring well M10B, had the next highest concentrations of VOCs. The gas sample from the lower screen interval of probe B had concentrations of tetrachloroethylene, trichloroethylene, cis-1,2-dichloroethylene, and 1,1-dichloroethane that exceeded 100 ppb; and the gas sample from the upper screen interval of probe B had concentrations of tetrachloroethylene that exceeded 100 ppb. These VOCs were also commonly detected in the groundwater samples from monitoring well M10B.

Along the property boundary of the landfill, probe B had the highest concentrations of VOCs. The VOC concentrations decrease in both the westerly and easterly directions from probe B. The gas sample from probe A, located approximately 100 feet to the west of probe B, had only one VOC, tetrachloroethylene, with concentrations that exceeded 100 ppb. The gas sample from probes 1R, C, and D, located approximately 100 feet, 200 feet, and 300 feet to the east of probe B, respectively,

had no significant VOC detections. The trace levels of VOCs found in the gas samples from probes 1R, C, and D is consistent with the fact that no VOCs were observed in the groundwater sample from EMP4, which is located approximately 50 feet east of probe D.

Gas monitoring probes C and D detected methyl tertiary butyl ether (MTBE), which is a commonly used additive for gasoline. The concentrations of toluene, ethyl benzene, and m+p xylene at monitoring probes C and D were higher than those observed at probes A and B. These VOCs are typically associated with gasoline. The presence of the both MTBE and these compounds at gas monitoring probes C and D suggests that the source of these VOCs may be gasoline, but not related to the landfill. These probes are located adjacent to Pomona (SR-60) freeway.

Based on monitoring results, landfill gas contact with groundwater is the cause of VOC detections in groundwater. The Sanitation Districts are in the process of developing a corrective action program that includes evaluating enhanced gas control measures along Barrier 1. Additional gas control wells will be installed, if warranted, in the eastern Barrier 1 area.

Barrier 3 Monitoring Wells

For monitoring wells R32B and R34B, the levels of all monitored general parameters in 1997 were within the concentration limits proposed in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program* except for field pH at R34B. The field pH values for the first and third quarters of 1997 of 6.74 and 6.83, respectively, were slightly lower than the proposed limit of 6.91. There were no other statistically significant changes in the levels of other monitoring parameters, nor were any VOCs detected at these wells. Background conditions for field pH can range from 4.21 to 8.25. Therefore, the detected levels of field pH at R34B are due to normal fluctuations of water quality, not landfill effects. There have been no historic water quality concerns related to the metals, BNAs, pesticides or herbicides. Therefore, these compounds were not analyzed at these wells in 1997.

Low levels of VOCs were detected at onsite monitoring wells M31A, and M33A downgradient of Barrier 3. The detected VOCs included trichloroethylene, vinyl chloride, 1,2-dichloroethane, and cis-1,2-dichloroethylene. No VOCs were detected above the MCL at M31A. Vinyl chloride and 1,2-dichloroethane were detected above the MCLs at M33A. Although VOCs were detected in these wells, the concentration levels for most of the typical leachate indicator parameters such as nitrate nitrogen, soluble BOD, soluble COD, total organic carbon, and total organic halogen were within the range of background water quality conditions as defined in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*. This indicates that these wells are not affected by leachate. Also during 1997, all detected soluble metals from these monitoring wells were below the MCL levels for drinking water. This indicates that metals are not a water quality concern for these monitoring wells.

5.2.3 Canyon 9

For Canyon 9 monitoring wells M24A, M27B, and M29B, the levels of all monitored general parameters in 1997 were within the concentration limits proposed in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*. No VOCs were detected from these monitoring wells in 1997. There have been no historic water quality concerns related to the metals, BNAs, pesticides, or herbicides. Therefore, these compounds were not analyzed at these wells in 1997.

5.2.4 Eastern Canyons

For Eastern Canyons monitoring wells M41A, M42A, and M43A, the levels of some the monitored general parameters in 1997 show increasing or decreasing trends. The trends in the general parameter concentrations were not caused by the landfill because there were no confirmed detections of other water quality parameters indicative of a landfill effect, such as VOCs. VOCs are excellent indicators of landfill effect, especially in the early stages of refuse placement. The fluctuations in the general parameter concentrations may be due to natural or man-made conditions. Naturally occurring, long term, seasonal trends are commonly observed in groundwater monitoring data. Construction activities such as soil excavation and the installation of a subsurface barrier affect groundwater recharge patterns, resulting in permanent changes in down-canyon groundwater quality. Proposed concentration limits for monitoring wells M41A, M42A, and M43A are included in the *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* which was submitted to the RWQCB in February 1998.

During the fourth quarter of 1997, the groundwater sample for M43A detected high concentrations of chloride, soluble BOD, and soluble COD. The reported values for chloride, soluble BOD, and soluble COD for this sample were 1420 mg/l, 95 mg/l, and 1630 mg/l, respectively. These values were not consistent with previous samples taken from this well. The overall charge balance (between the major anions and cations) for this sample had a high percent difference because of the high chloride value. Also, the high soluble BOD and COD values were not consistent with the low total organic carbon values. Additional groundwater samples were taken from monitoring well M43A on January 6 and January 7 of 1998, and analyzed for the major anions and cations as well as soluble BOD, soluble COD, and total organic carbon. The results did not confirm the previously detected high values of chloride, soluble BOD, and soluble COD. These high values of chloride, soluble BOD, and soluble COD from monitoring well M43A will be treated as outliers and not included in any subsequent data analysis.

During 1997, all detected soluble metals from M41A, M42A, and M43A were below the MCL for drinking water. This indicates that metals are not a water quality concern for these monitoring wells. During 1997, there were no VOC detections at M41A, M42A, and M43A. There have been no historic water quality concerns related to the BNAs, pesticides, or herbicides. Therefore, these compounds were not analyzed at these wells in 1997.

5.2.5 Offsite Monitoring Wells and Piezometers

During 1997, the Sanitation Districts monitored offsite evaluation monitoring wells, EMP1, EMP2, EMP3, EMP5, and M16A, as part of the EMP. During 1997, no VOCs were detected at these monitoring wells except for EMP5 and M16A. One VOC, 1,2-dichloroethane, was detected at EMP5 at a level slightly above the MCL. The detected levels (between 0.5 and 0.8 ug/l), however, were below the practical quantitation limit (1.5 ug/l) for this compound. At monitoring wells M16A and EMP1, which are located to the west and hydraulically downgradient of EMP5, 1,2-dichloroethane was below the method detection limit of 0.3 ug/l. This indicates that the extent of landfill effect on groundwater is limited to EMP5. Groundwater flowing toward the Whittier Narrows beyond EMP5 is not affected by the Puente Hills Landfill.

During 1997, five VOCs, chloroform, 1,1,1-trichloroethane, 1,1-dichloroethene, tetrachloroethylene, and 1,1-dichloroethane were detected at monitoring well M16A. Three of these VOCs, 1,1,1-trichloroethane, 1,1-dichloroethene, and tetrachloroethylene, are common San Gabriel Groundwater Basin contaminants associated with industrial activities. The compound 1,1-dichloroethane is a degradation product for 1,1,1-trichloroethane. Chloroform is rarely detected at onsite groundwater monitoring wells at the Puente Hills Landfill. Elevated levels of nitrate nitrogen, a common San Gabriel Valley Basin contaminant, was also detected at M16A. These monitoring results indicate that groundwater at M16A is not affected by the Puente Hills Landfill, but is affected by industrial activities in the San Gabriel Groundwater Basin.

The Sanitation Districts also sampled, in 1997, four temporary piezometers (EB1-S, EB1-D, EB2-S, and EB2-SO) located offsite and downgradient of Barrier 1 from the Puente Hills Landfill (refer to exhibit 14). The results for the samples collected from these offsite piezometers are presented in Table A.6. No VOCs, BNAs, pesticides, herbicides, or organophosphorus compounds were detected in any of these offsite piezometers except diethylhexyl phthalate which was detected at piezometers EB1-D and EB2-S. As discussed earlier, phthalates are widely used plasticizers and are common laboratory contaminants. Therefore, the detection of this compound does not indicate a landfill effect. Based on these results, the VOCs found in groundwater immediately downgradient of Barrier 1 does not extend northward beyond the Pomona (SR-60) freeway.

5.3 SURFACE WATER MONITORING RESULTS

The surface runoff monitoring consists of obtaining runoff water samples at locations SD1, SD9, and SD11. The results for the surface runoff monitoring for 1997 are presented in Table A.10. The concentrations of the compounds analyzed in the surface runoff samples were compared to the maximum contaminant levels (MCLs) for drinking water. None of the general parameters or VOCs exceeded the MCLs. Only one soluble metal concentration exceeded its respective MCL. Soluble antimony was detected at locations SD9 and SD11 with corresponding concentrations of 0.0071 mg/l

and 0.008 mg/l, respectively; which exceeded the MCL of 0.006 mg/l. Several total metals concentrations exceeded the MCL at each of the sampling locations. The MCL exceedances are due to the solids in the runoff. Elevated levels of solids are expected in the runoff because of constant earth moving activities at the landfill. The native solids naturally contain metals constituents.

No VOCs were detected above the method detection limit (MDL) at any of the discharge points (SD1, SD9, and SD11), except for toluene and acetone. Toluene was detected once at SD11 at a concentration of 0.5 ug/l, which corresponds to its method detection limit. The MCL for toluene is 150 ug/l; therefore, this detection of toluene does not pose a threat to surface water quality. Acetone was detected once at SD1 at a concentration of 27 ug/l, once at SD9 with a concentration of 39 ug/l, and twice at SD11 with concentrations of 25 ug/l and 52 ug/l. Because acetone was also detected in one of the equipment blanks, the detection of acetone is not considered to be related to the landfill. Acetone is a potential laboratory contaminant. There is no MCL for acetone. Therefore, these detections pose no threat to downstream surface water quality.

5.4 LCRS MONITORING RESULTS

The Canyon 9 LCRS and the Eastern Canyons LCRS were sampled in April and October of 1997 pursuant to RWQCB Order No. 93-062. In addition, the Eastern Canyons LCRS was sampled in July and December of 1997 in accordance with a letter dated March 4, 1997 from the RWQCB to the Sanitation Districts approving a revised groundwater monitoring program for the Eastern Canyons area. Table A.9 summarizes the LCRS water monitoring results.

During 1997, all general parameters except nitrate nitrogen were detected at the Canyon 9 LCRS. Metals and inorganics detected at the Canyon 9 LCRS include total and soluble arsenic, total and soluble barium, total and soluble copper, total and soluble nickel, and total selenium. VOCs detected at the Canyon 9 LCRS include vinyl chloride, 1,2-dichloroethane, benzene, toluene, ethyl benzene, o-xylene, 1,2-dibromoethane, cis-1,2-dichloroethylene, 2-butanone, and m+p-xylene. BNAs detected at the Canyon 9 LCRS include diethylhexyl phthalate, naphthalene, and m+p-cresol. The compound diethylhexyl phthalate is a widely used plasticizer and is a common laboratory contaminant. Therefore, the detection of this compounds may not be related to the landfill. No pesticides, herbicides, or organophosphorus compounds were detected at the Canyon 9 LCRS during 1997.

During 1997, all general parameters were detected at the Eastern Canyons LCRS. Metals and inorganics detected at the Eastern Canyons LCRS include total arsenic, total and soluble barium, total and soluble copper, total and soluble lead, soluble nickel, total and soluble selenium, total and soluble zinc, and total and soluble antimony. VOCs detected at the Eastern Canyons LCRS include methylene chloride, carbon tetrachloride, 1,1-dichloroethene, trichloroethylene, tetrachloroethylene, chlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, benzene, toluene, ethyl benzene, o-xylene, freon 11, and m+p-xylene. No BNAs, pesticides, herbicides, or organophosphorus compounds were detected at the Eastern Canyons LCRS during 1997.

5.5 REUSE WATER MONITORING RESULTS

The reused water in the Eastern Canyons was sampled pursuant to Monitoring and Reporting Program No. 7336, Section V. Table A.11 summarizes the reused water monitoring results. During 1997, the reused water met the onsite water reuse requirements specified in Provision E of Waste Discharge Requirements Order No. 93-070.

FIGURES 1 - 64
WATER QUALITY DATA GRAPHS
BARRIER 1 MONITORING WELLS

FIGURE 1
PUENTE HILLS LANDFILL
DEPTH TO WATER
BARRIER ONE MONITORING WELLS

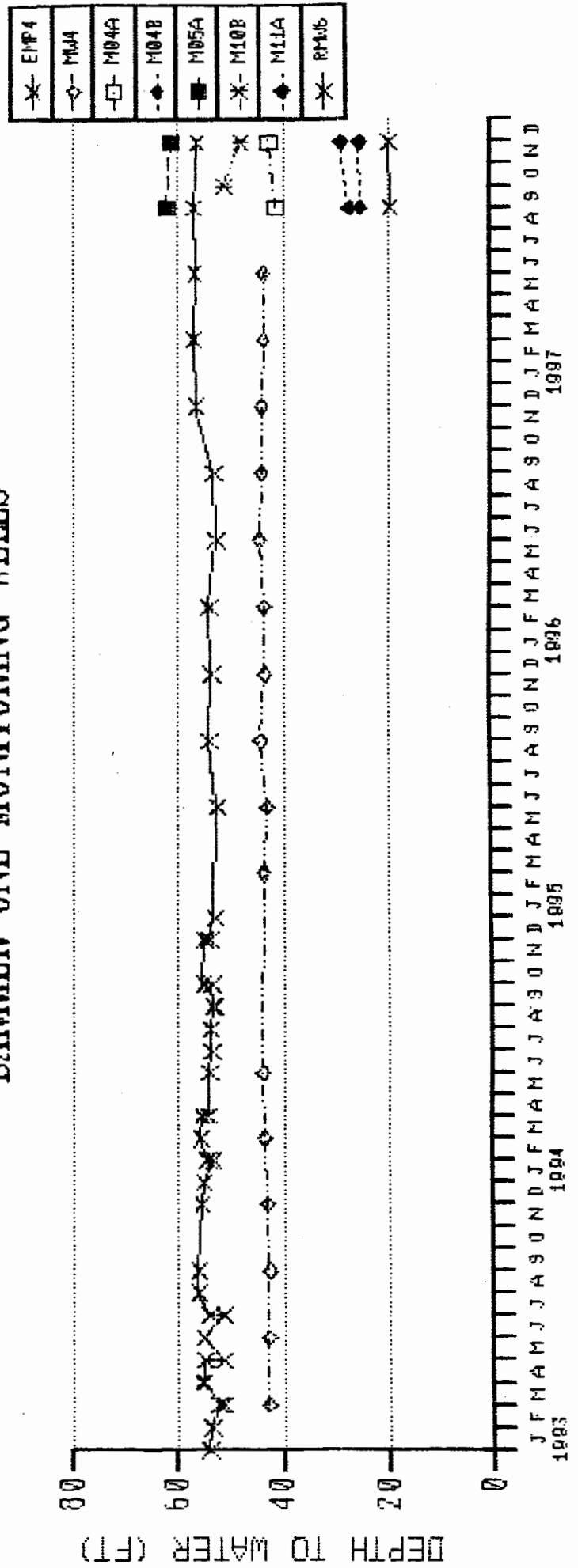


FIGURE 2
PUENTE HILLS LANDFILL
DEPTH TO BOTTOM
BARRIER ONE MONITORING WELLS

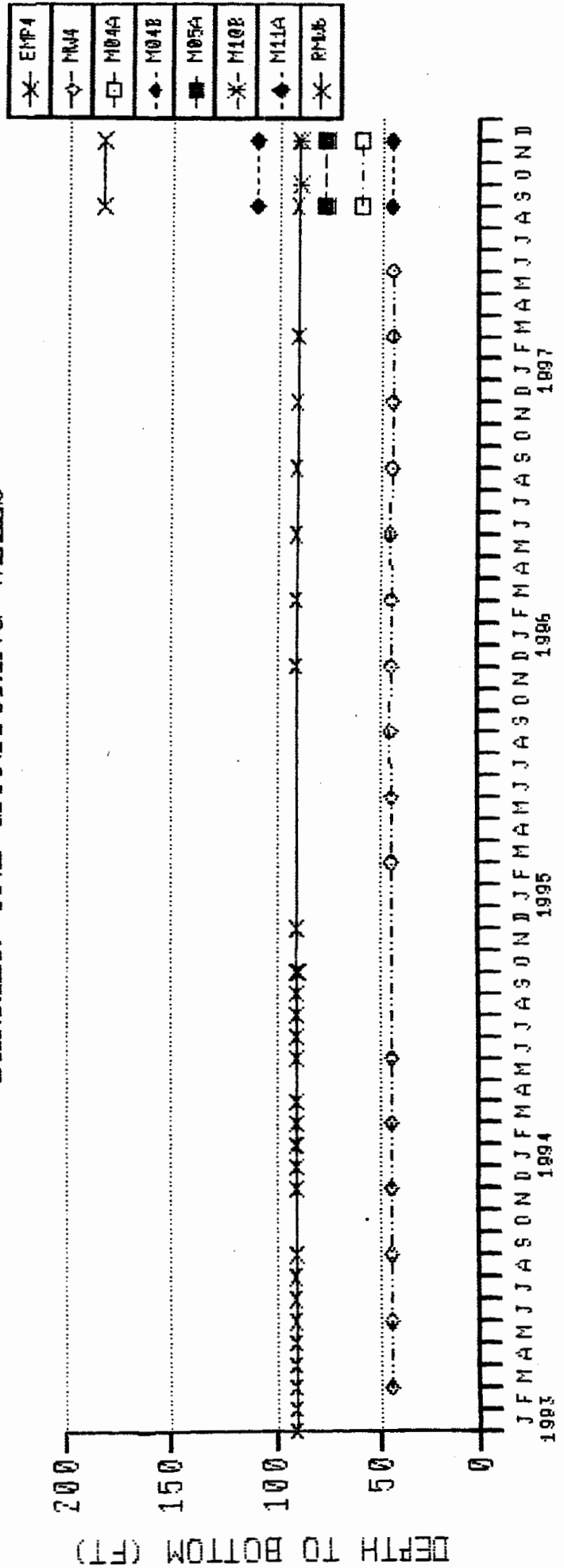


FIGURE 3
 PUENTE HILLS LANDFILL
 PERCENT METHANE IN GAS
 BARRIER ONE MONITORING WELLS

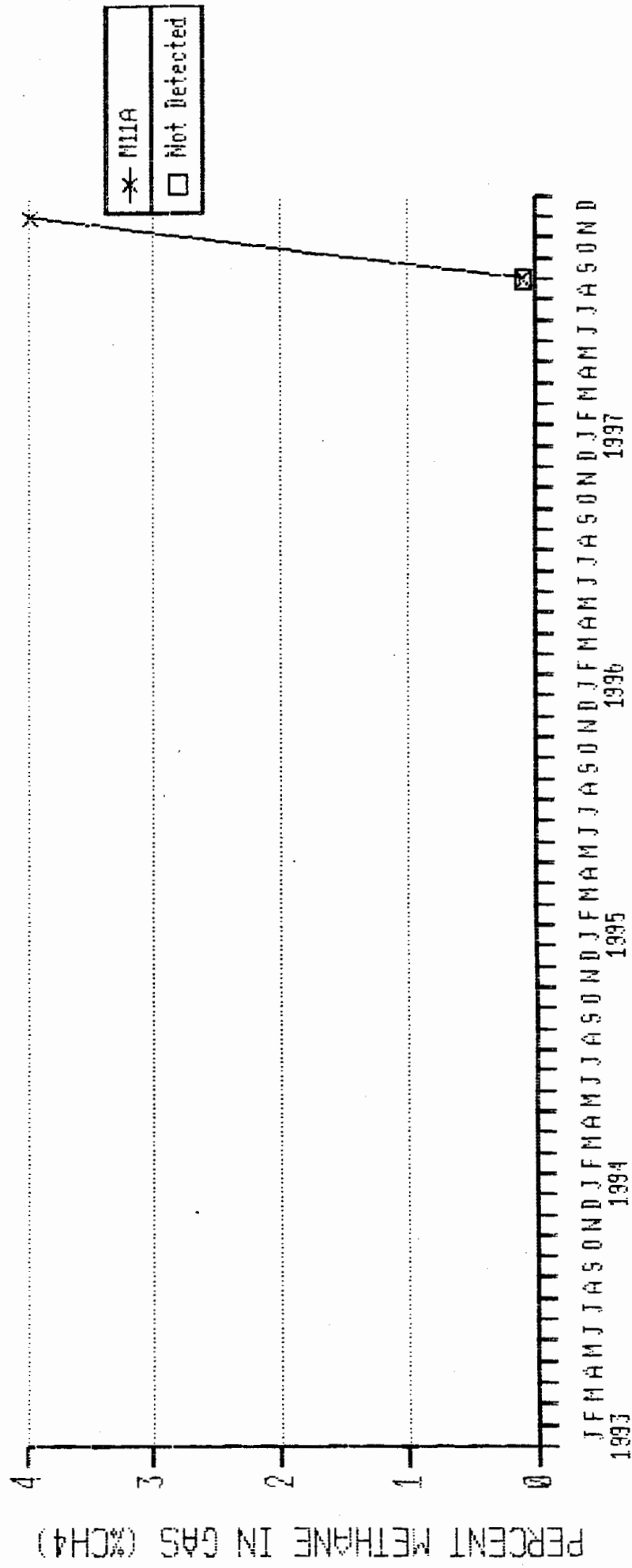


FIGURE 4
PUENTE HILLS LANDFILL
PERCENT OXYGEN IN GAS
BARRIER ONE MONITORING WELLS

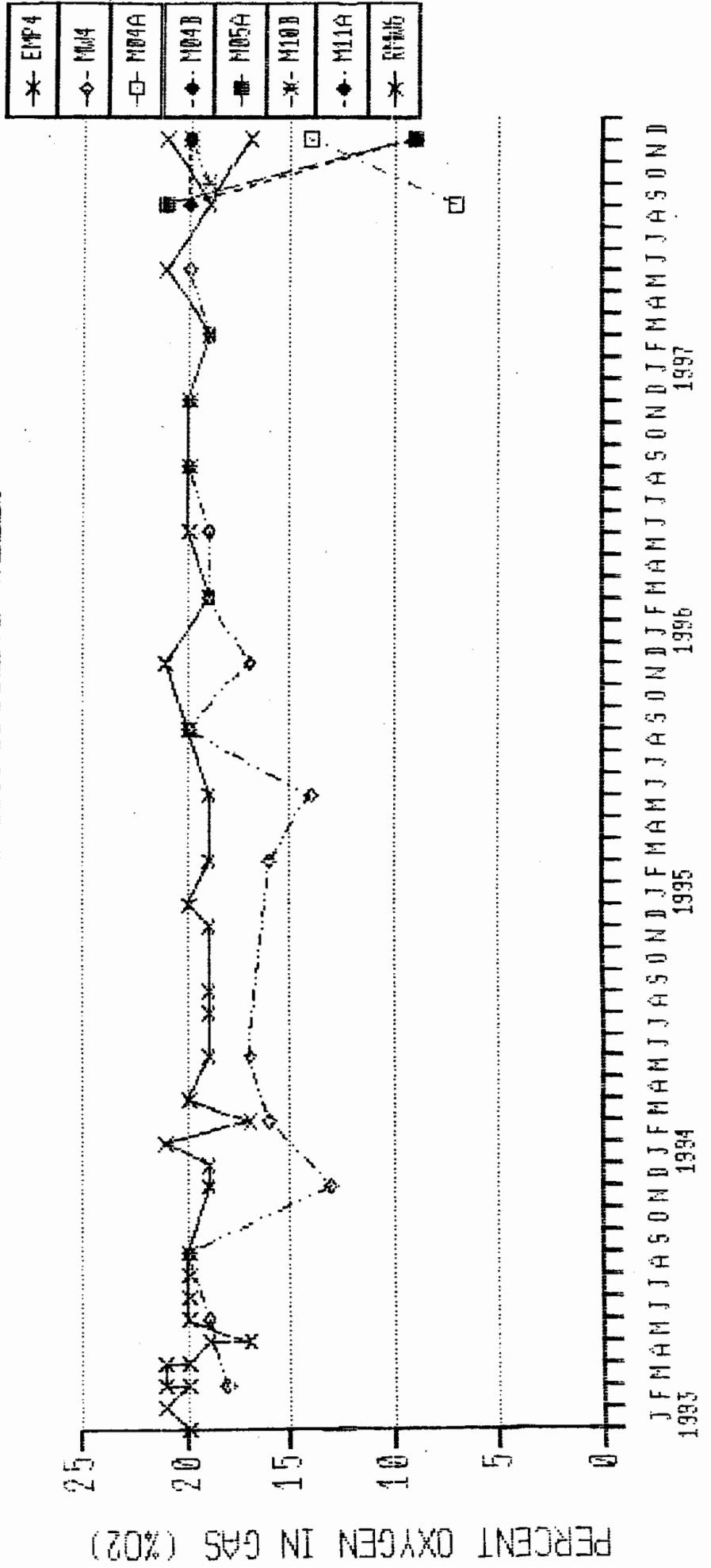


FIGURE 5
 PUENTE HILLS LANDFILL
 FIELD WATER TEMPERATURE
 BARRIER ONE MONITORING WELLS

EMPA	M04A	M04B	M05A	M10B	M11A	RM06
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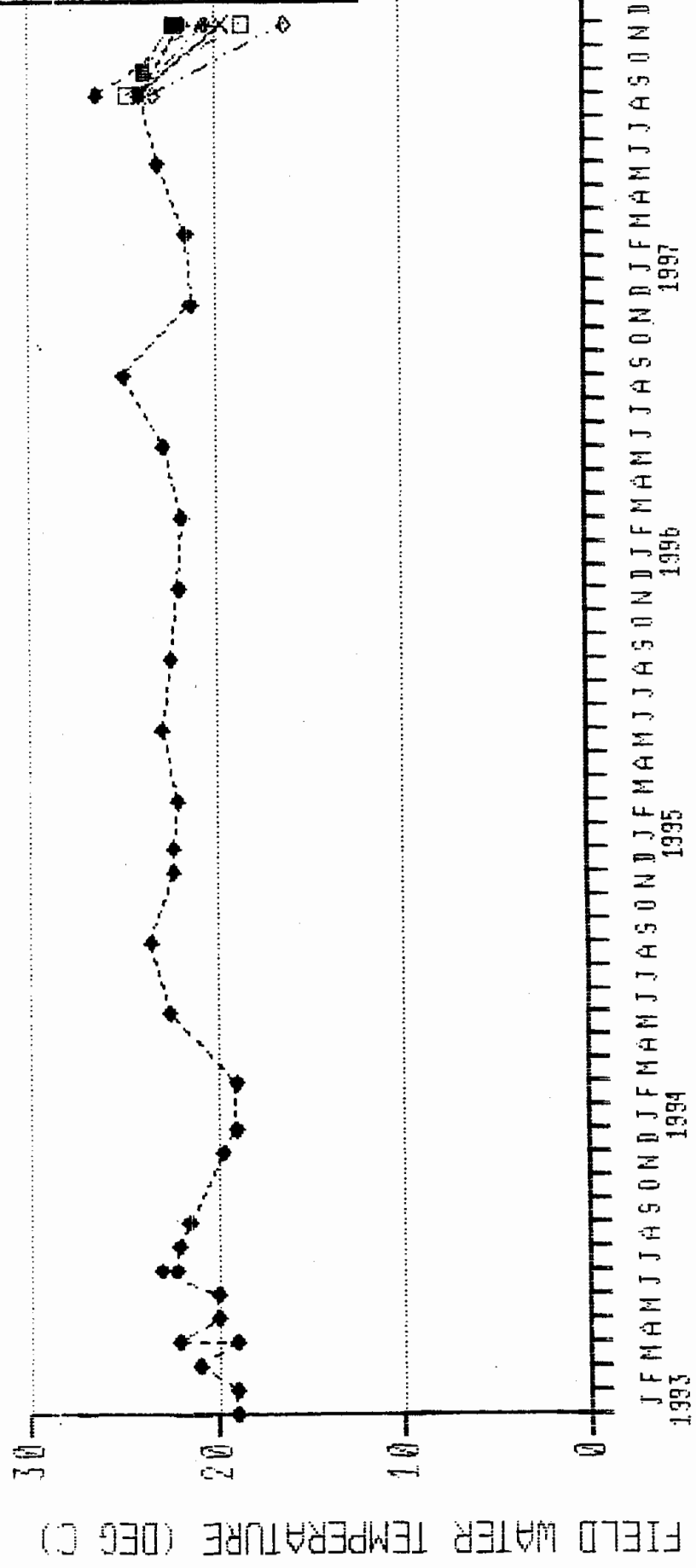


FIGURE 6
PUENTE HILLS LANDFILL
FIELD PH
BARRIER ONE MONITORING WELLS

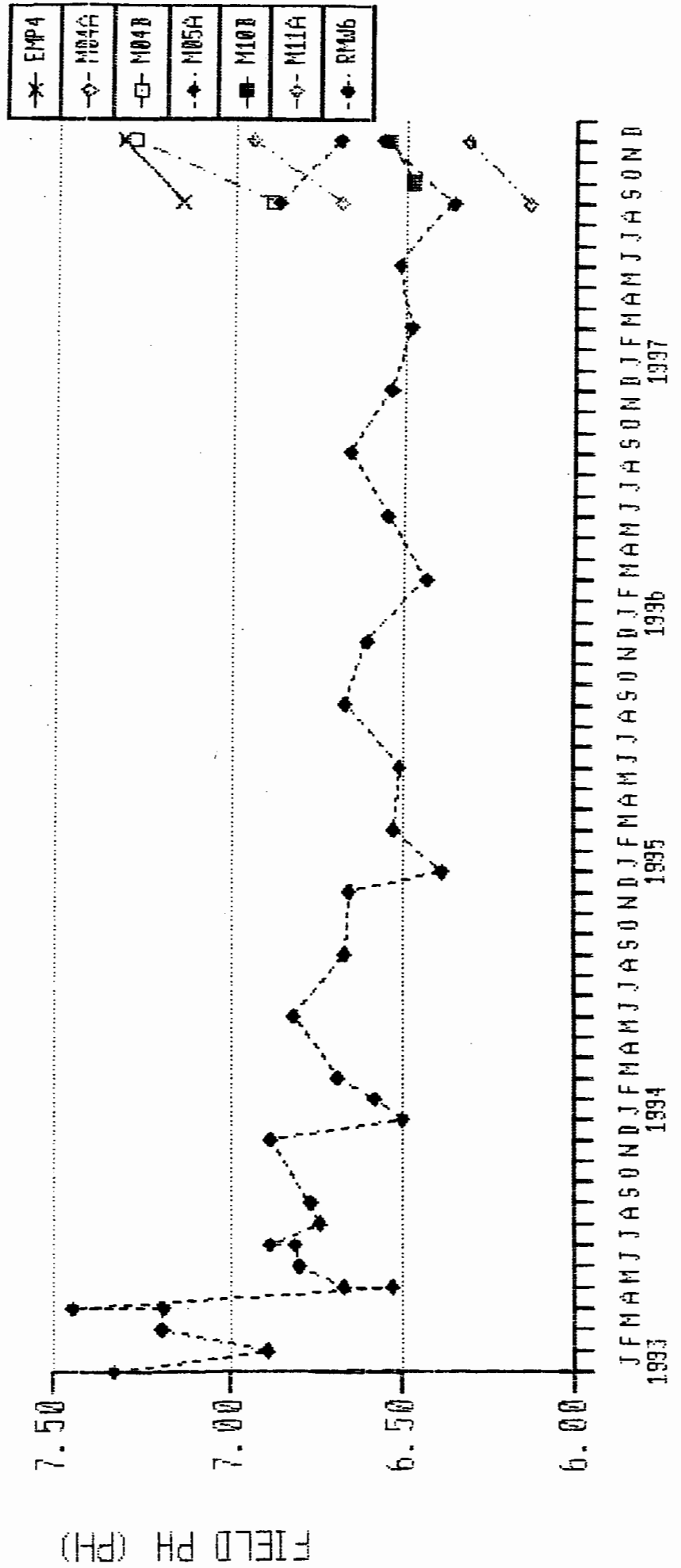


FIGURE 7
PUENTE HILLS LANDFILL
FIELD CONDUCTIVITY
BARRIER ONE MONITORING WELLS

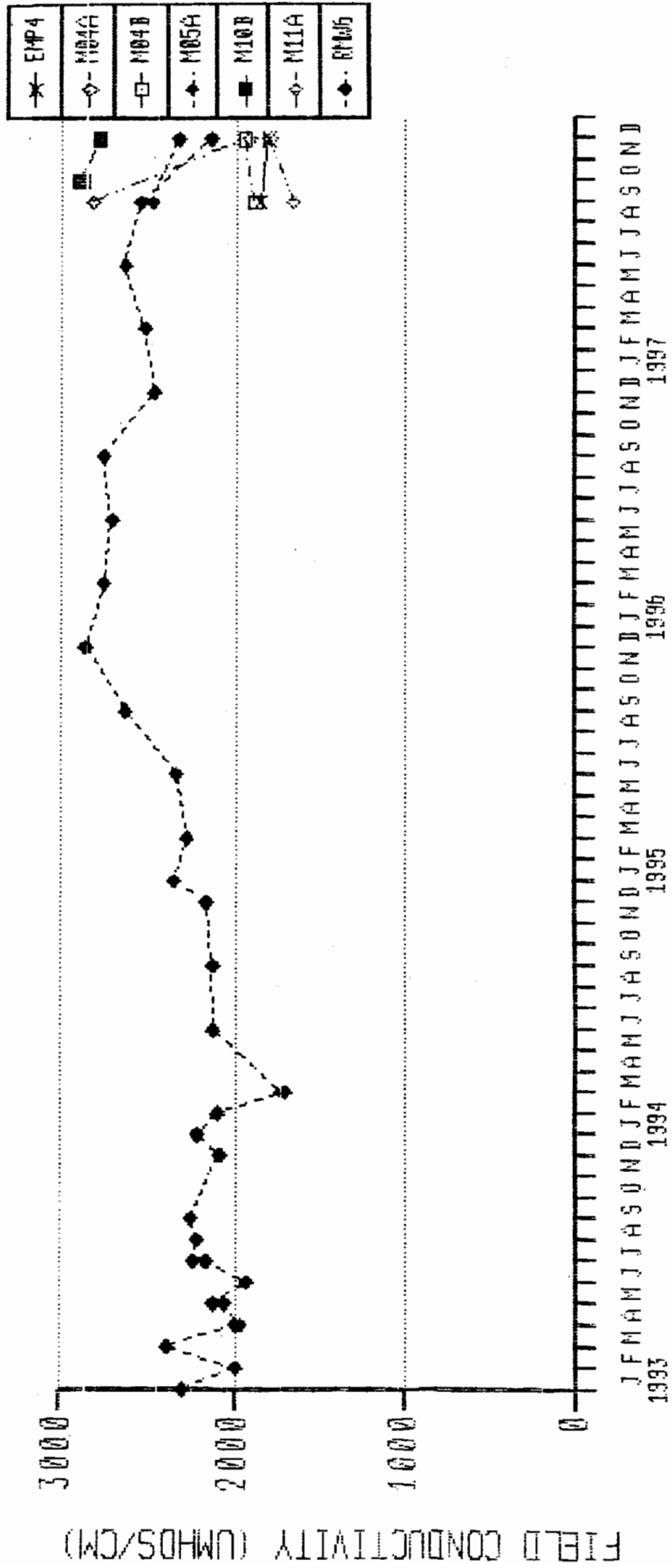


FIGURE 9
 PUENTE HILLS LANDFILL
 FIELD DISSOLVED CO₂
 BARRIER ONE MONITORING WELLS

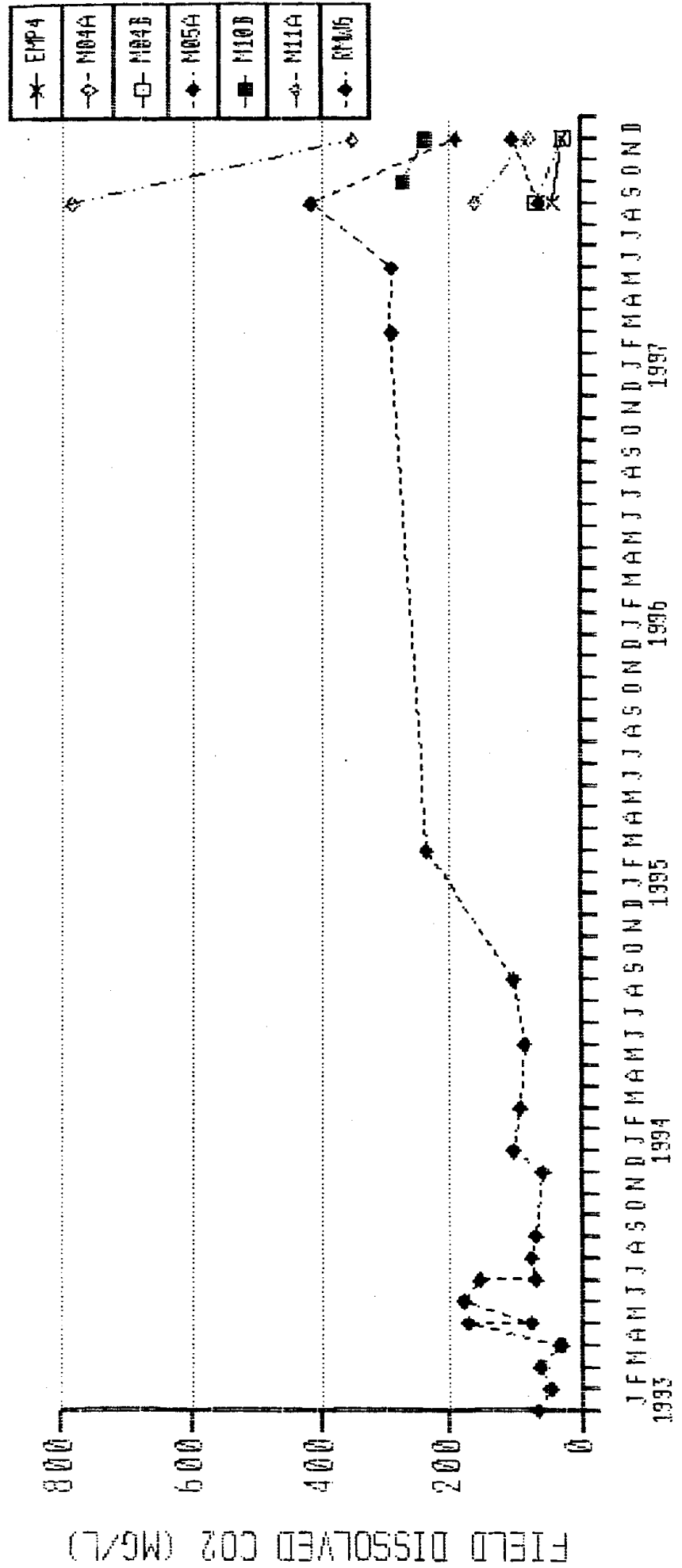


FIGURE 10
PUNTE HILLS LANDFILL
PH
BARRIER ONE MONITORING WELLS

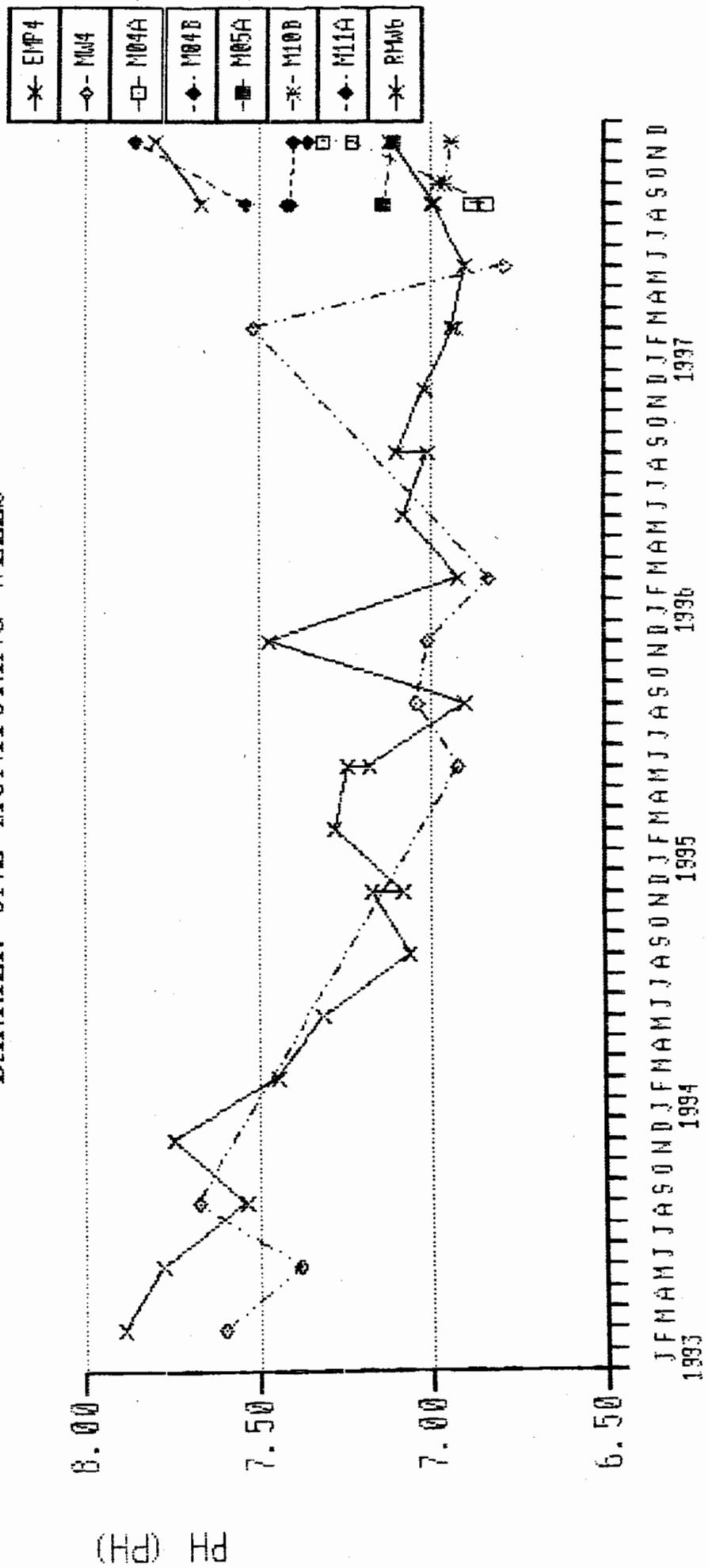


FIGURE 11
PUENTE HILLS LANDFILL
CONDUCTIVITY
BARRIER ONE MONITORING WELLS

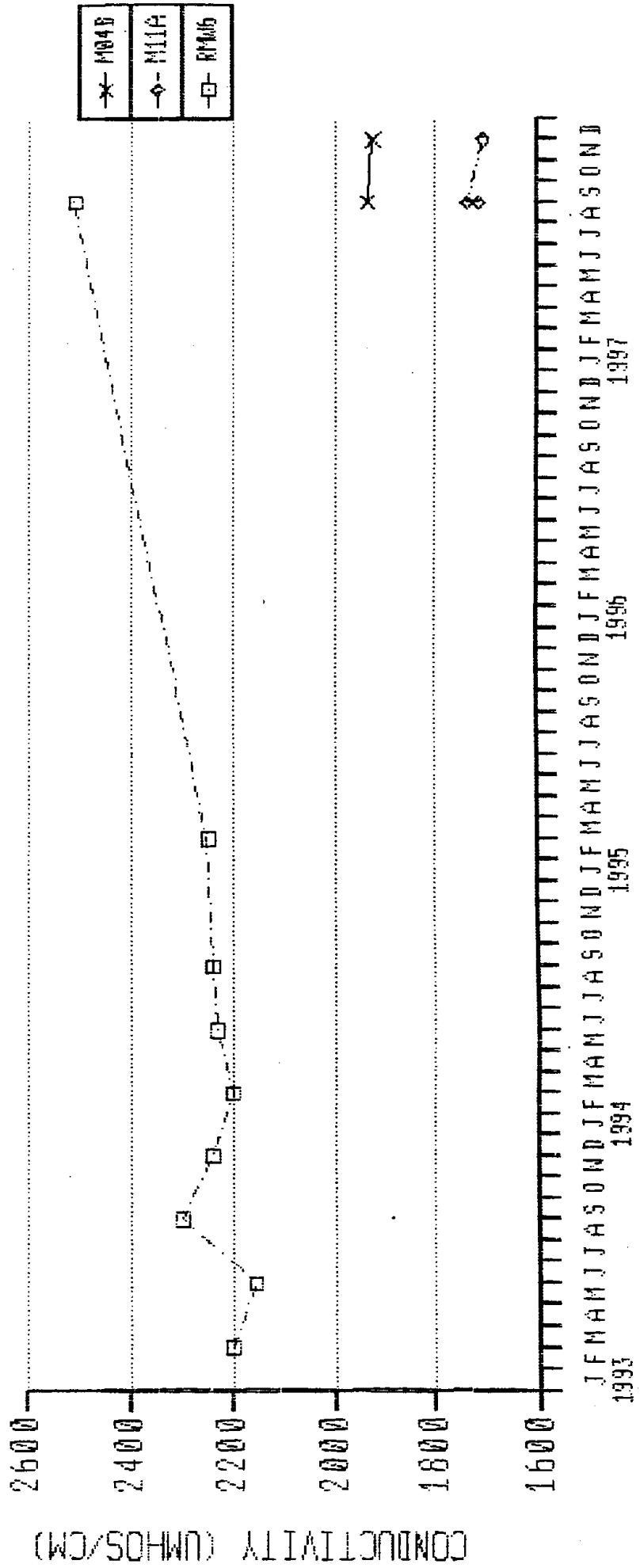


FIGURE 13
PUENTE HILLS LANDFILL
TOTAL SULFIDE
BARRIER ONE MONITORING WELLS

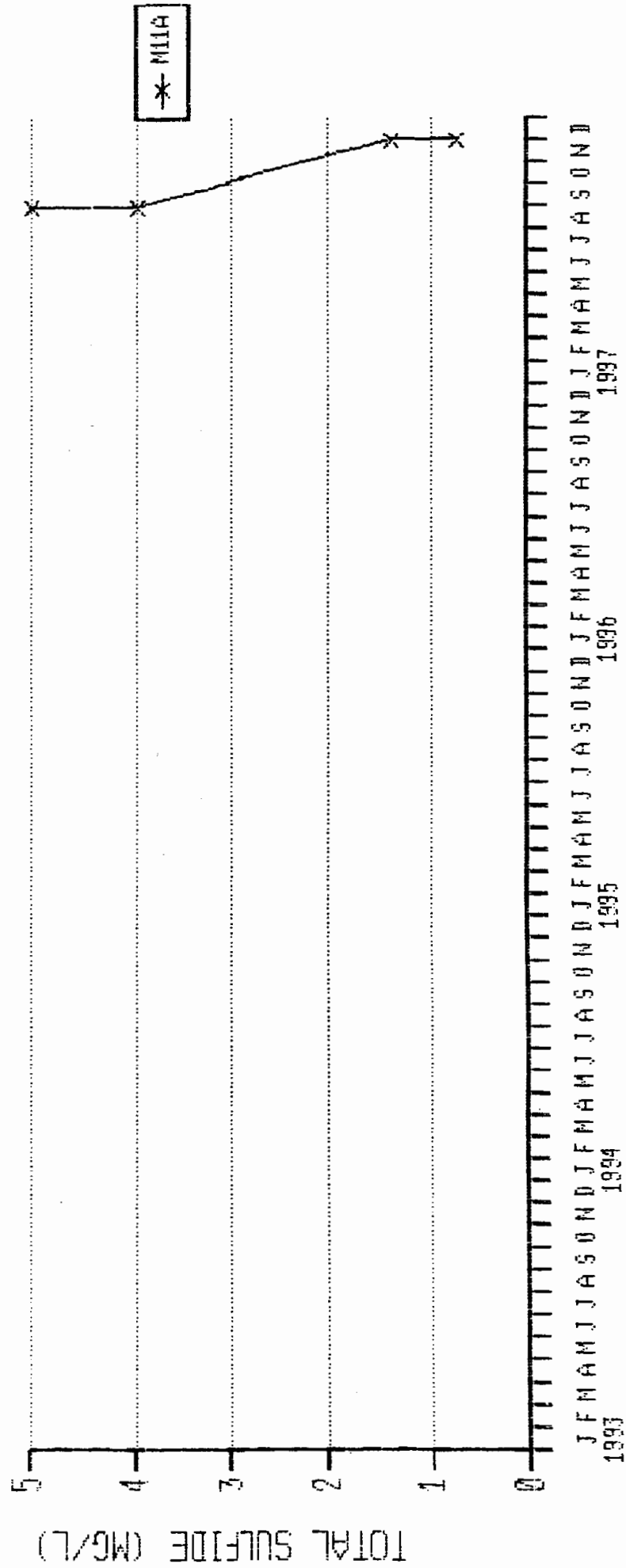


FIGURE 14
PUENTE HILLS LANDFILL
TOTAL HARDNESS
BARRIER ONE MONITORING WELLS

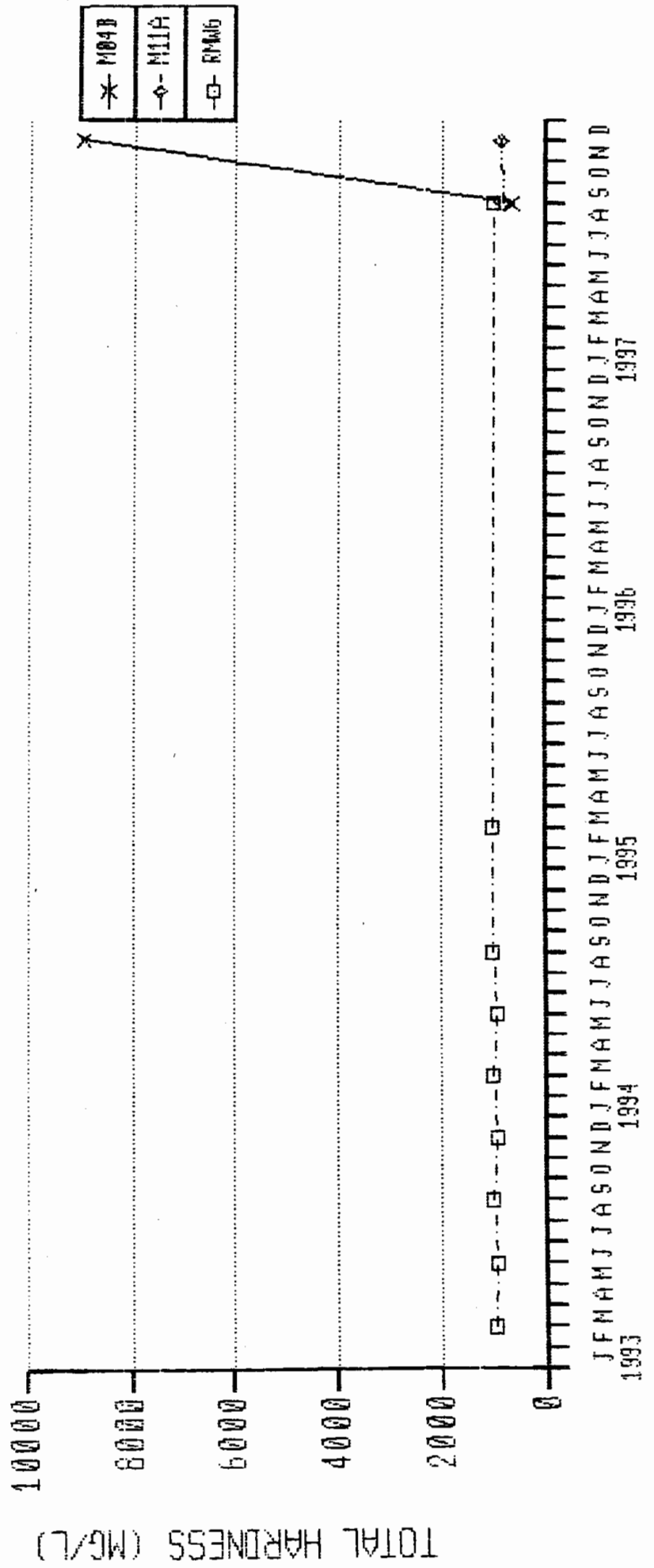


FIGURE 15
PUENTE HILLS LANDFILL
BORON
BARRIER ONE MONITORING WELLS

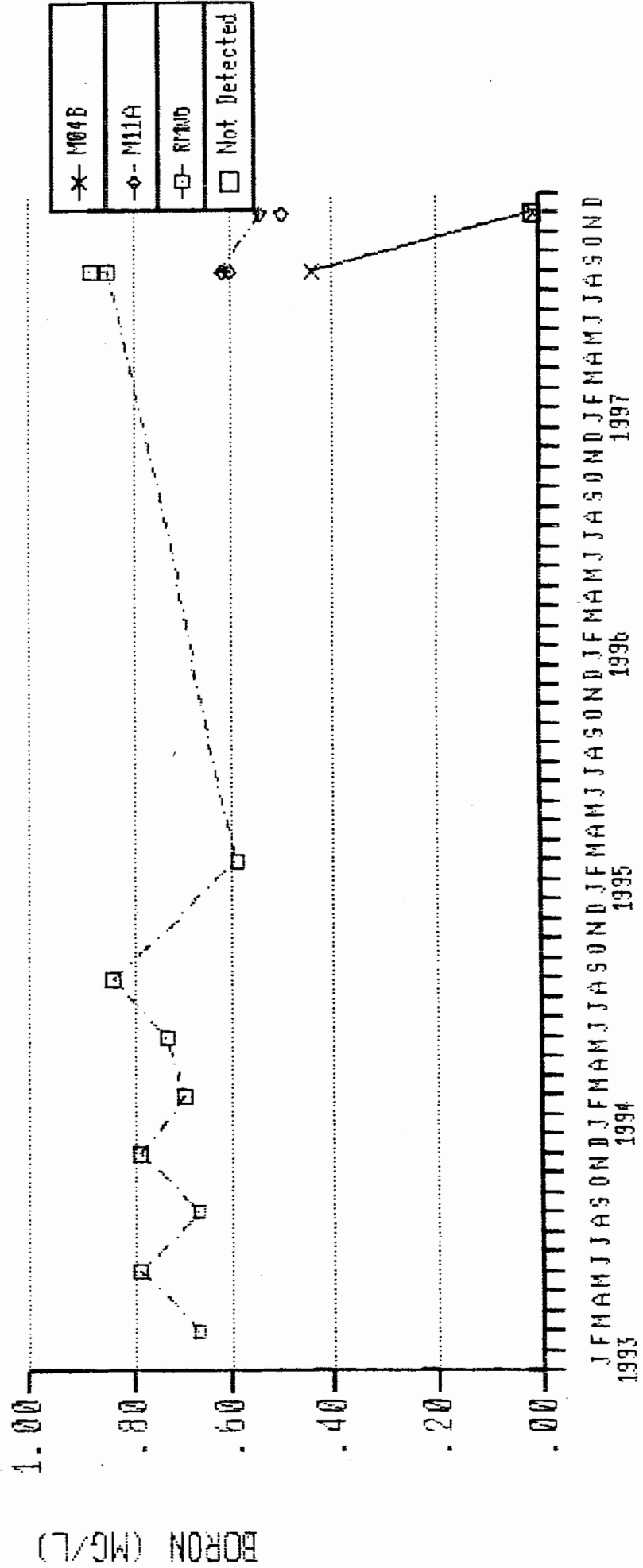


FIGURE 16
PUENTE HILLS LANDFILL
NITRATE NITROGEN
BARRIER ONE MONITORING WELLS

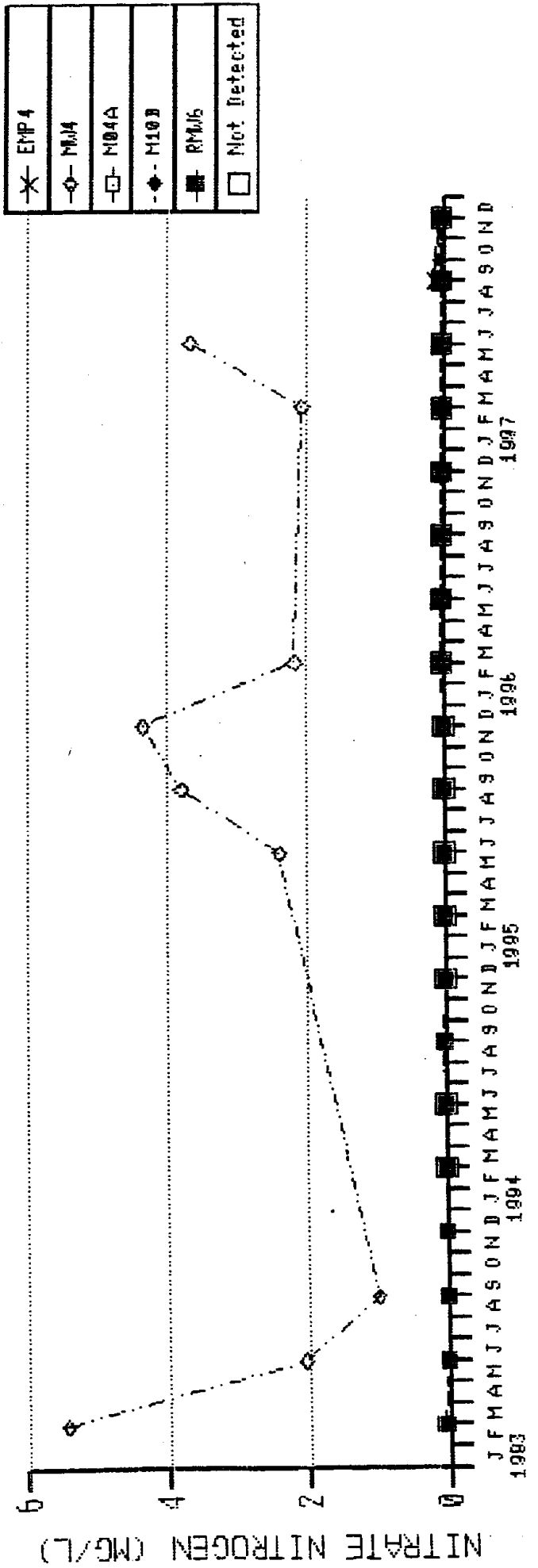


FIGURE 18
PUENTE HILLS LANDFILL
CHLORIDE
BARRIER ONE MONITORING WELLS

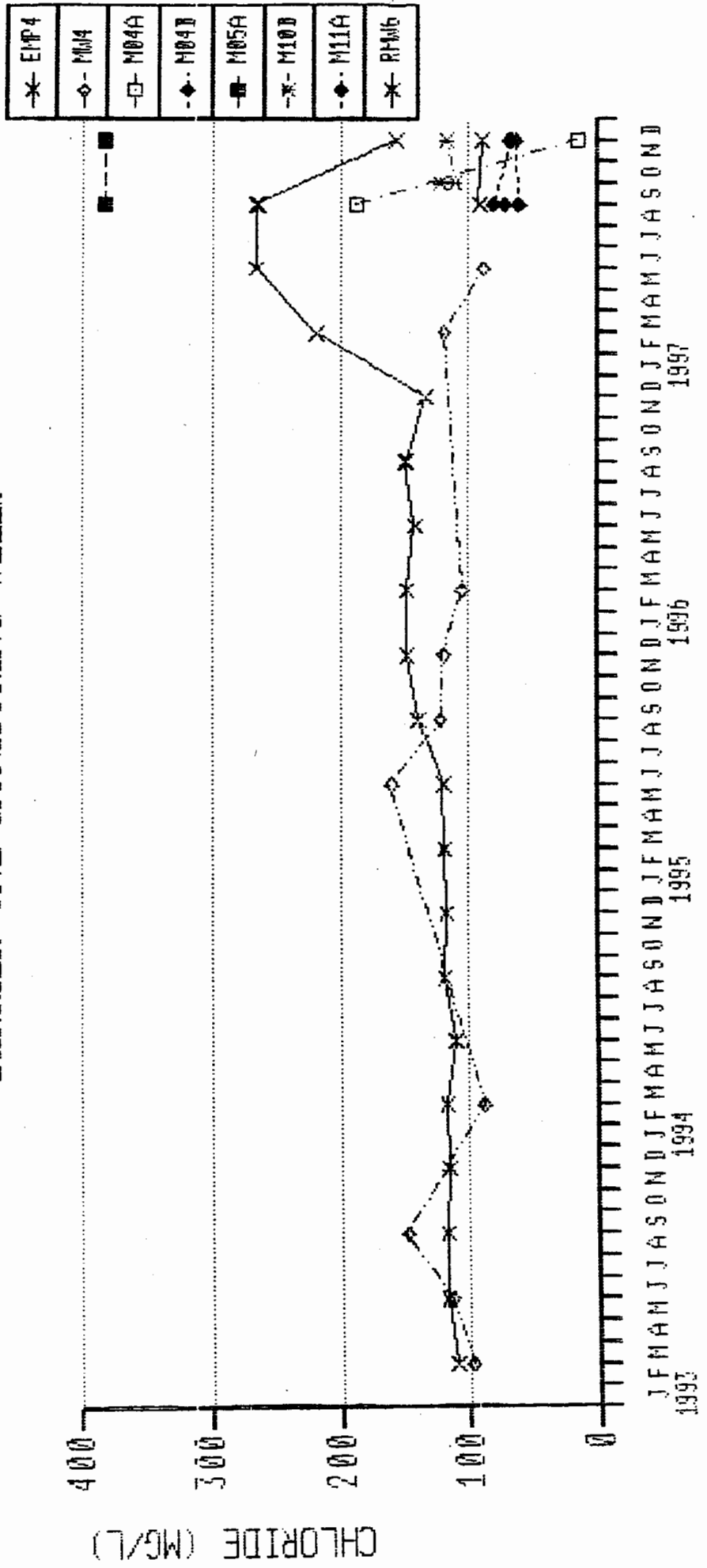


FIGURE 19
PUENTE HILLS LANDFILL
TOTAL ALKALINITY
BARRIER ONE MONITORING WELLS

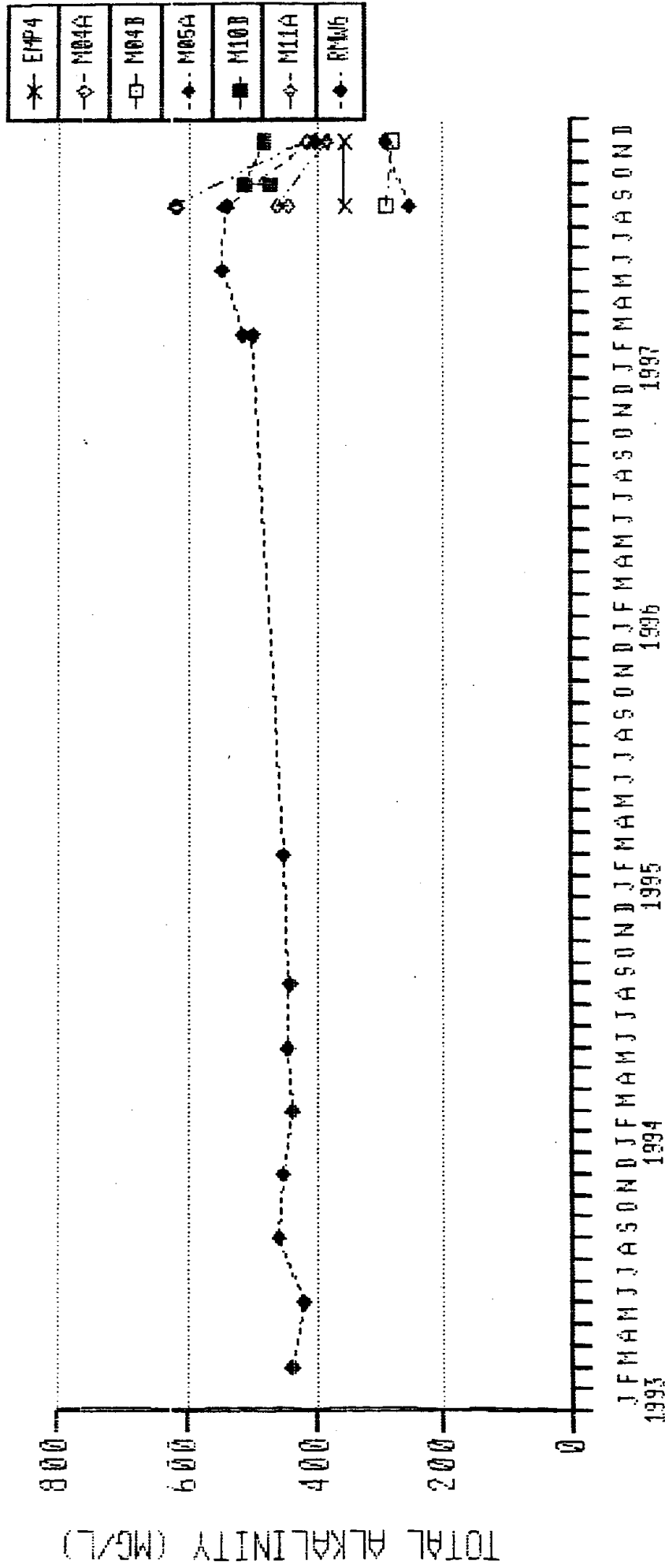


FIGURE 20
PUENTE HILLS LANDFILL
FLUORIDE
BARRIER ONE MONITORING WELLS

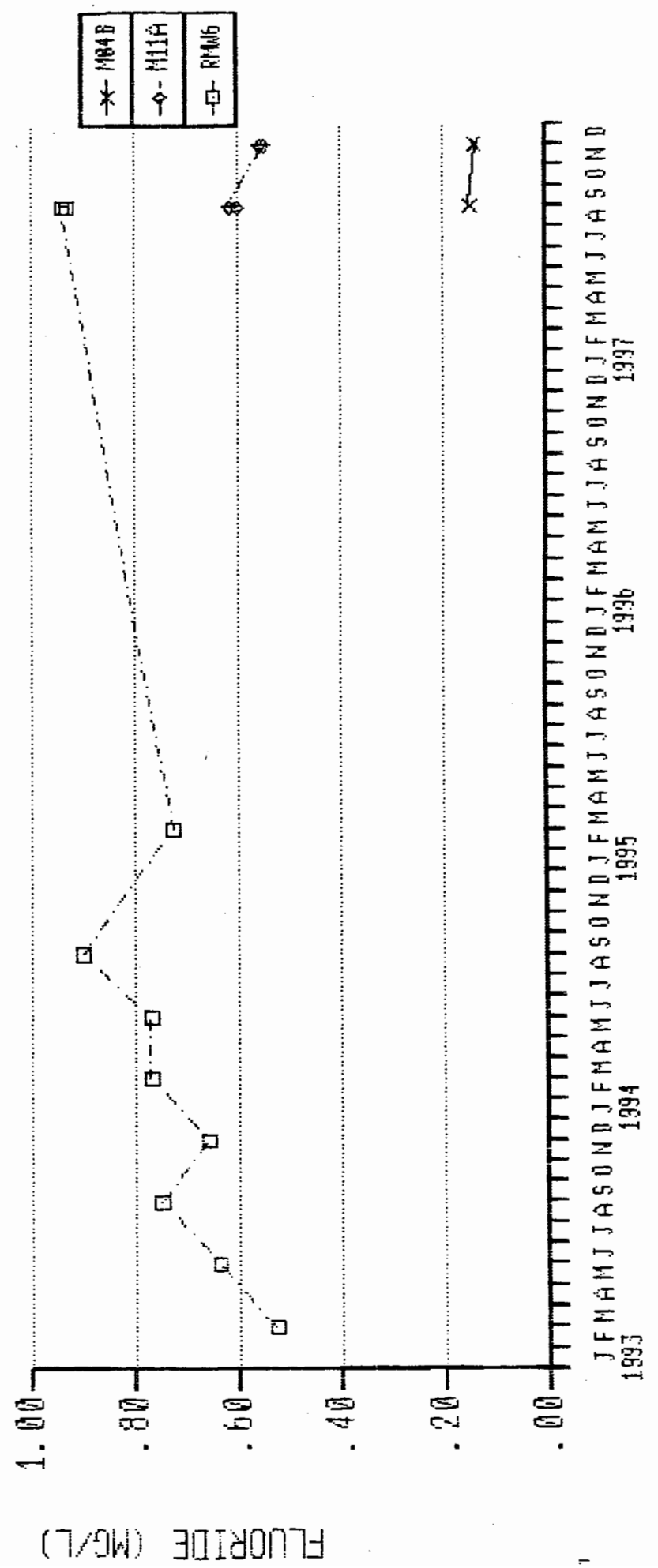


FIGURE 21
FUENTE HILLS LANDFILL
BICARBONATE ALKALINITY
BARRIER ONE MONITORING WELLS

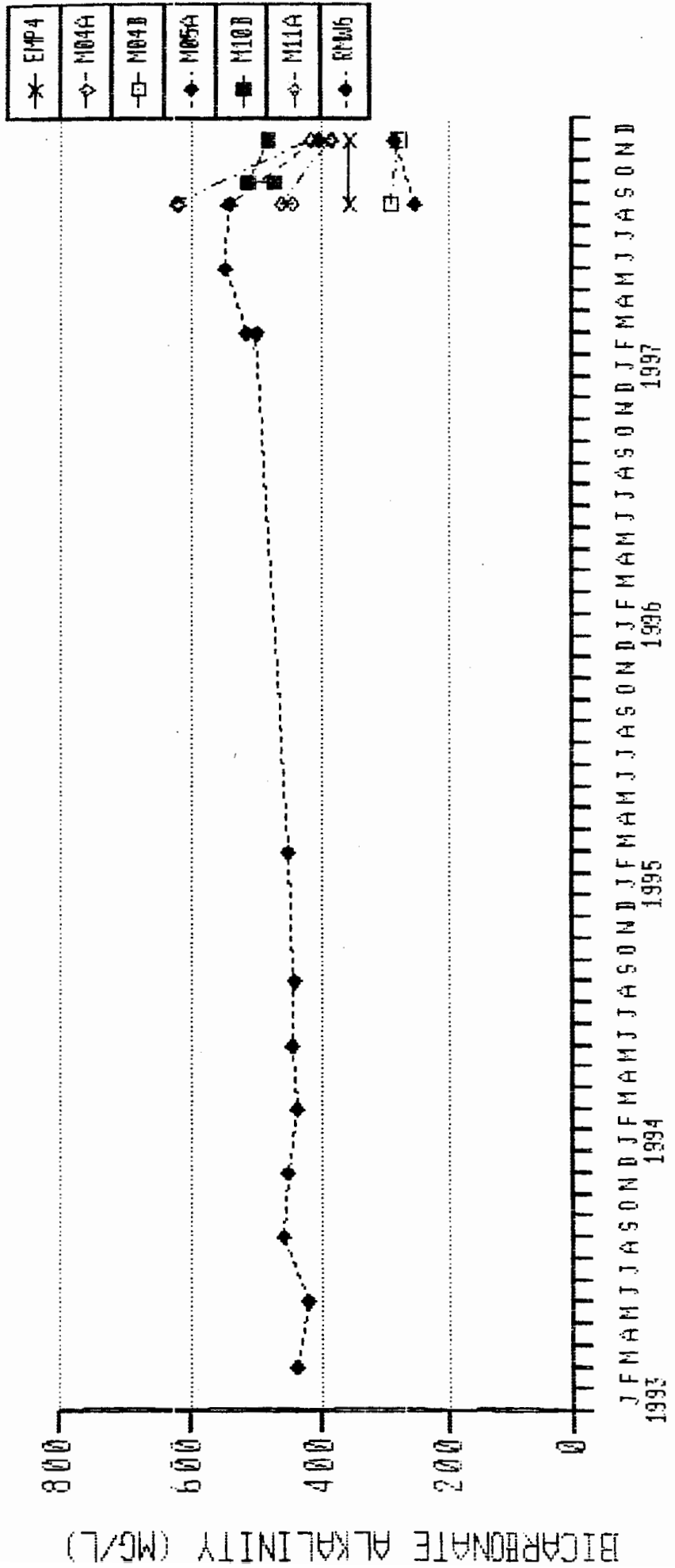


FIGURE 24
PUENTE HILLS LANDFILL
SODIUM
BARRIER ONE MONITORING WELLS

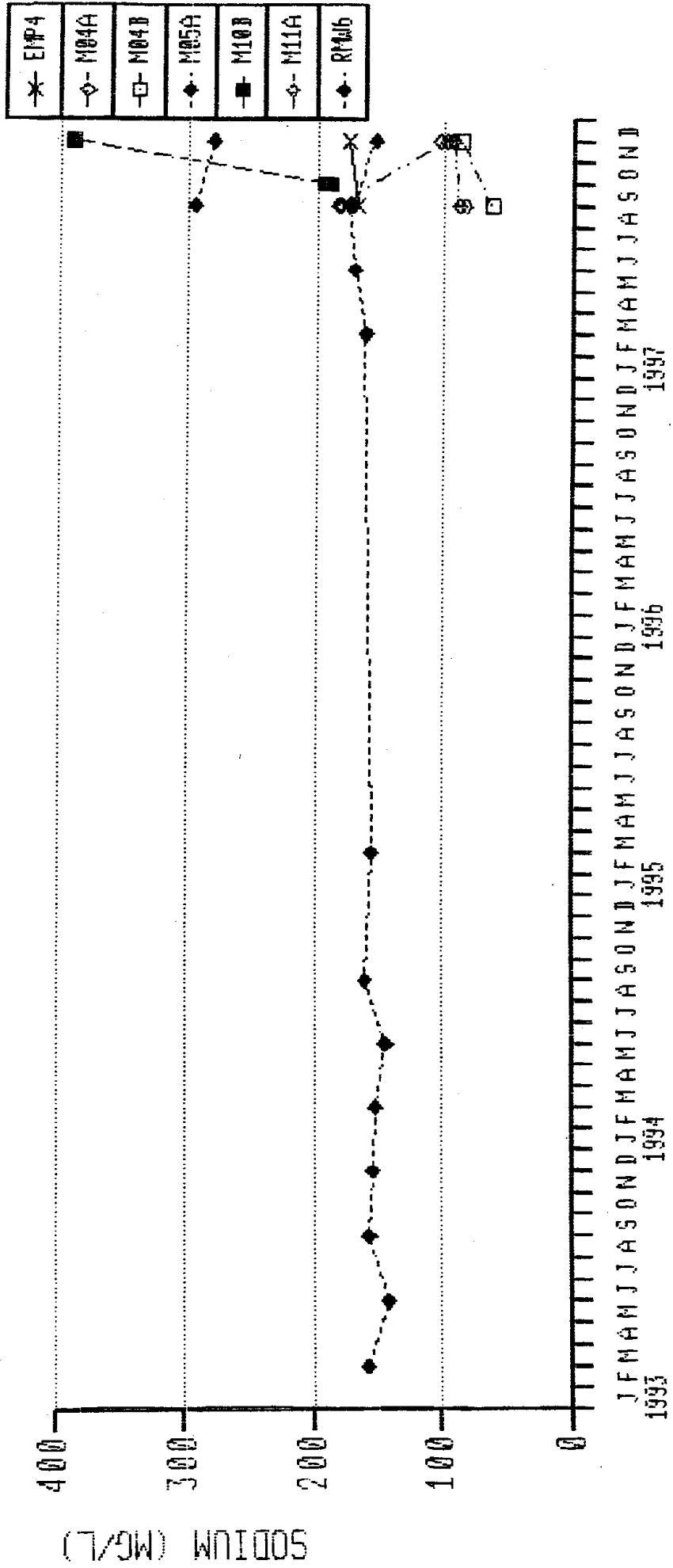
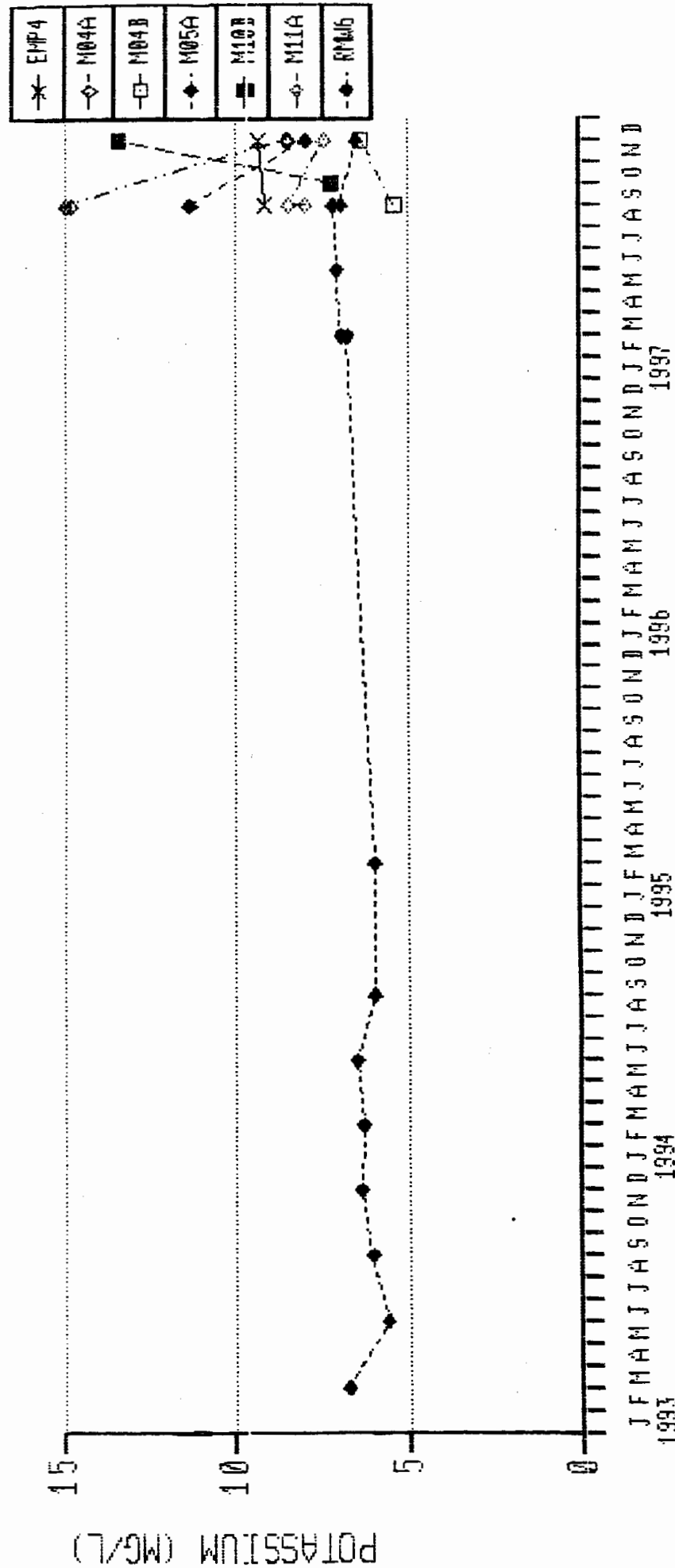
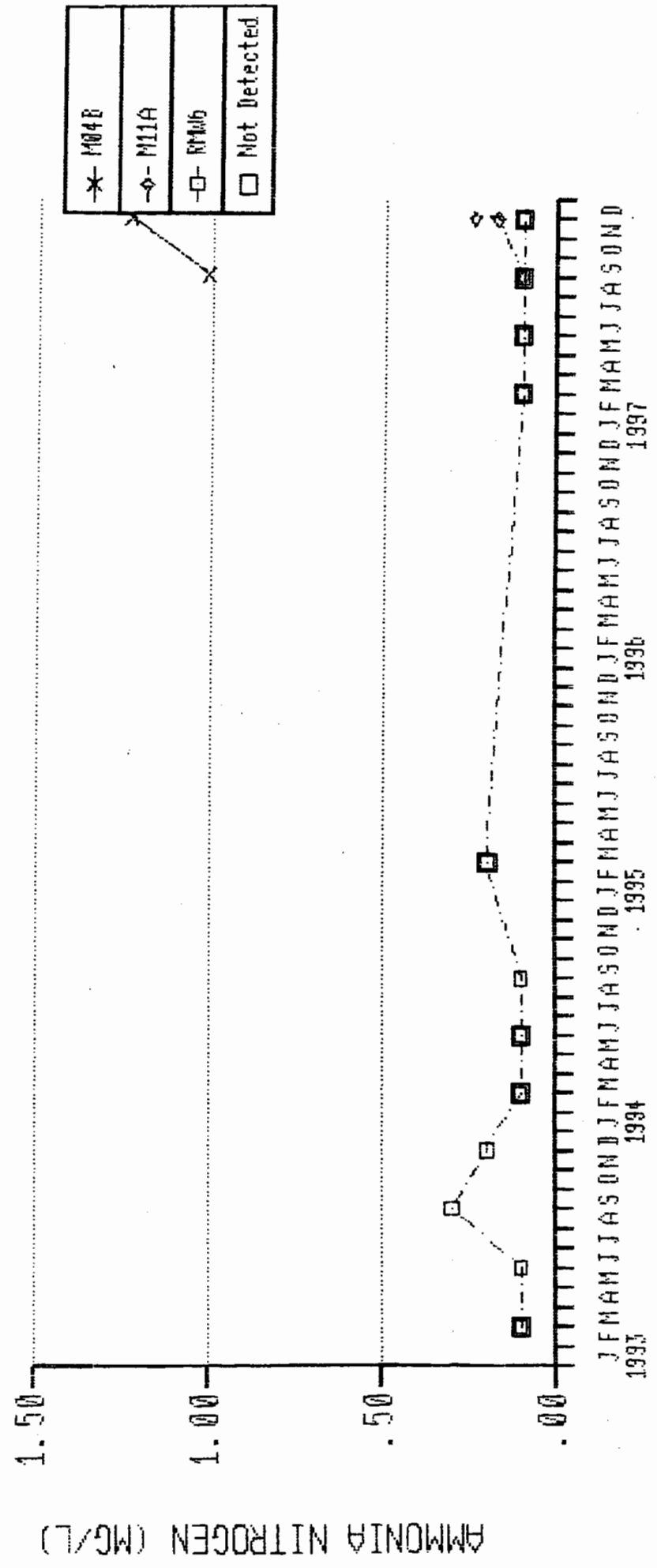


FIGURE 25
PUEENTE HILLS LANDFILL
POTASSIUM
BARRIER ONE MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 28
PUENTE HILLS LANDFILL
AMMONIA NITROGEN
BARRIER ONE MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 29

PUENTE HILLS LANDFILL

TOTAL BOD

BARRIER ONE MONITORING WELLS

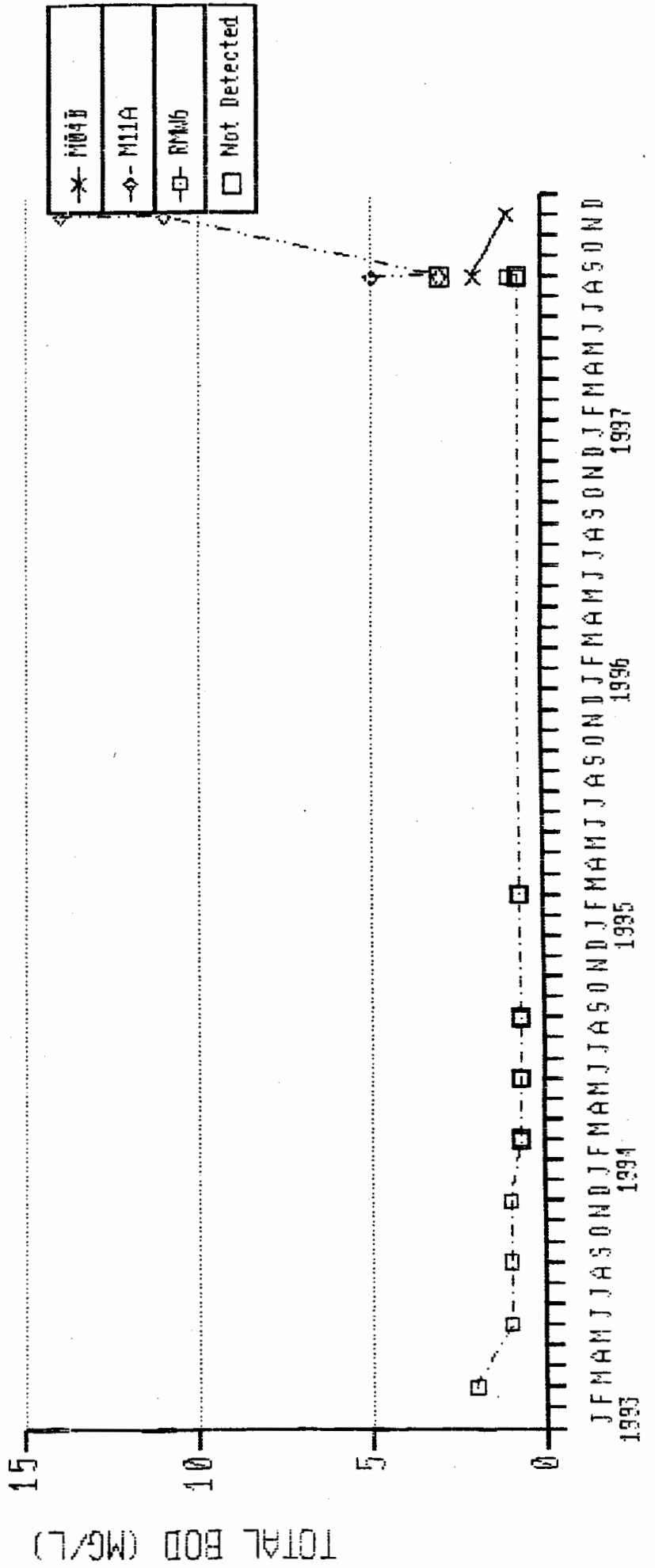
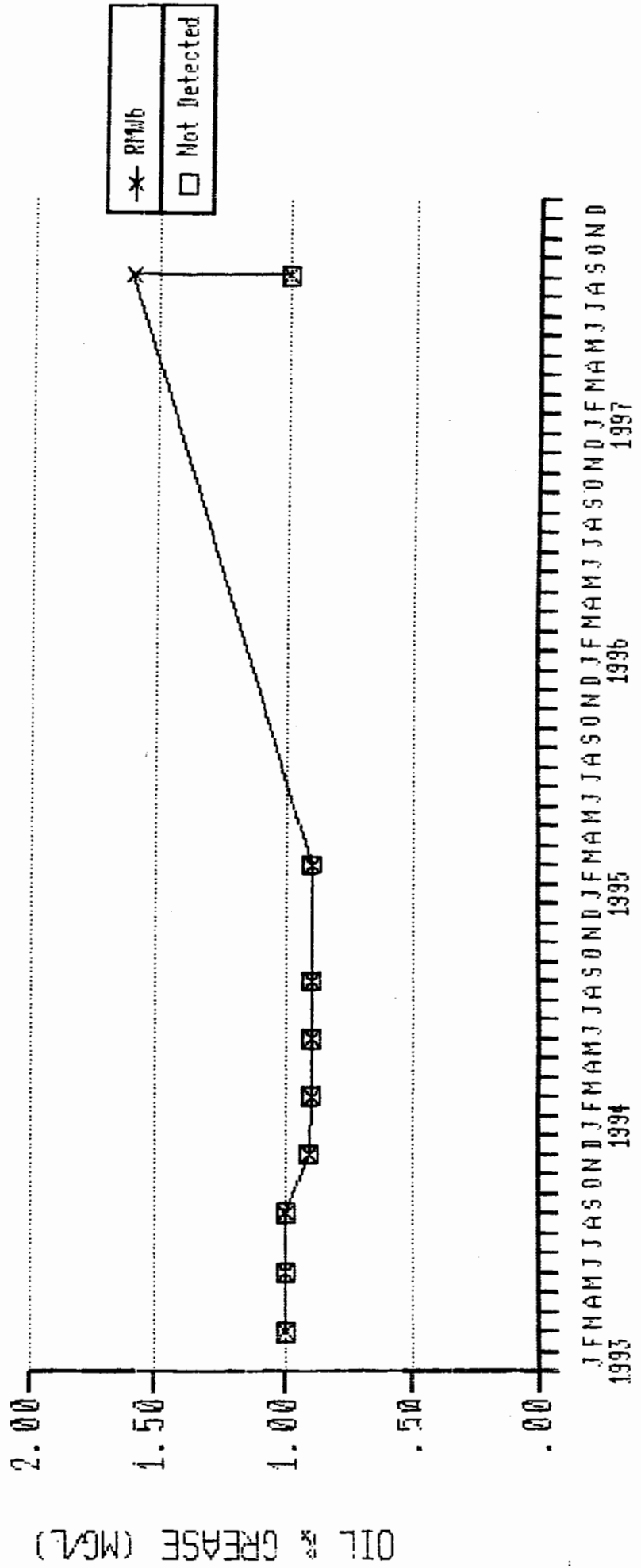


FIGURE 34
PUENTE HILLS LANDFILL
OIL & GREASE
BARRIER ONE MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 35

PUENTE HILLS LANDFILL
TOTAL ORGANIC HALOGEN
BARRIER ONE MONITORING WELLS

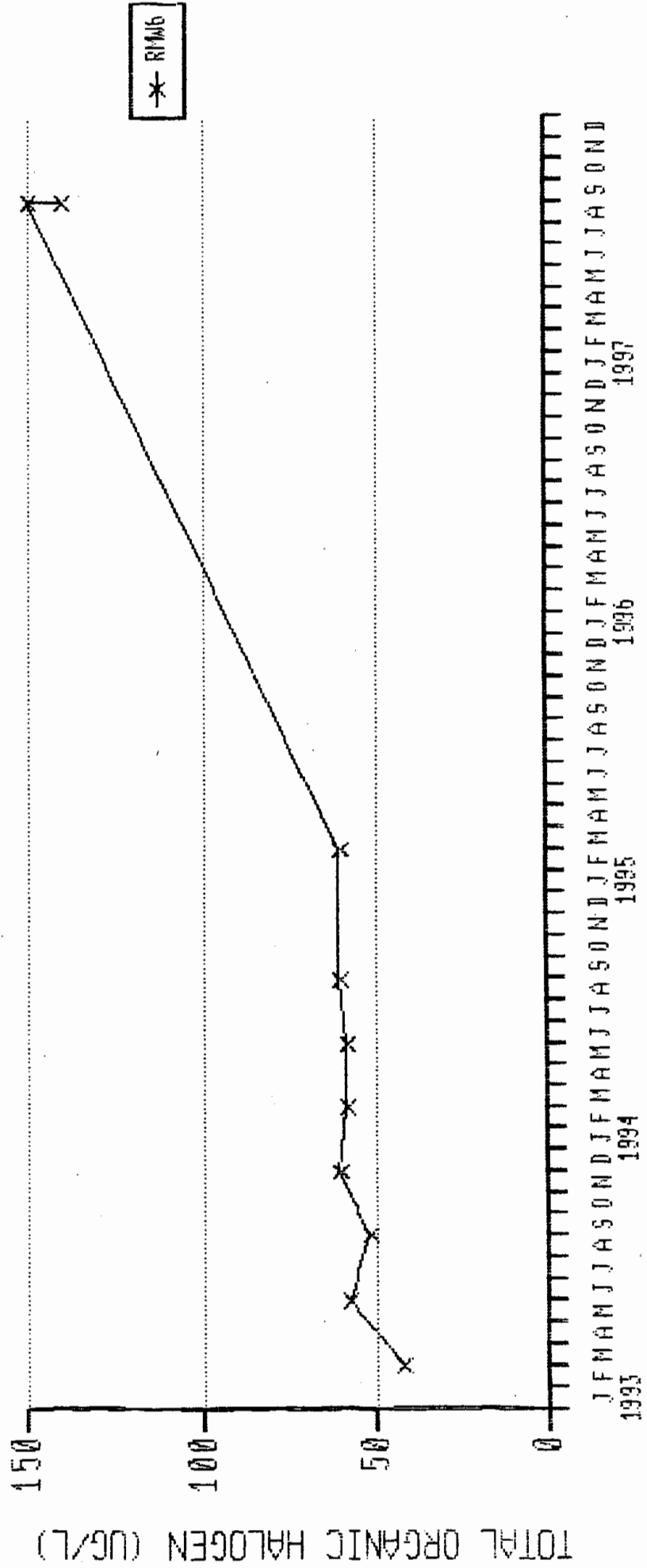
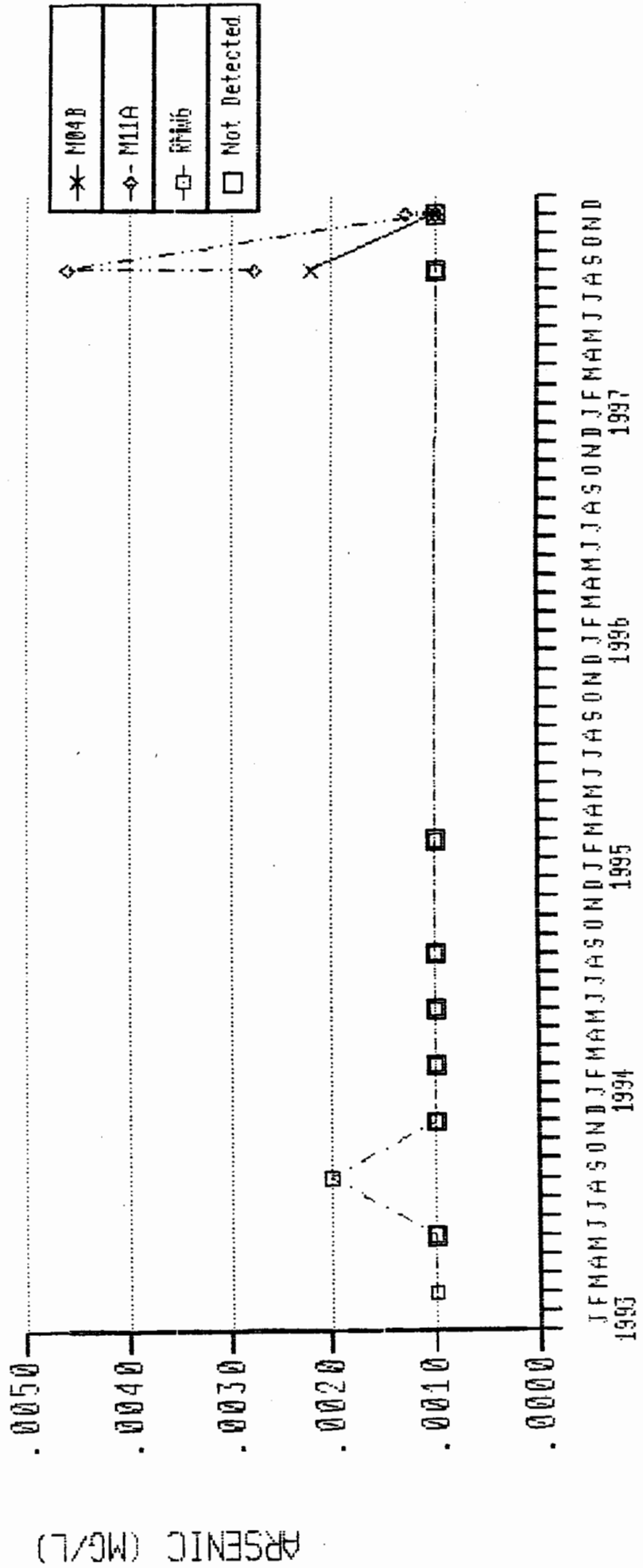


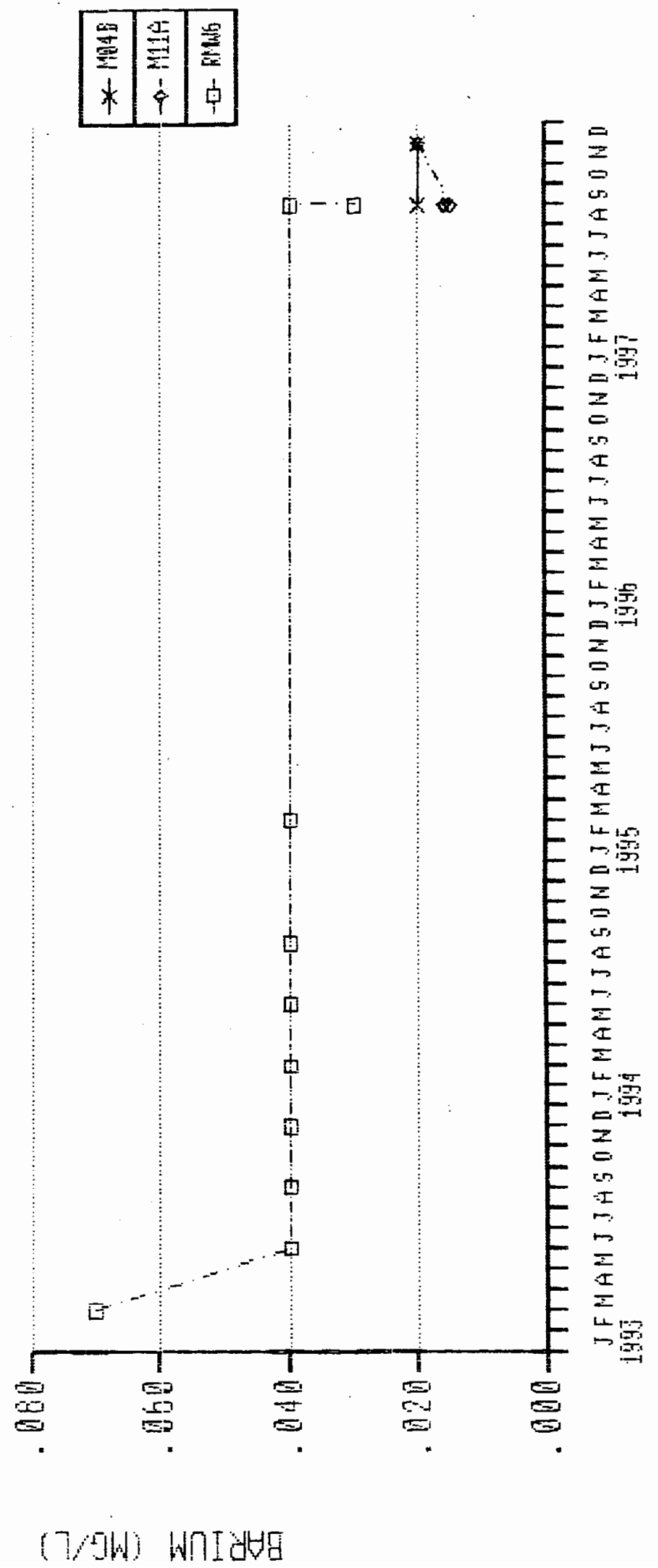
FIGURE 36
PUENTE HILLS LANDFILL
ARSENIC
BARRIER ONE MONITORING WELLS



ARSENIC (MG/L)

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 1993 1994 1995 1996 1997

FIGURE 37
PUENTE HILLS LANDFILL
BARIUM
BARRIER ONE MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 38
PUENTE HILLS LANDFILL
TOTAL CHROMIUM
BARRIER ONE MONITORING WELLS

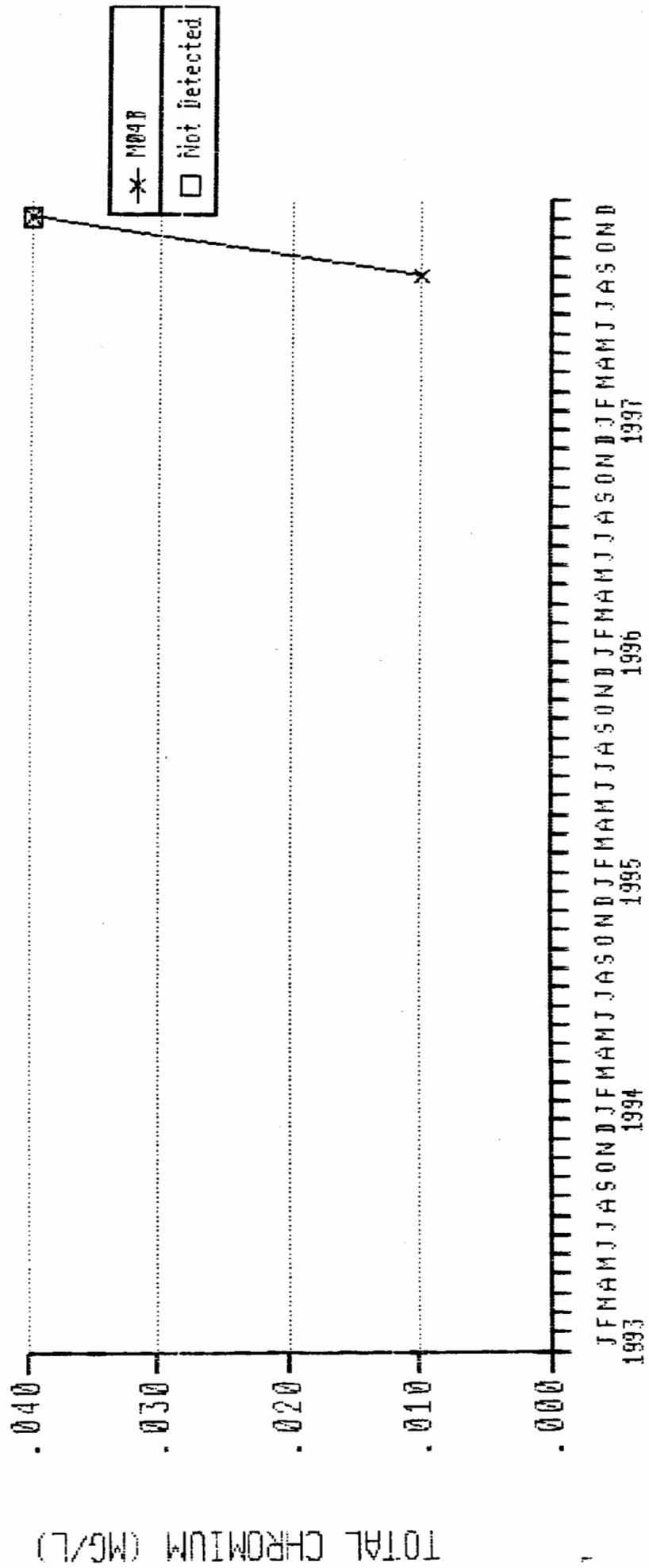


FIGURE 39
PUENTE HILLS LANDFILL
ZINC
BARRIER ONE MONITORING WELLS

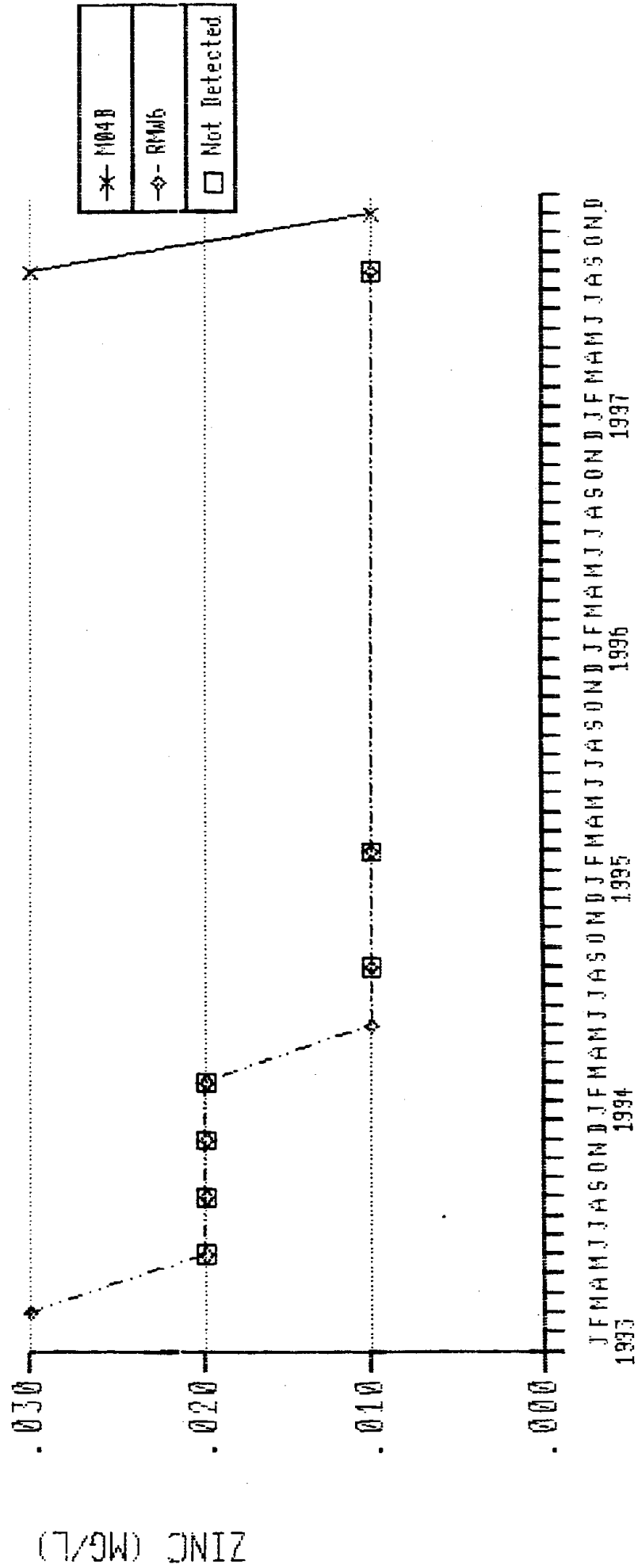
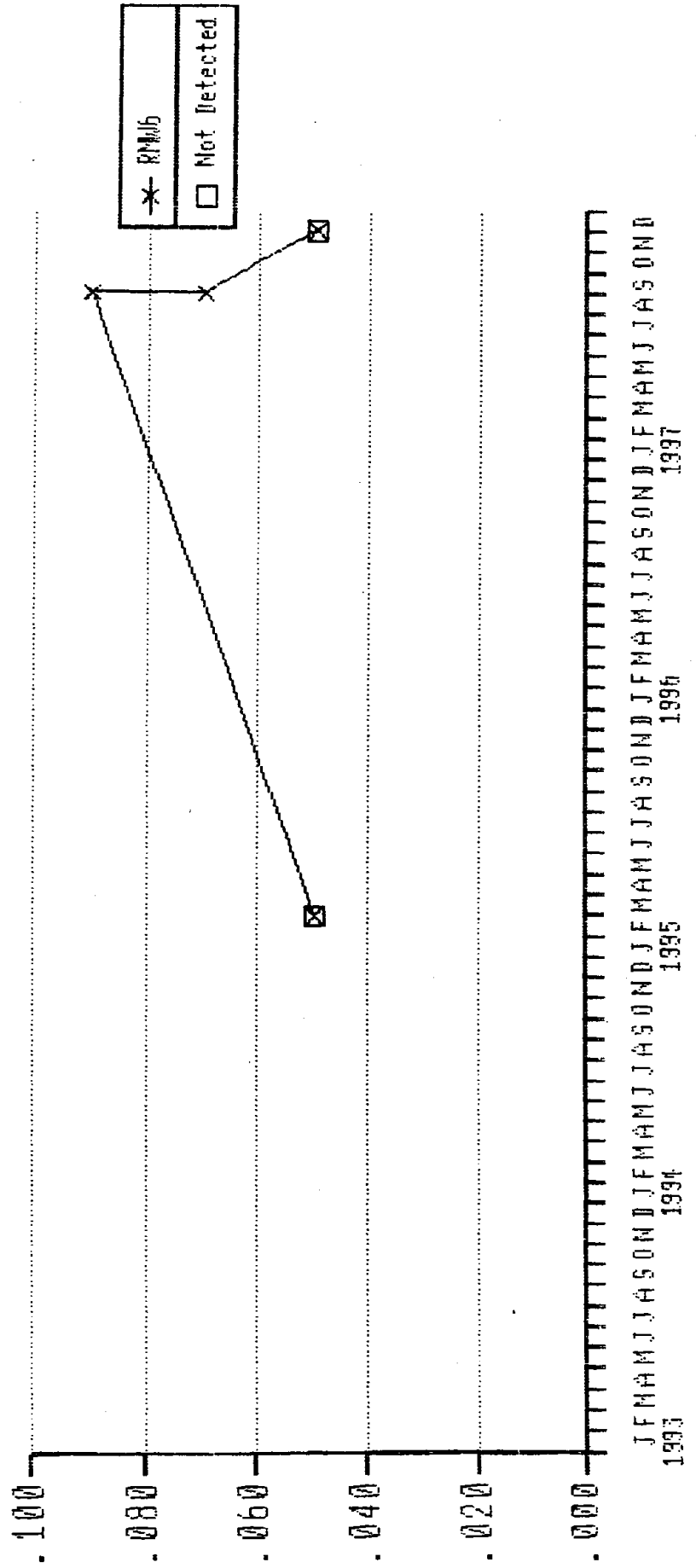


FIGURE 40
PUENTE HILLS LANDFILL
2,4:5-TP
BARRIER ONE MONITORING WELLS



2,4:5-TP (UG/L)

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 1993 1994 1995 1996 1997

FIGURE 41
PUENTE HILLS LANDFILL
METHYLENE CHLORIDE
BARRIER ONE MONITORING WELLS

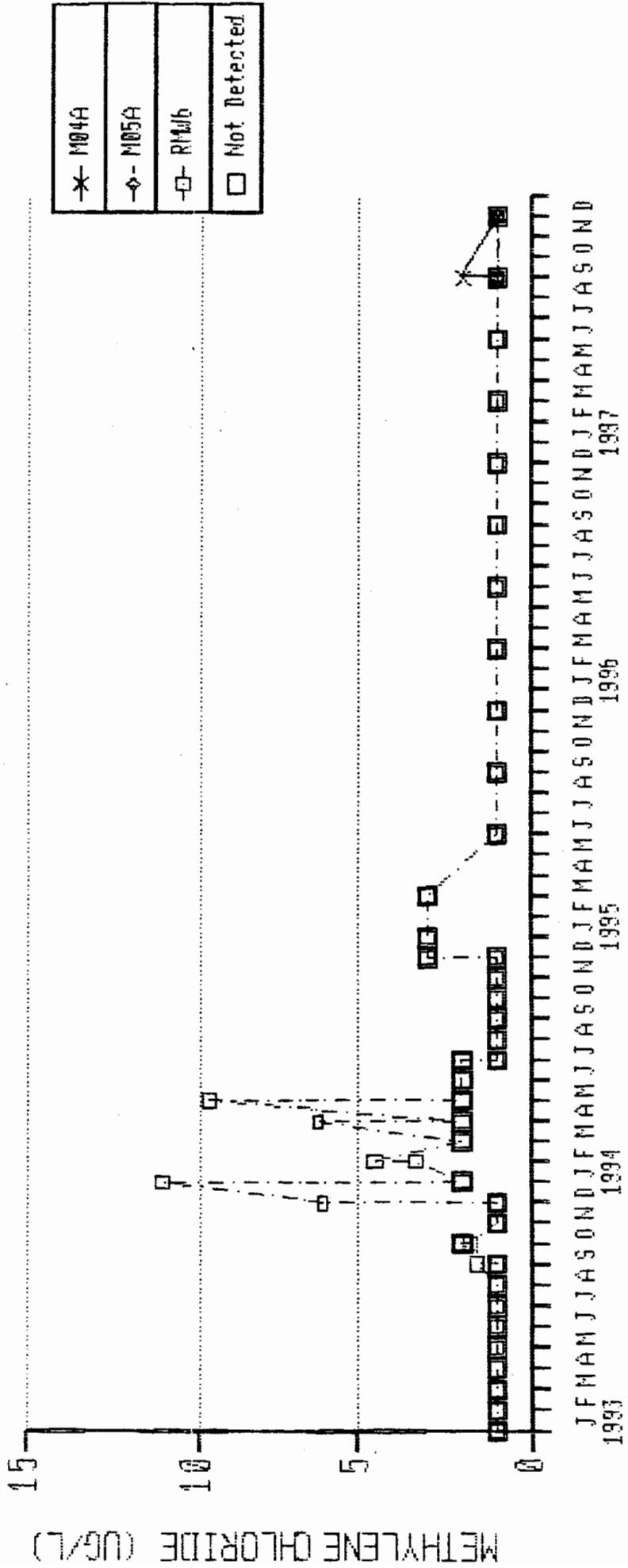
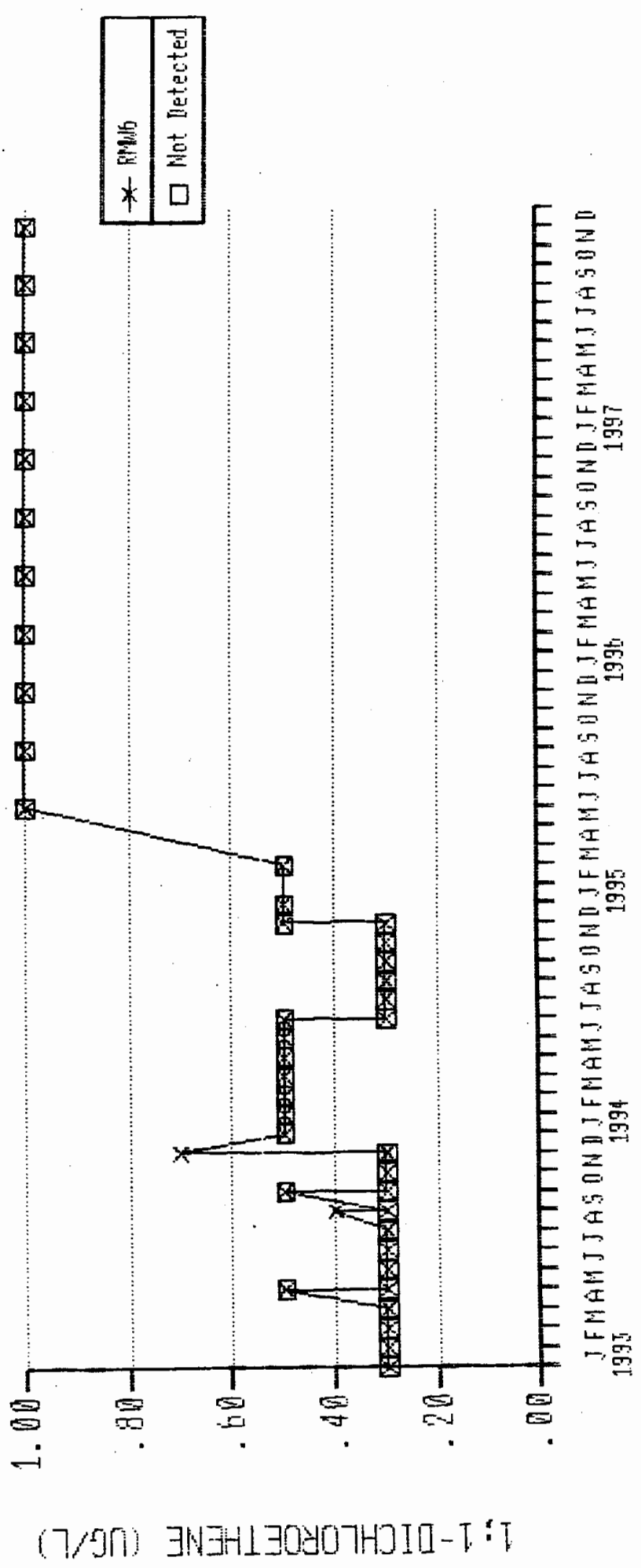


FIGURE 42
PUENTE HILLS LANDFILL
1,1-DICHLOROETHENE
BARRIER ONE MONITORING WELLS



1,1-DICHLOROETHENE (UG/L)

FIGURE 43
PUENTE HILLS LANDFILL
TRICHLOROETHYLENE
BARRIER ONE MONITORING WELLS

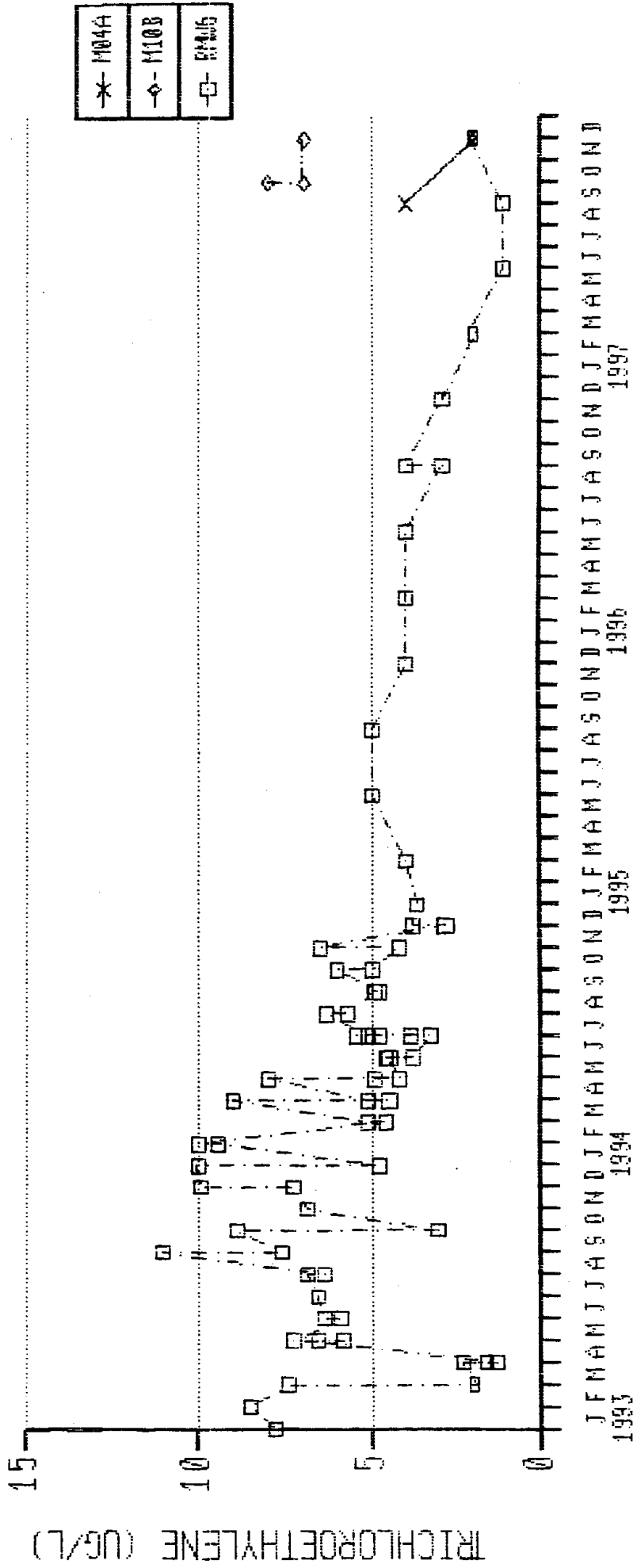
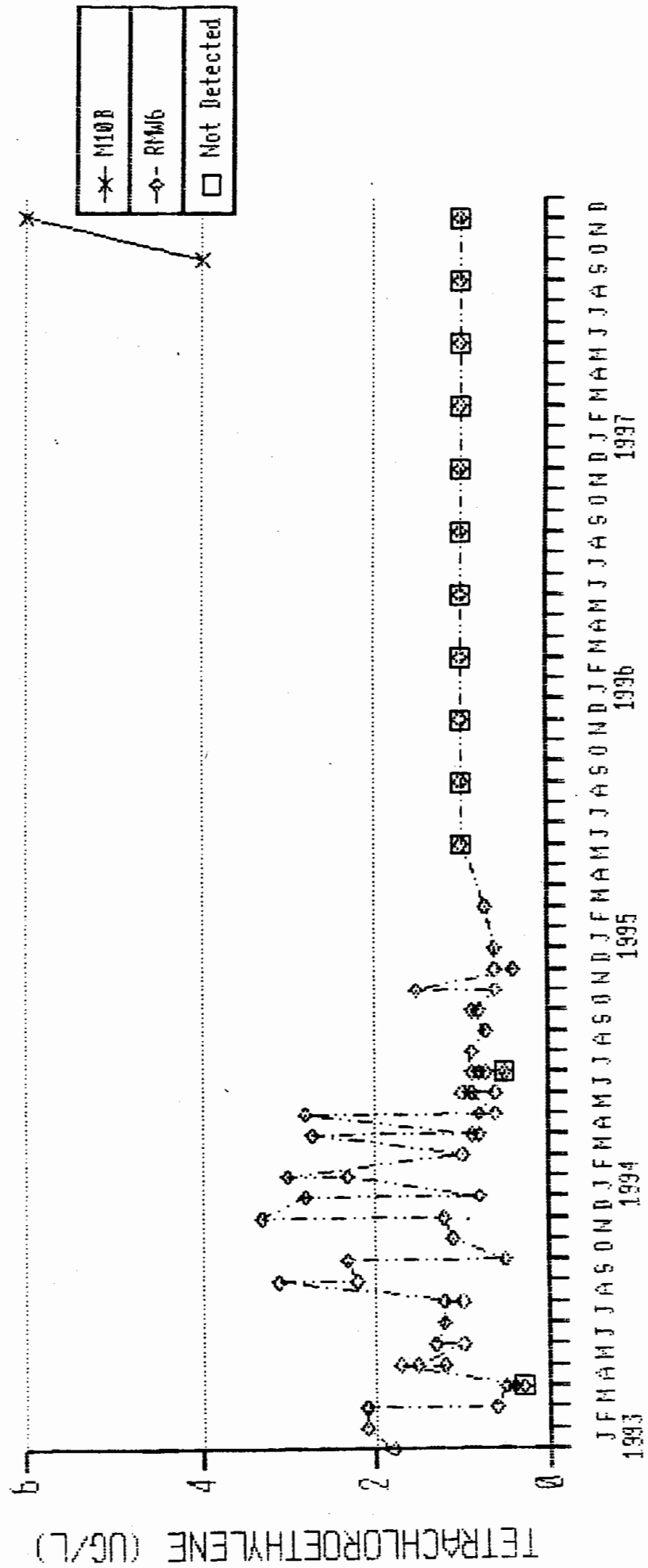


FIGURE 44
PUENTE HILLS LANDFILL
TETRACHLOROETHYLENE
BARRIER ONE MONITORING WELLS



TETRACHLOROETHYLENE (UG/L)

x	N10B
◇	RMM6
□	Not Detected

JFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASON
 1993 1994 1995 1996 1997

FIGURE 45
PUENTE HILLS LANDFILL
CHLOROBENZENE
BARRIER ONE MONITORING WELLS

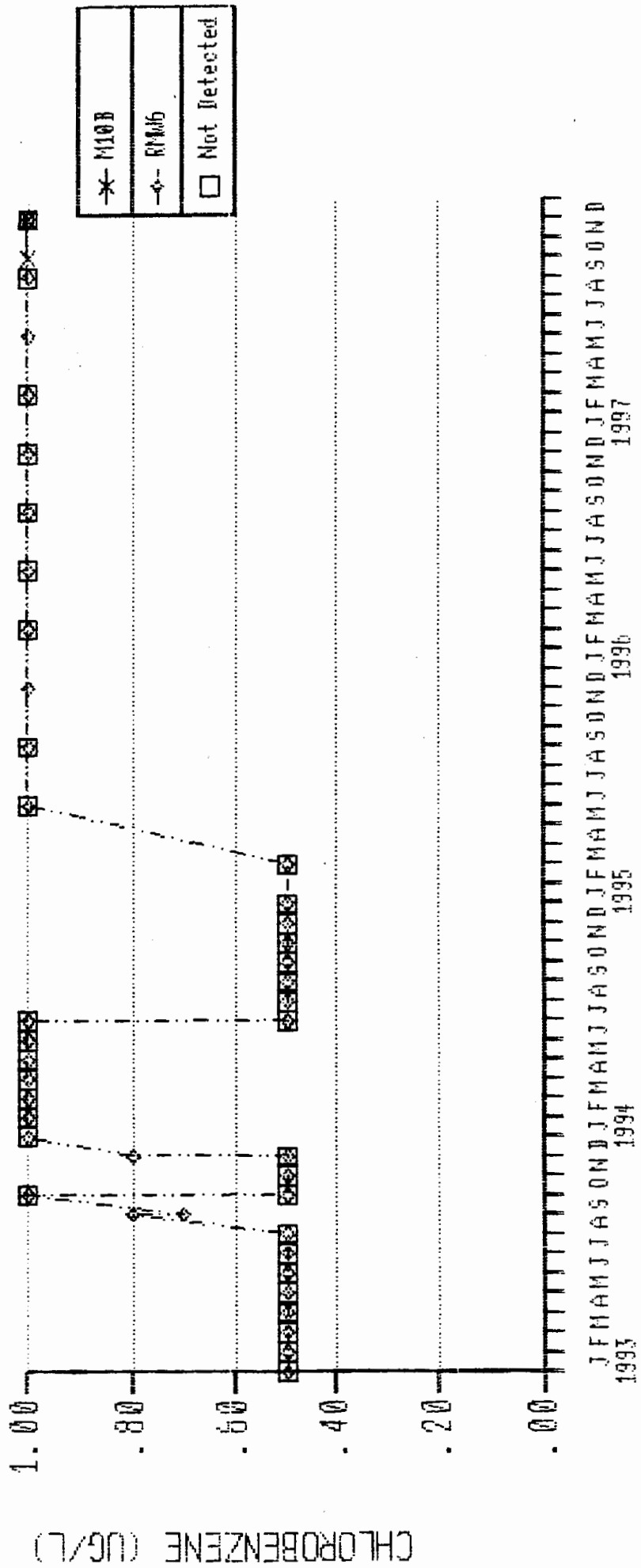
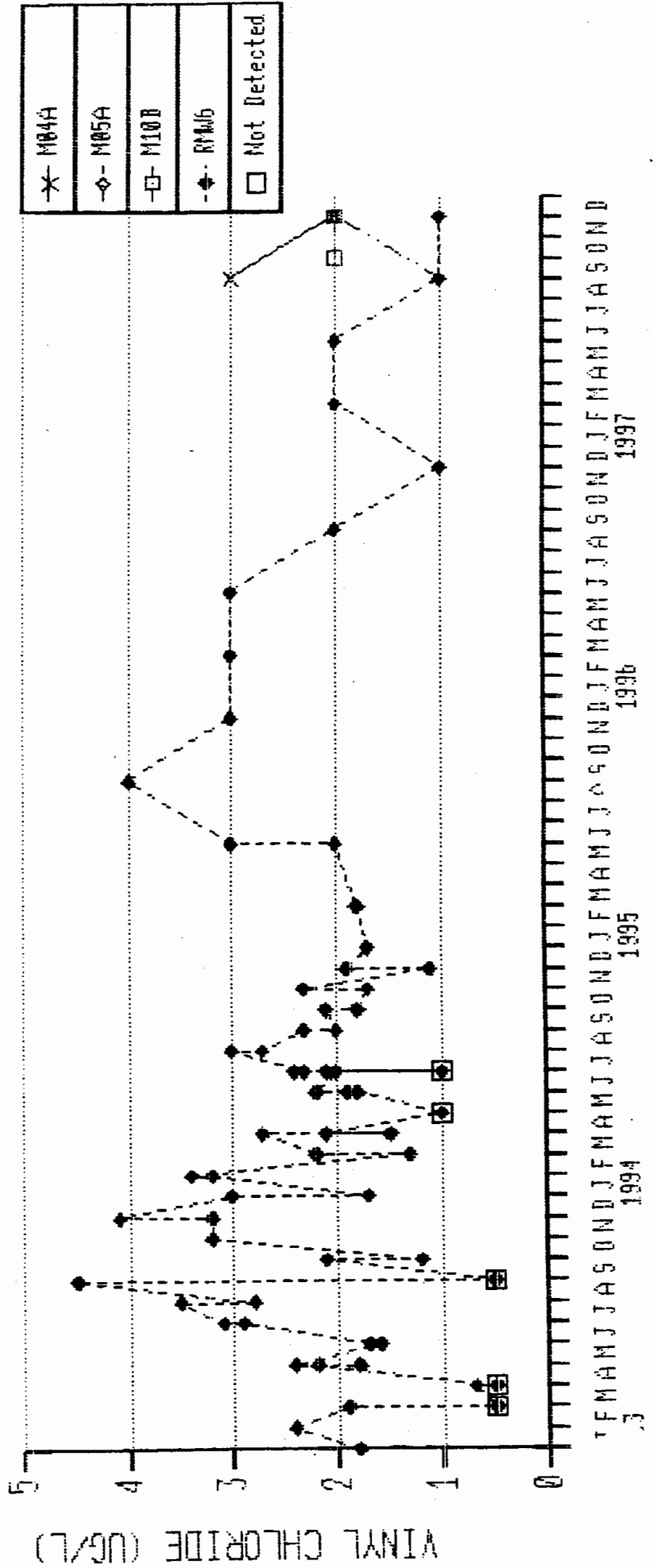


FIGURE 46
PUENTE HILLS LANDFILL
VINYL CHLORIDE
BARRIER ONE MONITORING WELLS



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 1994 1995 1996 1997

FIGURE 47
PUENTE HILLS LANDFILL
P-DICHLOROBENZENE
BARRIER ONE MONITORING WELLS

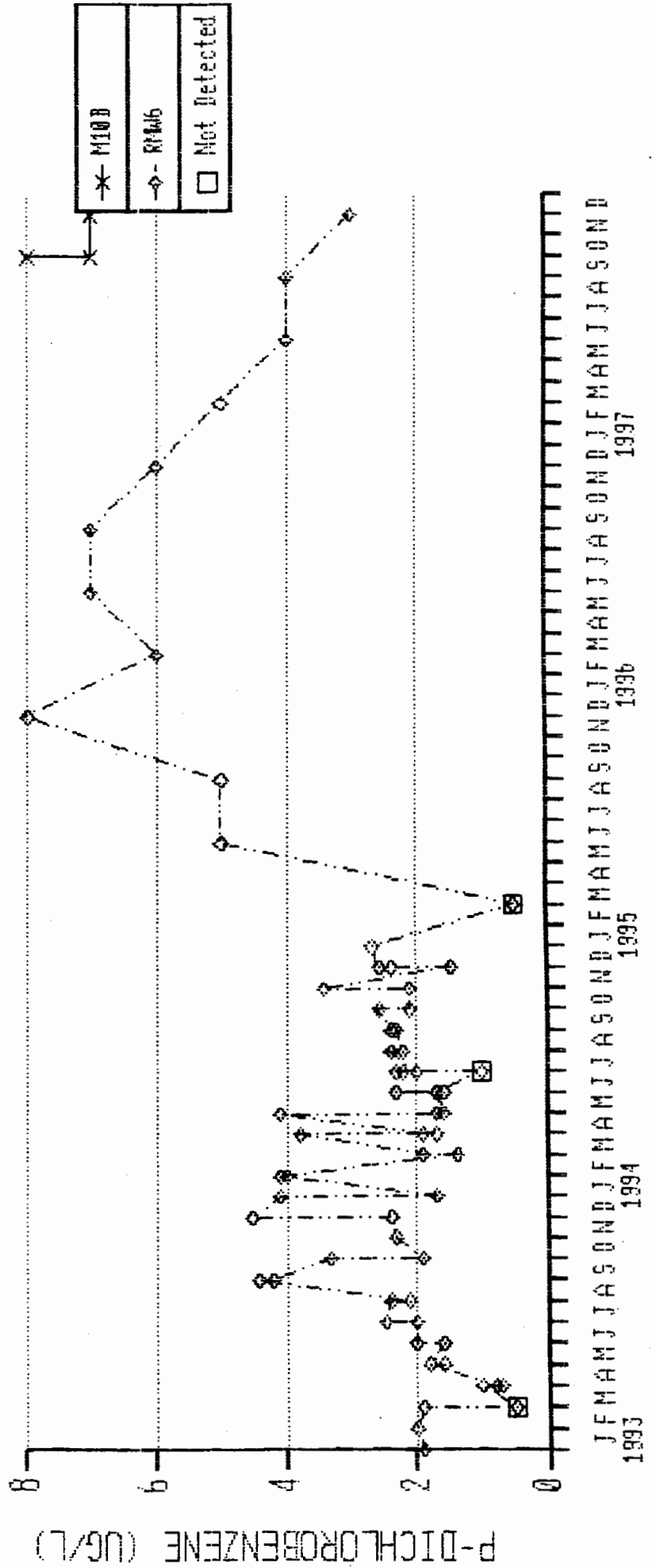


FIGURE 48
PUENTE HILLS LANDFILL
1,1-DICHLOROETHANE
BARRIER ONE MONITORING WELLS

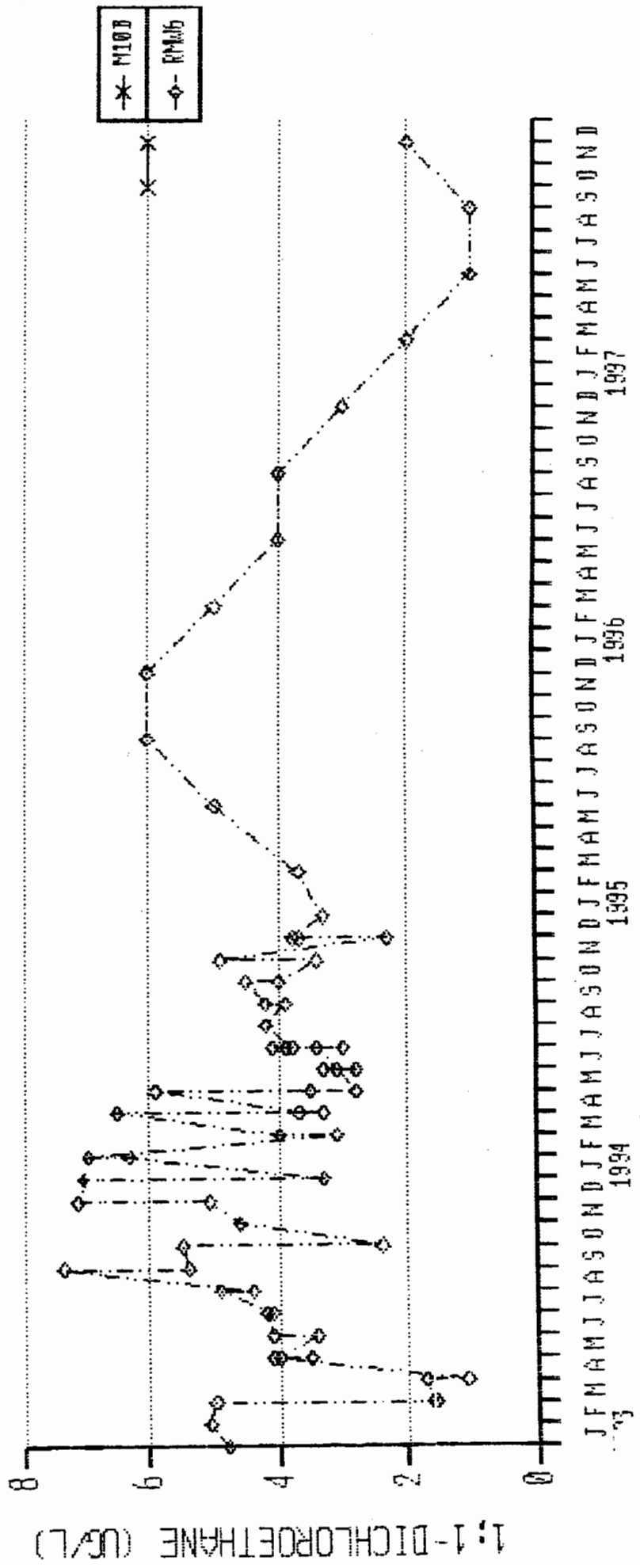


FIGURE 49
PUENTE HILLS LANDFILL
1,2-DICHLOROETHANE
BARRIER ONE MONITORING WELLS

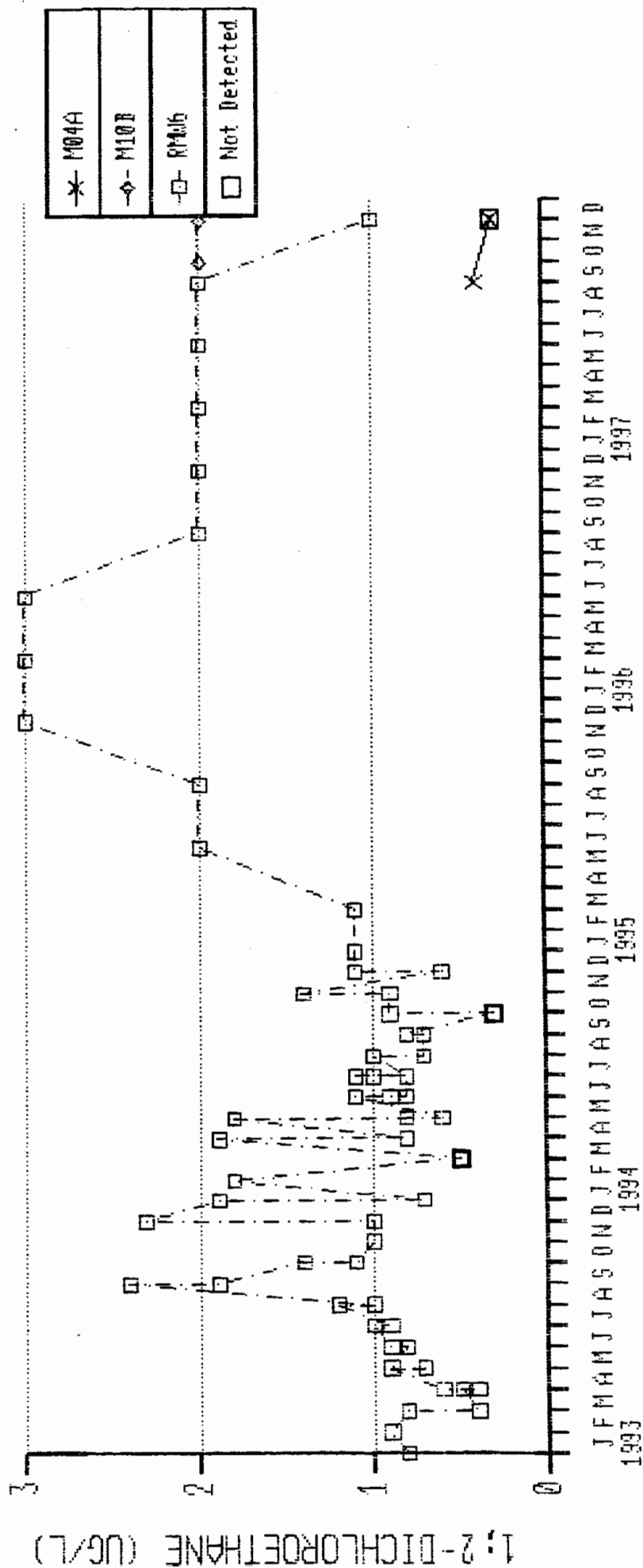


FIGURE 50
PUENTE HILLS LANDFILL
BENZENE
BARRIER ONE MONITORING WELLS

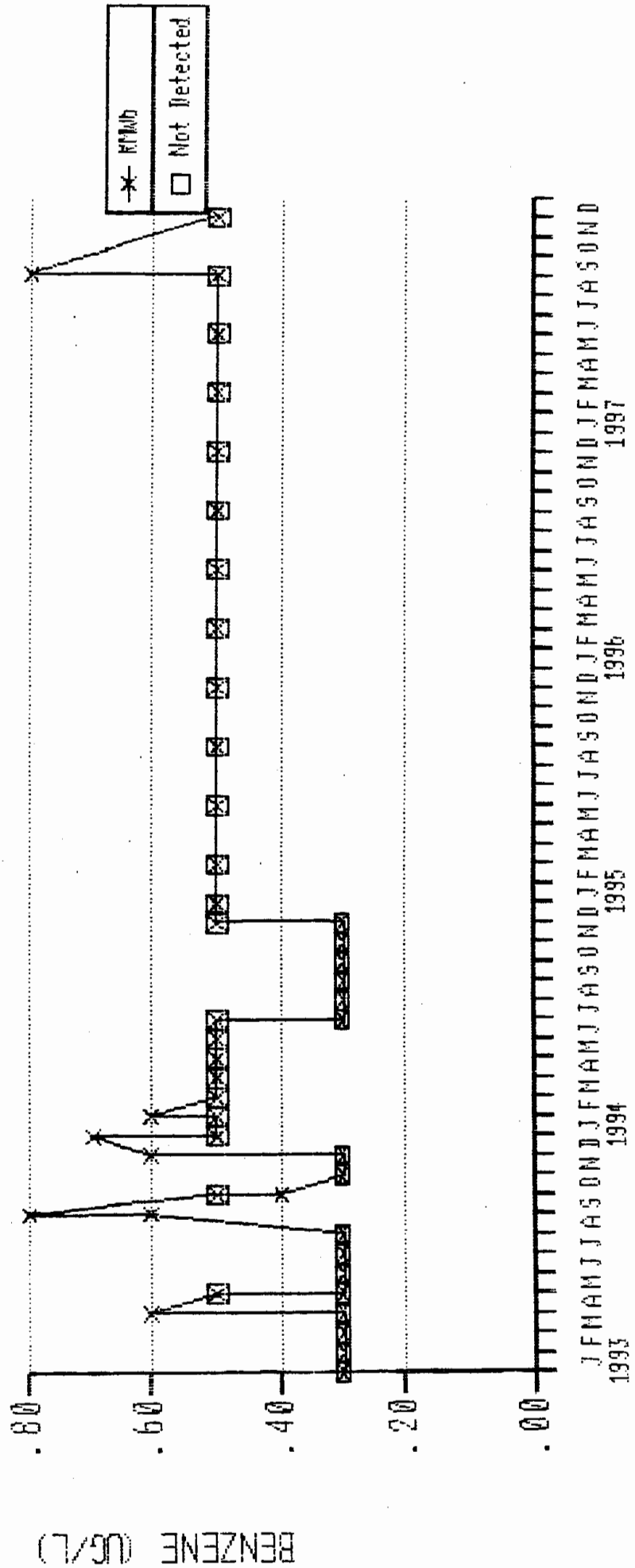


FIGURE 51
PUENTE HILLS LANDFILL
TOLUENE
BARRIER ONE MONITORING WELLS

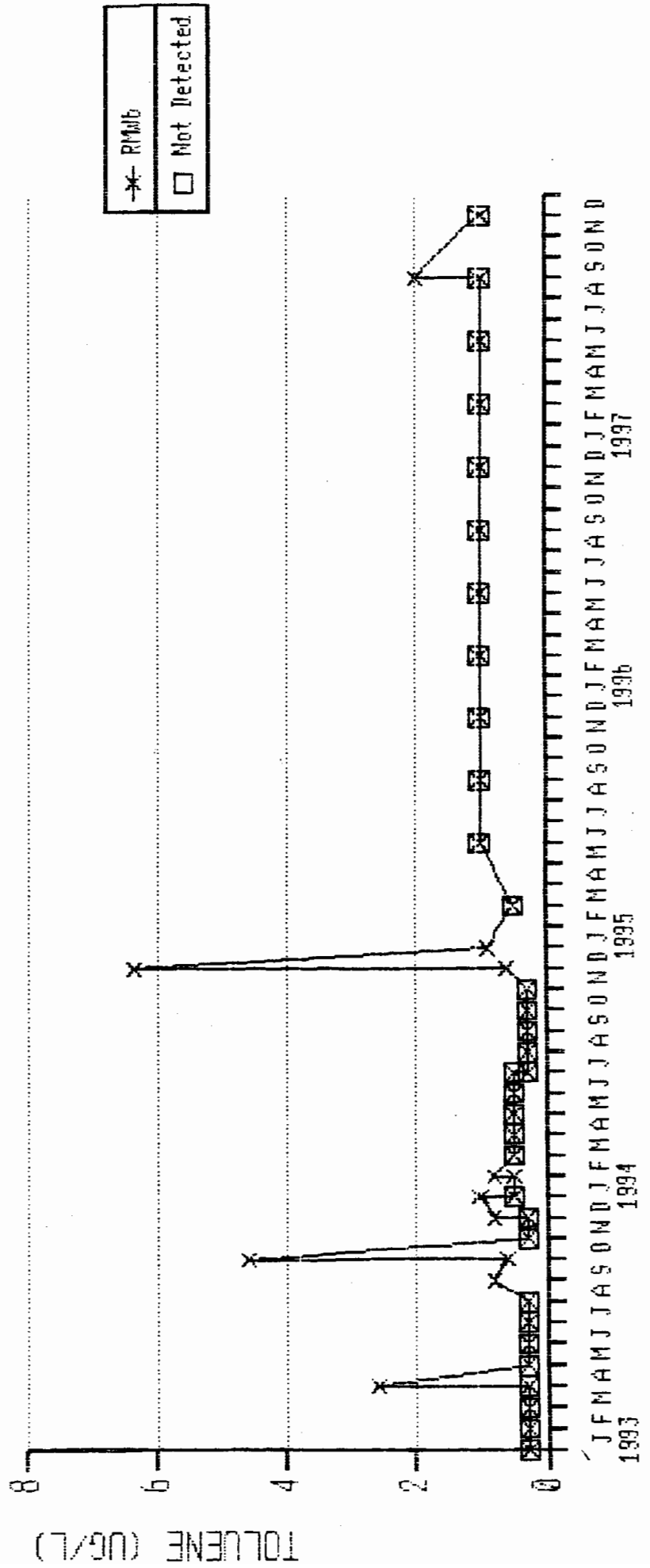


FIGURE 52
PUENTE HILLS LANDFILL
ETHYL BENZENE
BARRIER ONE MONITORING WELLS

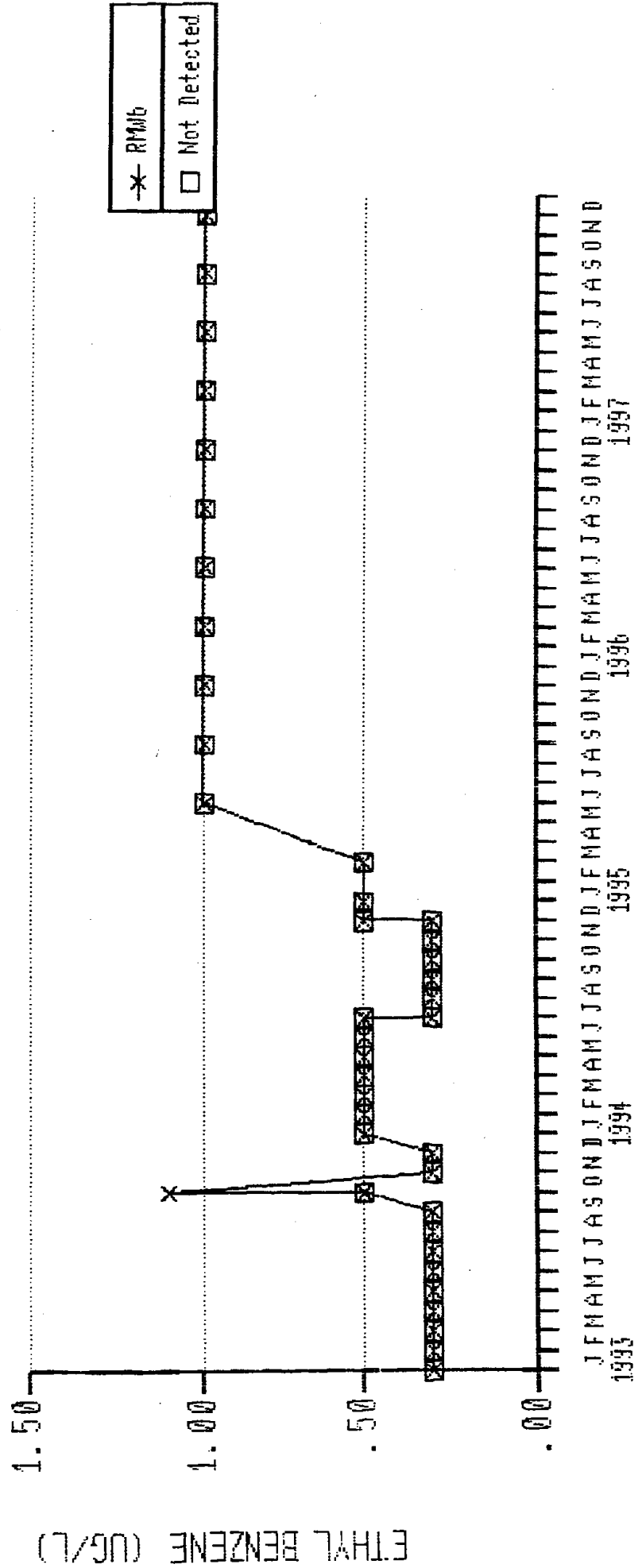
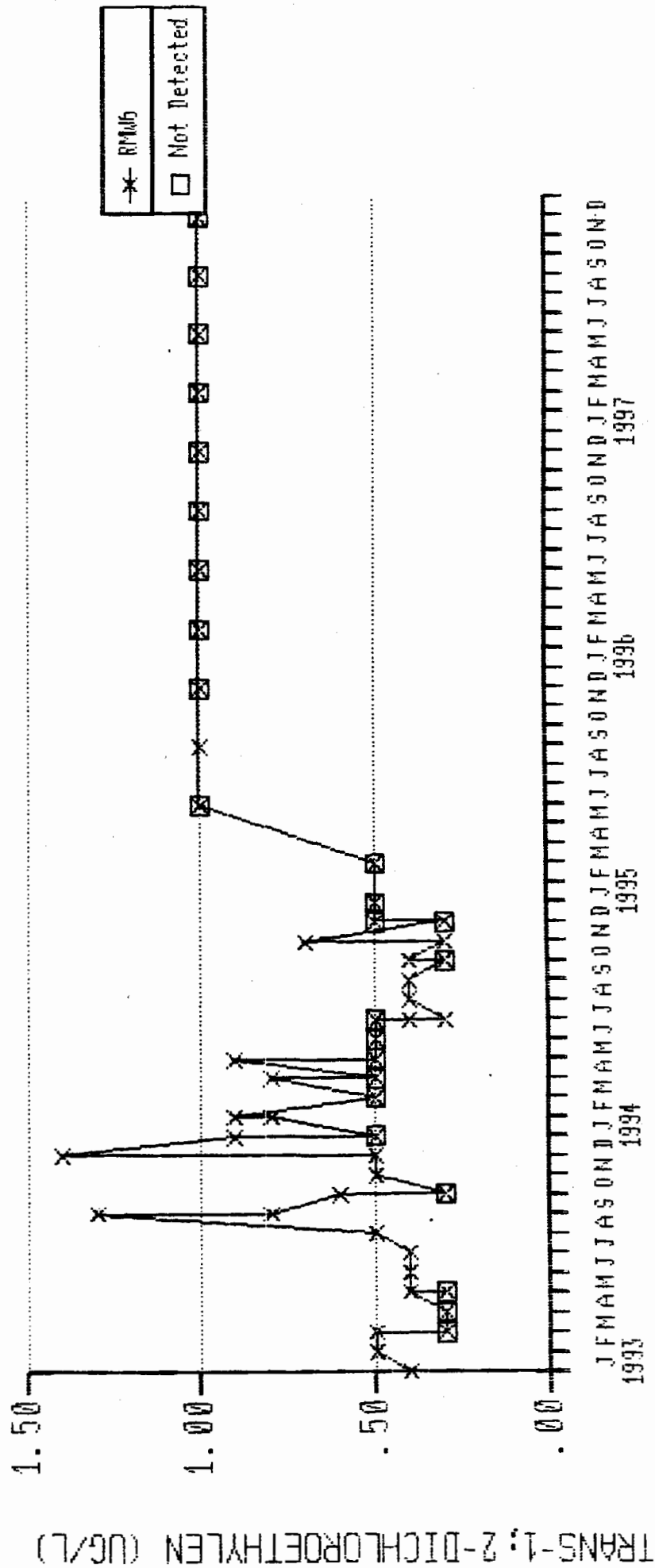
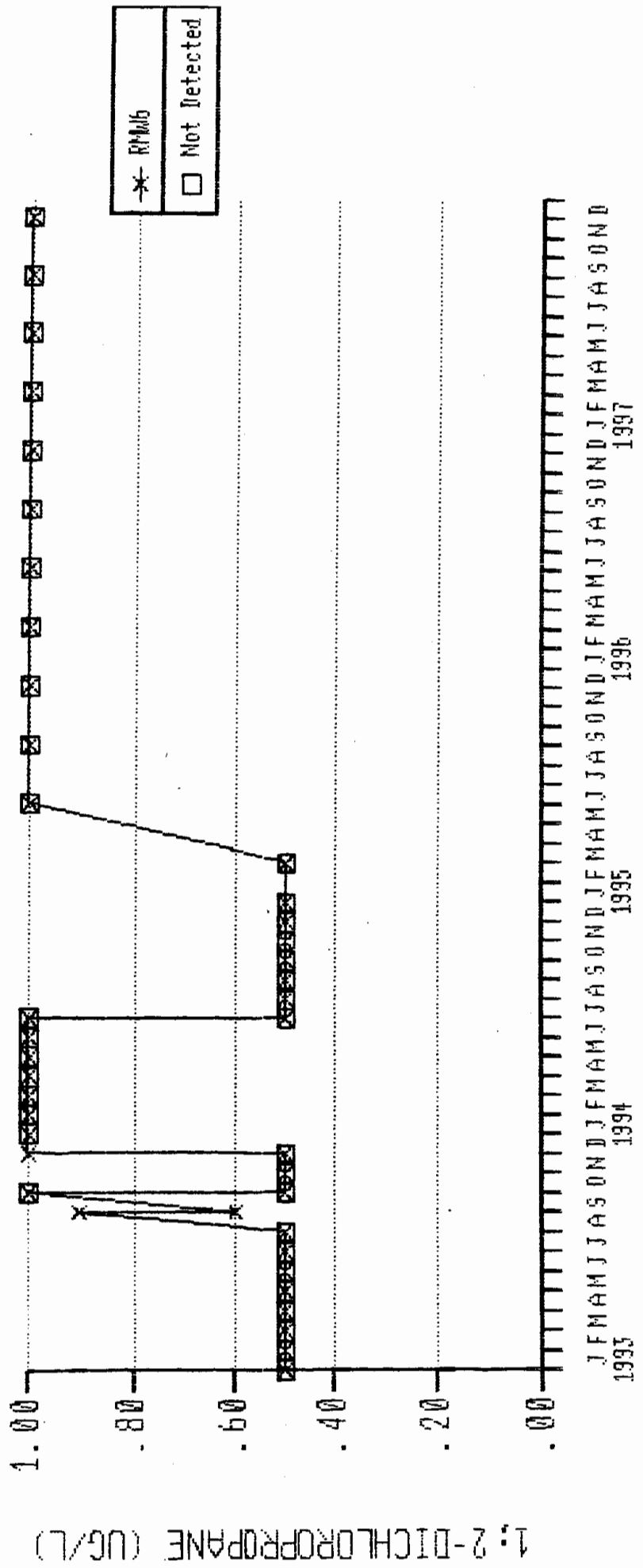


FIGURE 53
PUENTE HILLS LANDFILL
TRANS-1,2-DICHLOROETHYLEN
BARRIER ONE MONITORING WELLS



TRANS-1,2-DICHLOROETHYLEN (UG/L)

FIGURE 54
PUENTE HILLS LANDFILL
1,2-DICHLOROPROPANE
BARRIER ONE MONITORING WELLS



1,2-DICHLOROPROPANE (UG/L)

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 1993 1994 1995 1996 1997

FIGURE 55

PUENTE HILLS LANDFILL 1,2-DIBROMOETHANE BARRIER ONE MONITORING WELLS

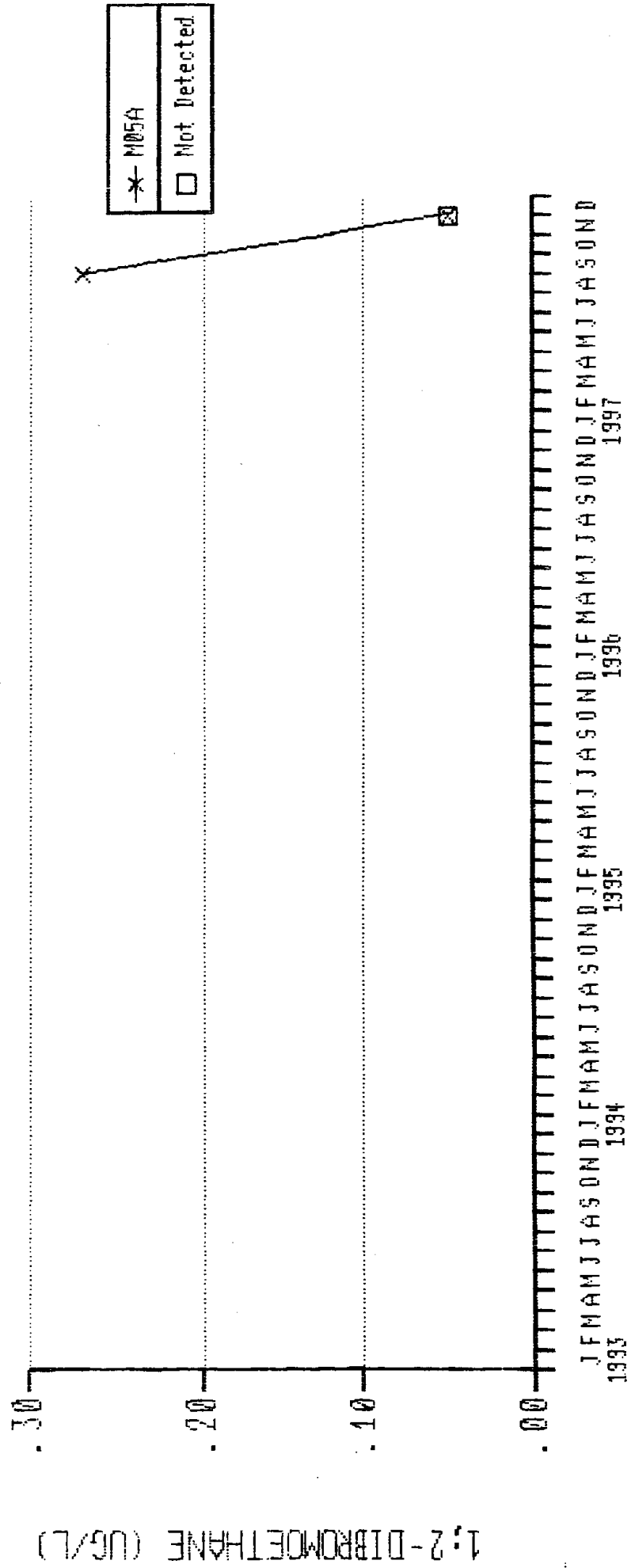


FIGURE 56
 PUENTE HILLS LANDFILL
 CIS-1,2-DICHLOROETHYLENE
 BARRIER ONE MONITORING WELLS

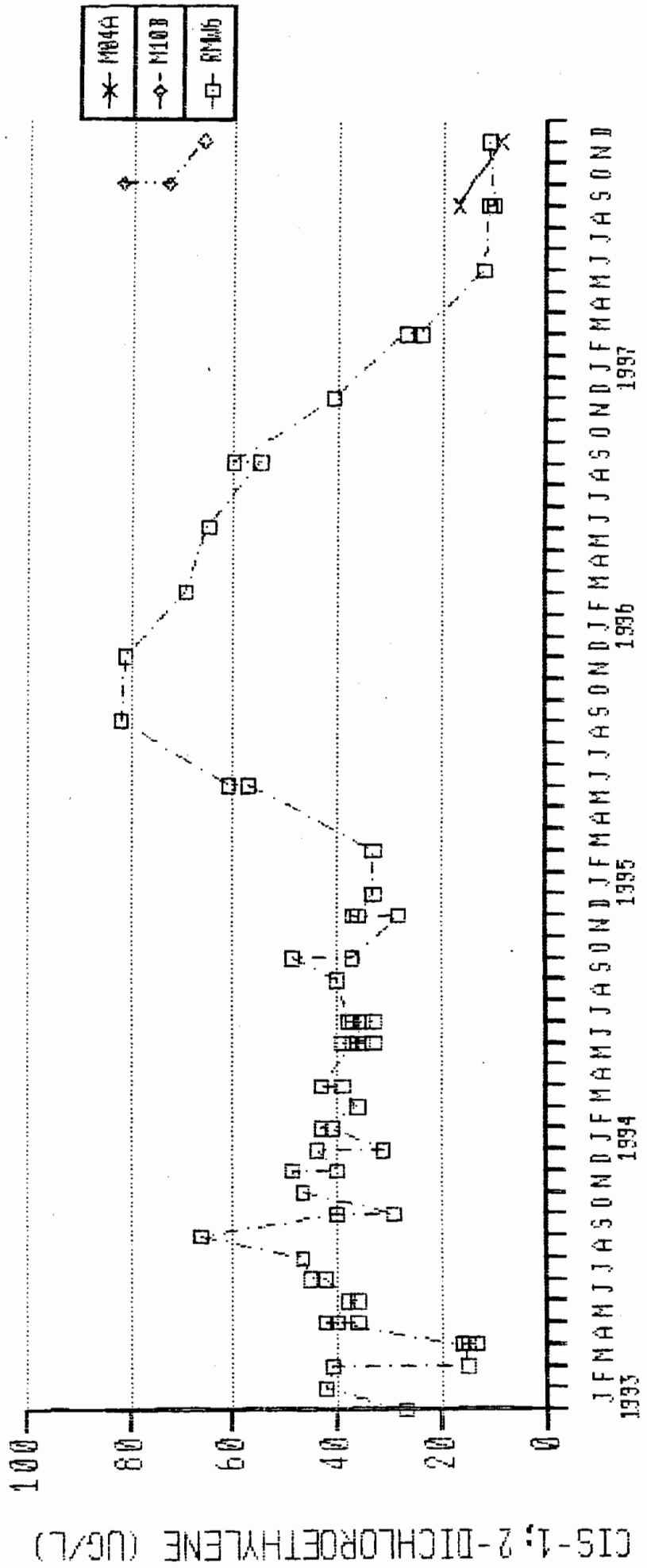


FIGURE 57
PUENTE HILLS LANDFILL
IRON
BARRIER ONE MONITORING WELLS (FILTERED)

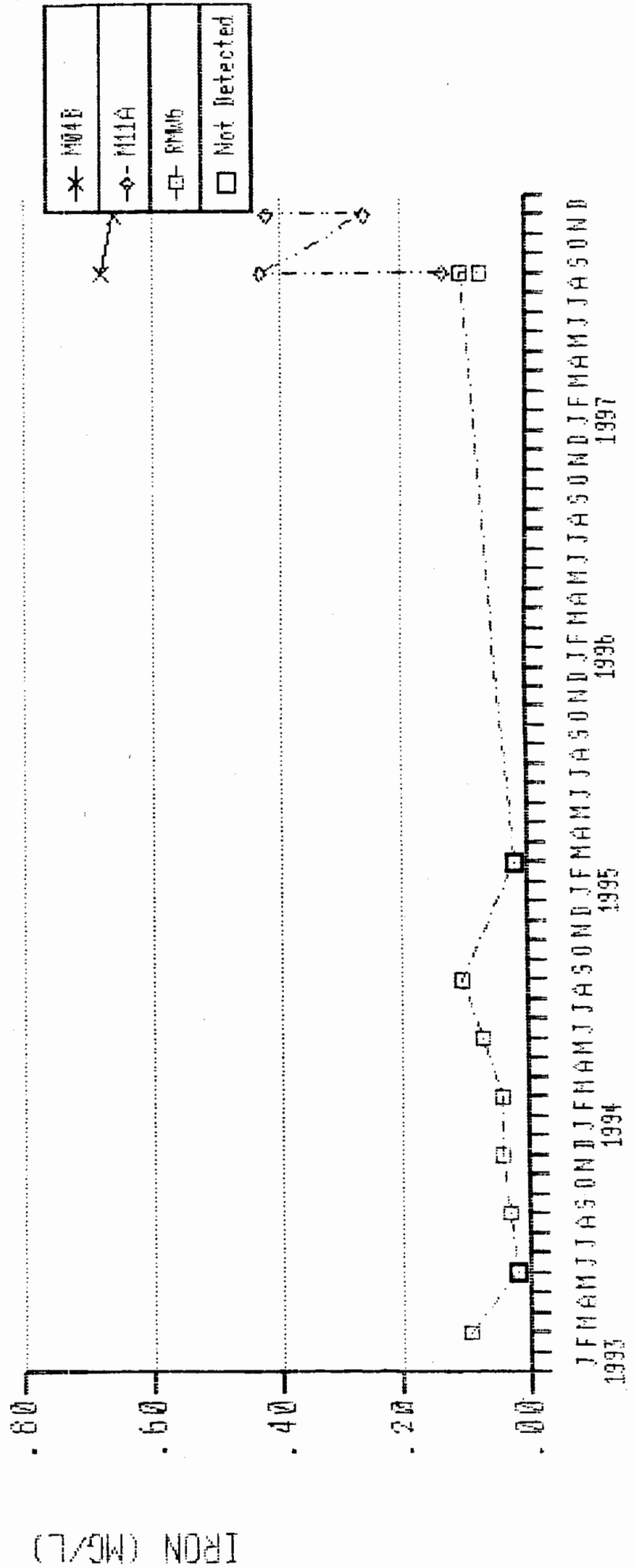


FIGURE 58
PUENTE HILLS LANDFILL
MANGANESE
BARRIER ONE MONITORING WELLS (FILTERED)

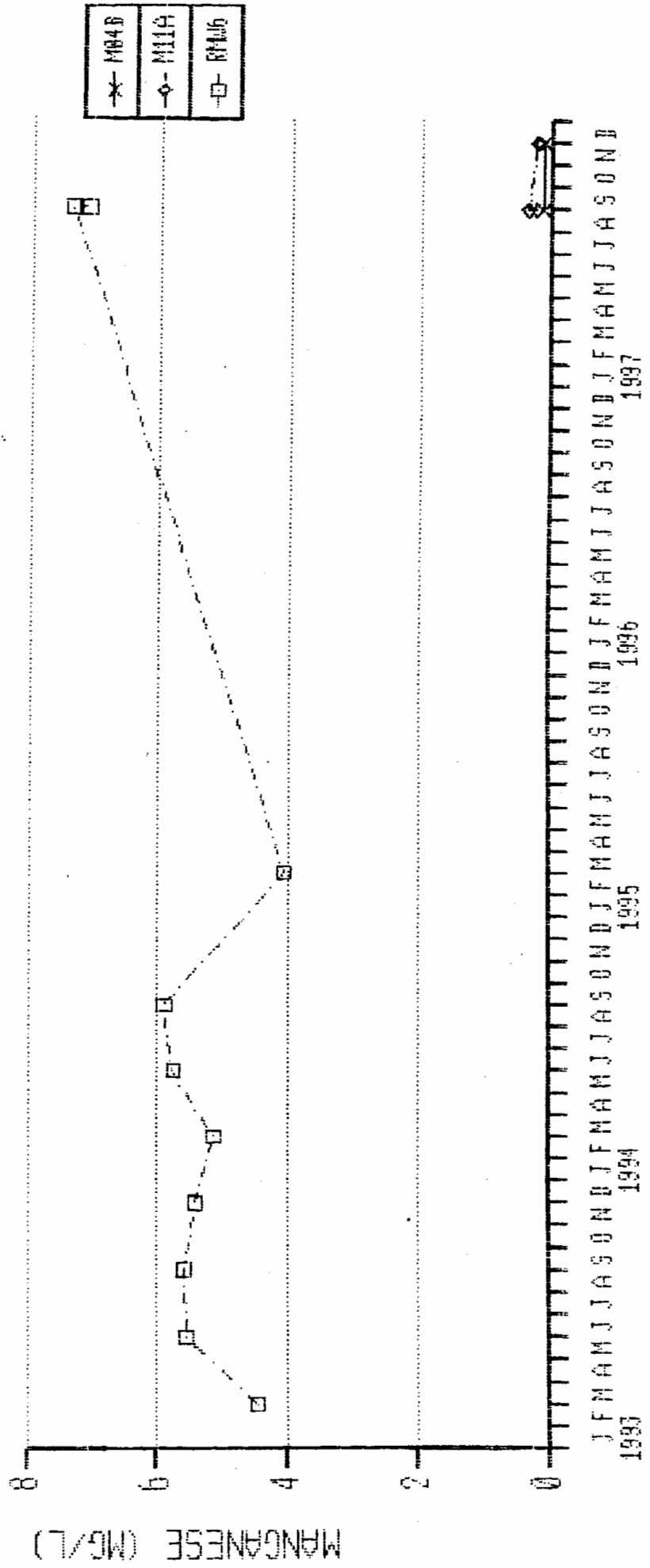


FIGURE 59
PUENTE HILLS LANDFILL
ARSENIC
BARRIER ONE MONITORING WELLS (FILTERED)

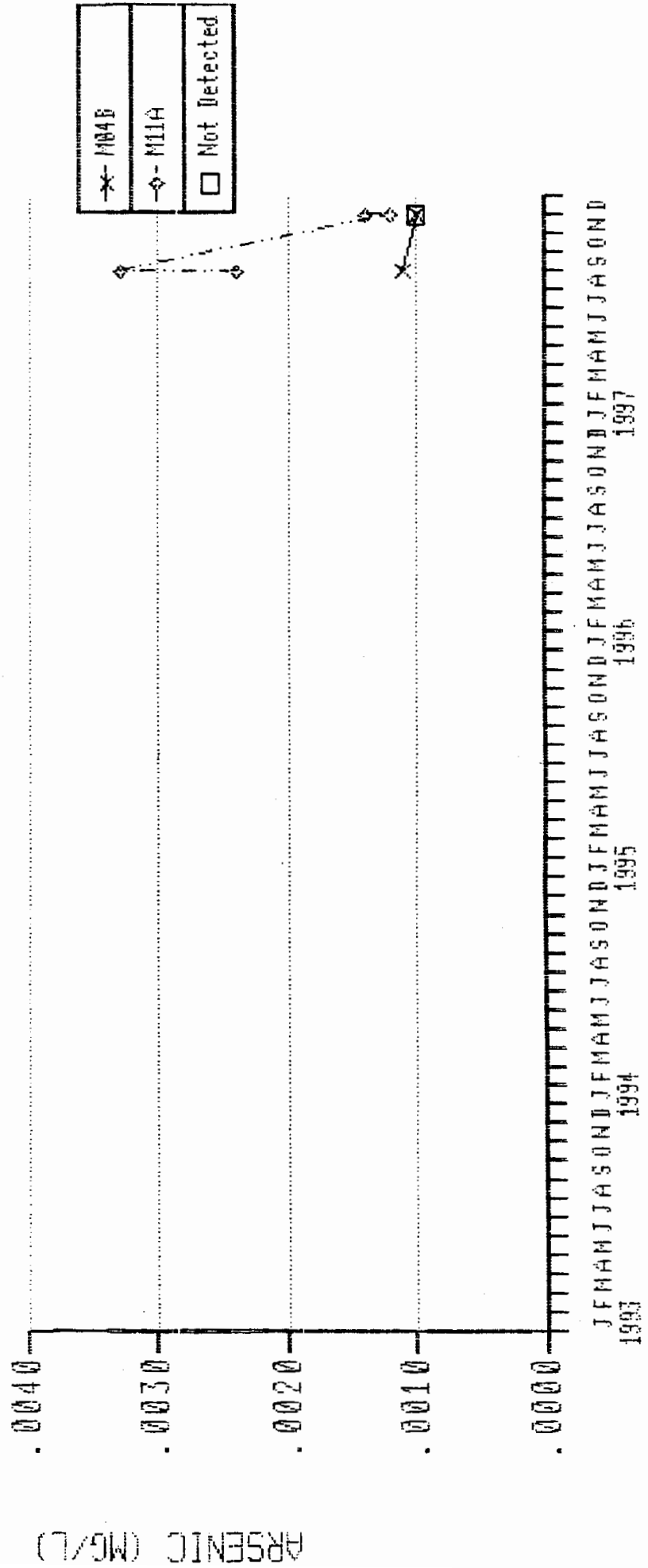
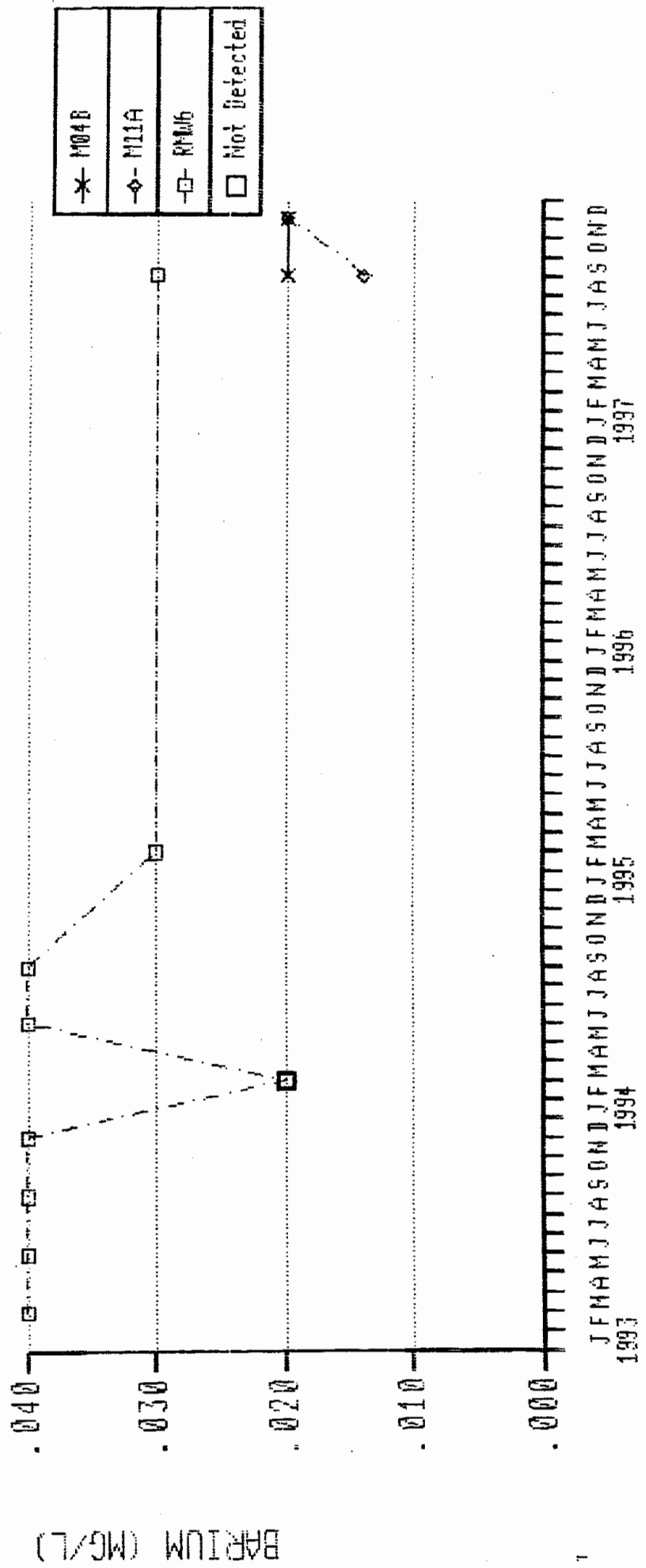


FIGURE 60
PUENTE HILLS LANDFILL
BARIUM
BARRIER ONE MONITORING WELLS (FILTERED)



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 1993 1994 1995 1996 1997

BARIUM (MG/L)

FIGURE 61
PUENTE HILLS LANDFILL
COPPER
BARRIER ONE MONITORING WELLS (FILTERED)

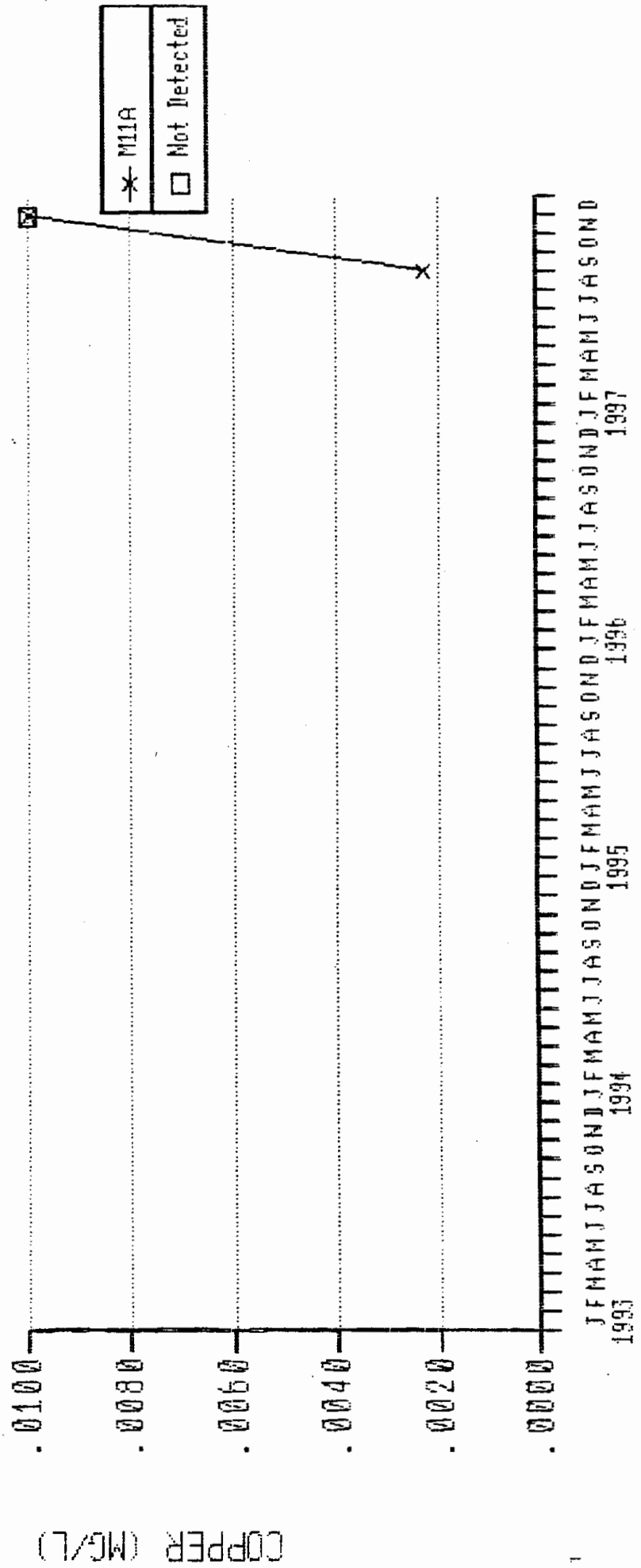


FIGURE 62
PUENTE HILLS LANDFILL
NICKEL
BARRIER ONE MONITORING WELLS (FILTERED)

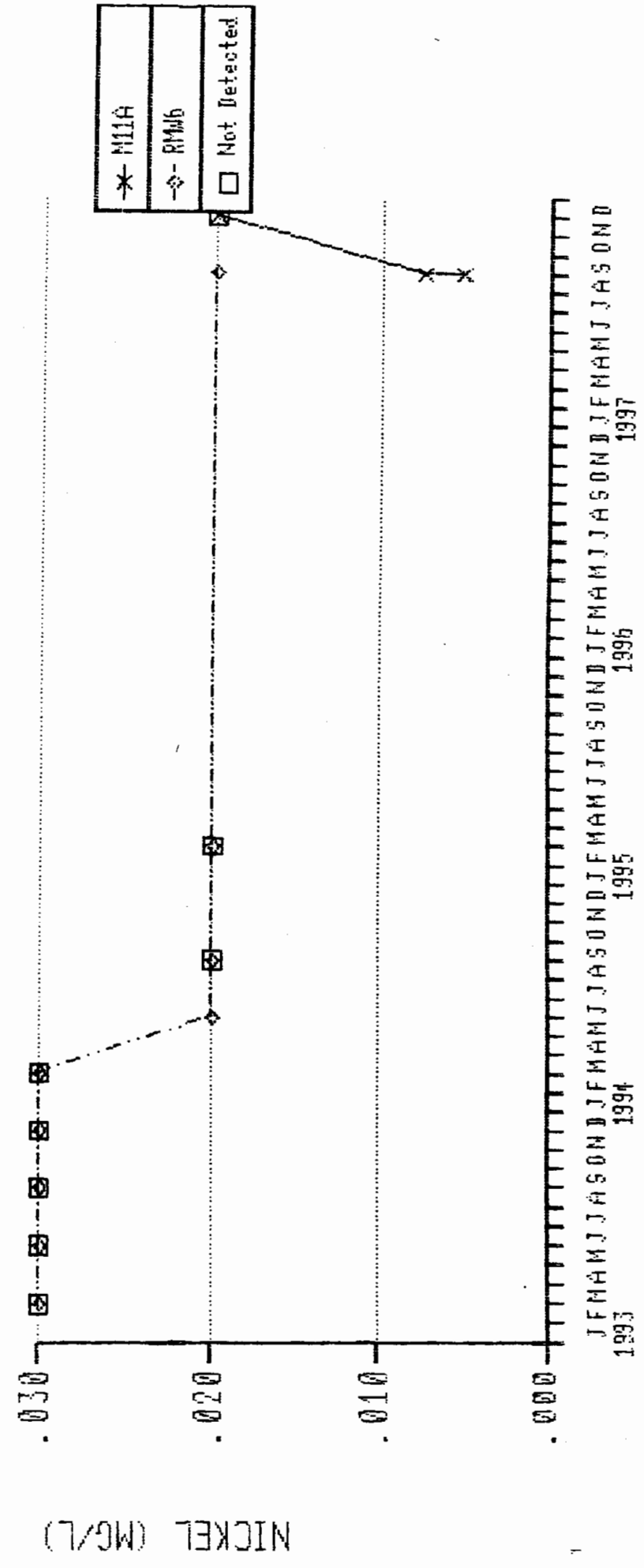


FIGURE 63
PUENTE HILLS LANDFILL
ZINC
BARRIER ONE MONITORING WELLS (FILTERED)

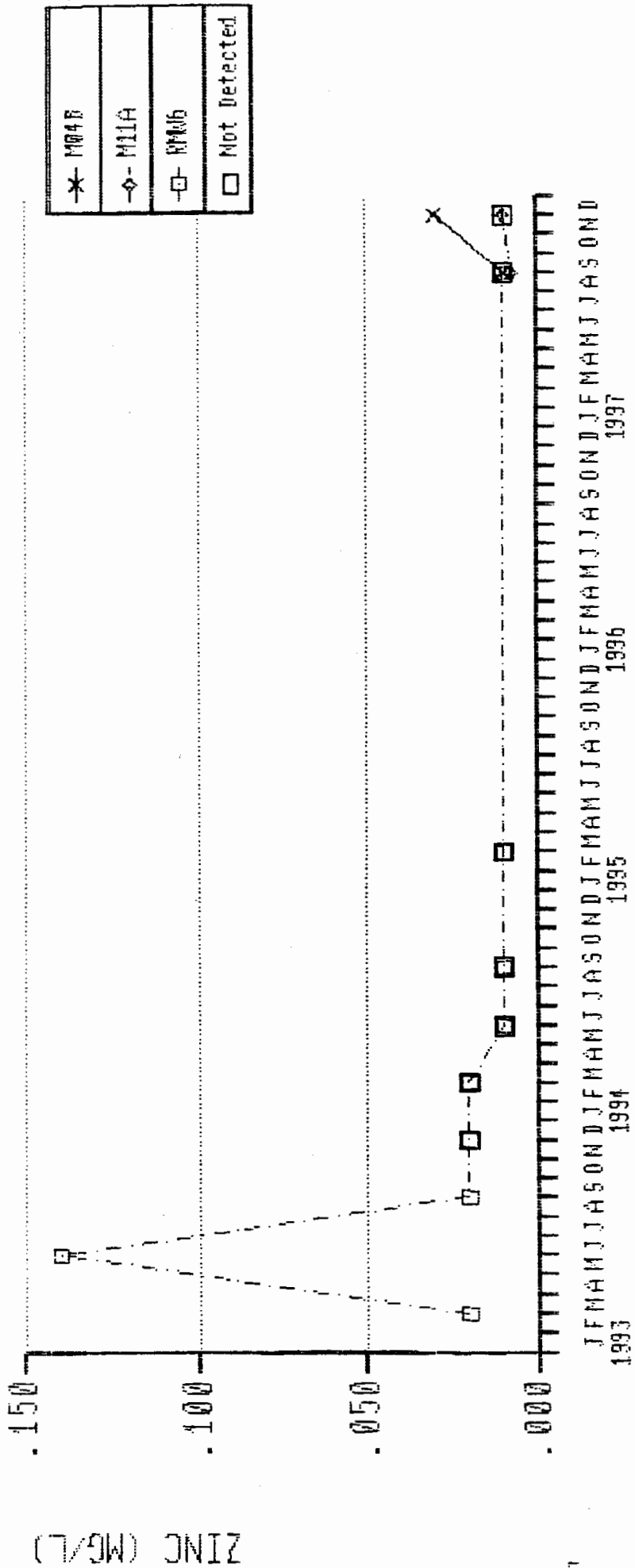
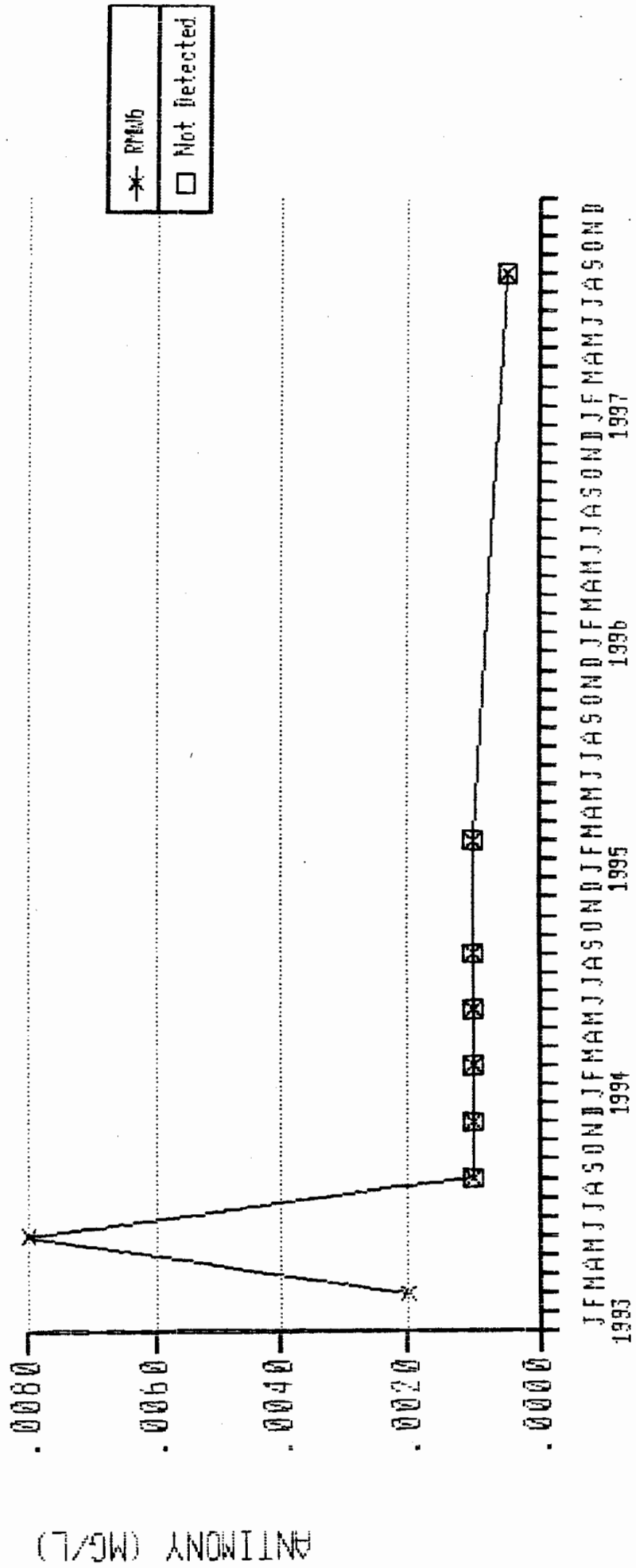


FIGURE 64

PUENTE HILLS LANDFILL

ANTIMONY

BARRIER ONE MONITORING WELLS (FILTERED)



ANTIMONY (MG/L)

FIGURES 65 - 77

WATER QUALITY DATA GRAPHS

BARRIER 2 MONITORING WELLS

FIGURE 65
PUENTE HILLS LANDFILL
DEPTH TO WATER
BARRIER TWO MONITORING WELLS

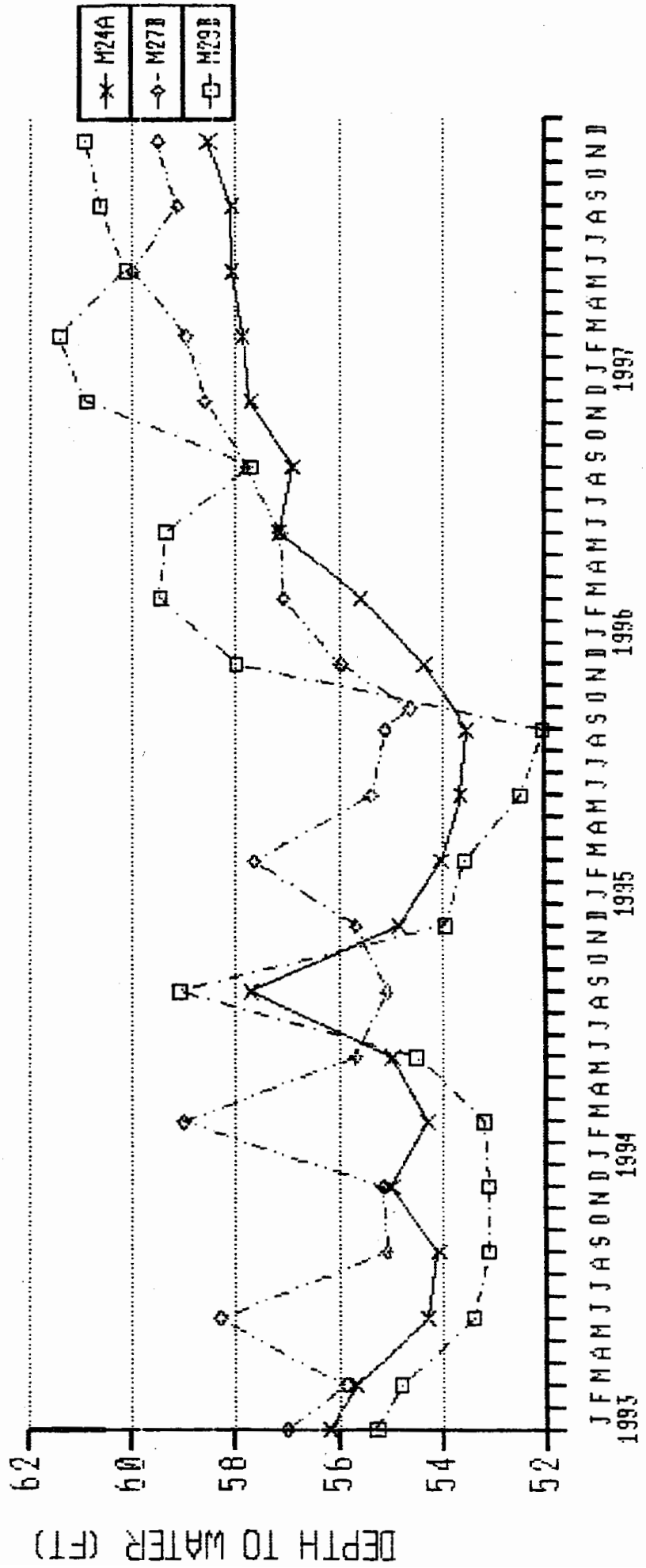


FIGURE 66
PUENTE HILLS LANDFILL
DEPTH TO BOTTOM
BARRIER TWO MONITORING WELLS

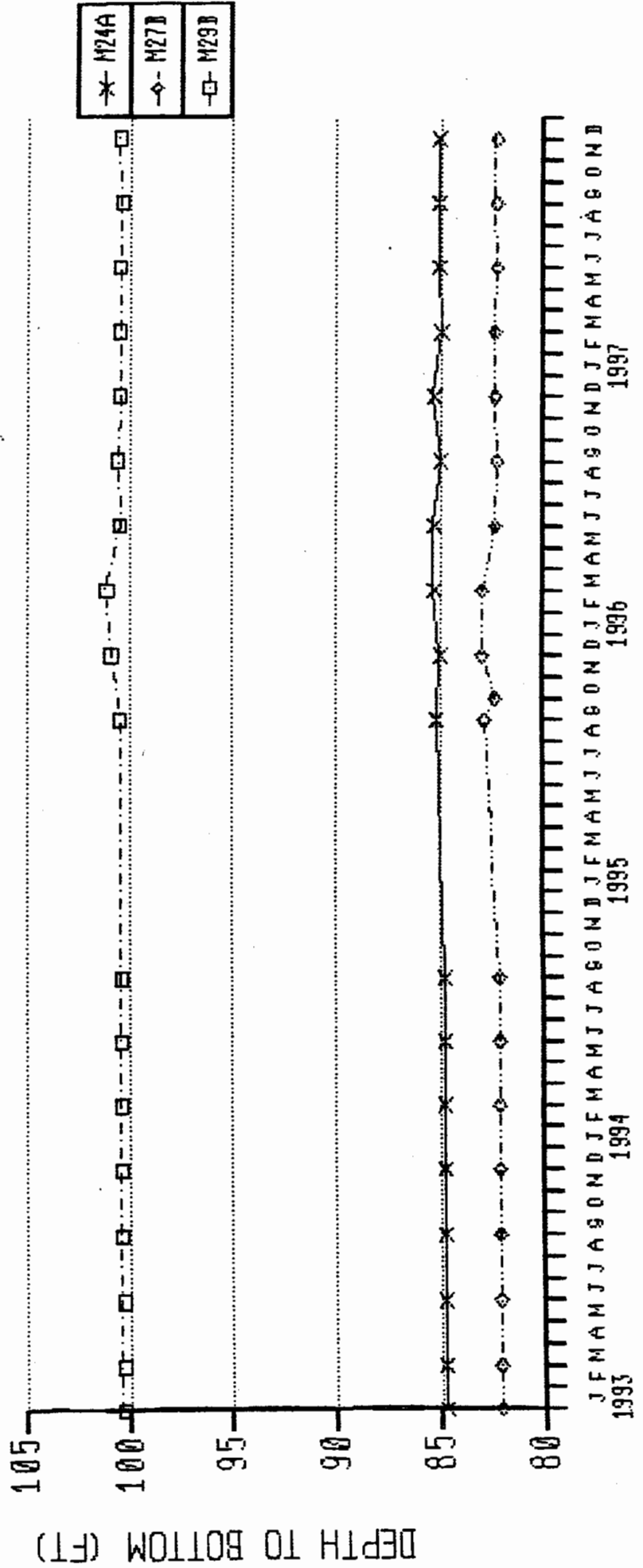


FIGURE 67
PUENTE HILLS LANDFILL
PERCENT OXYGEN IN GAS
BARRIER TWO MONITORING WELLS

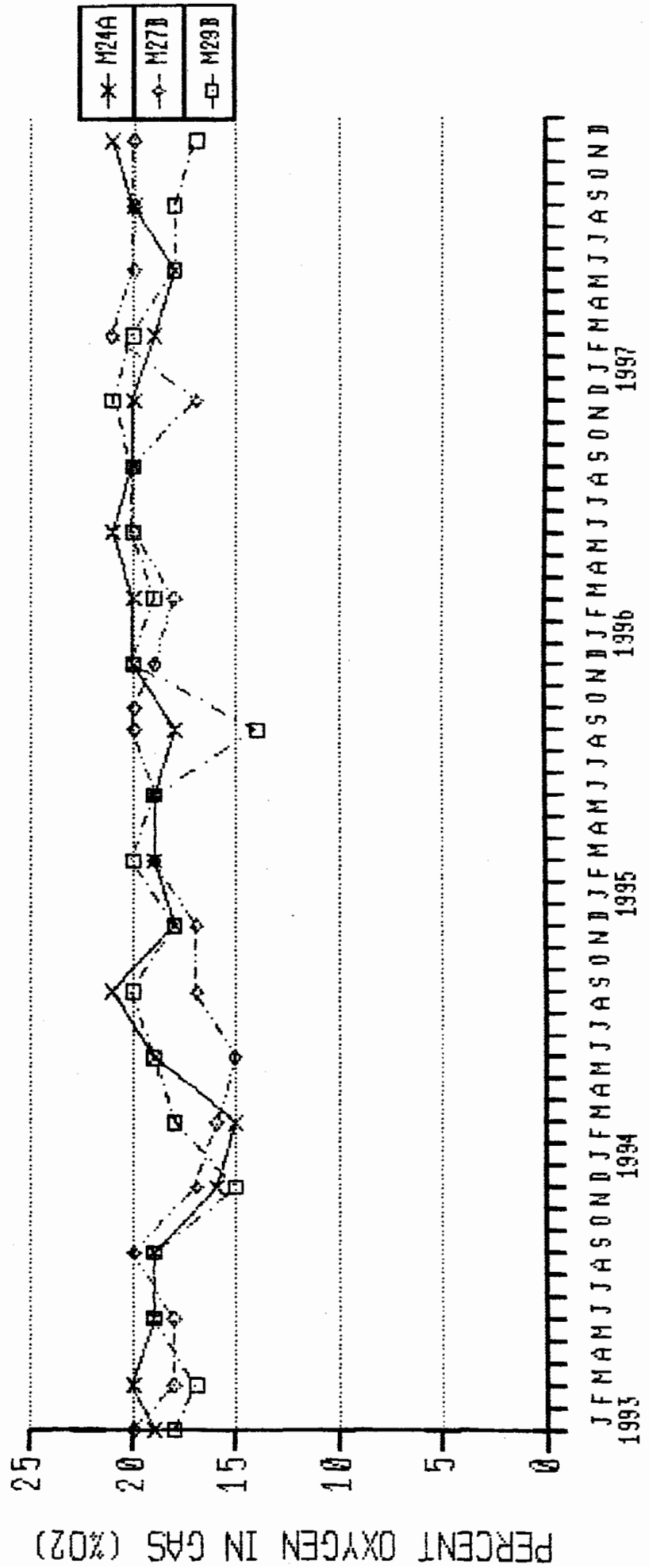


FIGURE 68
PUENTE HILLS LANDFILL
FIELD WATER TEMPERATURE
BARRIER TWO MONITORING WELLS

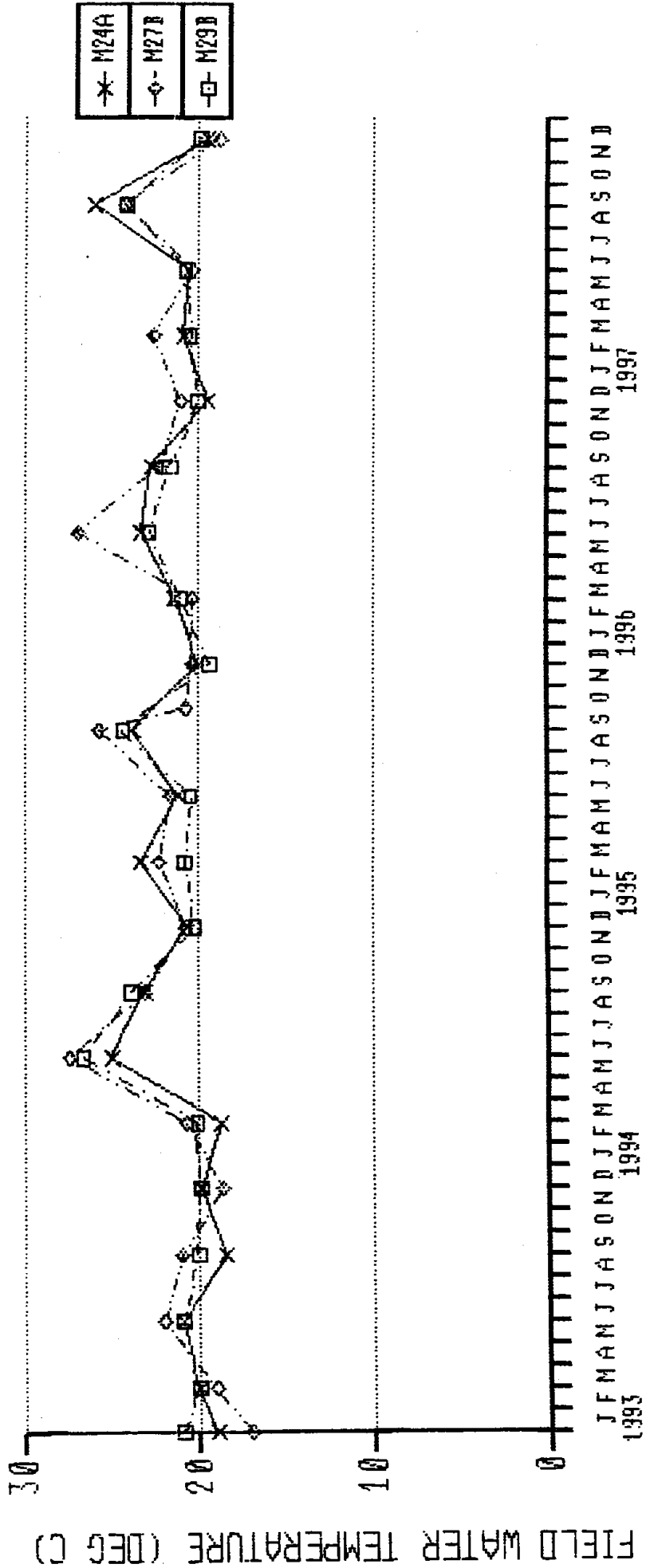


FIGURE 69
PUENTE HILLS LANDFILL
FIELD PH
BARRIER TWO MONITORING WELLS

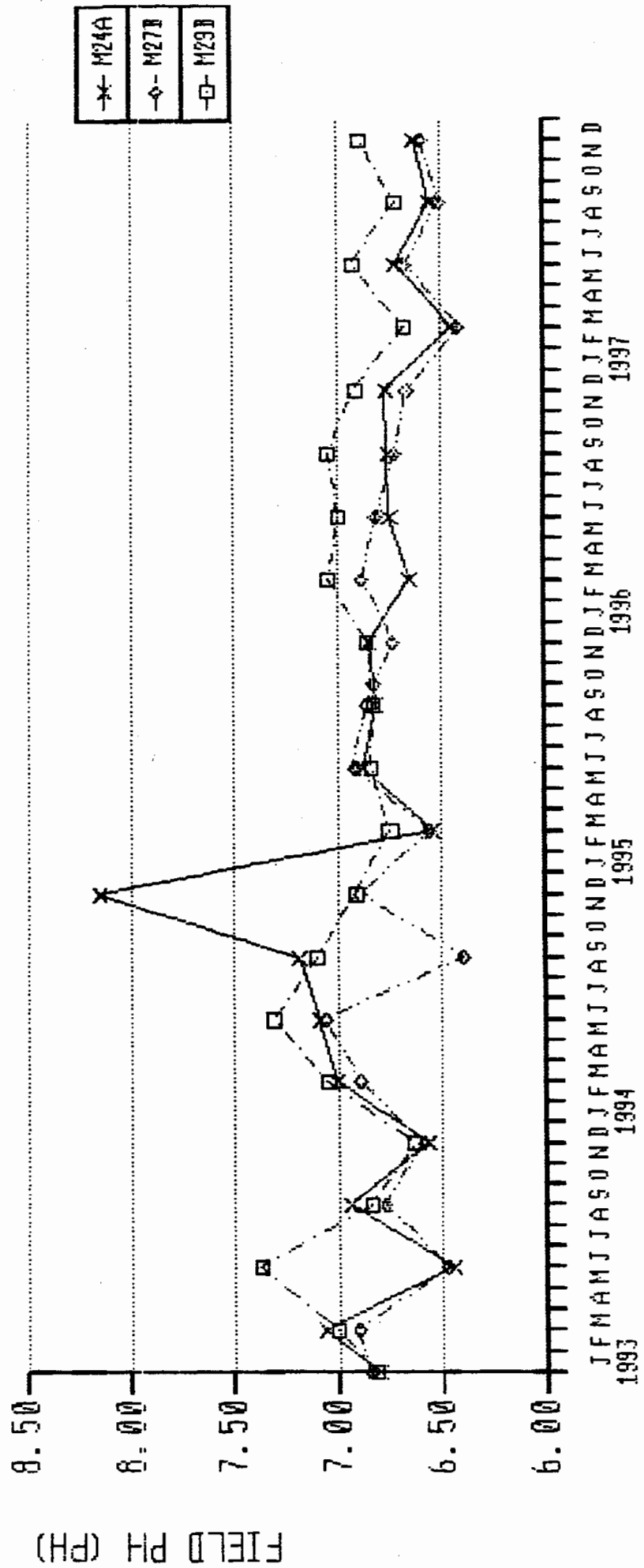


FIGURE 70
PUENTE HILLS LANDFILL
FIELD CONDUCTIVITY
BARRIER TWO MONITORING WELLS

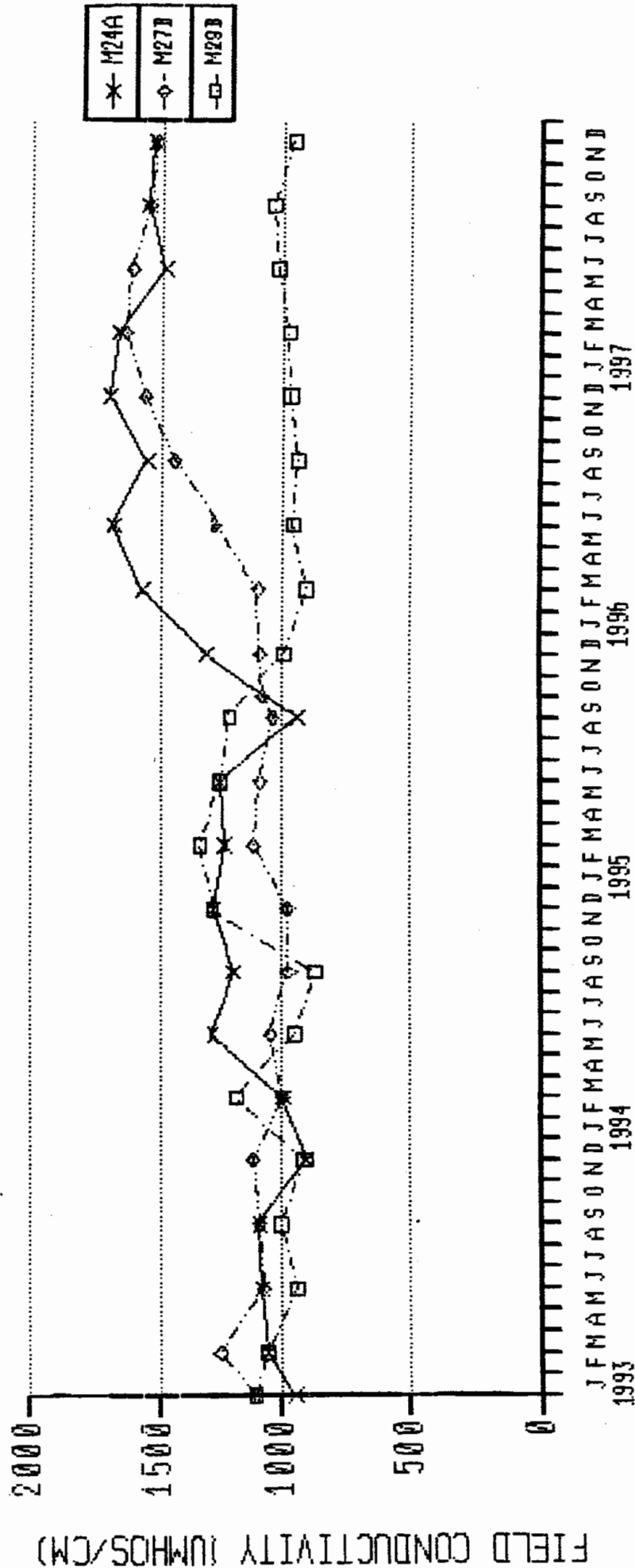


FIGURE 71
PUENTE HILLS LANDFILL
FIELD DISSOLVED O₂
BARRIER TWO MONITORING WELLS

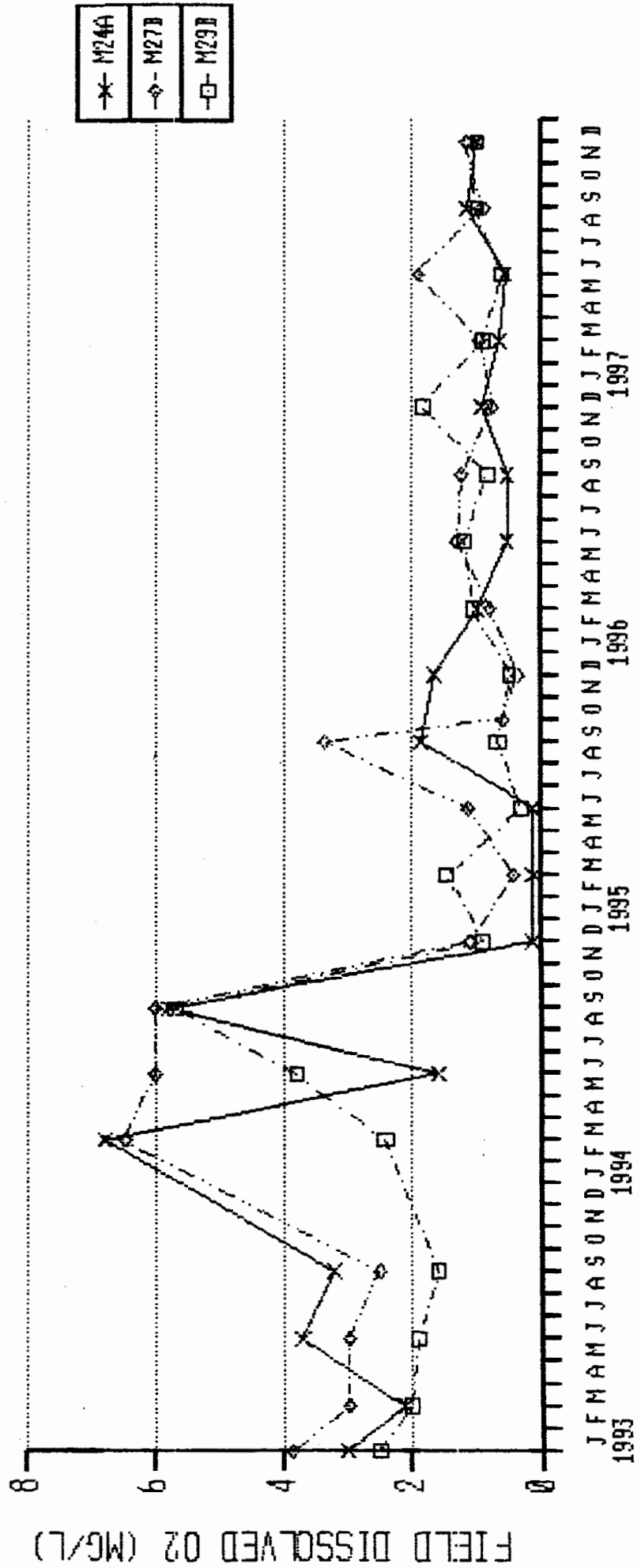


FIGURE 72
PUENTE HILLS LANDFILL
PH
BARRIER TWO MONITORING WELLS

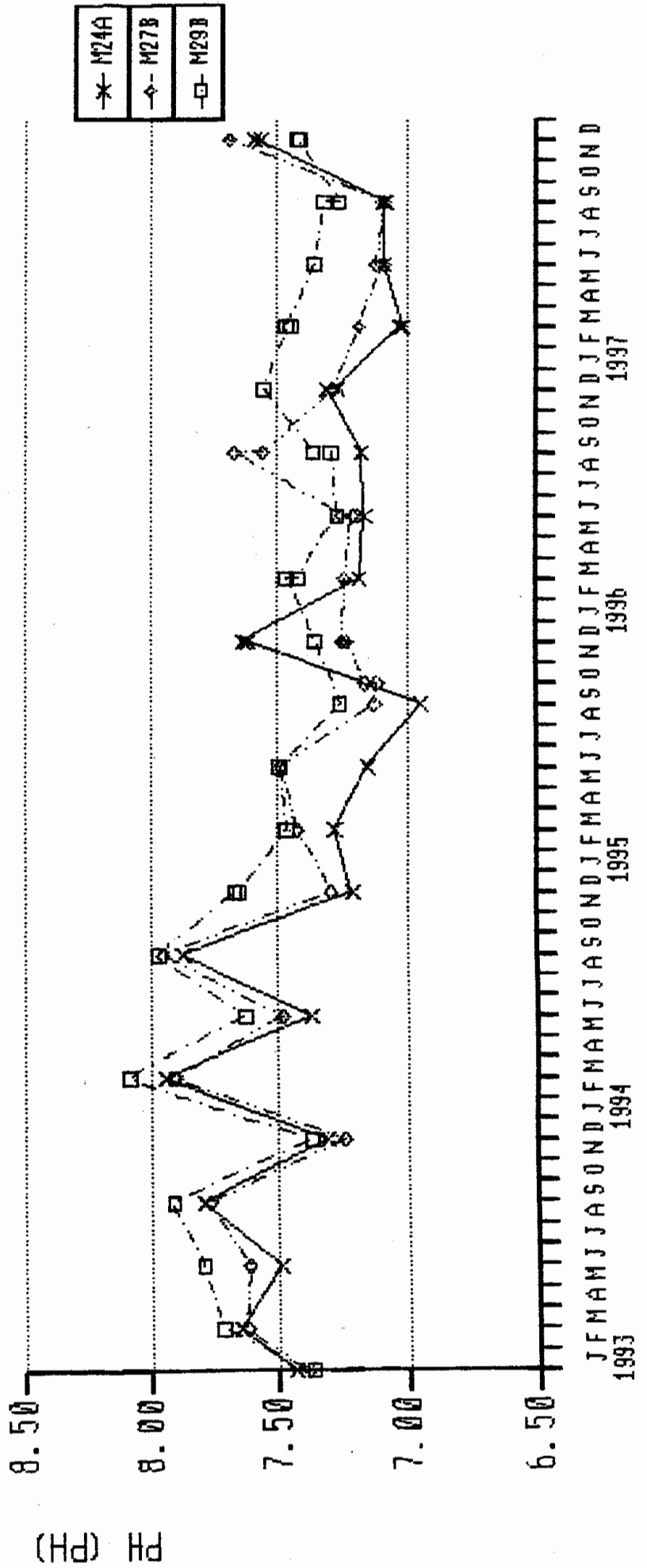


FIGURE 73
PUENTE HILLS LANDFILL
TOTAL DISSOLVED SOLIDS
BARRIER TWO MONITORING WELLS

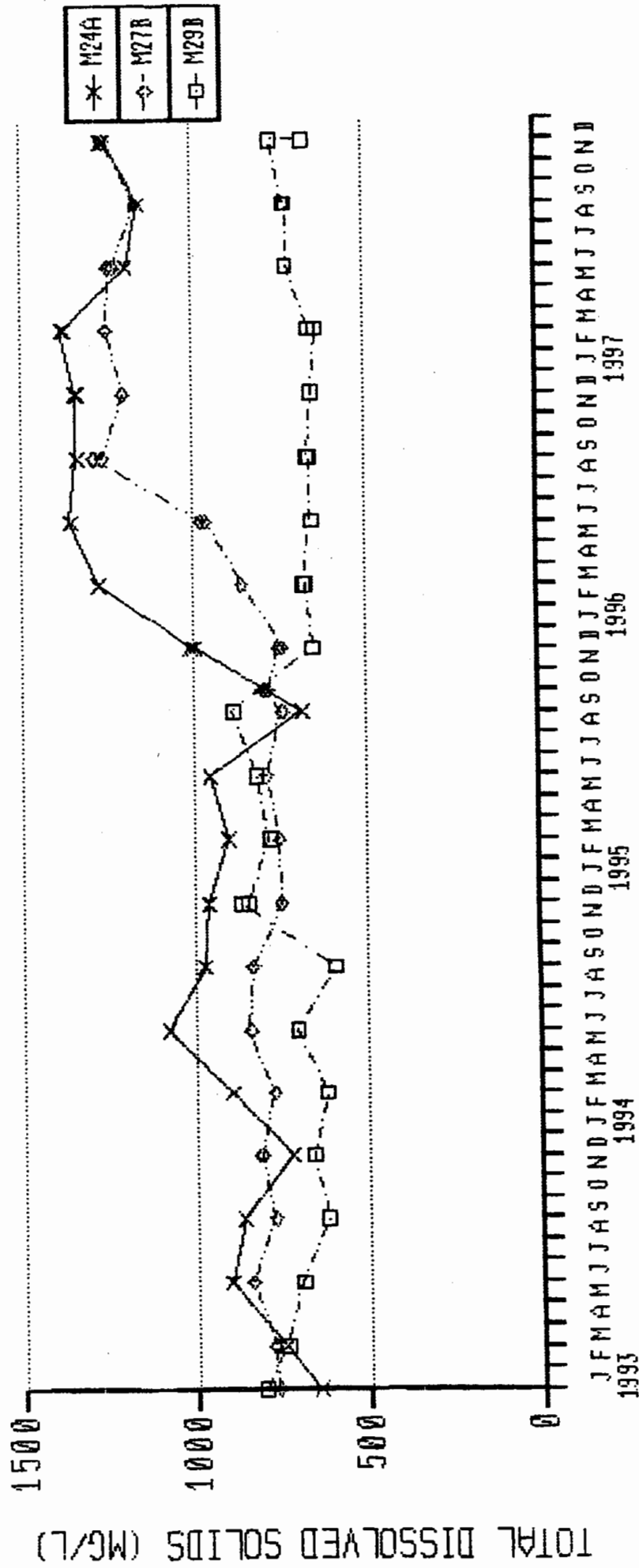


FIGURE 74
PUENTE HILLS LANDFILL
NITRATE NITROGEN
BARRIER TWO MONITORING WELLS

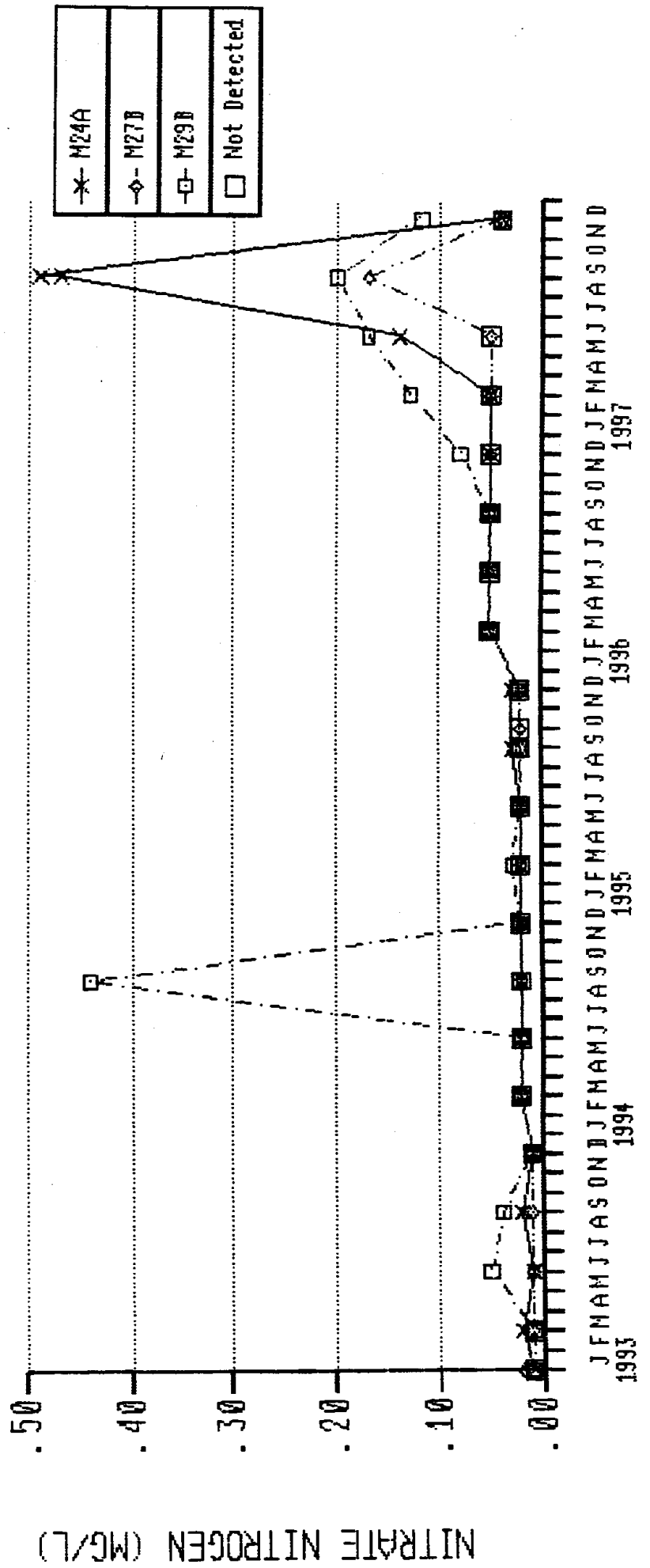


FIGURE 75
PUENTE HILLS LANDFILL
SULFATE
BARRIER TWO MONITORING WELLS

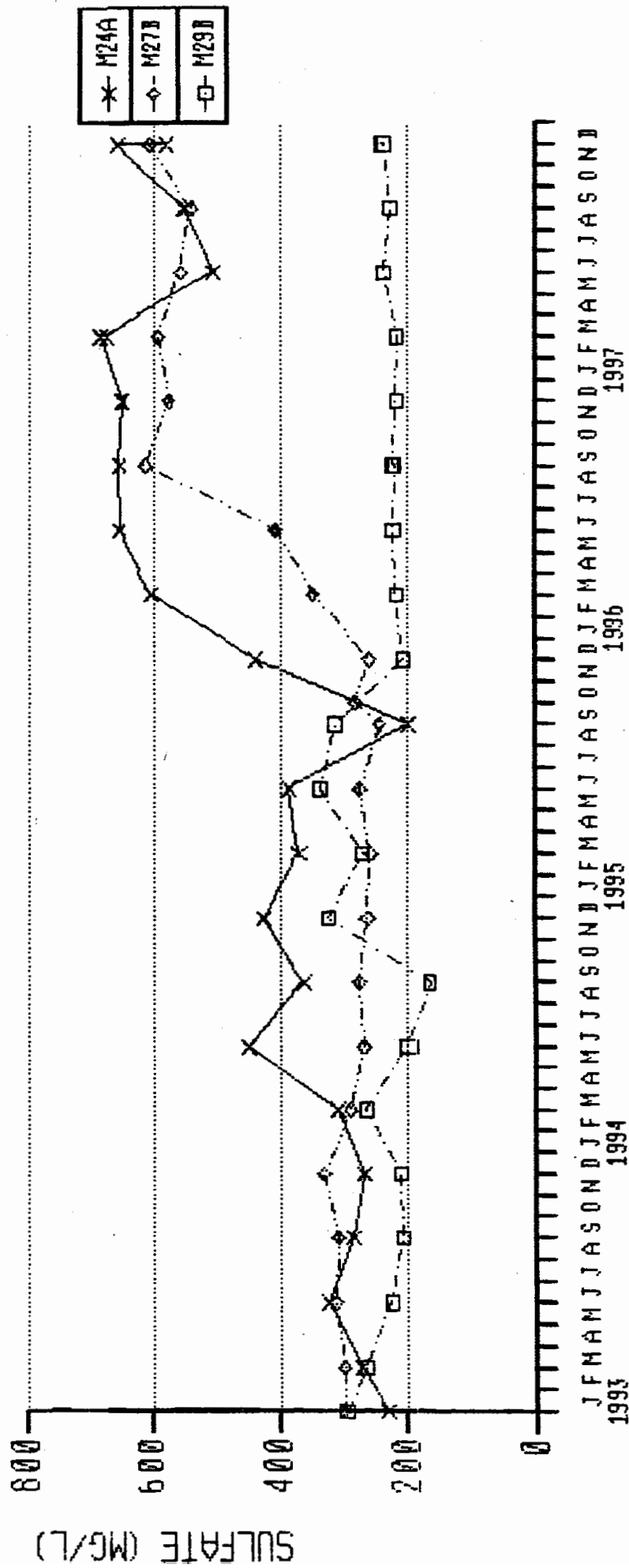


FIGURE 76
PUENTE HILLS LANDFILL
CHLORIDE
BARRIER TWO MONITORING WELLS

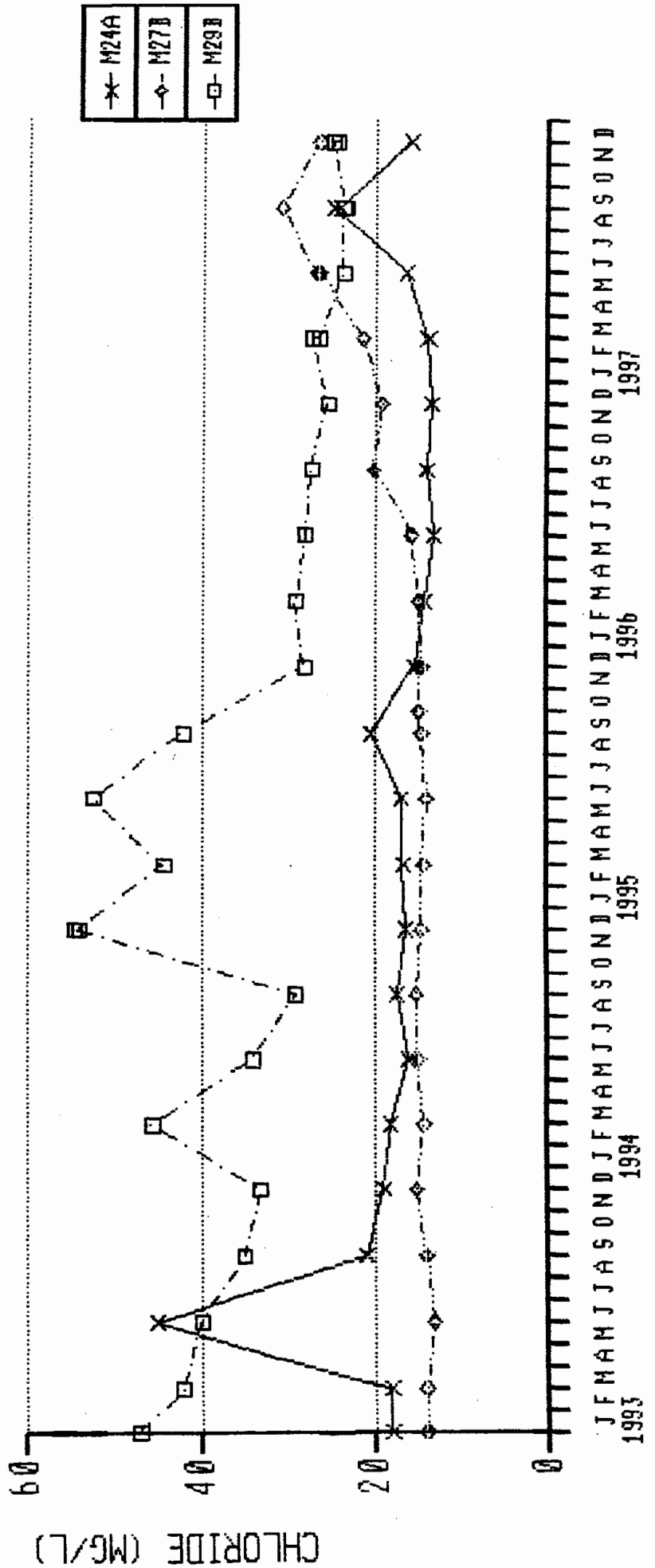
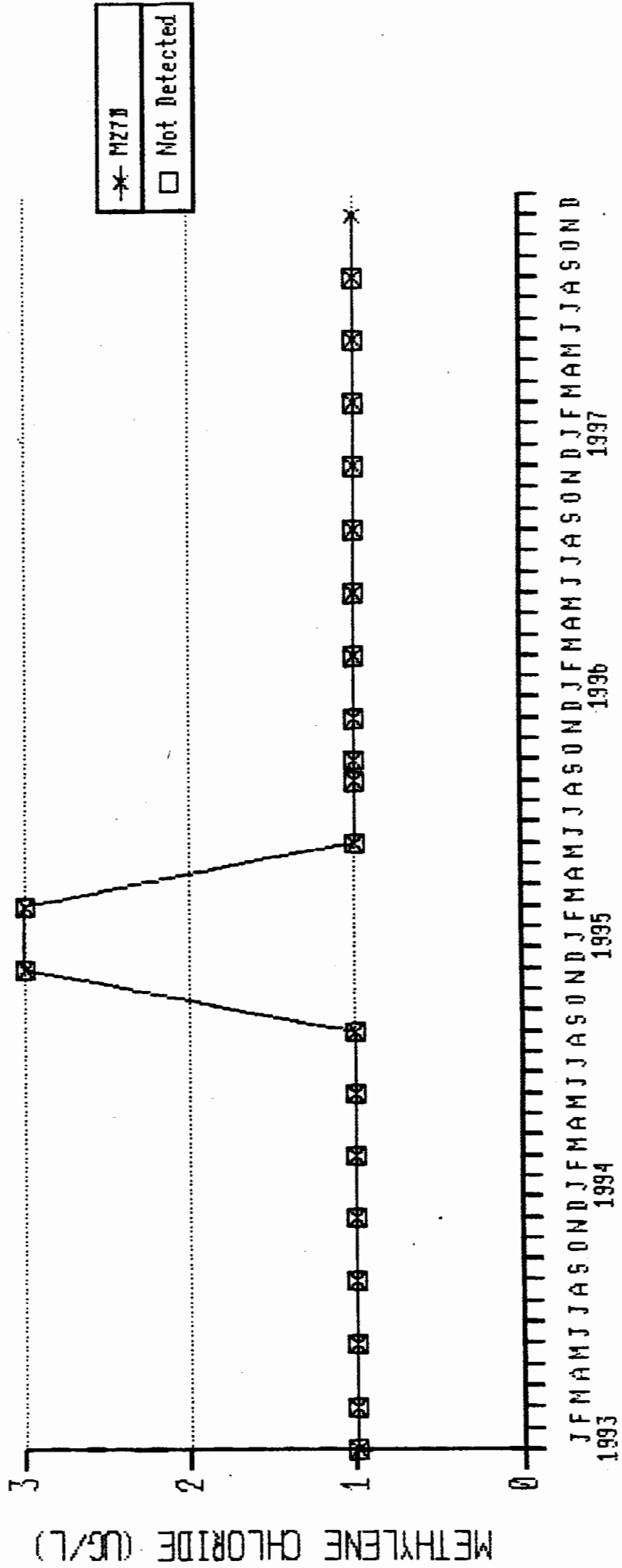


FIGURE 77
PUENTE HILLS LANDFILL
METHYLENE CHLORIDE
BARRIER TWO MONITORING WELLS



FIGURES 78 - 132

WATER QUALITY DATA GRAPHS

BARRIER 3 MONITORING WELLS

FIGURE 78
PUENTE HILLS LANDFILL
DEPTH TO WATER
BARRIER THREE MONITORING WELLS

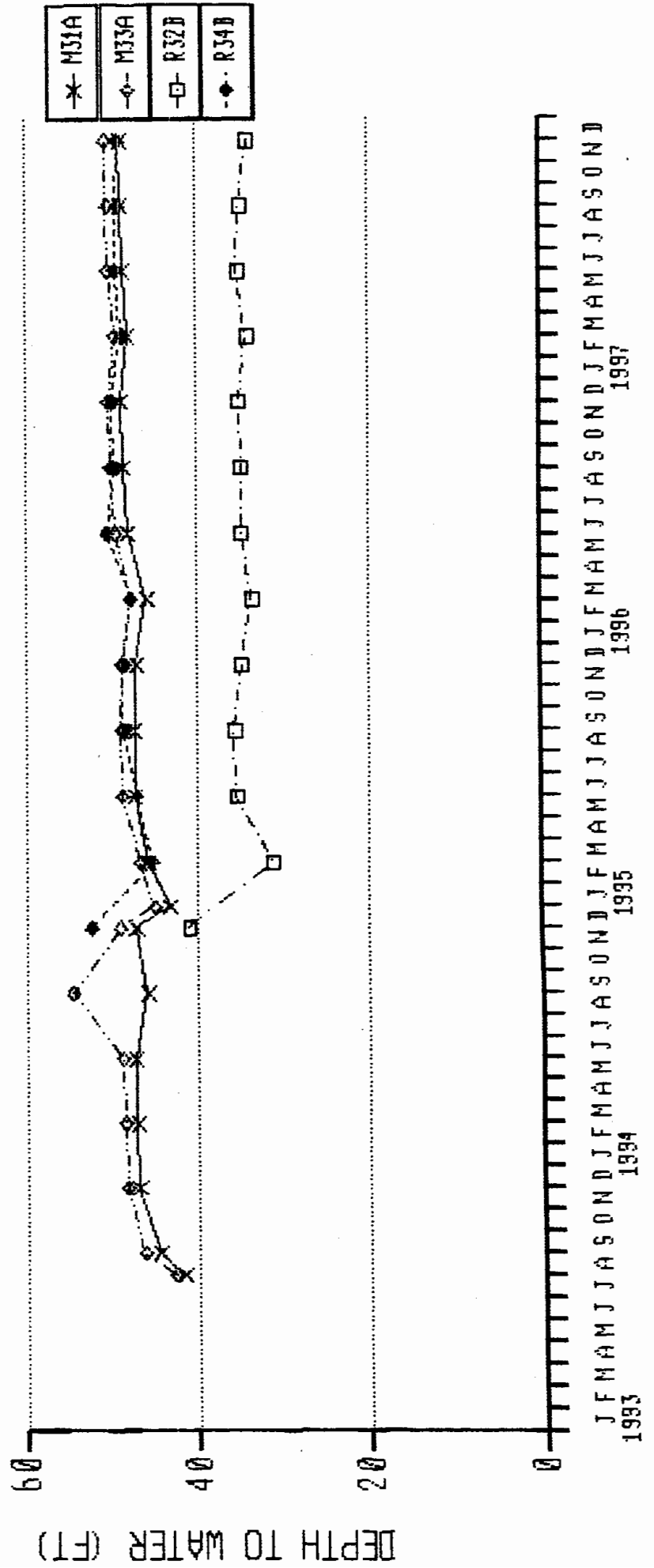


FIGURE 79
PUENTE HILLS LANDFILL
DEPTH TO BOTTOM
BARRIER THREE MONITORING WELLS

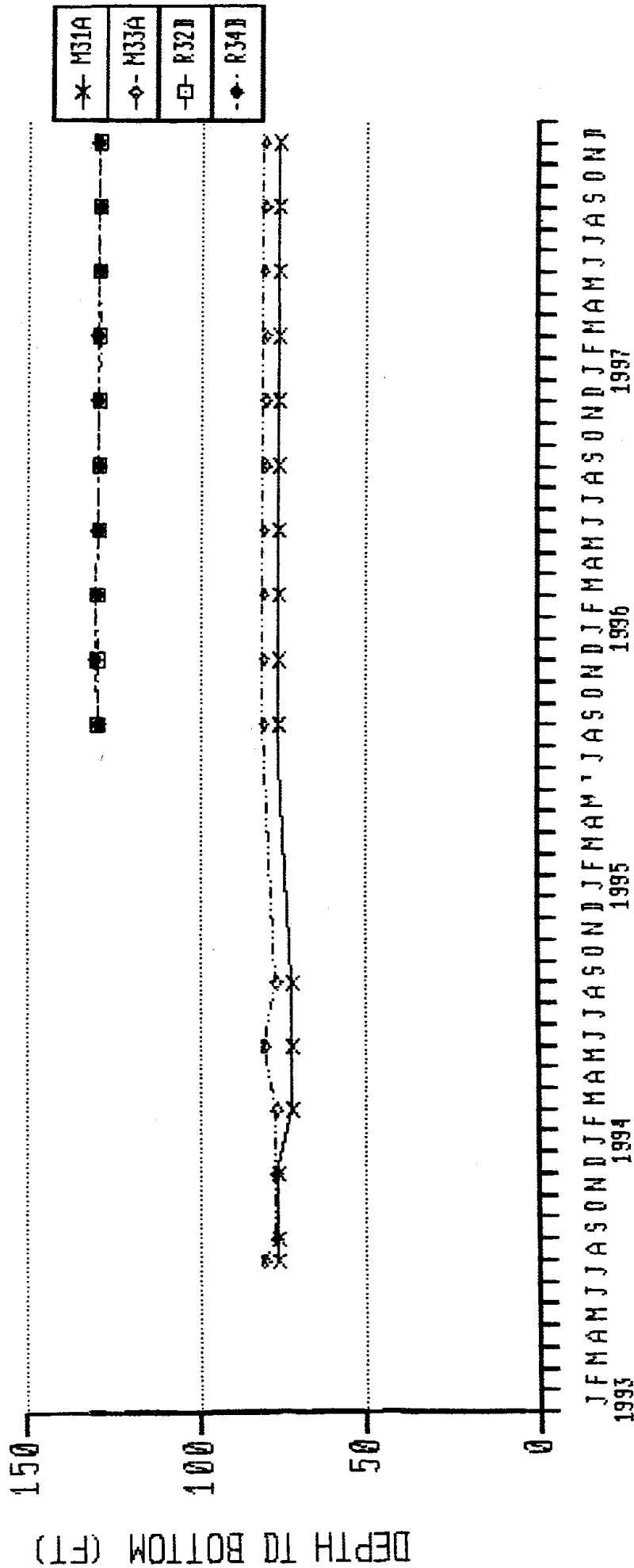


FIGURE 80
PUENTE HILLS LANDFILL
PERCENT METHANE IN GAS
BARRIER THREE MONITORING WELLS

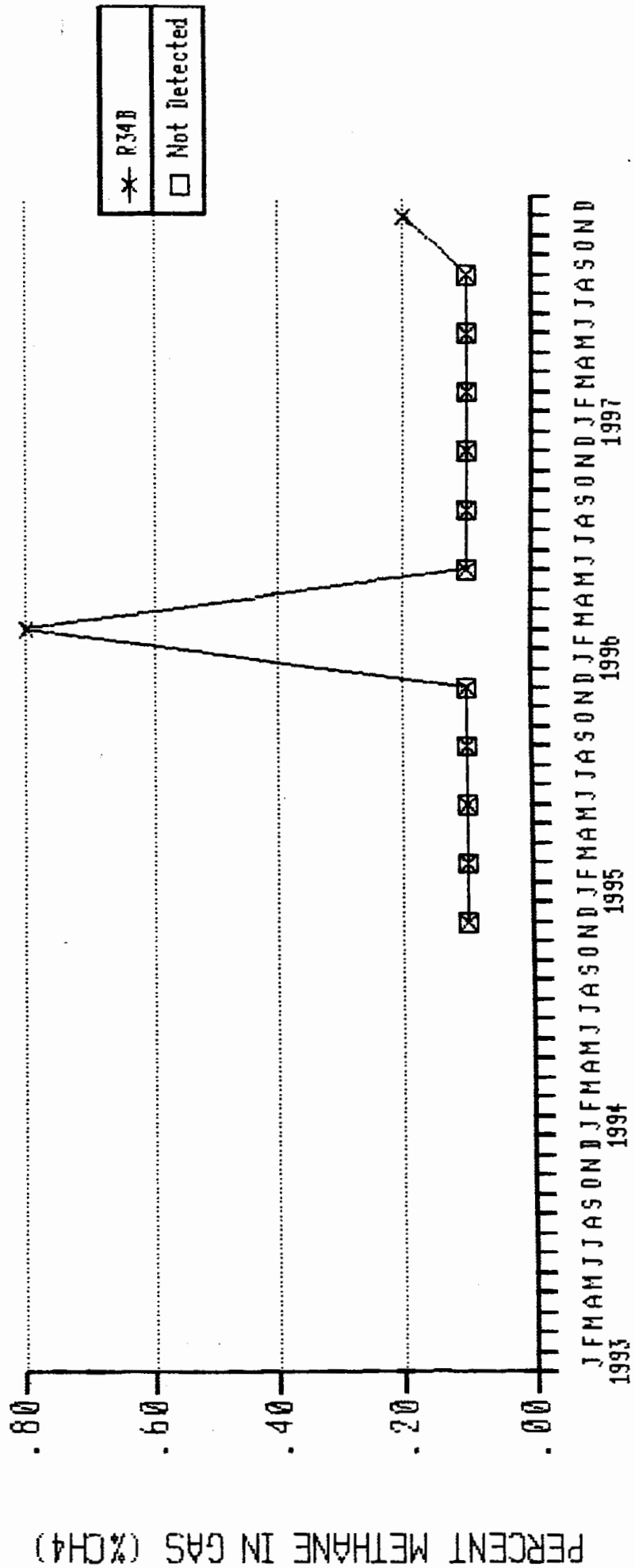


FIGURE 81
PUENTE HILLS LANDFILL
PERCENT OXYGEN IN GAS
BARRIER THREE MONITORING WELLS

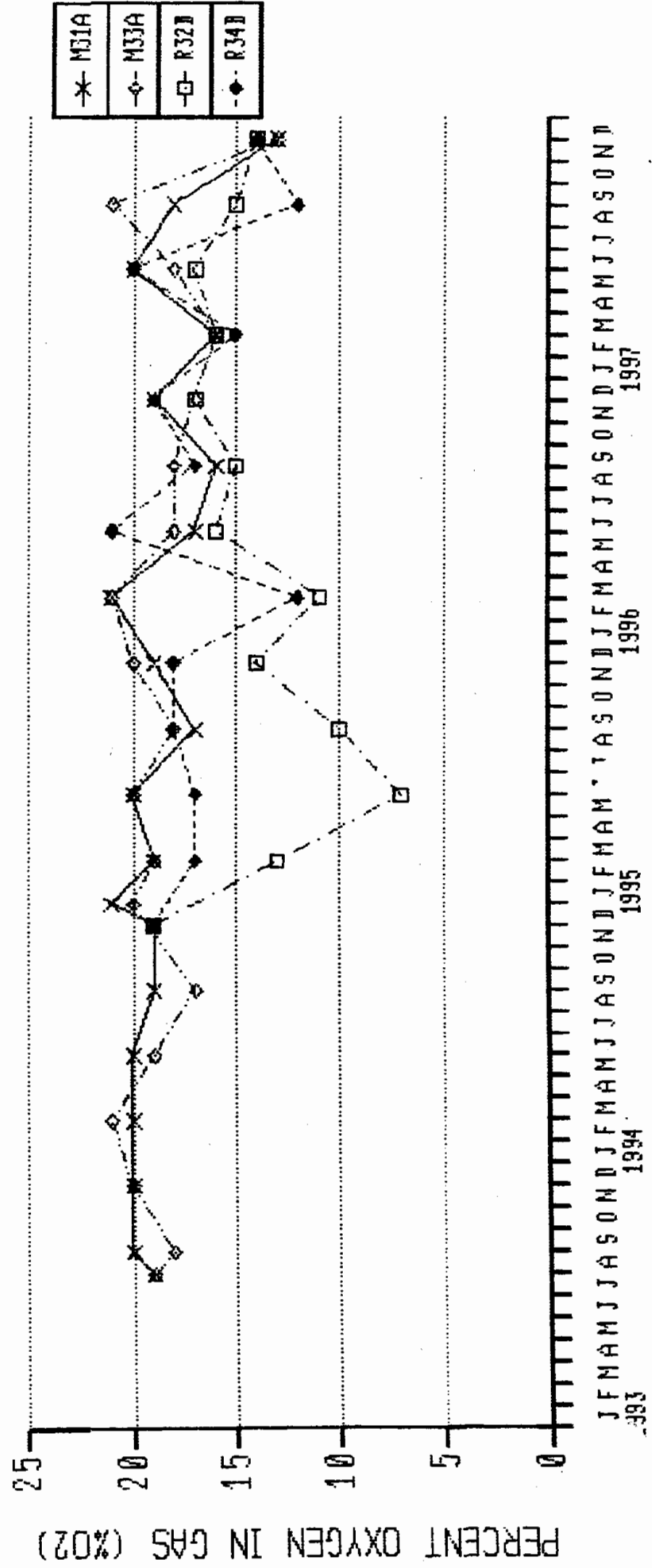


FIGURE 82
PUENTE HILLS LANDFILL
FIELD WATER TEMPERATURE
BARRIER THREE MONITORING WELLS

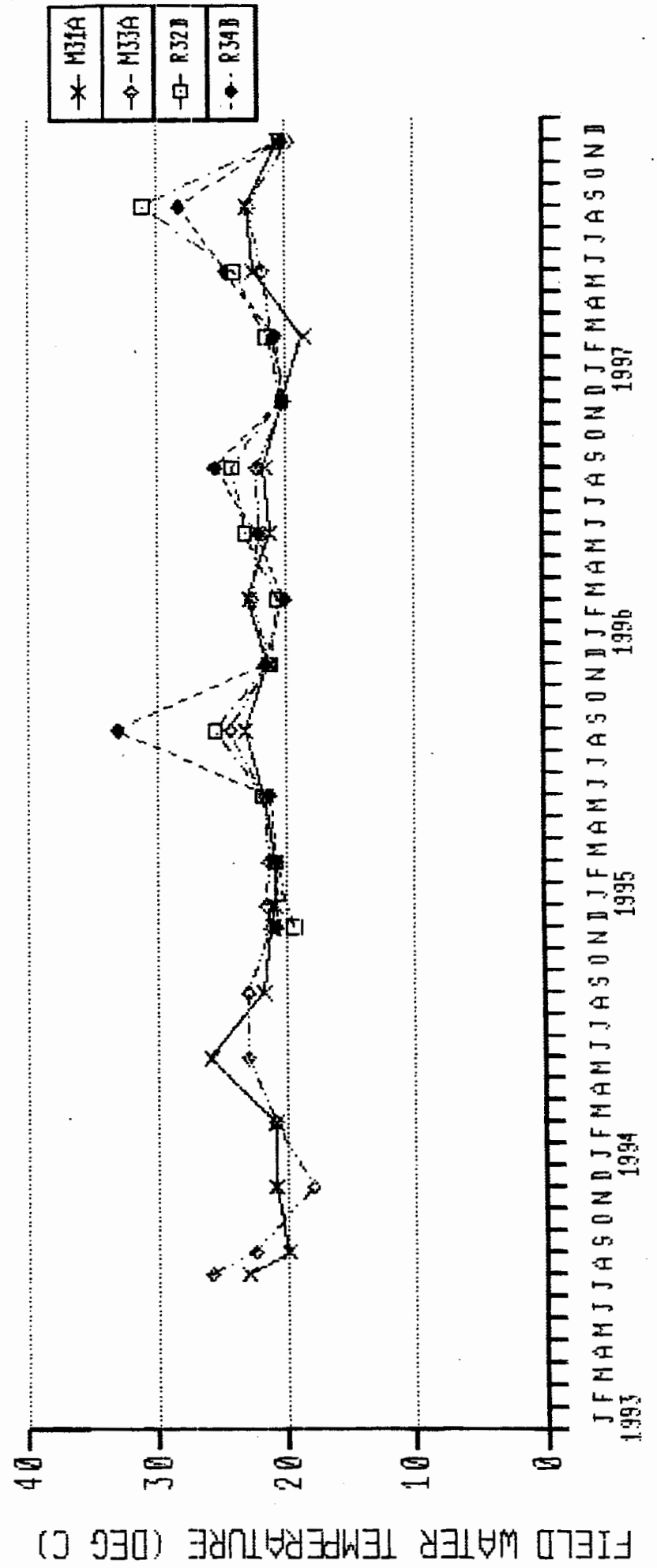


FIGURE 83
PUENTE HILLS LANDFILL
FIELD PH
BARRIER THREE MONITORING WELLS

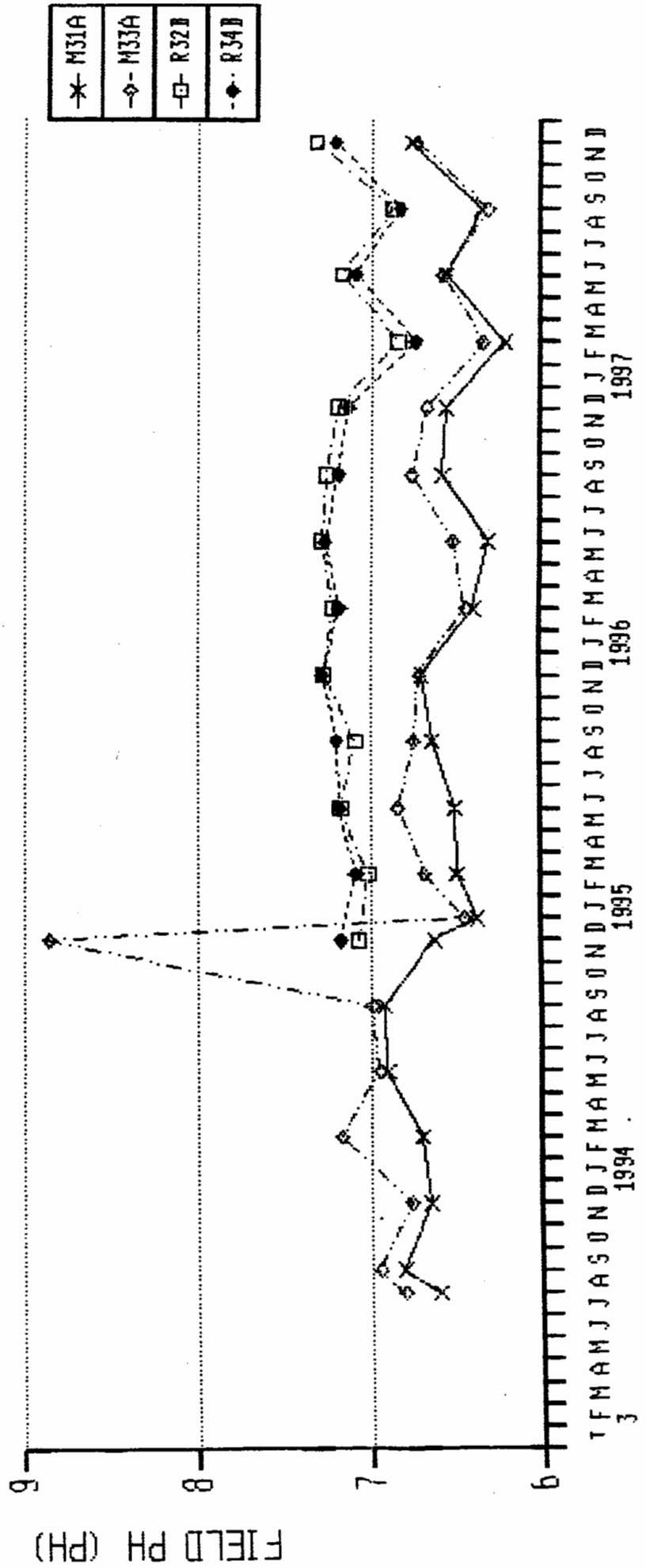


FIGURE 84
PUENTE HILLS LANDFILL
FIELD CONDUCTIVITY
BARRIER THREE MONITORING WELLS

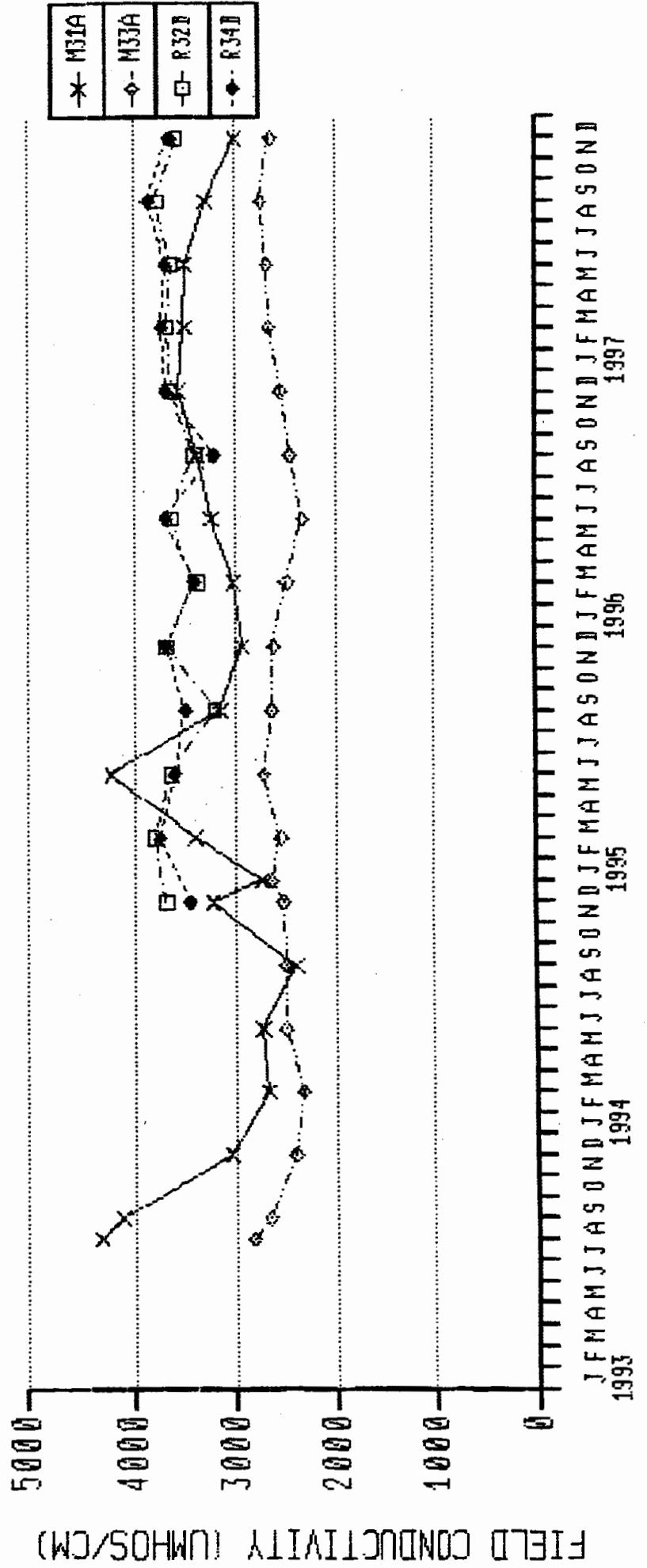


FIGURE 85
PUENTE HILLS LANDFILL
FIELD DISSOLVED O₂
BARRIER THREE MONITORING WELLS

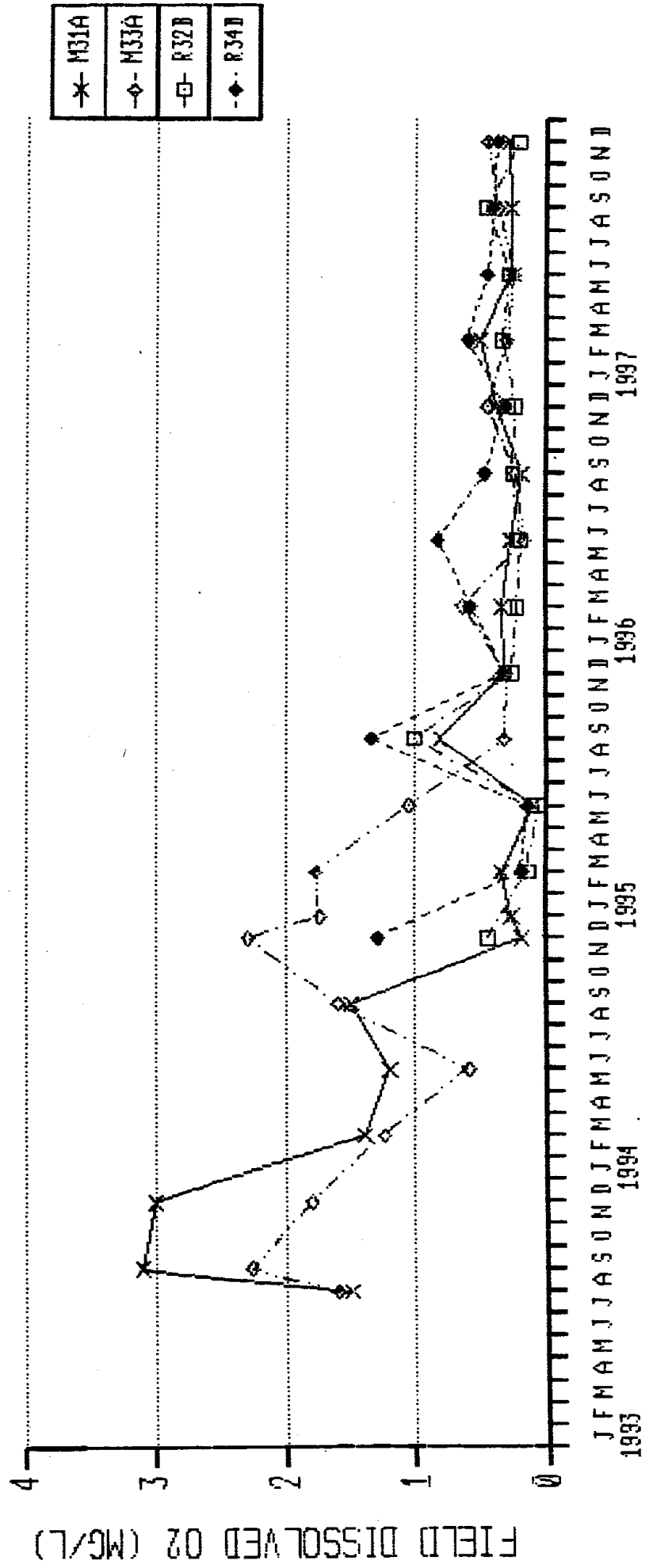


FIGURE 86
 PUENTE HILLS LANDFILL
 FIELD DISSOLVED CO₂
 BARRIER THREE MONITORING WELLS

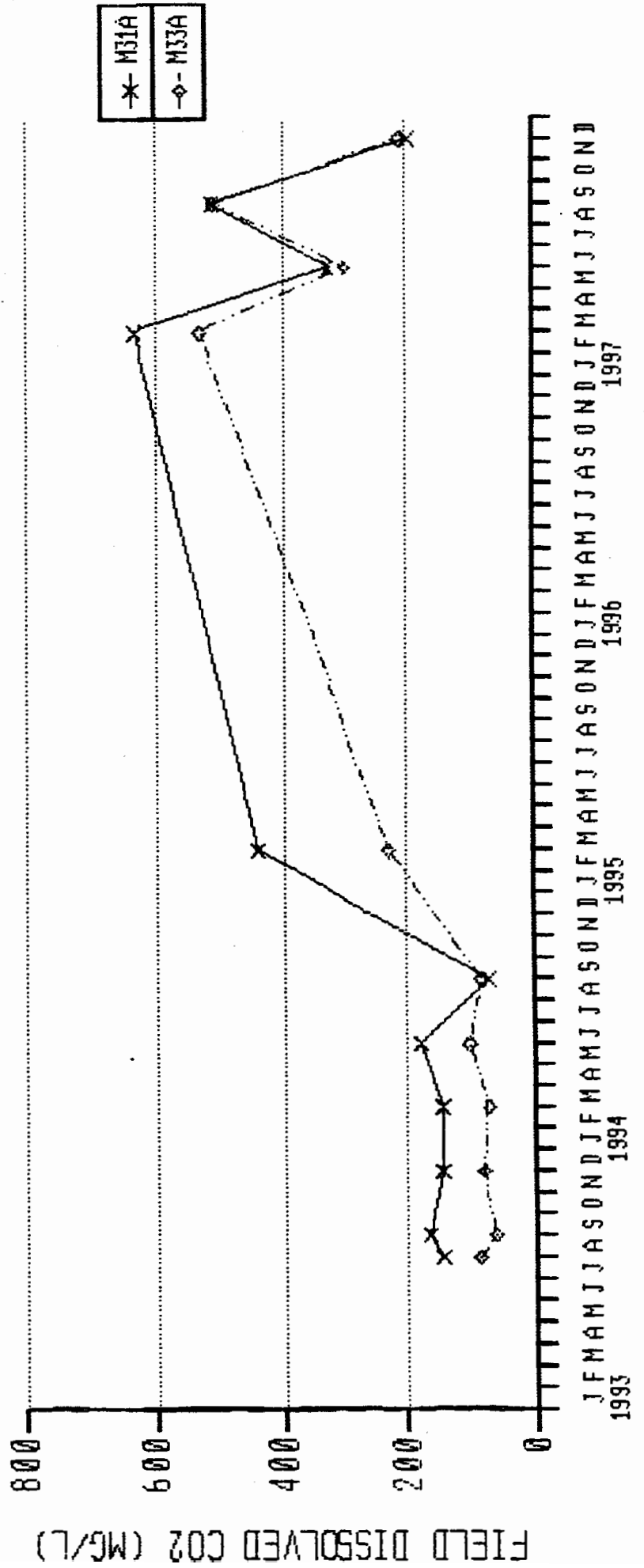


FIGURE 87
 PUENTE HILLS LANDFILL
 PH
 BARRIER THREE MONITORING WELLS

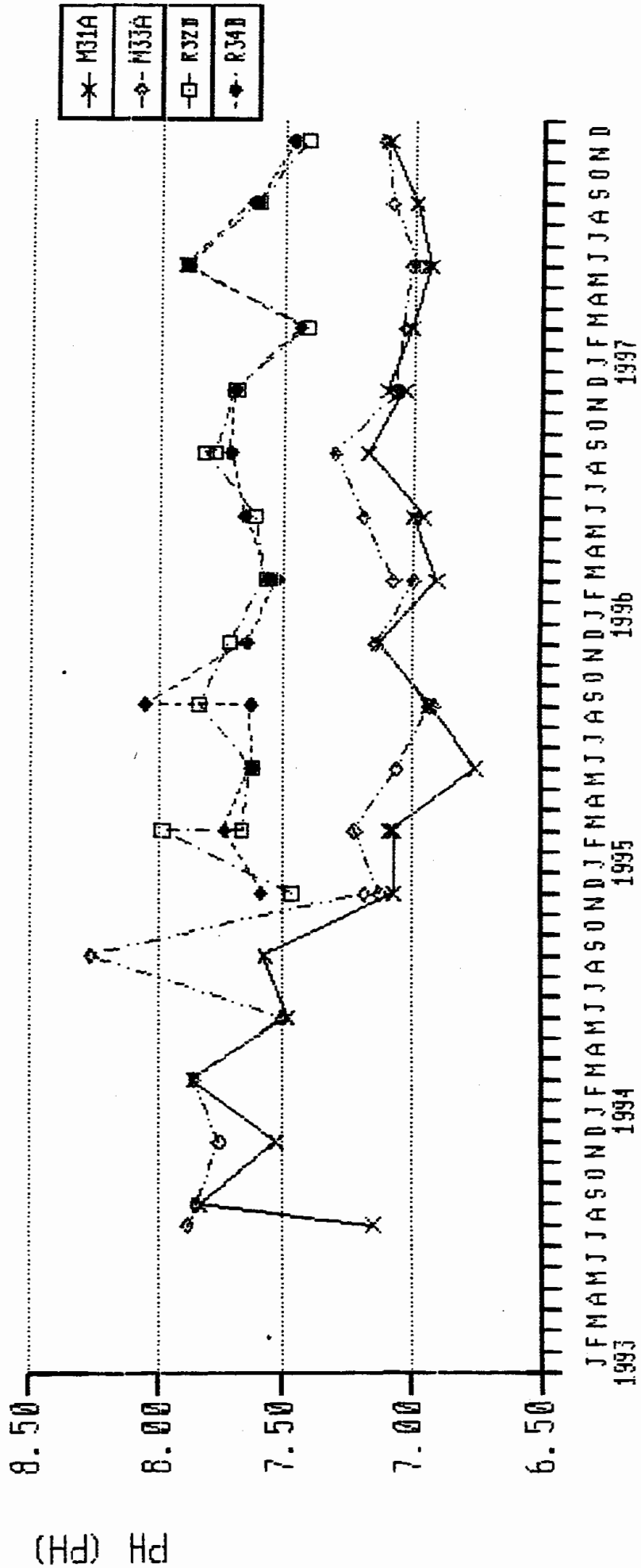


FIGURE 88
 PUENTE HILLS LANDFILL
 CONDUCTIVITY
 BARRIER THREE MONITORING WELLS

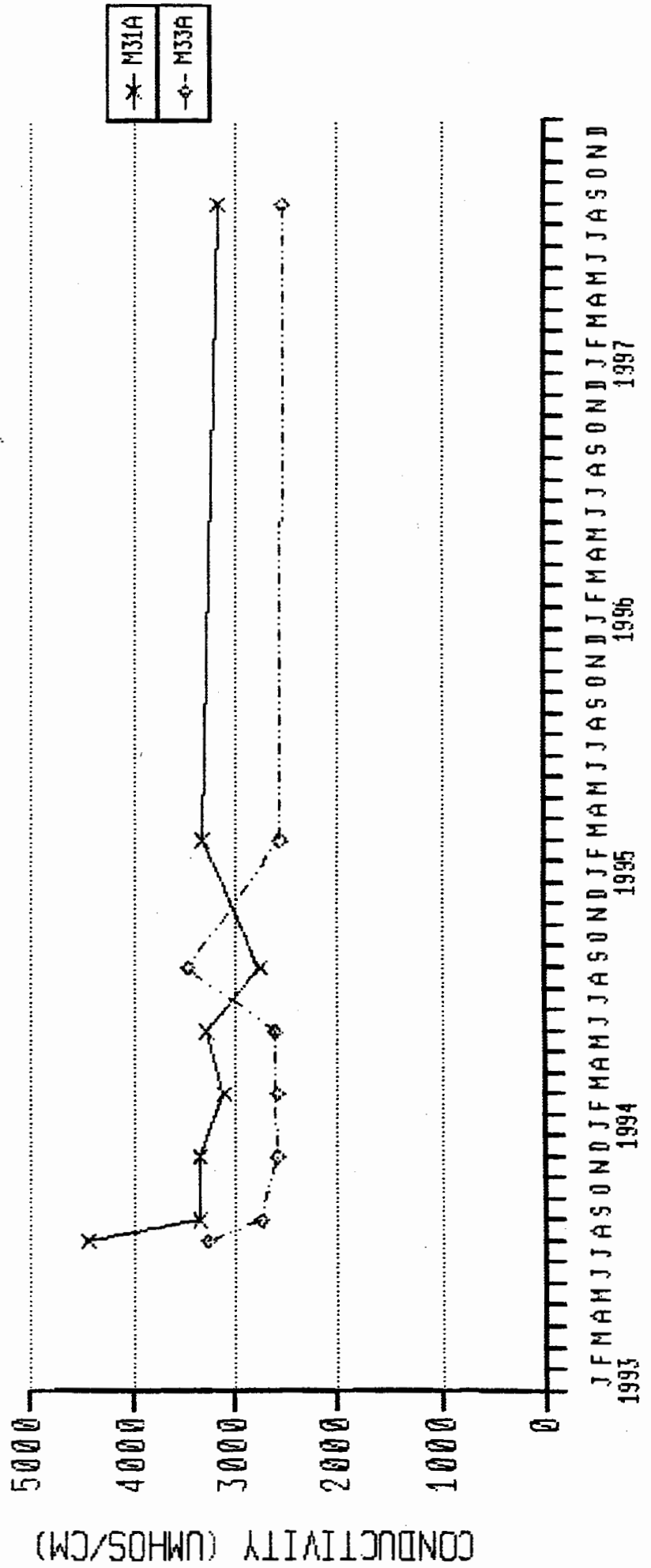


FIGURE 89
 PUENTE HILLS LANDFILL
 TOTAL DISSOLVED SOLIDS
 BARRIER THREE MONITORING WELLS

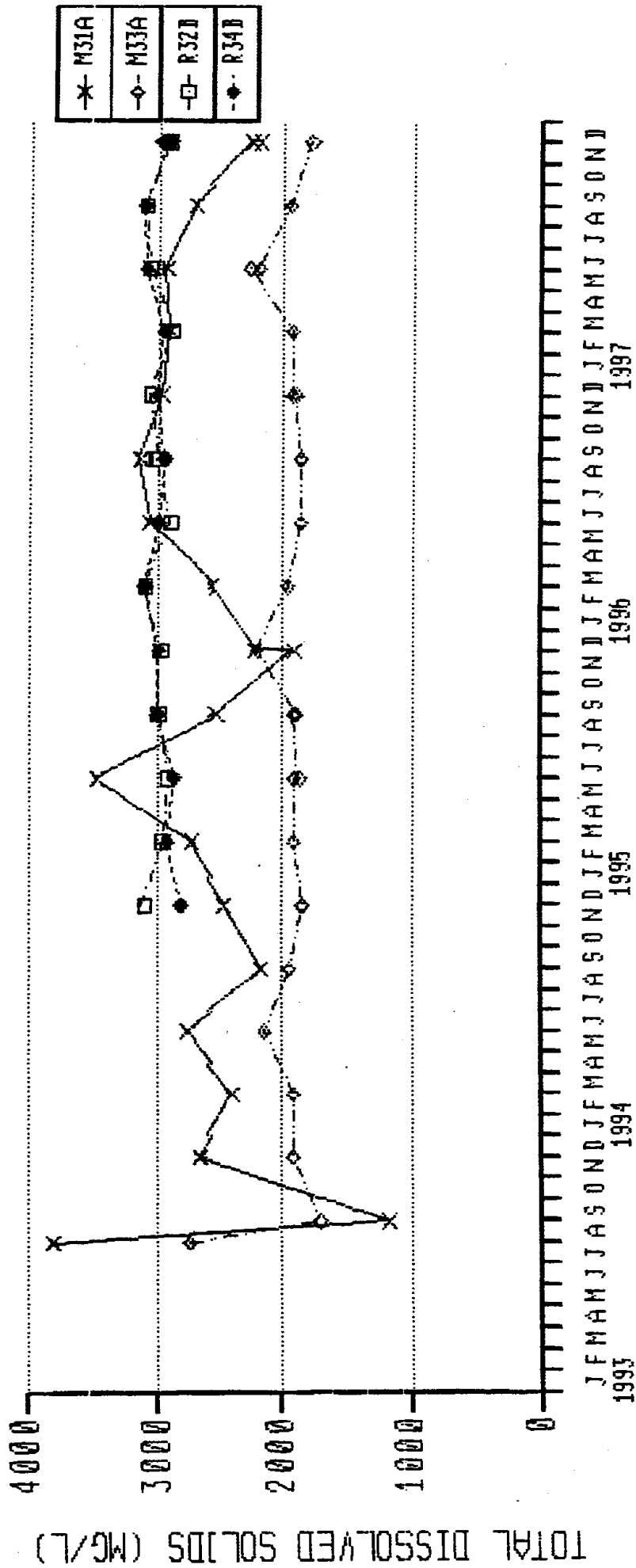


FIGURE 90
PUENTE HILLS LANDFILL
TOTAL HARDNESS
BARRIER THREE MONITORING WELLS

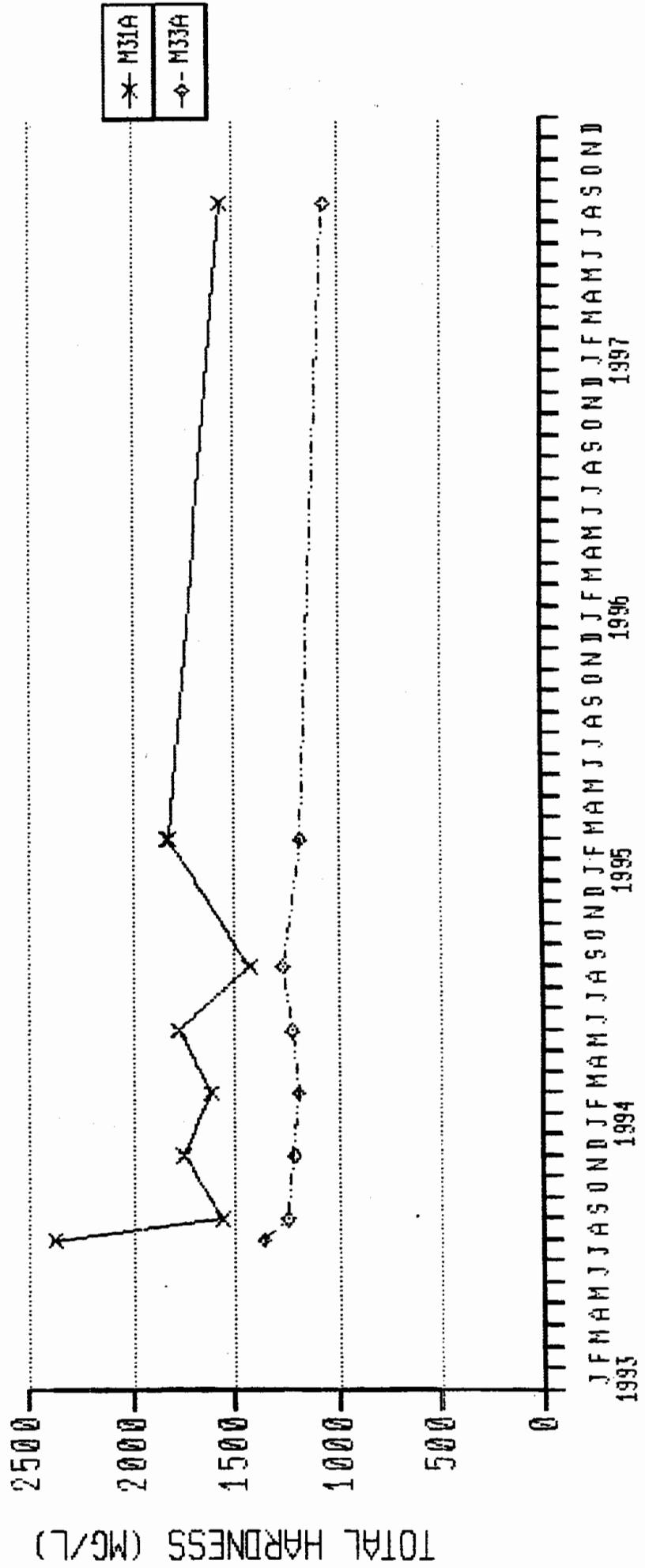


FIGURE 91
PUENTE HILLS LANDFILL
BORON
BARRIER THREE MONITORING WELLS

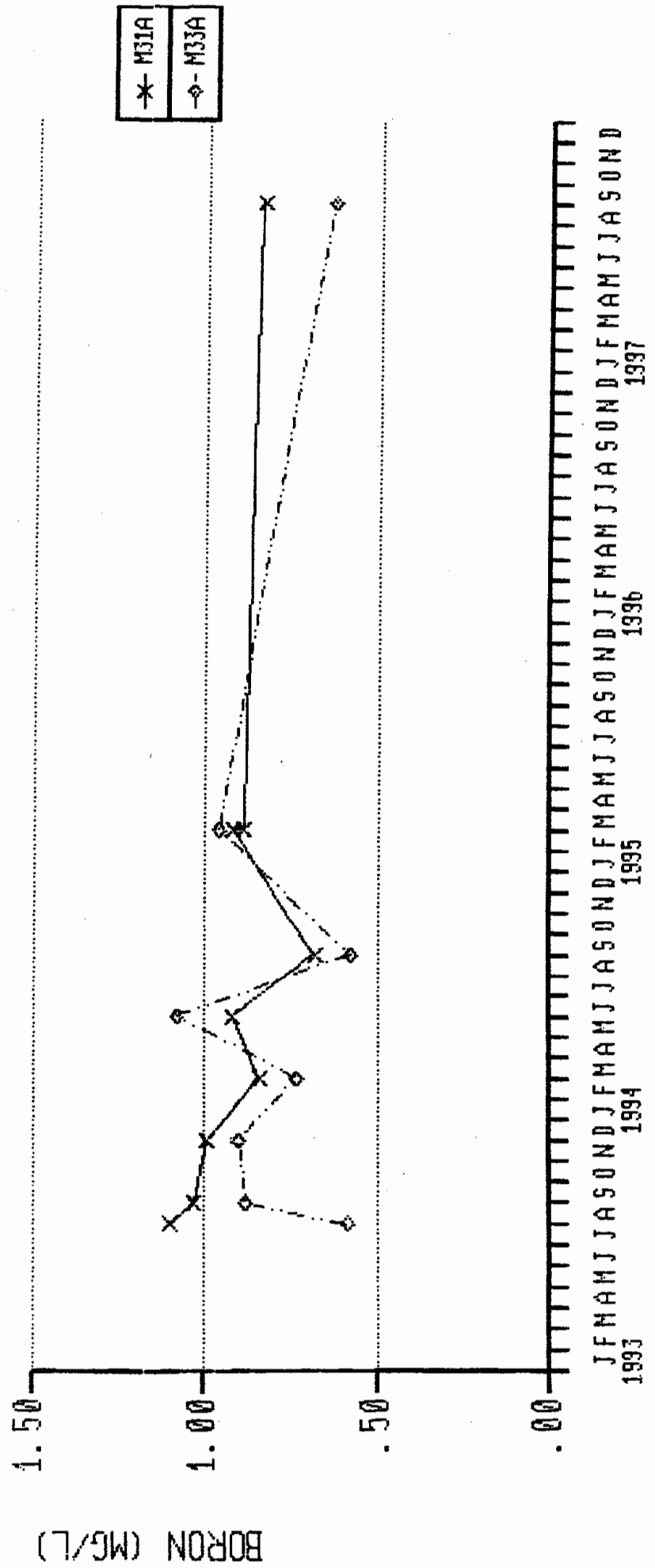


FIGURE 92
PUENTE HILLS LANDFILL
NITRATE NITROGEN
BARRIER THREE MONITORING WELLS

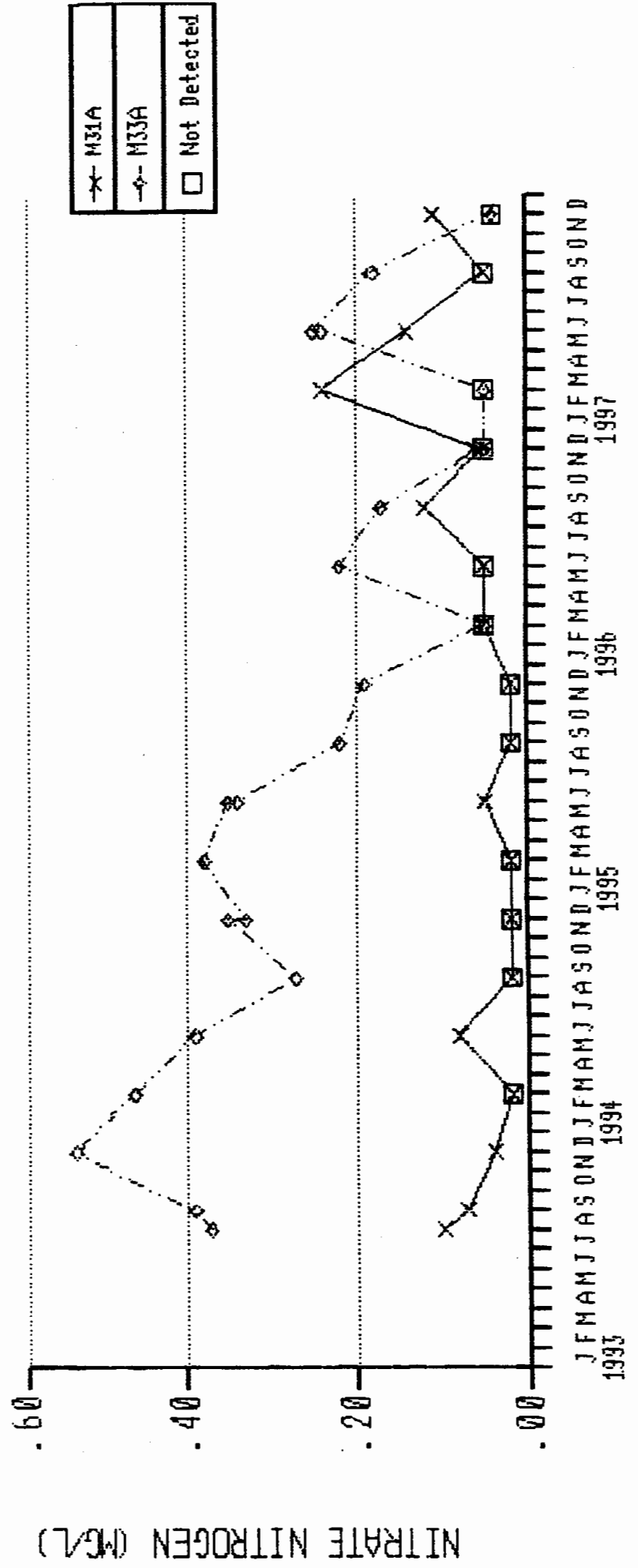


FIGURE 93
PUENTE HILLS LANDFILL
SULFATE
BARRIER THREE MONITORING WELLS

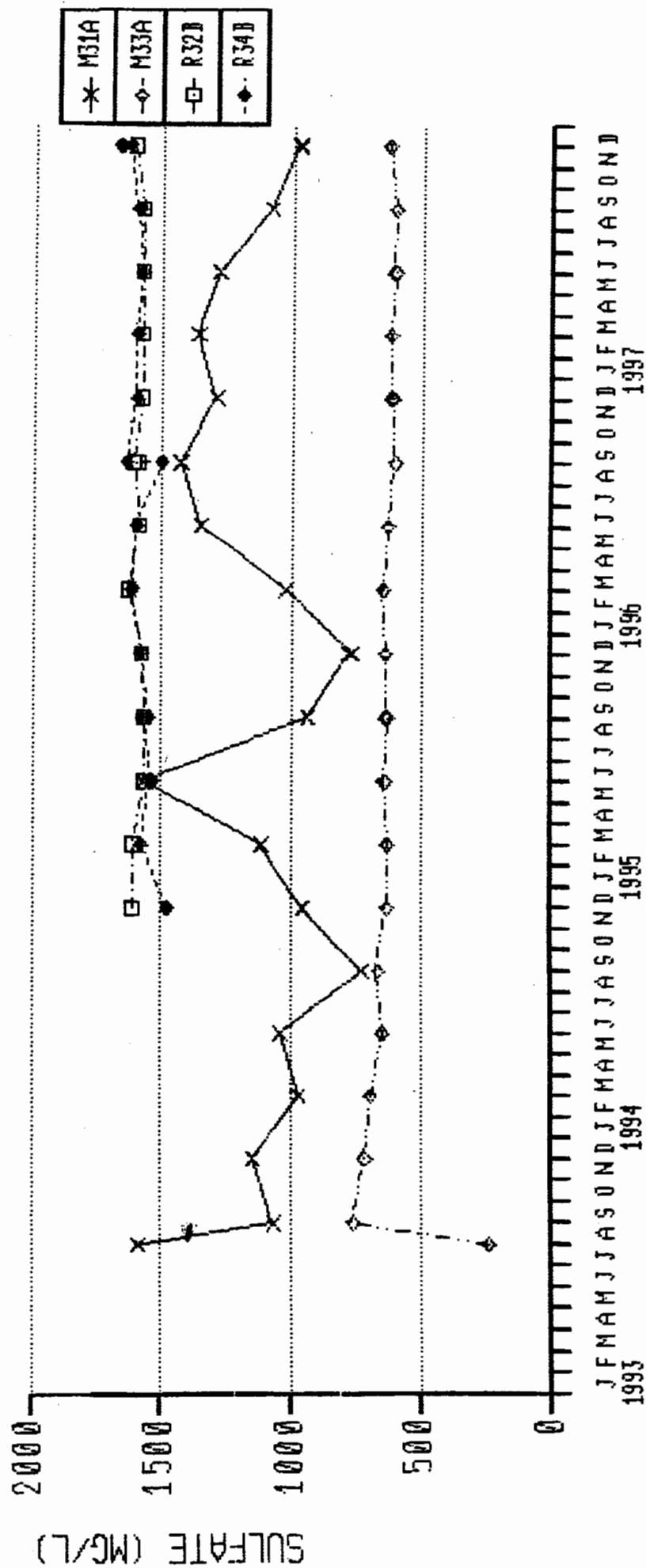


FIGURE 94
PUENTE HILLS LANDFILL
CHLORIDE
BARRIER THREE MONITORING WELLS

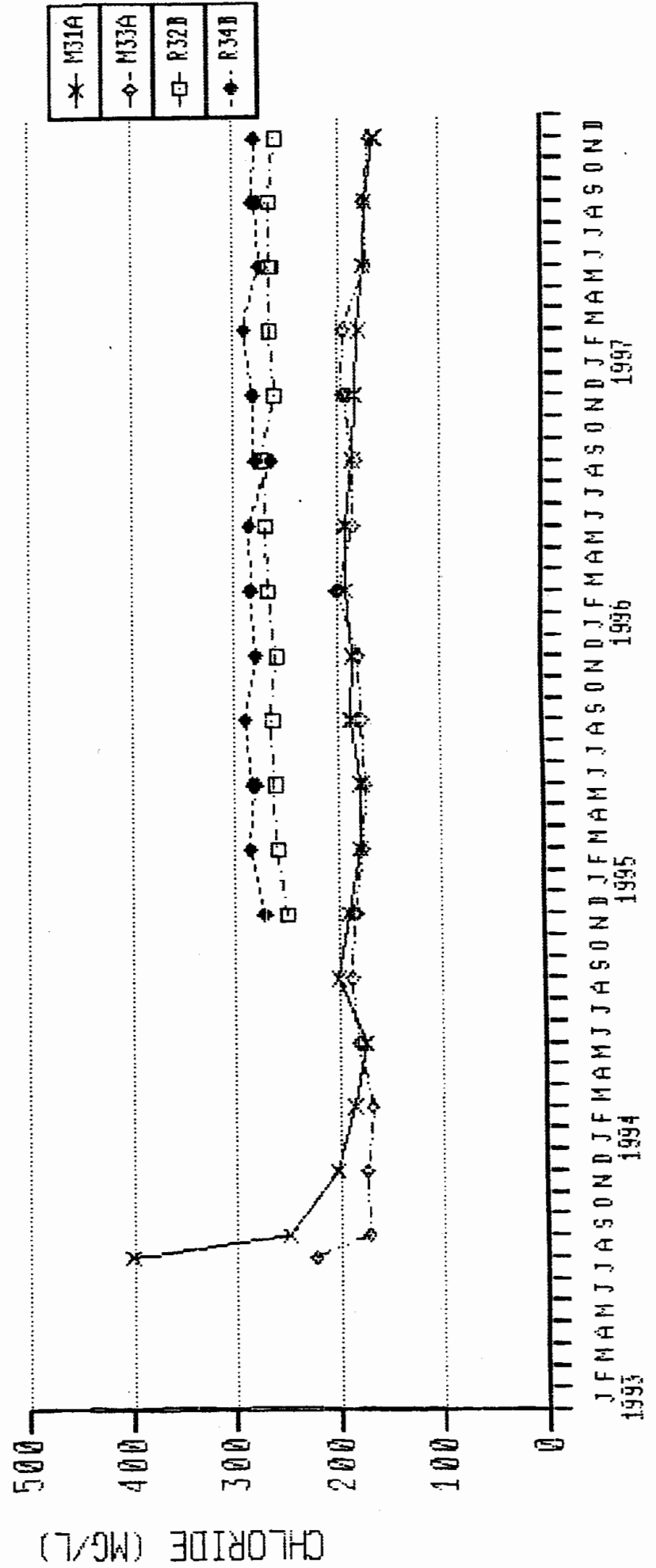


FIGURE 95
PUENTE HILLS LANDFILL
TOTAL ALKALINITY
BARRIER THREE MONITORING WELLS

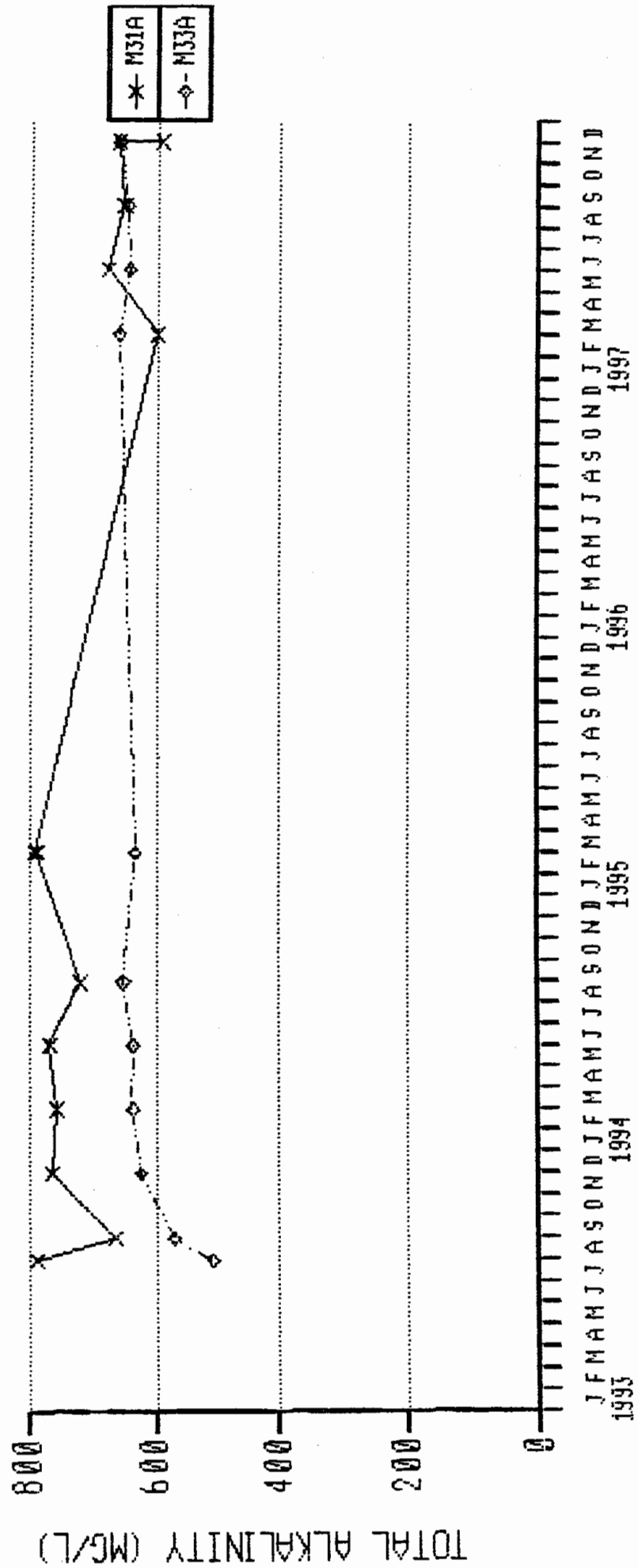


FIGURE 96
 PUENTE HILLS LANDFILL
 FLUORIDE
 BARRIER THREE MONITORING WELLS

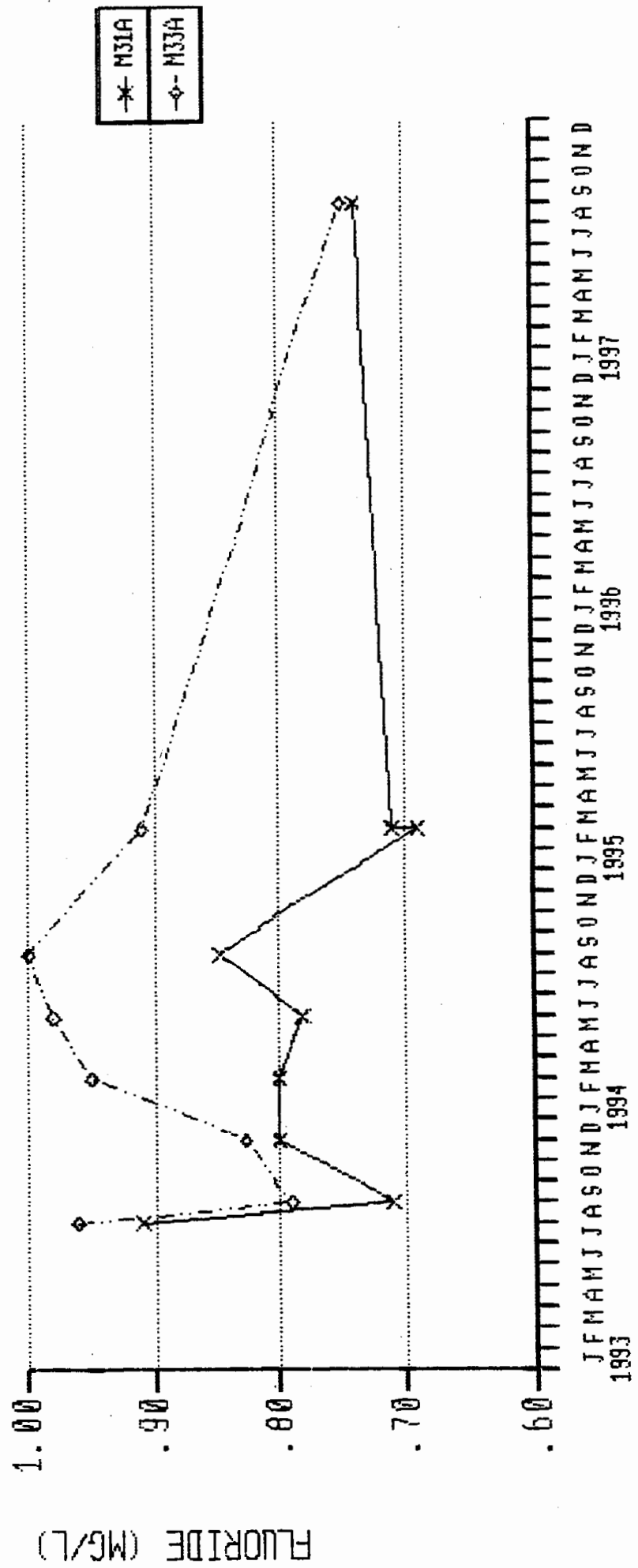


FIGURE 97
PUENTE HILLS LANDFILL
BICARBONATE ALKALINITY
BARRIER THREE MONITORING WELLS

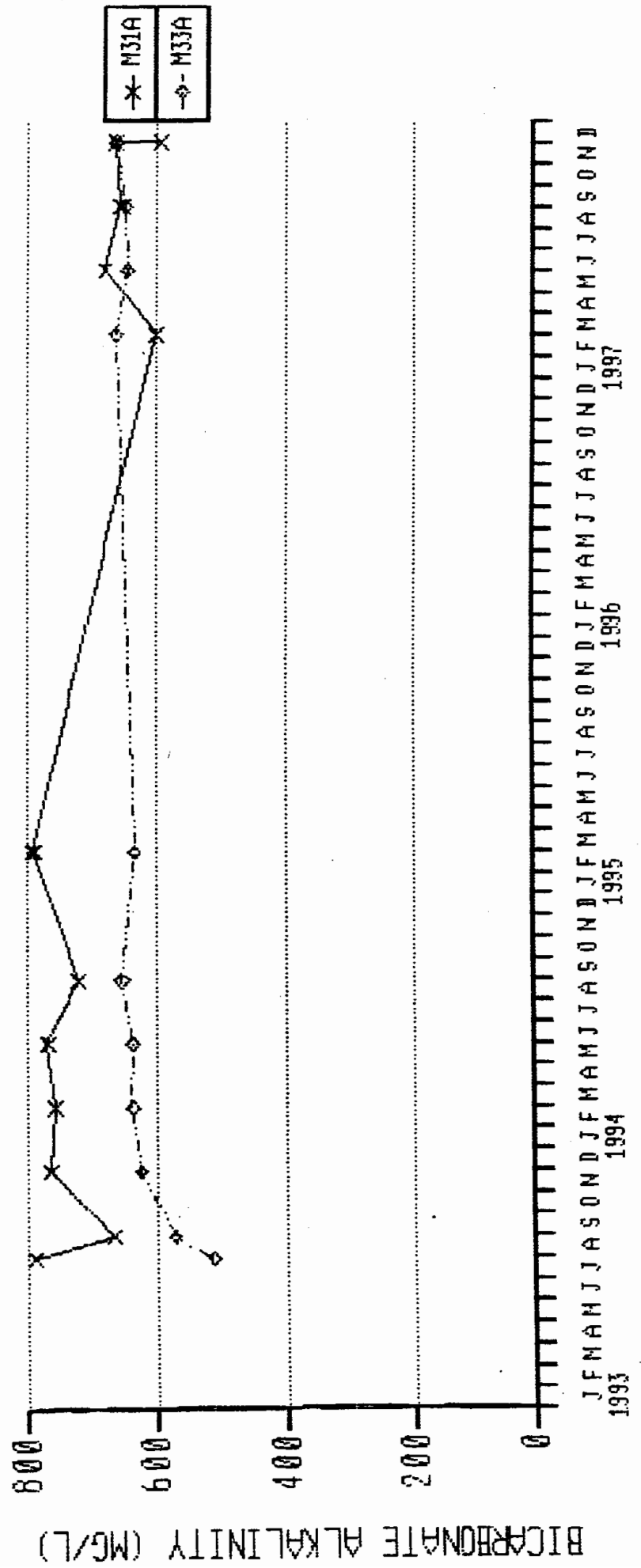


FIGURE 98
PUENTE HILLS LANDFILL
CALCIUM-HARDNESS
BARRIER THREE MONITORING WELLS

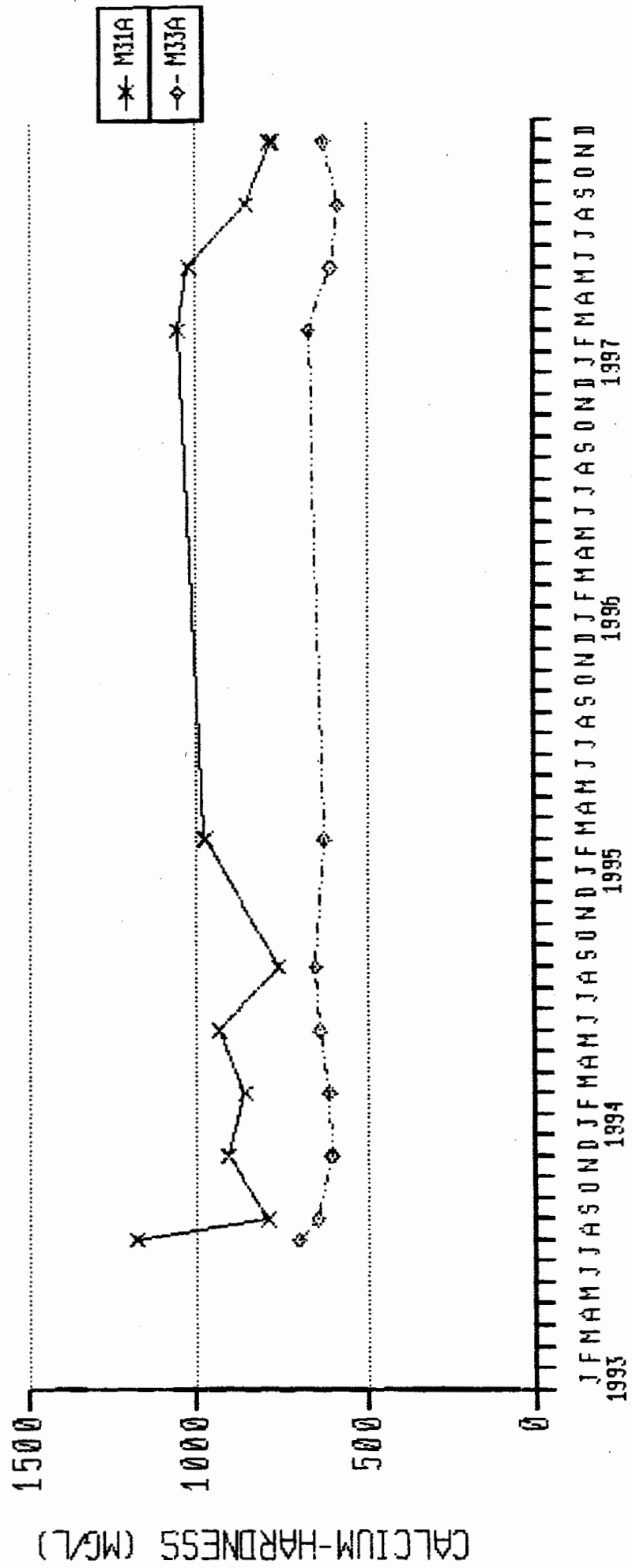


FIGURE 99
PUENTE HILLS LANDFILL
MAGNESIUM-HARDNESS
BARRIER THREE MONITORING WELLS

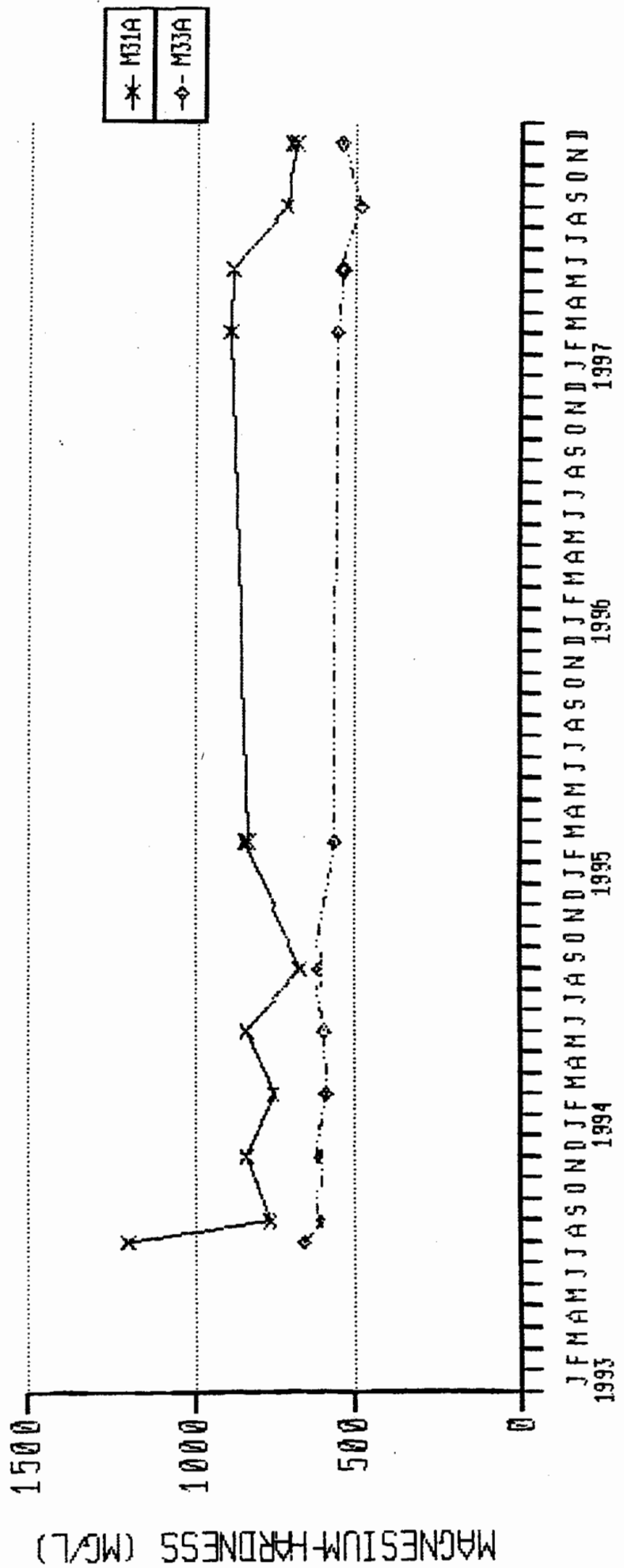
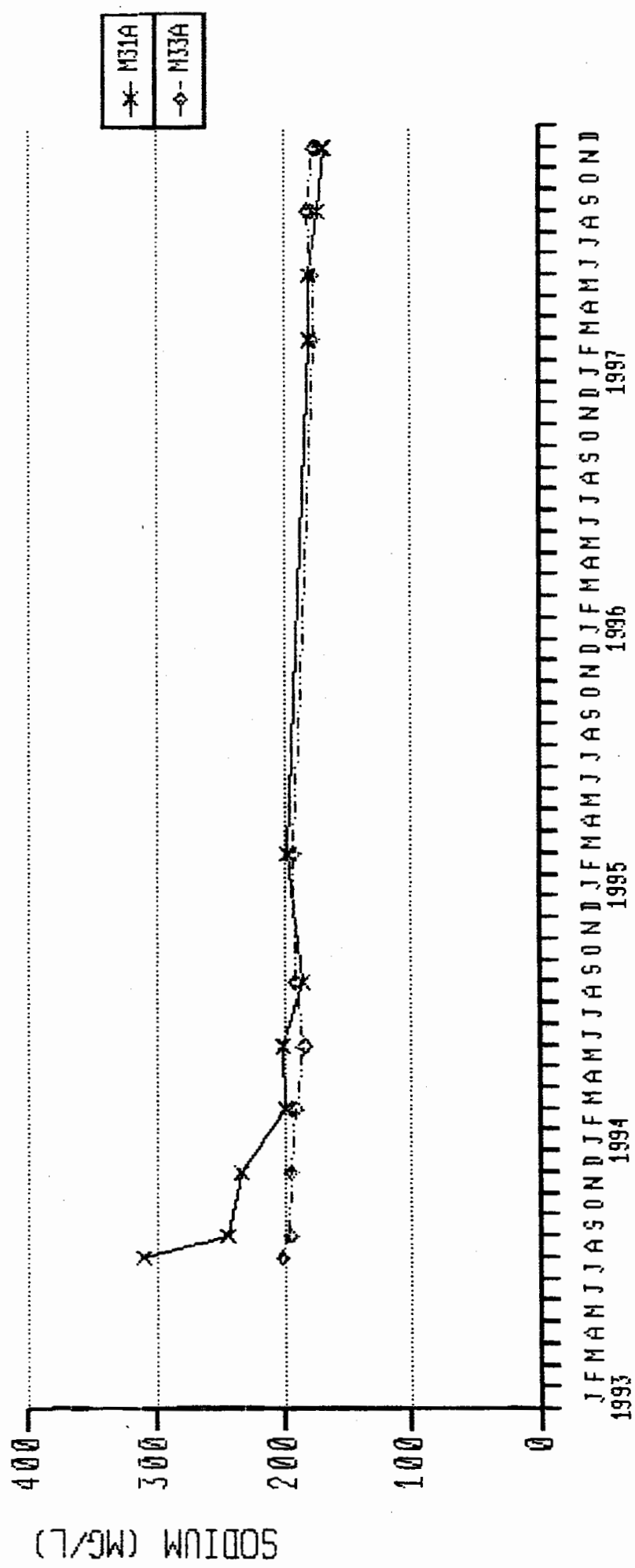


FIGURE 100
 PUENTE HILLS LANDFILL
 SODIUM
 BARRIER THREE MONITORING WELLS



*- M31A
◇- M33A

FIGURE 101
PUENTE HILLS LANDFILL
POTASSIUM
BARRIER THREE MONITORING WELLS

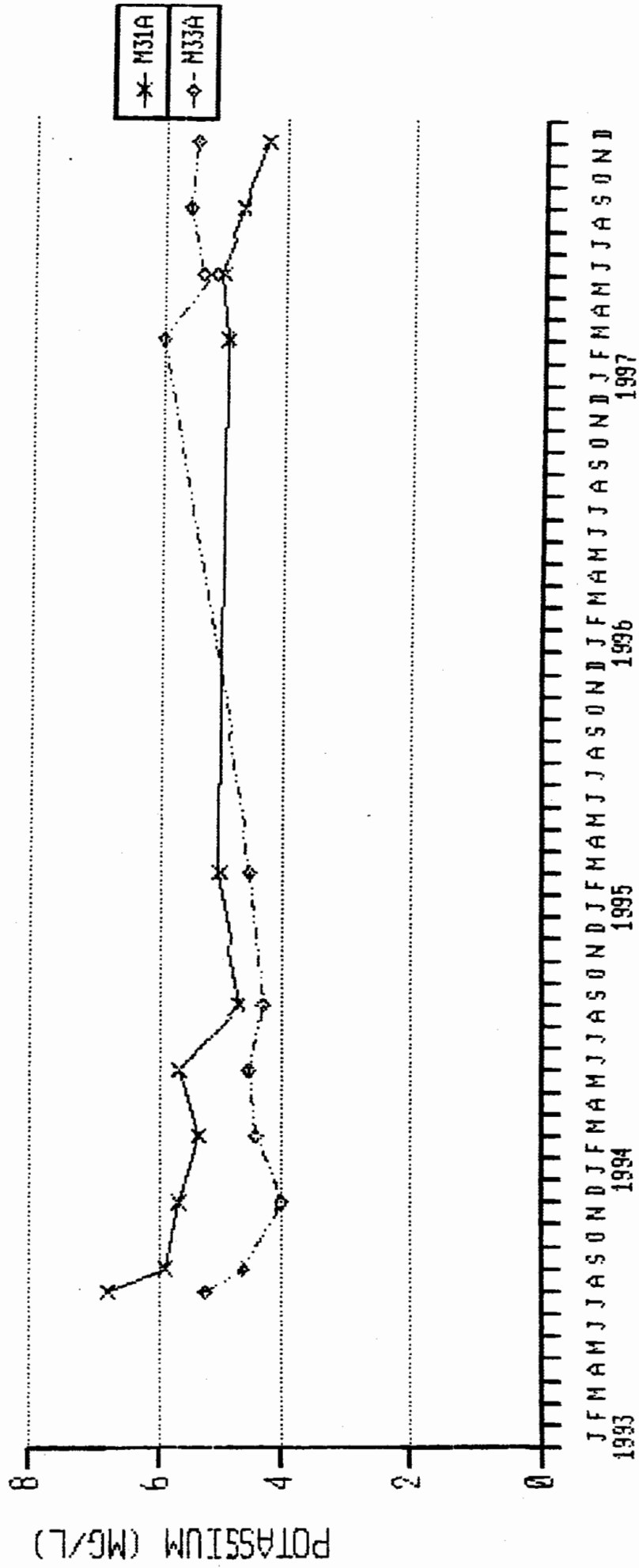


FIGURE 102
PUENTE HILLS LANDFILL
IRON
BARRIER THREE MONITORING WELLS

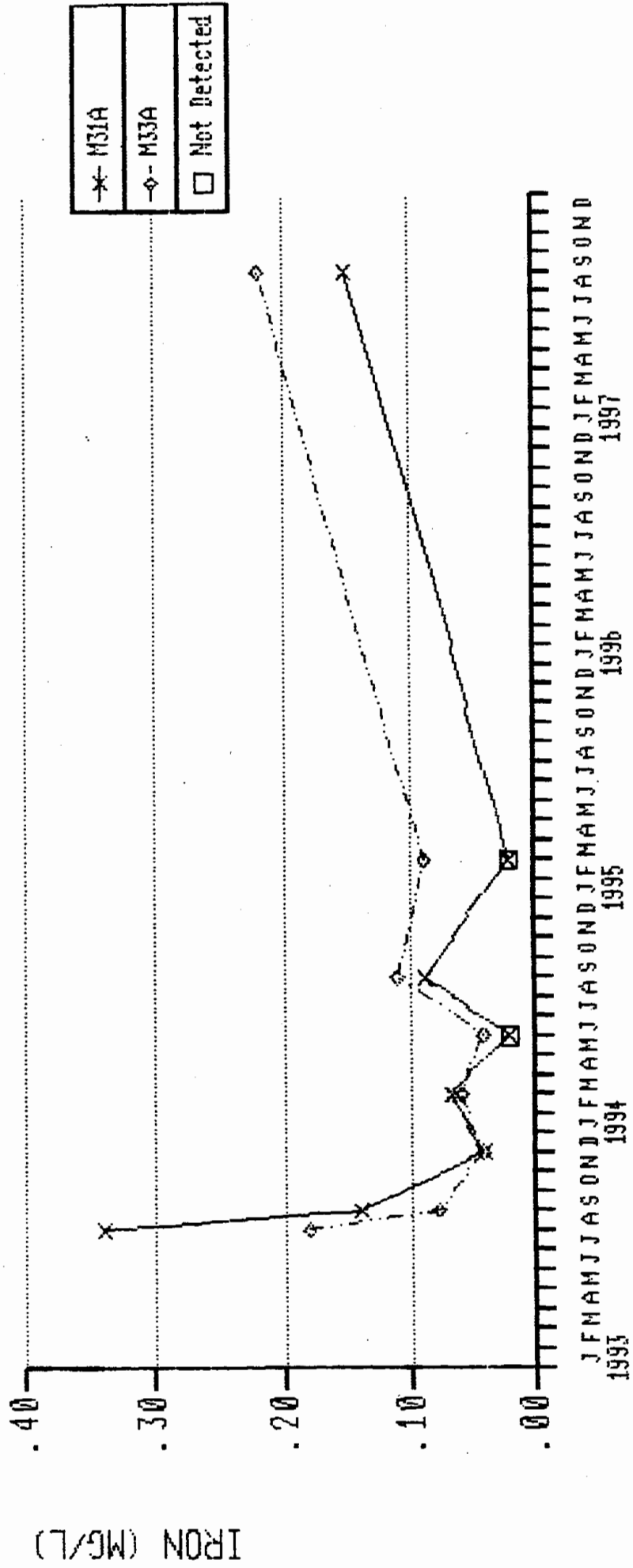


FIGURE 103
PUENTE HILLS LANDFILL
MANGANESE
BARRIER THREE MONITORING WELLS

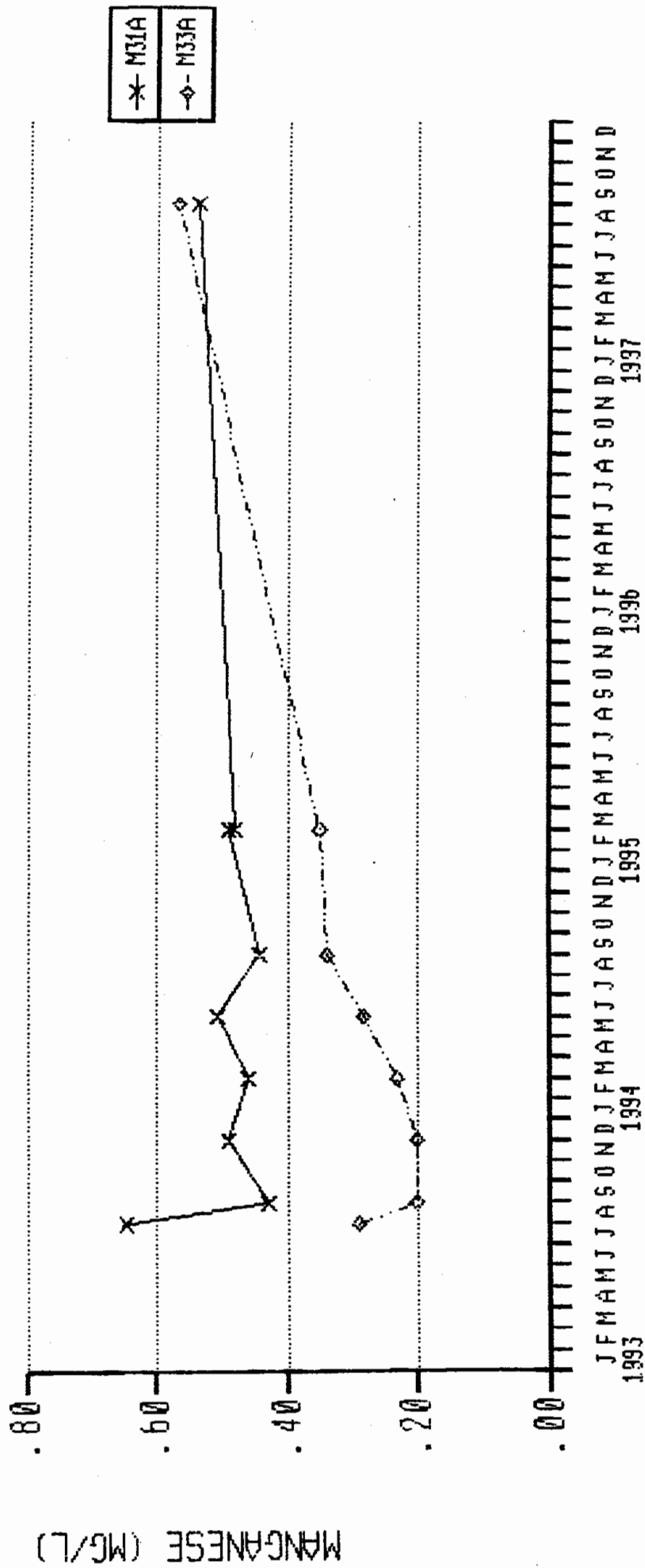


FIGURE 104
PUENTE HILLS LANDFILL
AMMONIA NITROGEN
BARRIER THREE MONITORING WELLS

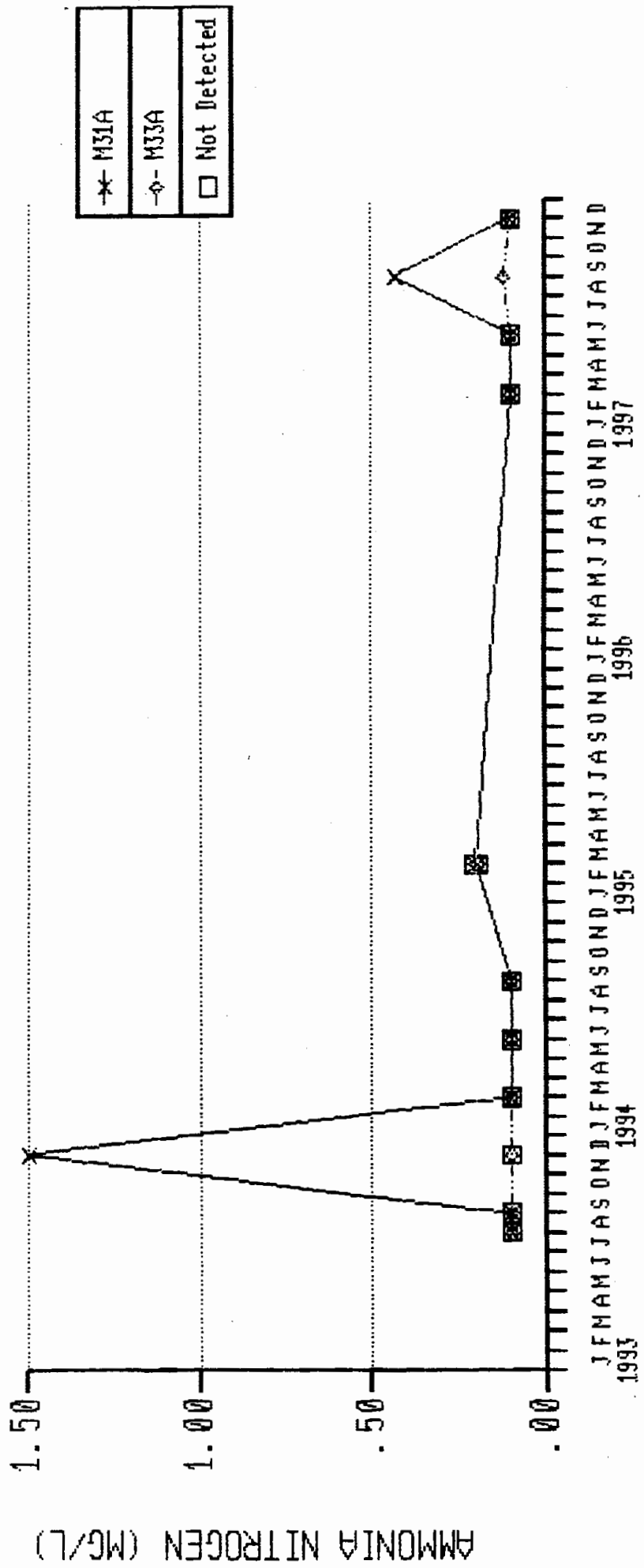


FIGURE 105
 PUENTE HILLS LANDFILL
 BARRIER THREE MONITORING WELLS
 TOTAL BOD

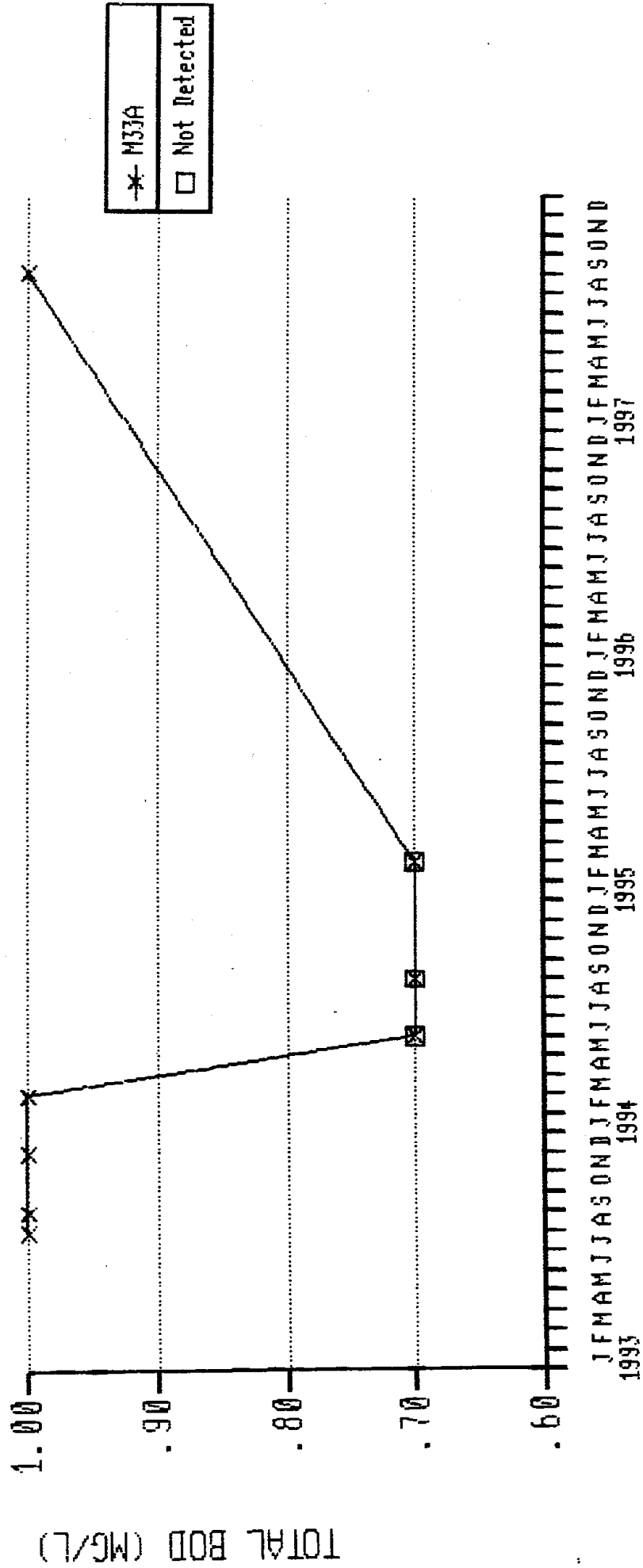


FIGURE 106
PUENTE HILLS LANDFILL
SOLUBLE BOD
BARRIER THREE MONITORING WELLS

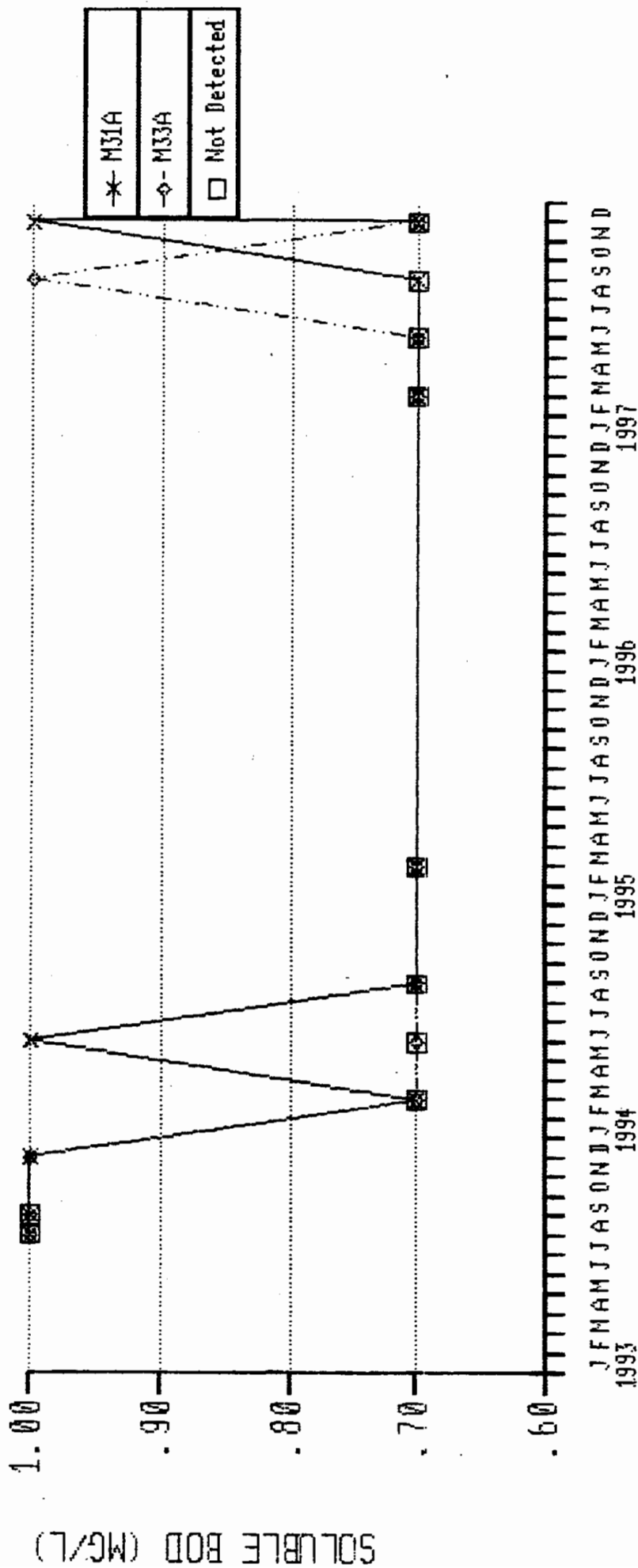


FIGURE 107
PUENTE HILLS LANDFILL
BARRIER THREE MONITORING WELLS
TOTAL COD

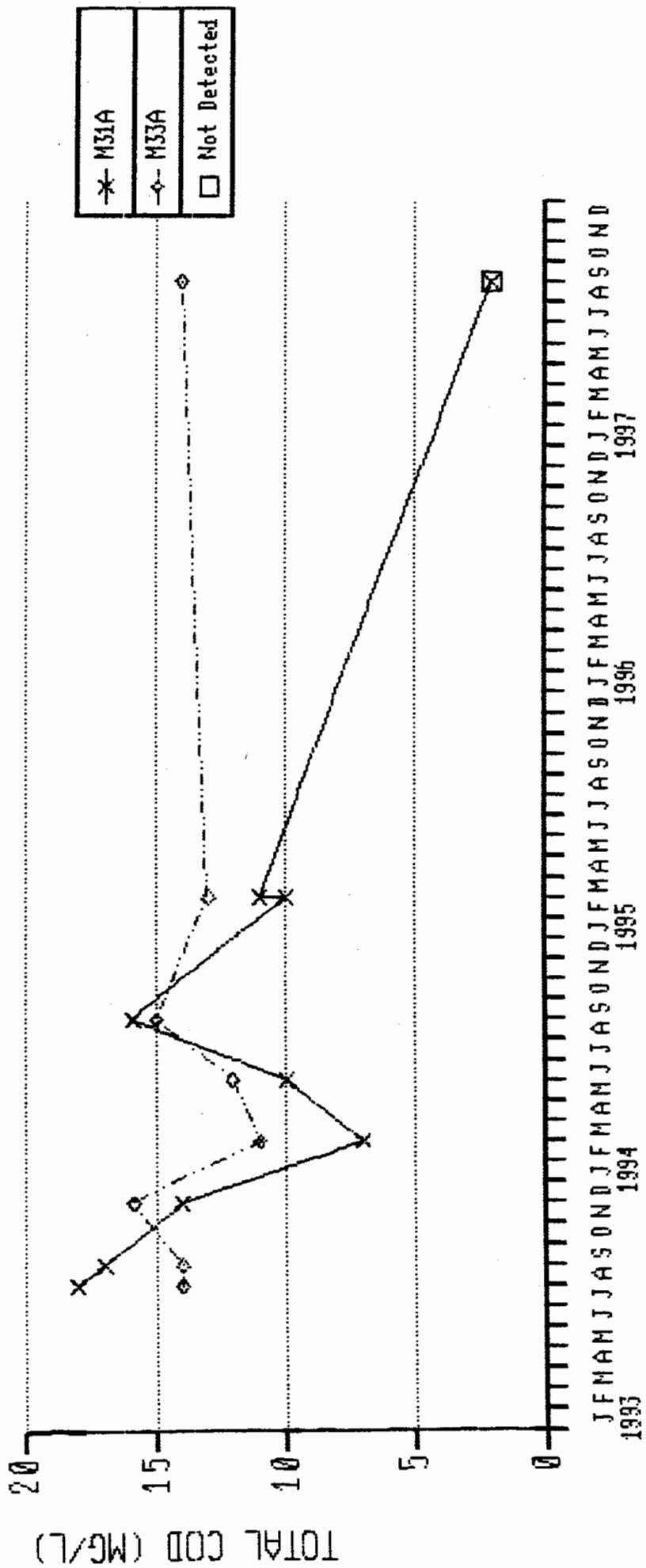


FIGURE 108
PUENTE HILLS LANDFILL
SOLUBLE COD
BARRIER THREE MONITORING WELLS

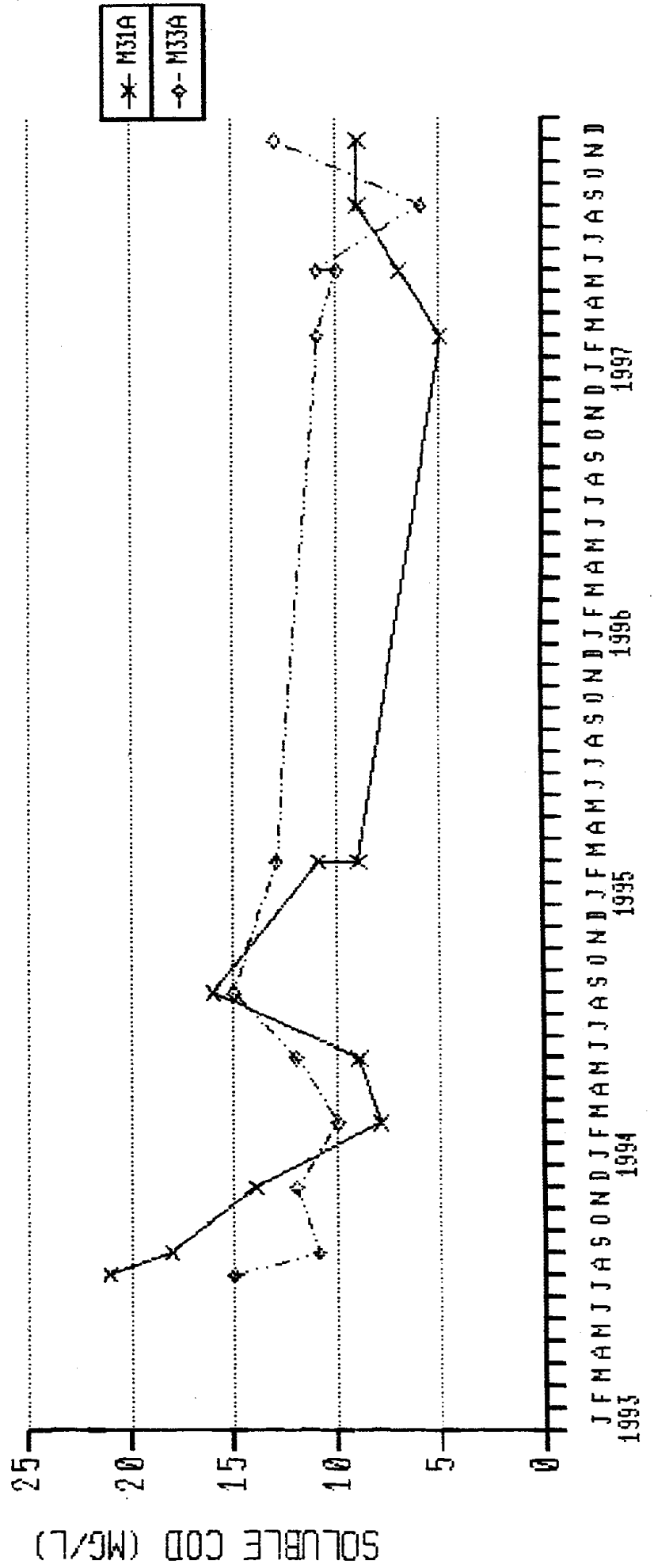


FIGURE 109
PUENTE HILLS LANDFILL
TOTAL ORGANIC CARBON
BARRIER THREE MONITORING WELLS

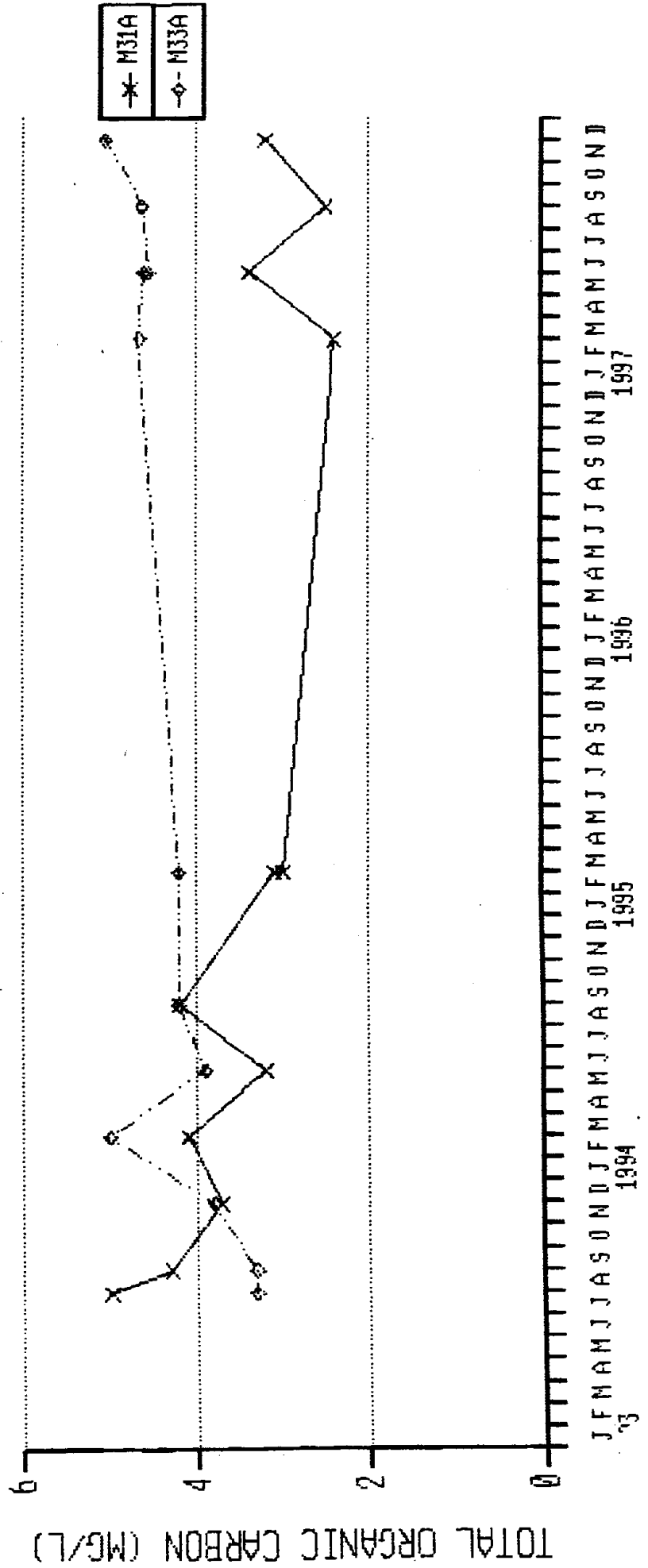


FIGURE 110
PUENTE HILLS LANDFILL
TOTAL ORGANIC HALOGEN
BARRIER THREE MONITORING WELLS

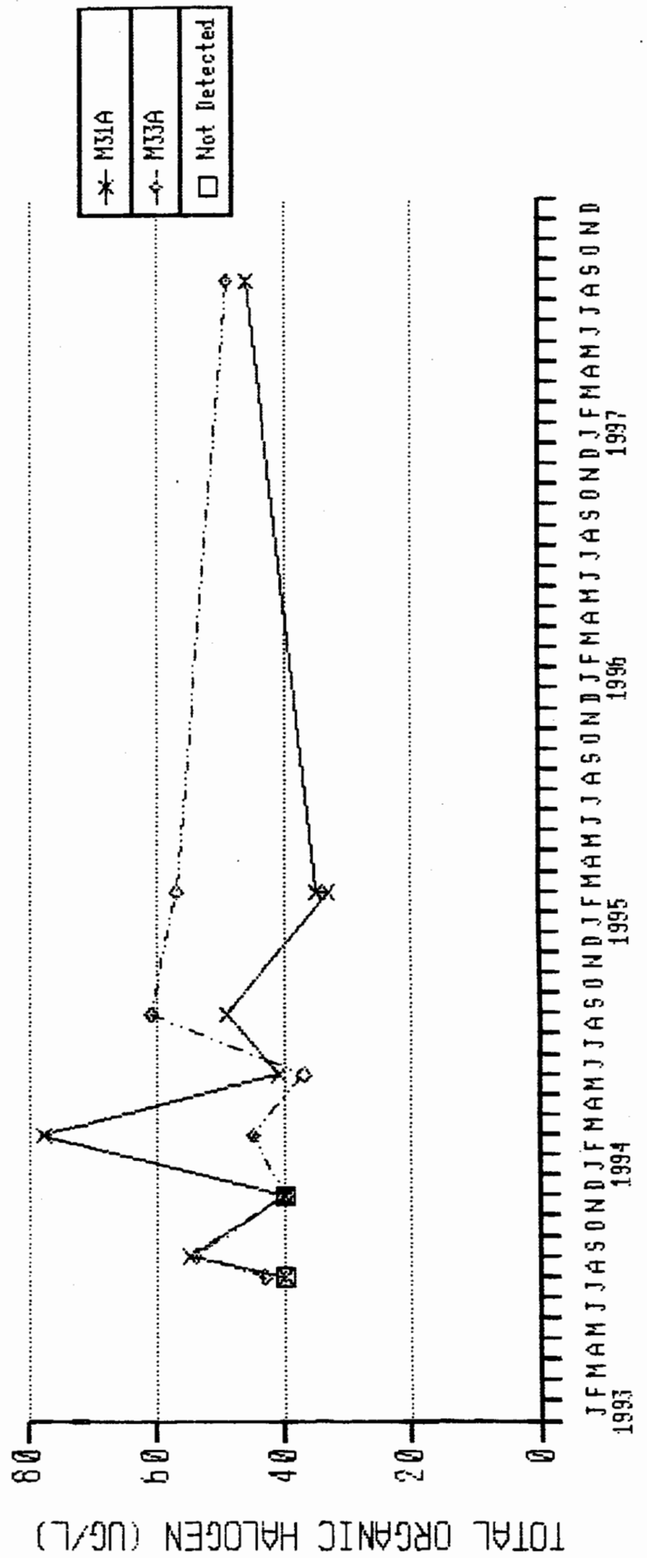


FIGURE 111
PUENTE HILLS LANDFILL
ARSENIC
BARRIER THREE MONITORING WELLS

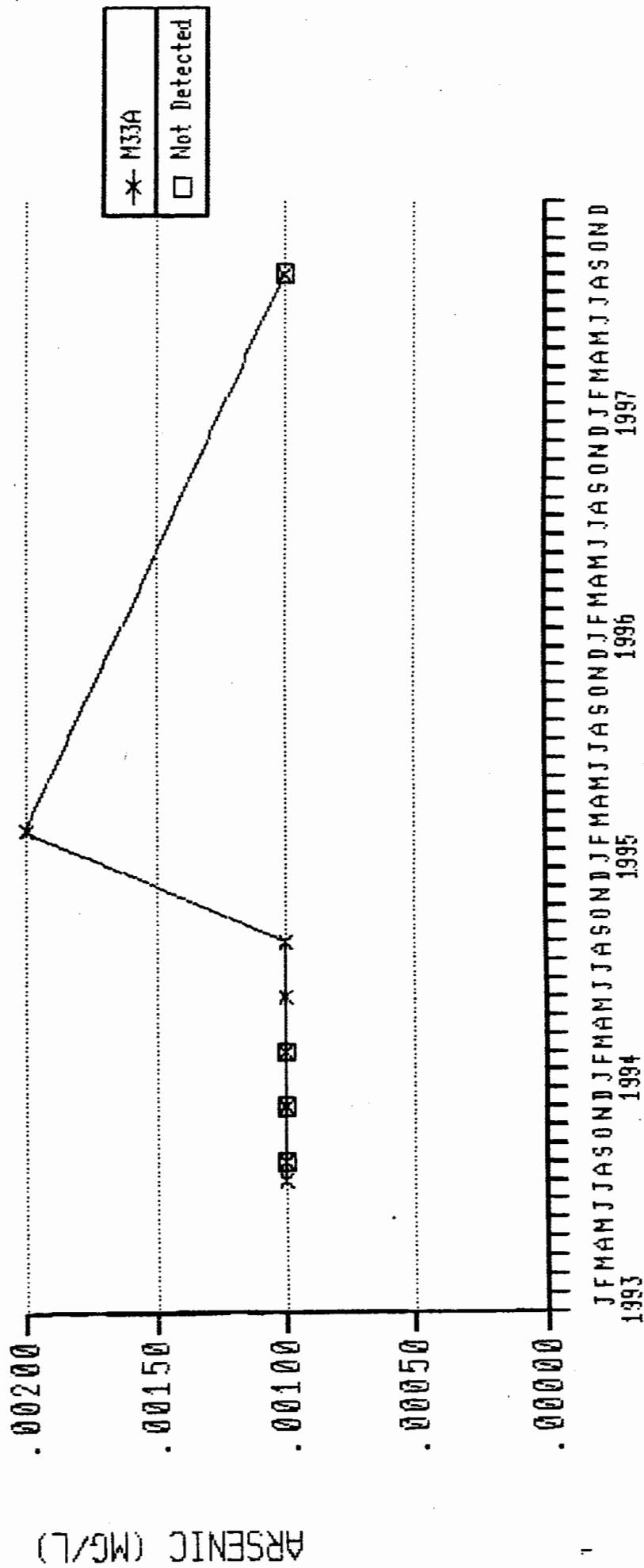


FIGURE 112
PUENTE HILLS LANDFILL
BARIUM
BARRIER THREE MONITORING WELLS

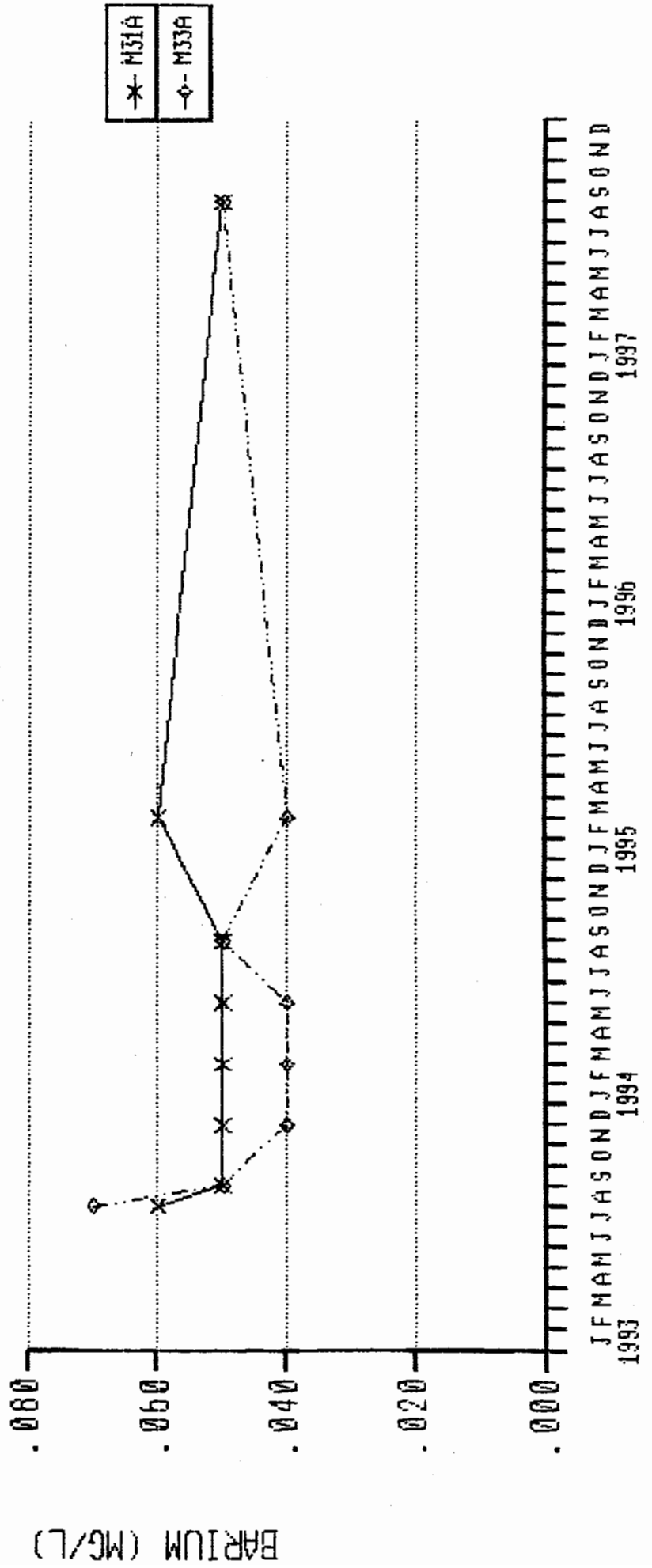


FIGURE 113
PUENTE HILLS LANDFILL
TOTAL CHROMIUM
BARRIER THREE MONITORING WELLS

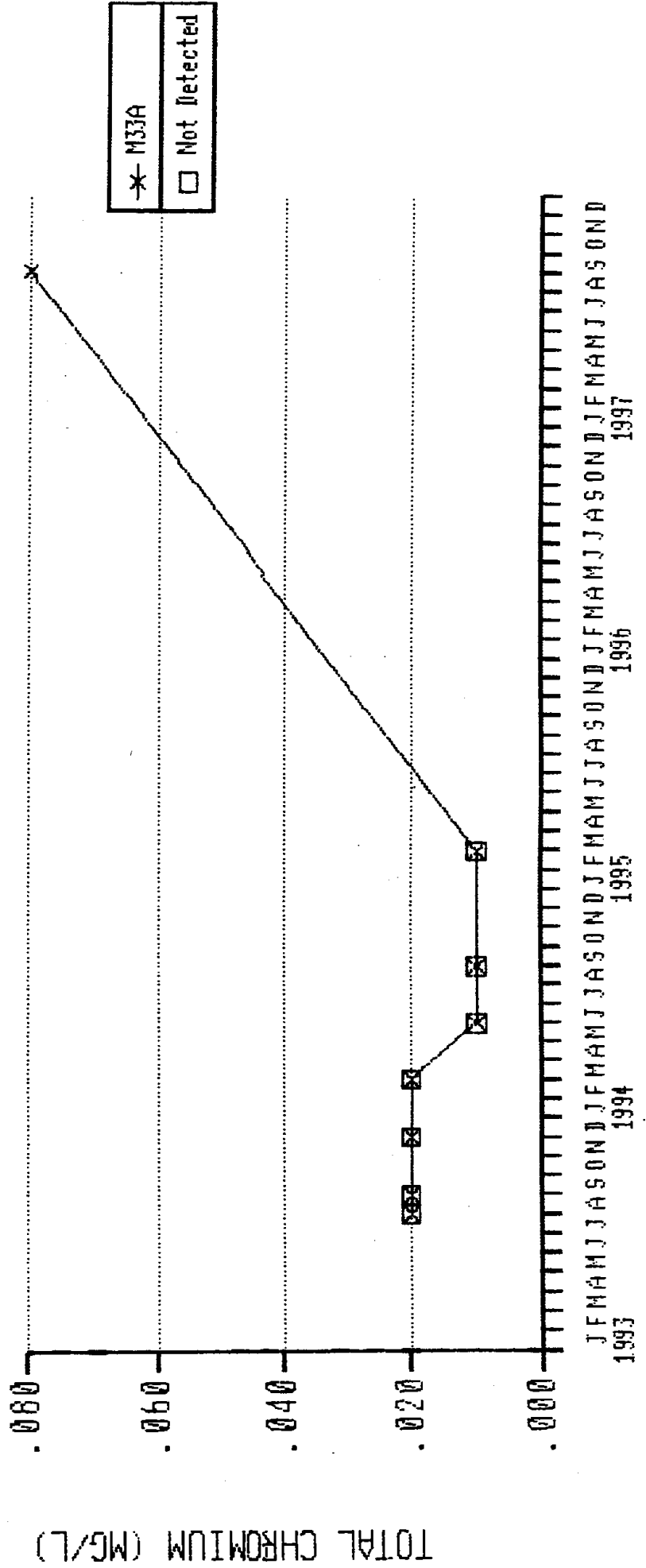


FIGURE 114
PUENTE HILLS LANDFILL
SELENIUM
BARRIER THREE MONITORING WELLS

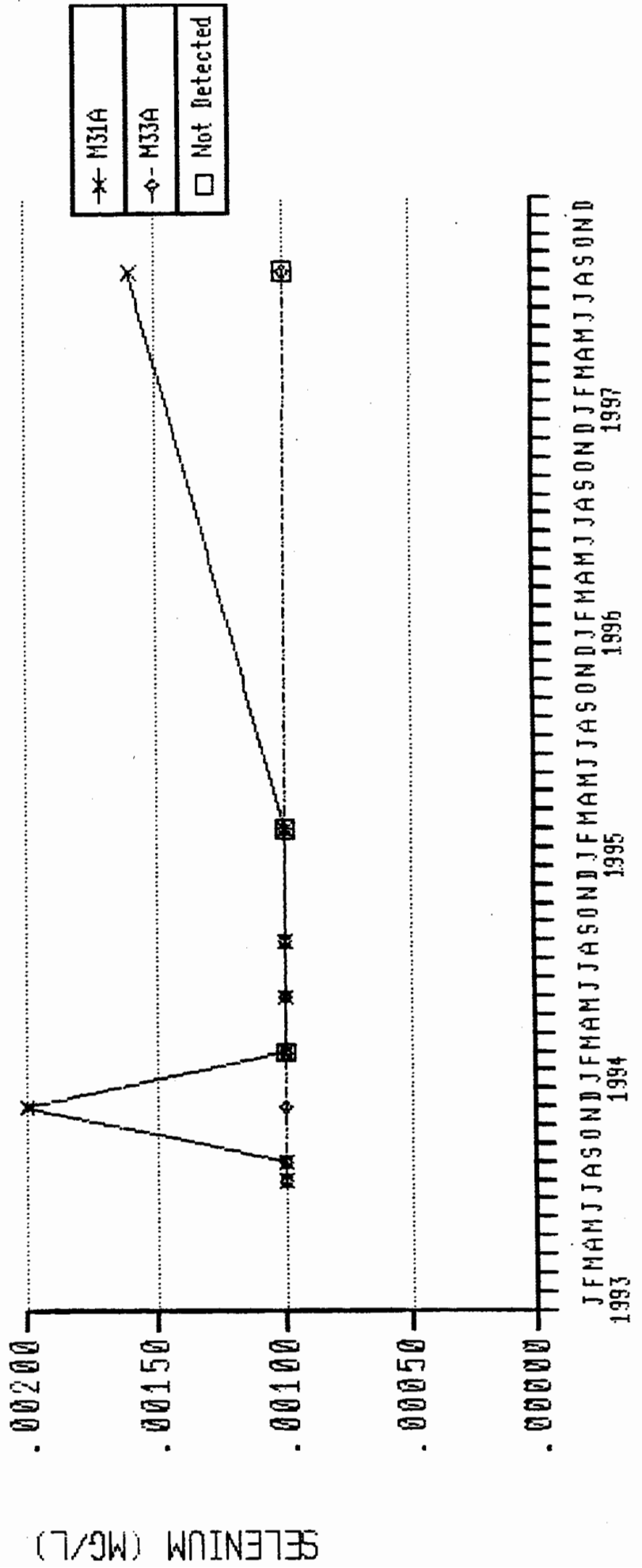


FIGURE 115
PUENTE HILLS LANDFILL
ZINC
BARRIER THREE MONITORING WELLS

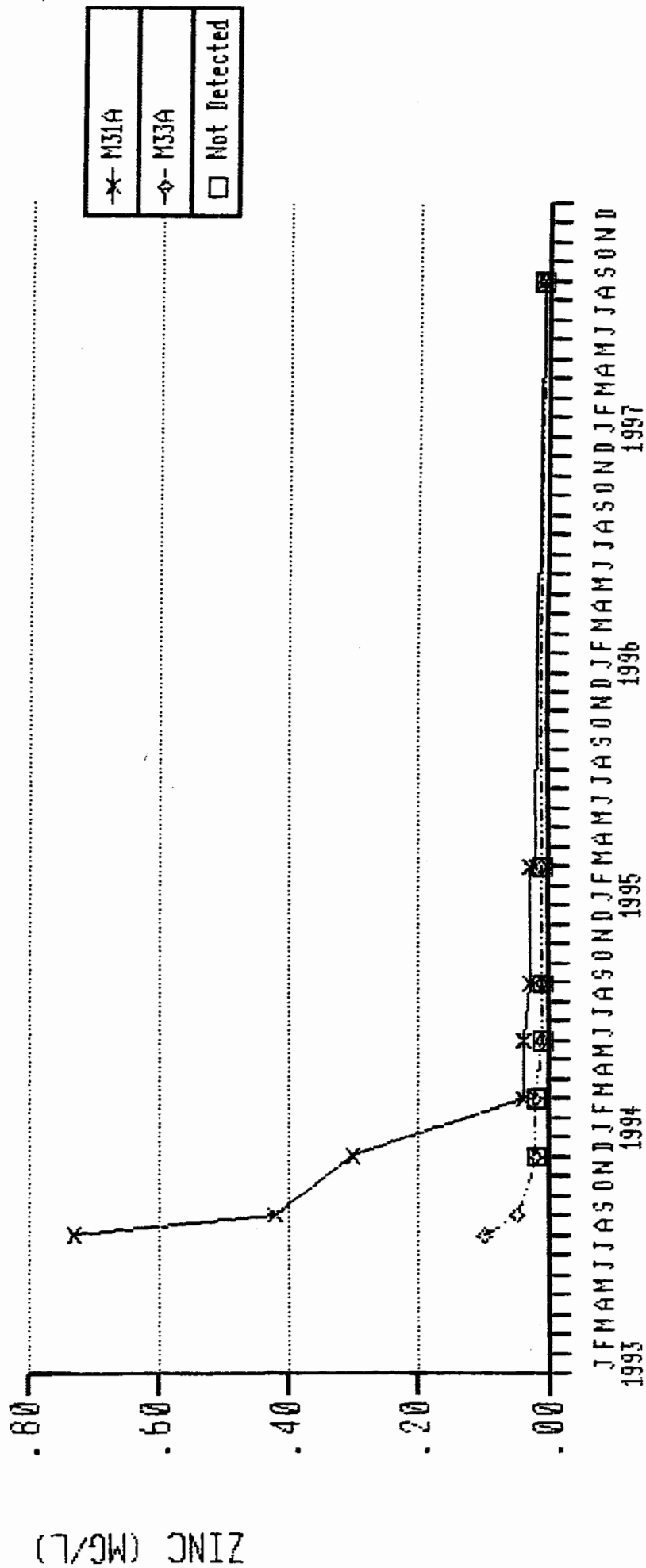


FIGURE 116
PUENTE HILLS LANDFILL
METHYLENE CHLORIDE
BARRIER THREE MONITORING WELLS

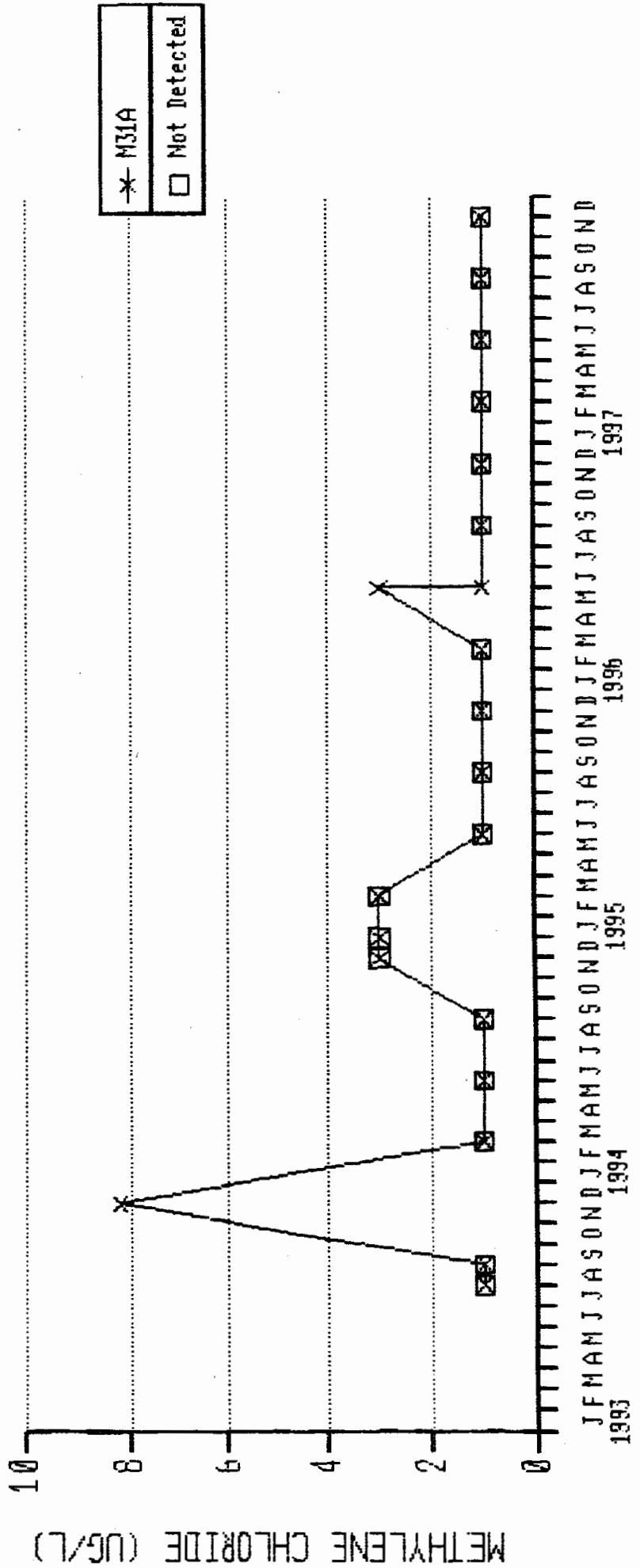


FIGURE 117
PUENTE HILLS LANDFILL
TRICHLOROETHYLENE
BARRIER THREE MONITORING WELLS

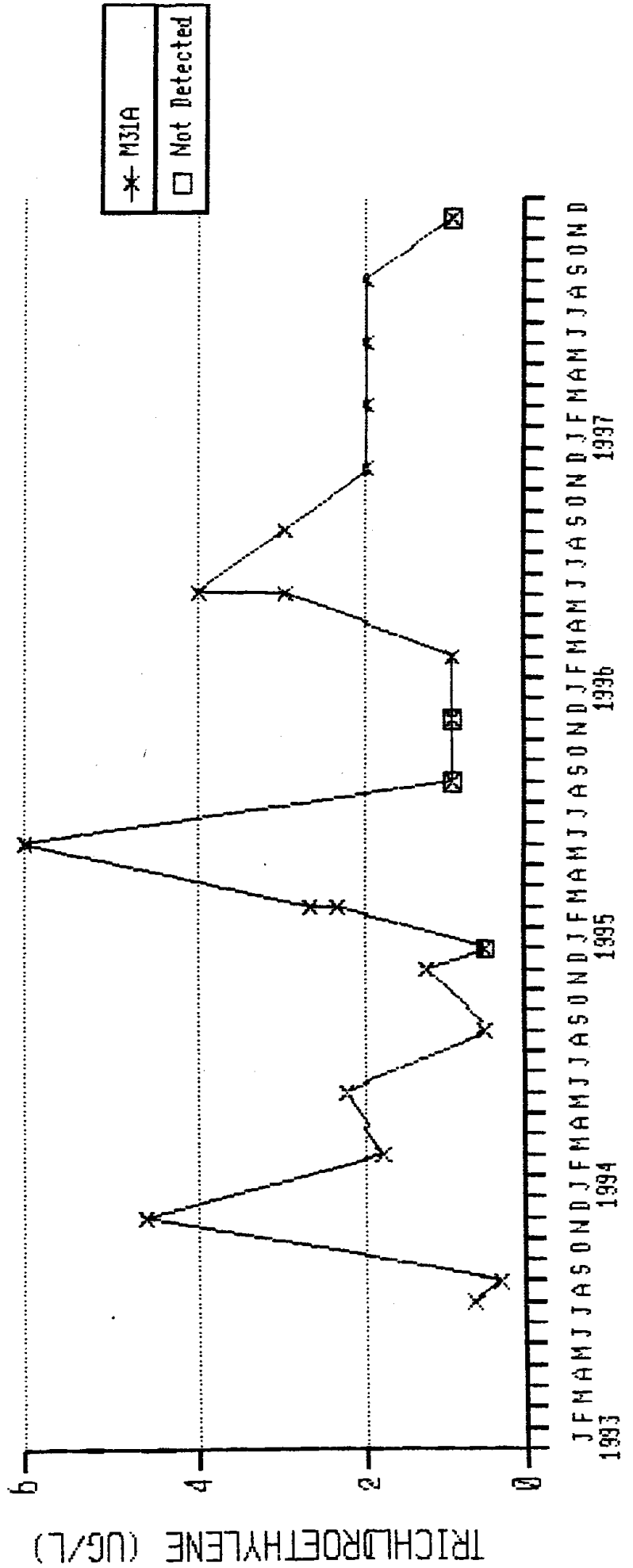
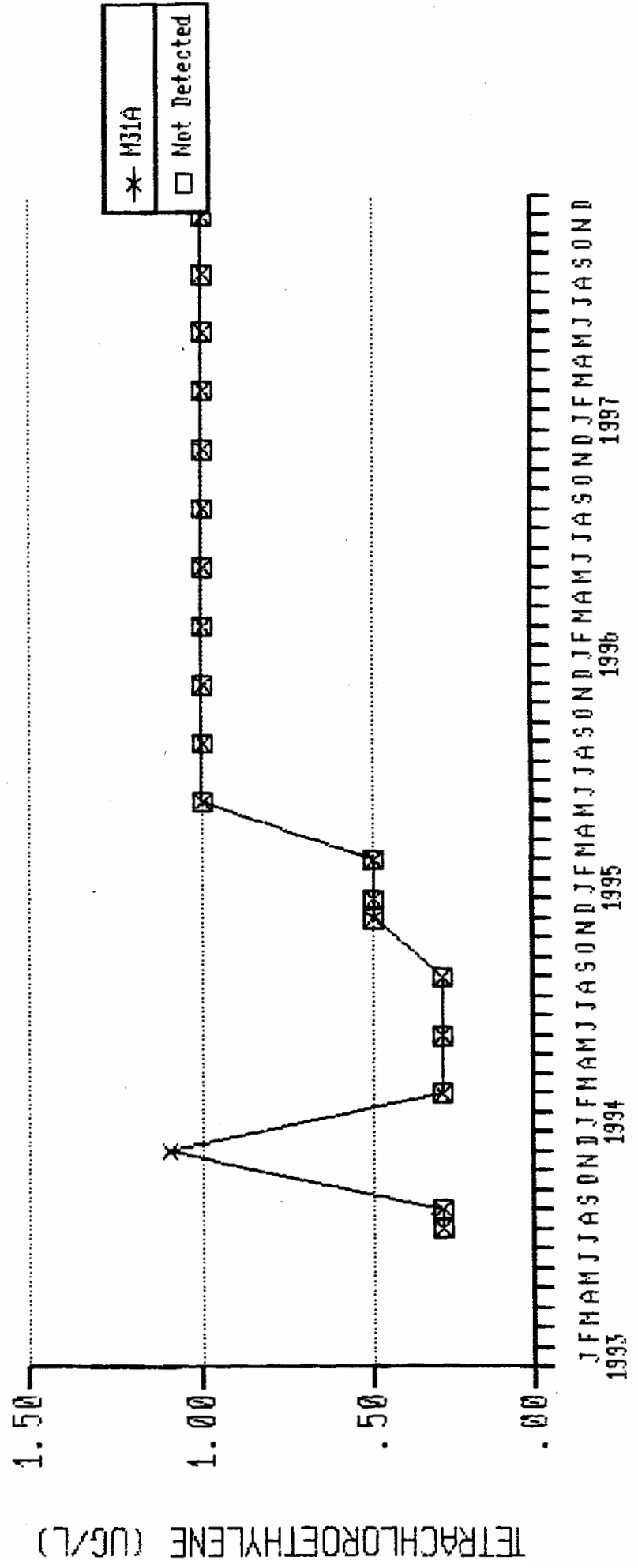


FIGURE 118
PUENTE HILLS LANDFILL
TETRACHLOROETHYLENE
BARRIER THREE MONITORING WELLS



JFHAMJJASONJ
1993

JFHAMJJASONJ
1994

JFHAMJJASONJ
1995

JFHAMJJASONJ
1996

JFHAMJJASONJ
1997

FIGURE 119
PUENTE HILLS LANDFILL
CHLOROBENZENE
BARRIER THREE MONITORING WELLS

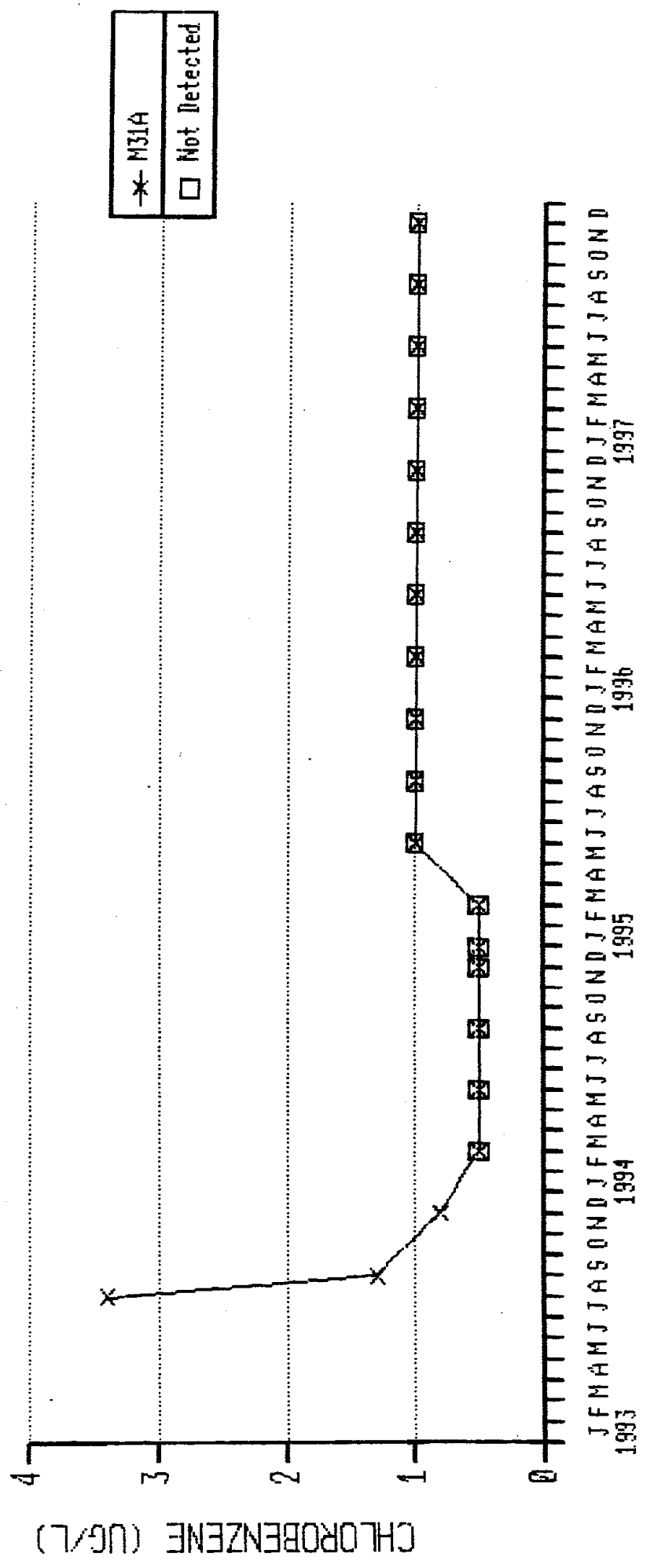


FIGURE 120
PUENTE HILLS LANDFILL
VINYL CHLORIDE
BARRIER THREE MONITORING WELLS

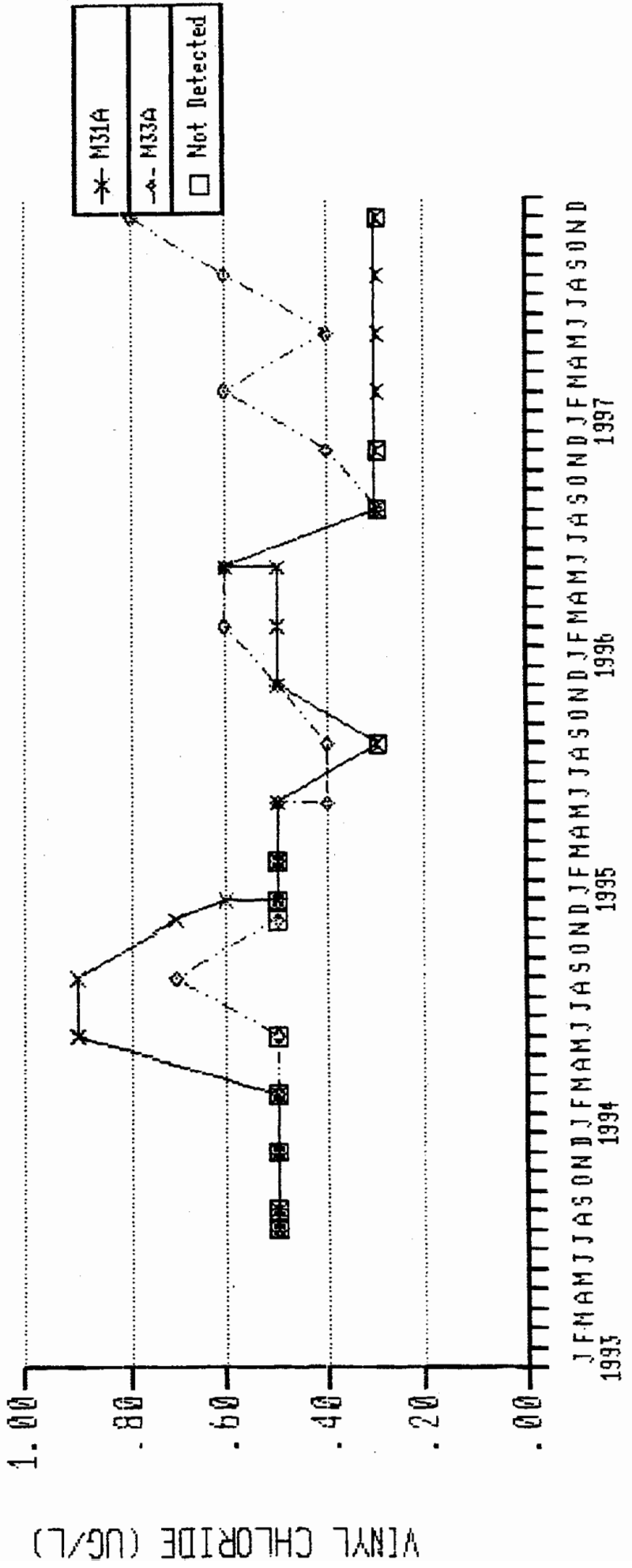
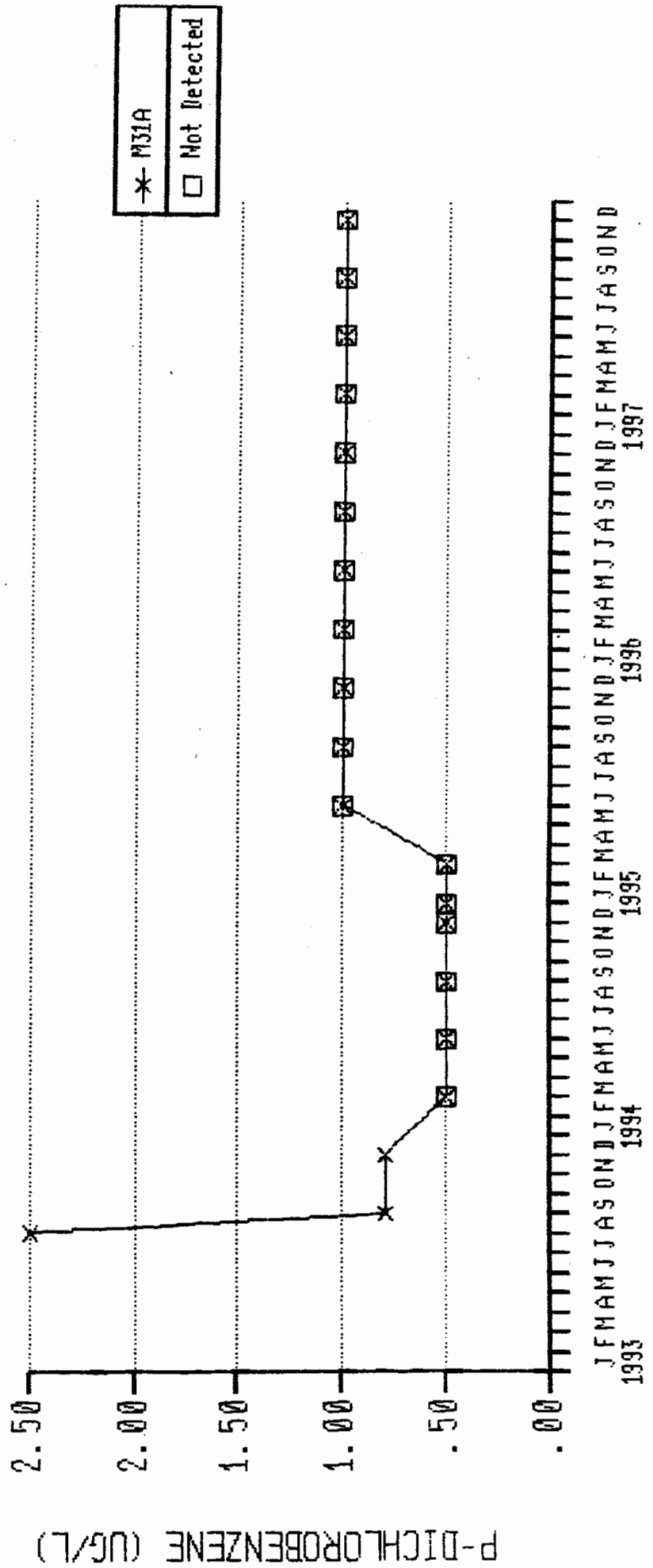


FIGURE 121
PUENTE HILLS LANDFILL
P-DICHLOROBENZENE
BARRIER THREE MONITORING WELLS



J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
 1993 1994 1995 1996 1997

FIGURE 122
PUENTE HILLS LANDFILL
1,1-DICHLOROETHANE
BARRIER THREE MONITORING WELLS

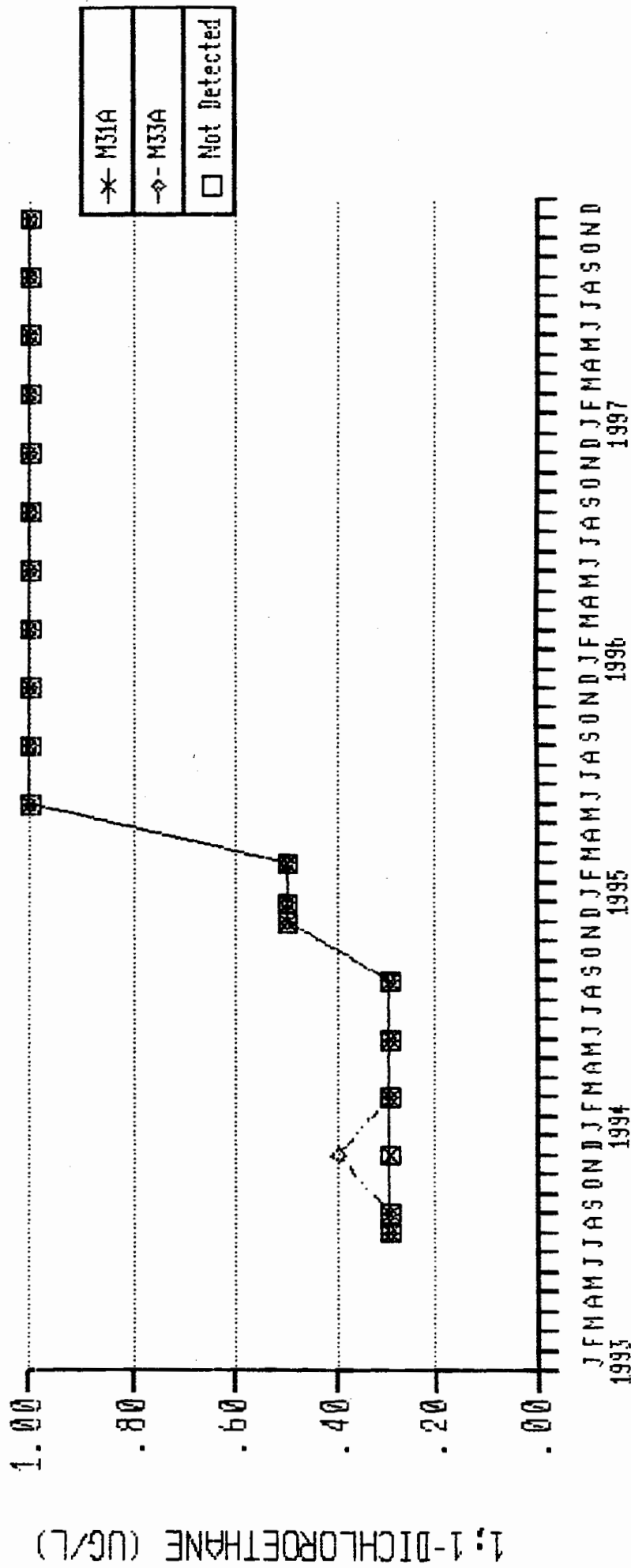


FIGURE 123
PUENTE HILLS LANDFILL
1,2-DICHLOROETHANE
BARRIER THREE MONITORING WELLS

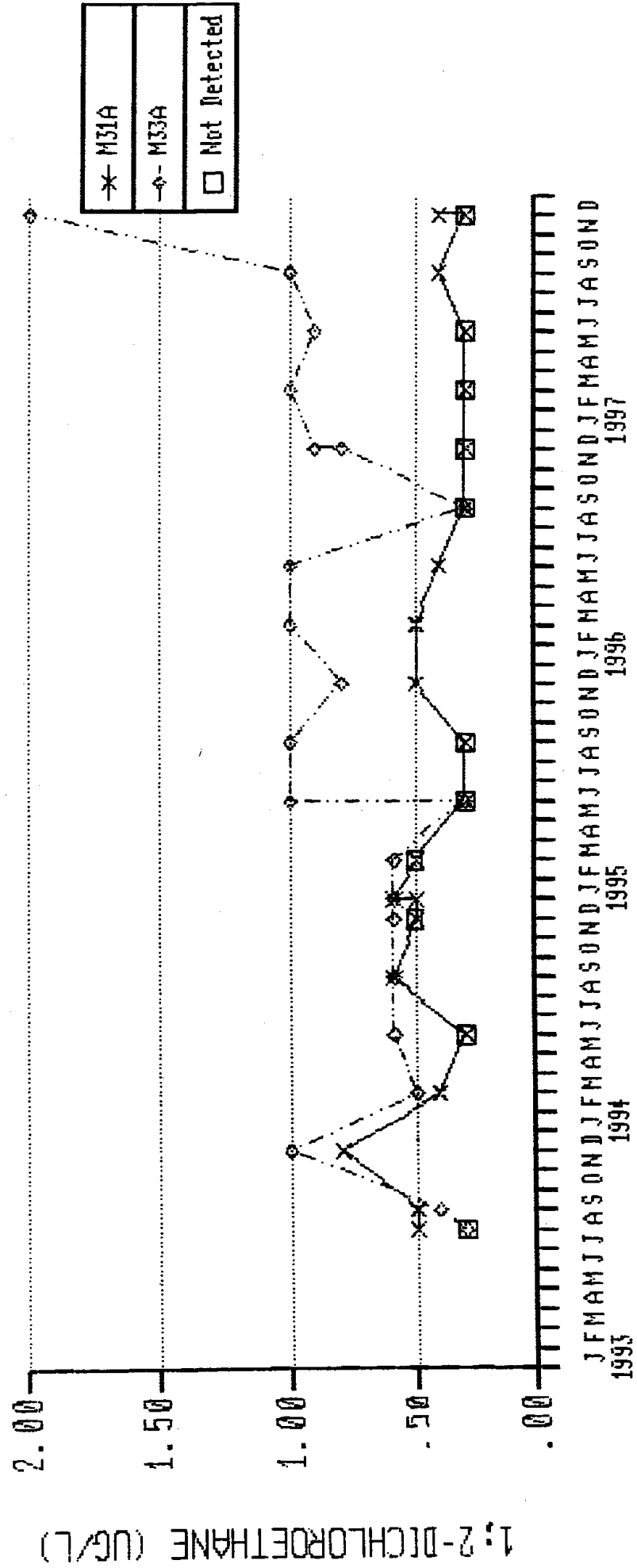


FIGURE 124
PUENTE HILLS LANDFILL
TOLUENE
BARRIER THREE MONITORING WELLS

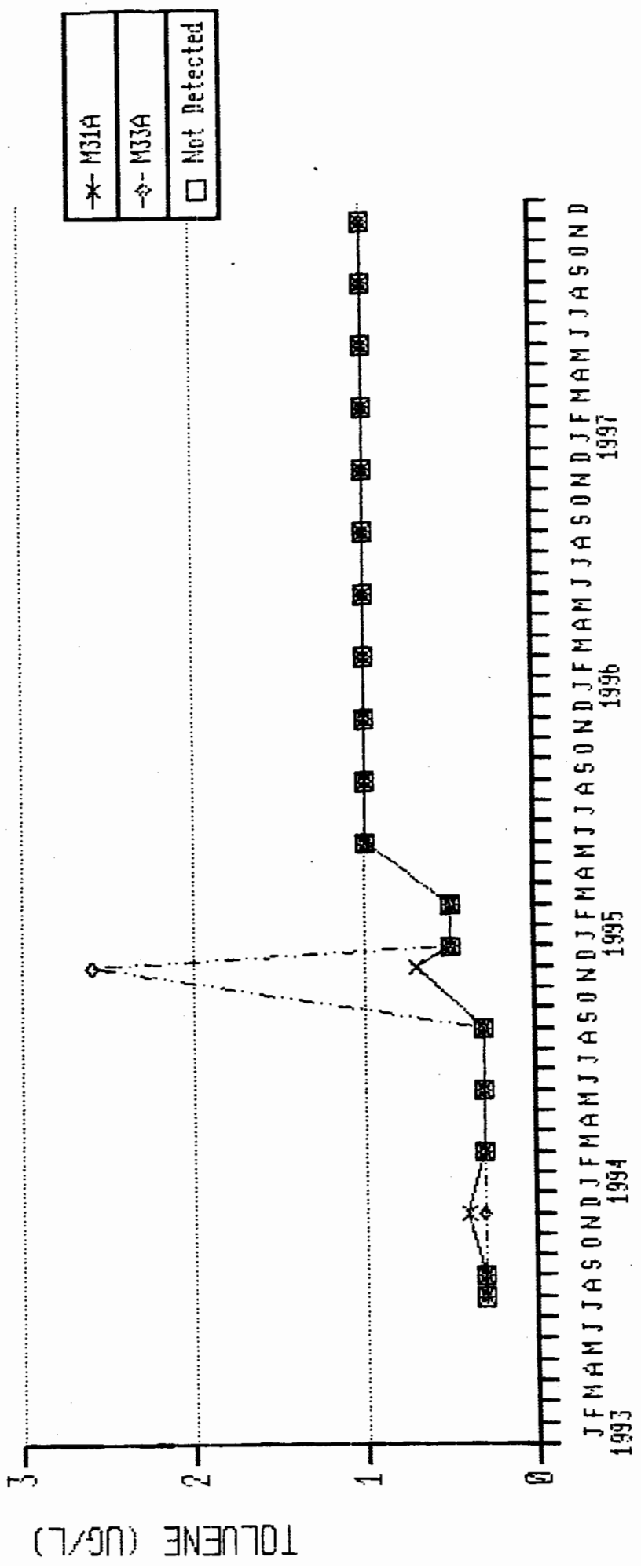


FIGURE 125
PUENTE HILLS LANDFILL
CIS-1,2-DICHLOROETHYLENE
BARRIER THREE MONITORING WELLS

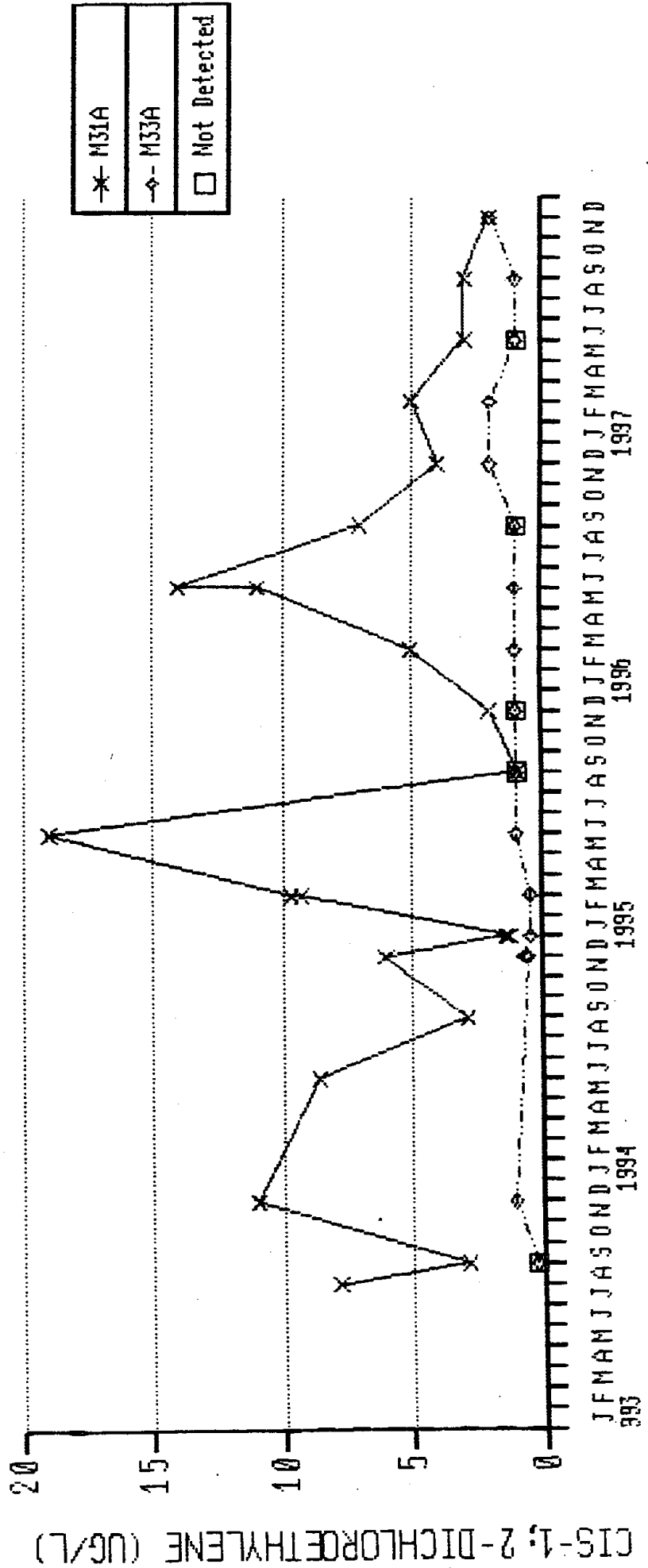


FIGURE 126
 PUENTE HILLS LANDFILL
 IRON
 BARRIER THREE MONITORING WELLS (FILTERED)

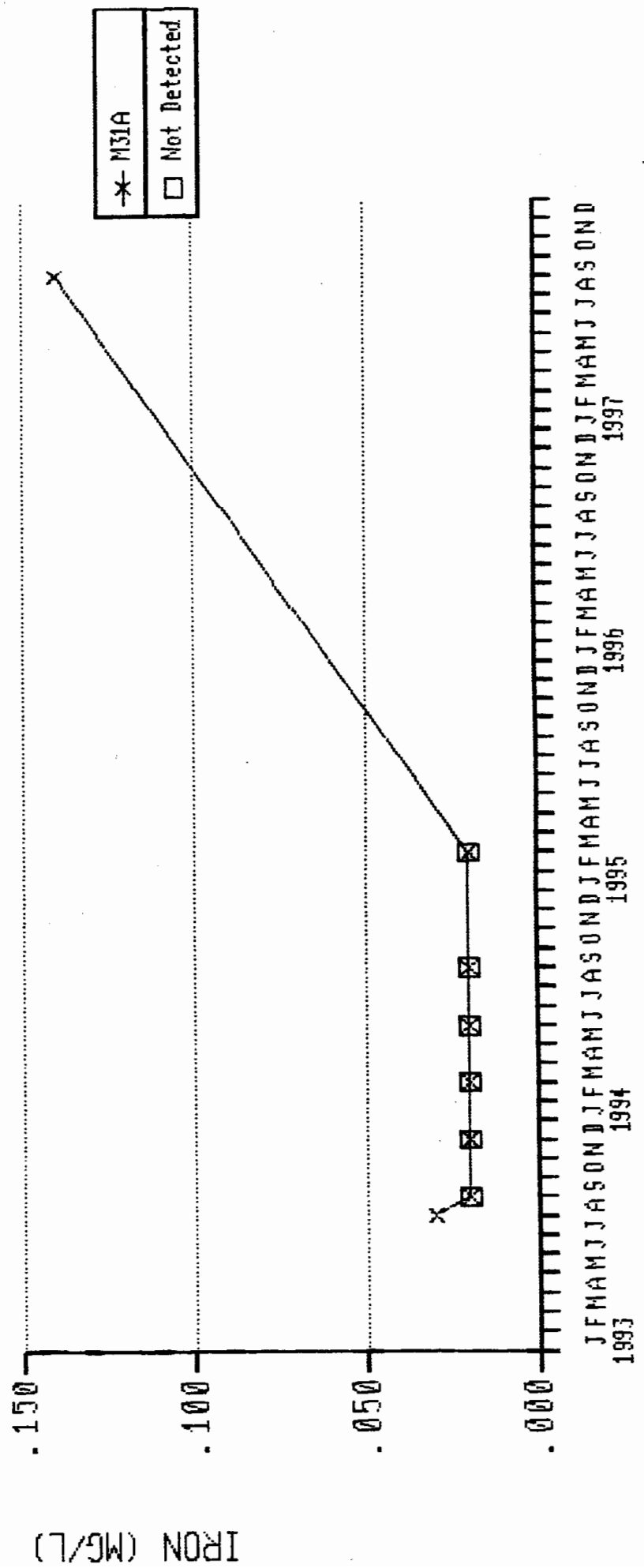


FIGURE 127
PUENTE HILLS LANDFILL
MANGANESE
BARRIER THREE MONITORING WELLS (FILTERED)

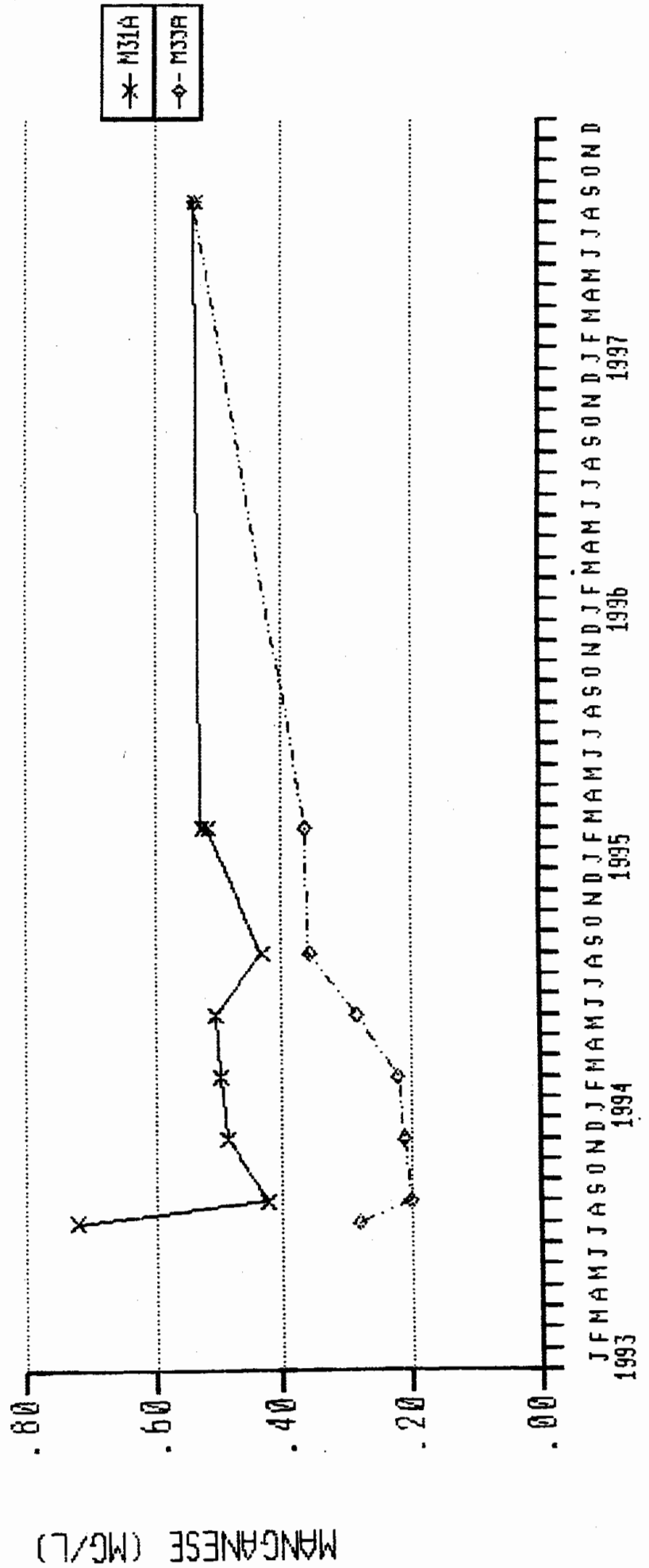


FIGURE 128
PUENTE HILLS LANDFILL
ARSENIC
BARRIER THREE MONITORING WELLS (FILTERED)

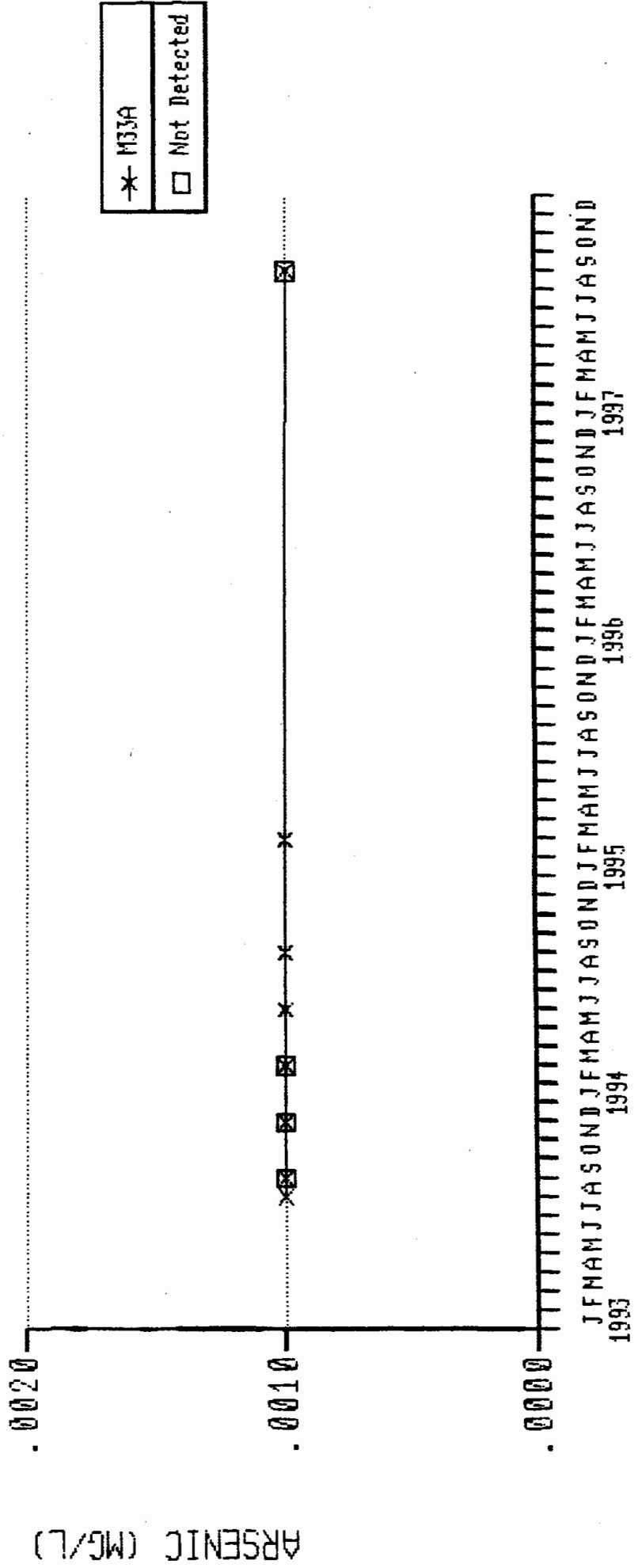


FIGURE 129
PUENTE HILLS LANDFILL
BARIUM
BARRIER THREE MONITORING WELLS (FILTERED)

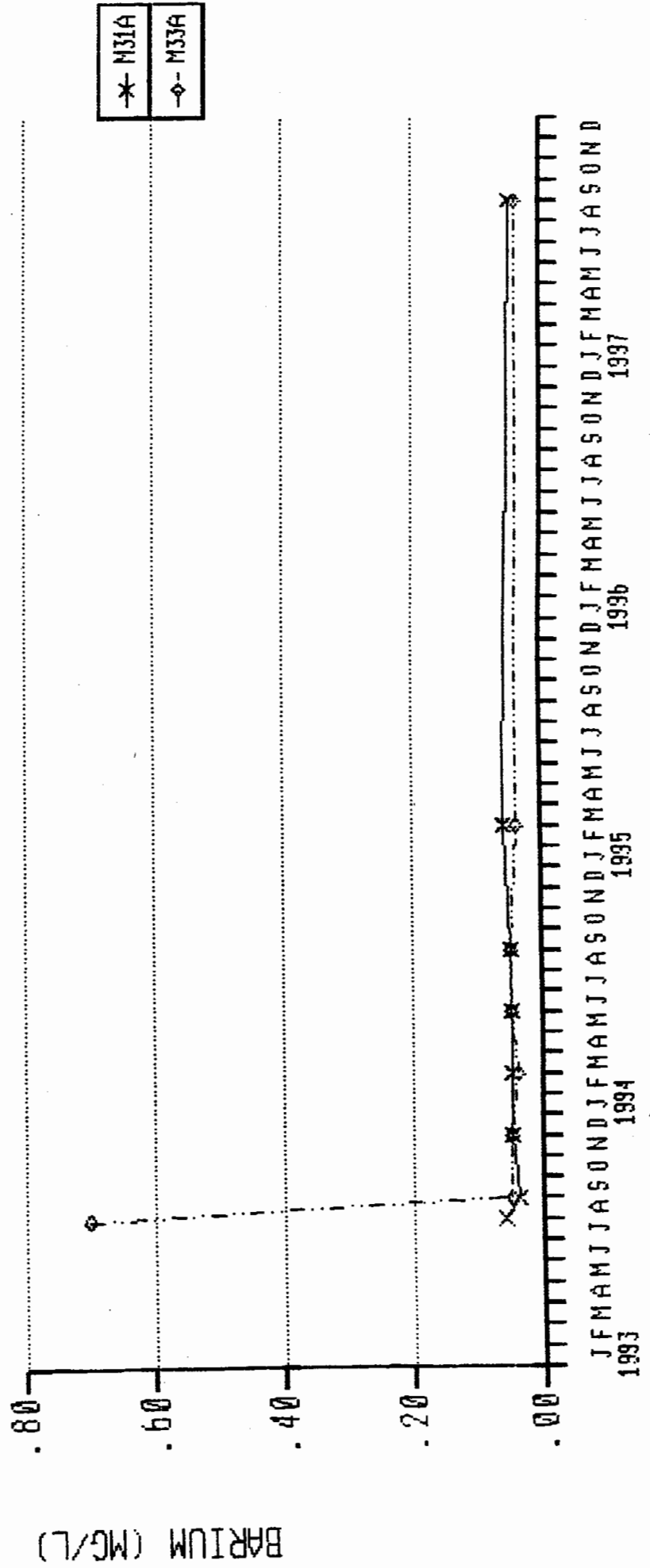
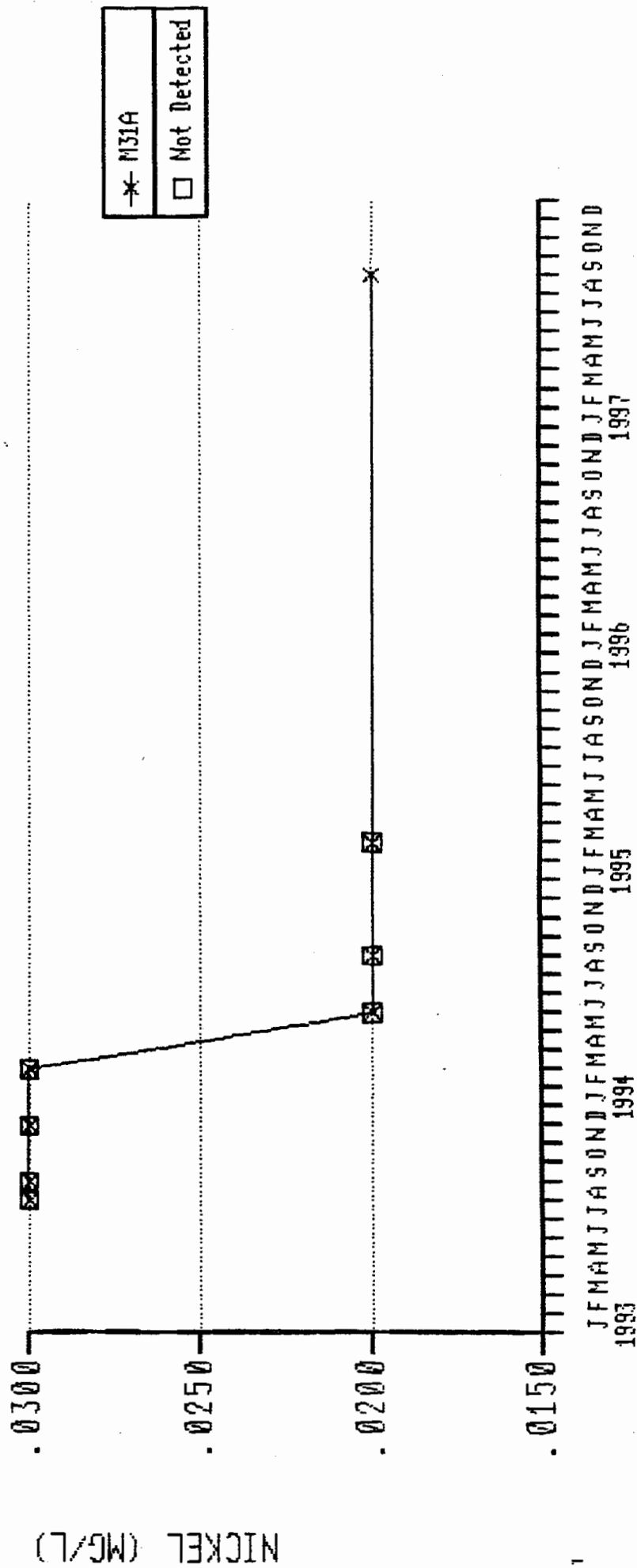
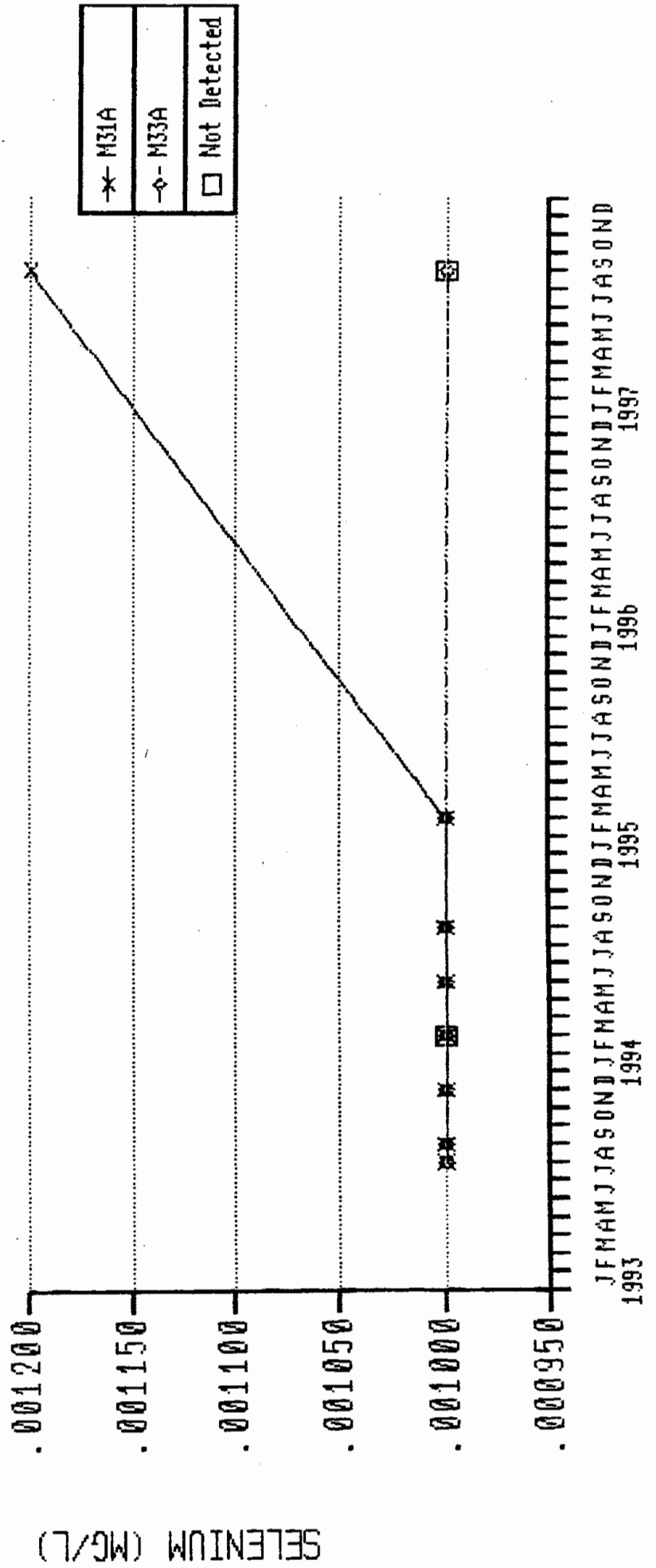


FIGURE 130
PUENTE HILLS LANDFILL
NICKEL
BARRIER THREE MONITORING WELLS (FILTERED)



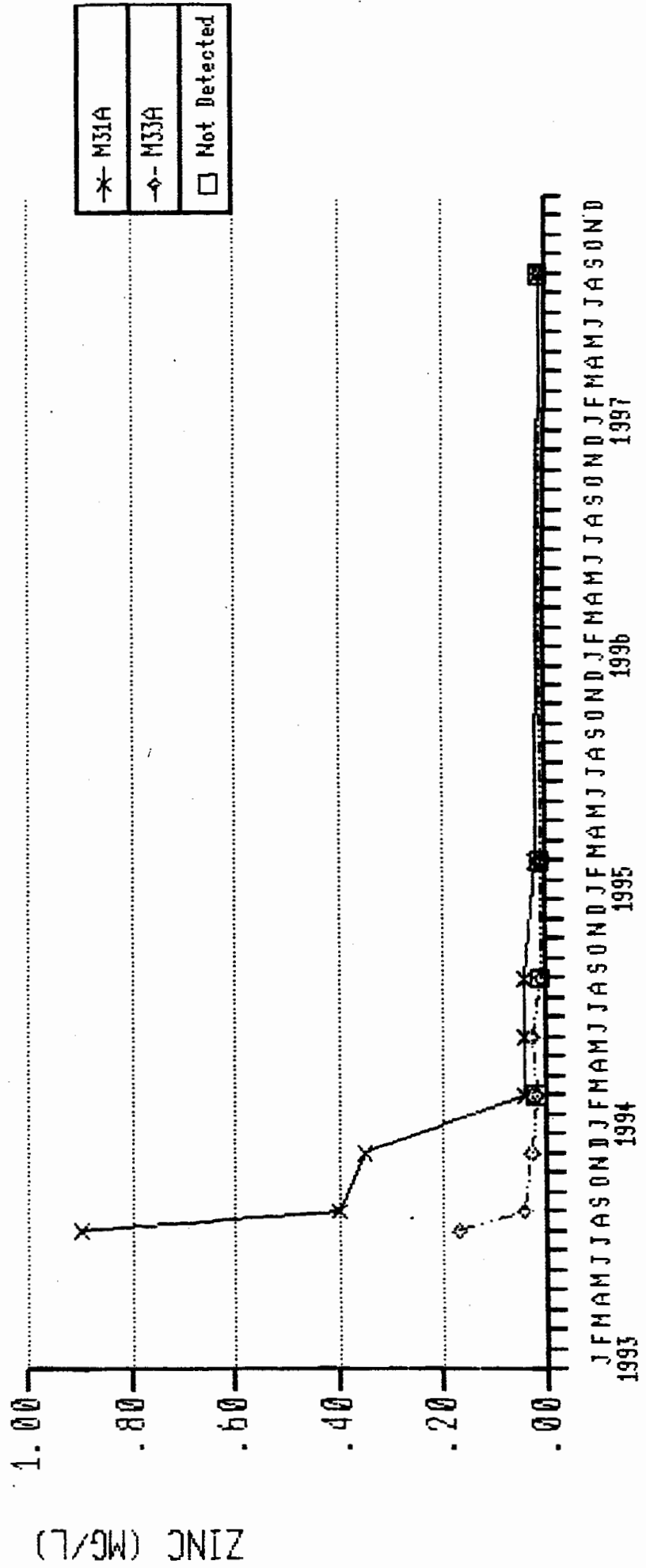
NICKEL (MG/L)

FIGURE 131
PUENTE HILLS LANDFILL
SELENIUM
BARRIER THREE MONITORING WELLS (FILTERED)



SELENIUM (MG/L)

FIGURE 132
PUENTE HILLS LANDFILL
ZINC
BARRIER THREE MONITORING WELLS (FILTERED)



FIGURES 133 - 173
WATER QUALITY DATA GRAPHS
BARRIER 4 MONITORING WELLS

FIGURE 133
PUENTE HILLS LANDFILL
DEPTH TO WATER
BARRIER FOUR MONITORING WELLS

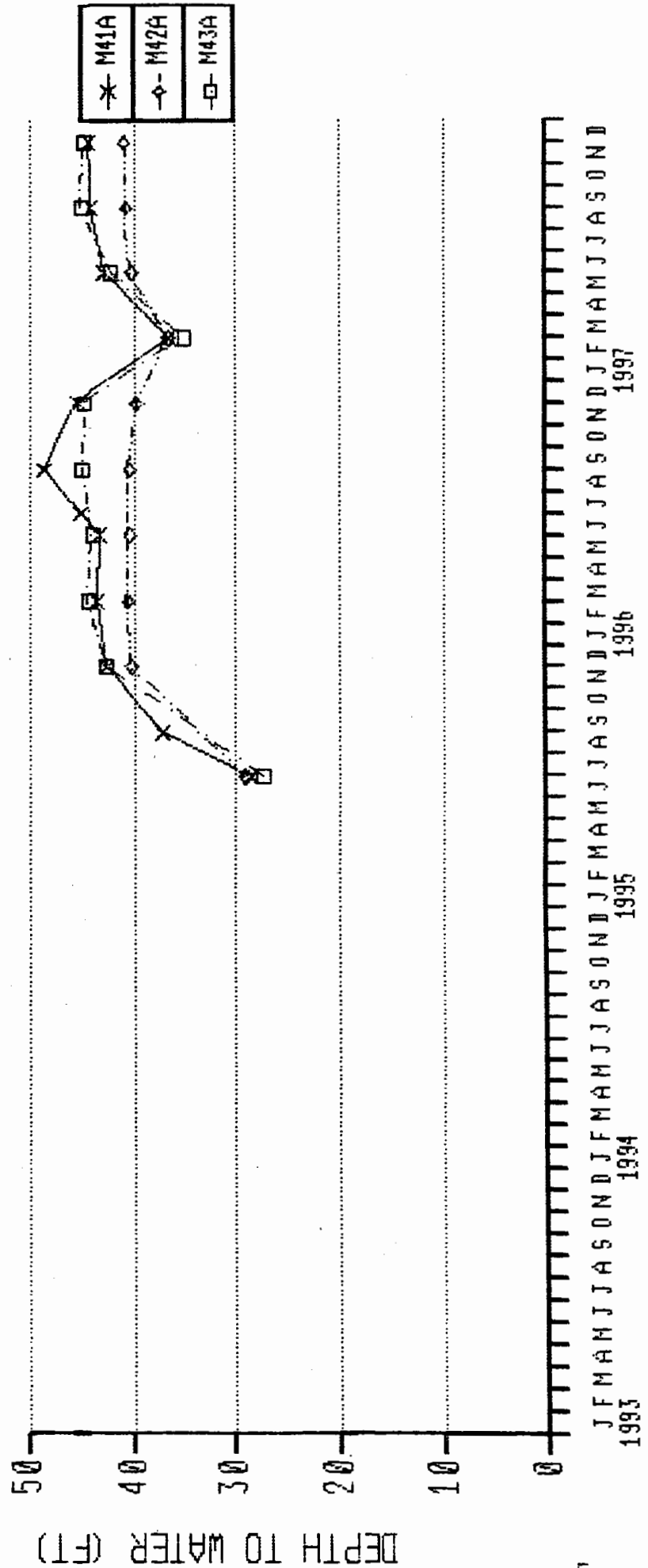


FIGURE 134
PUENTE HILLS LANDFILL
DEPTH TO BOTTOM
BARRIER FOUR MONITORING WELLS

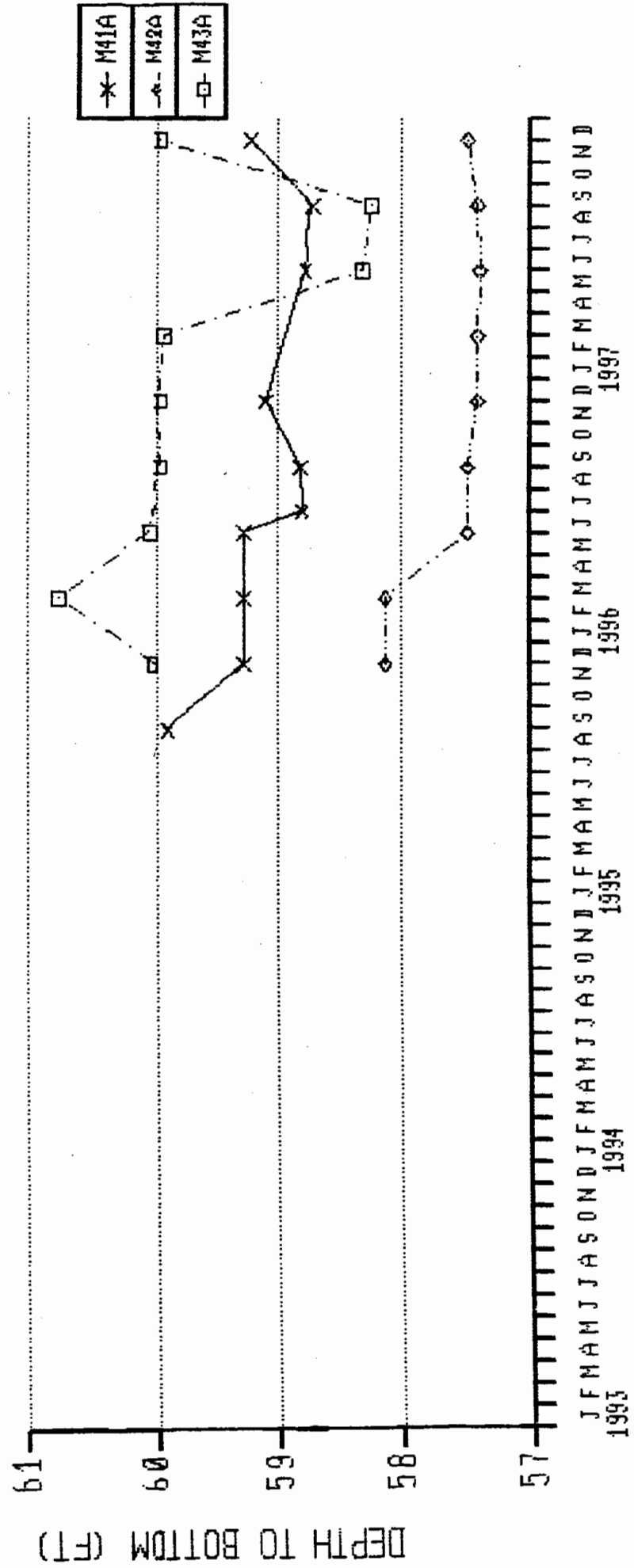


FIGURE 135
 PUENTE HILLS LANDFILL
 PERCENT OXYGEN IN GAS
 BARRIER FOUR MONITORING WELLS

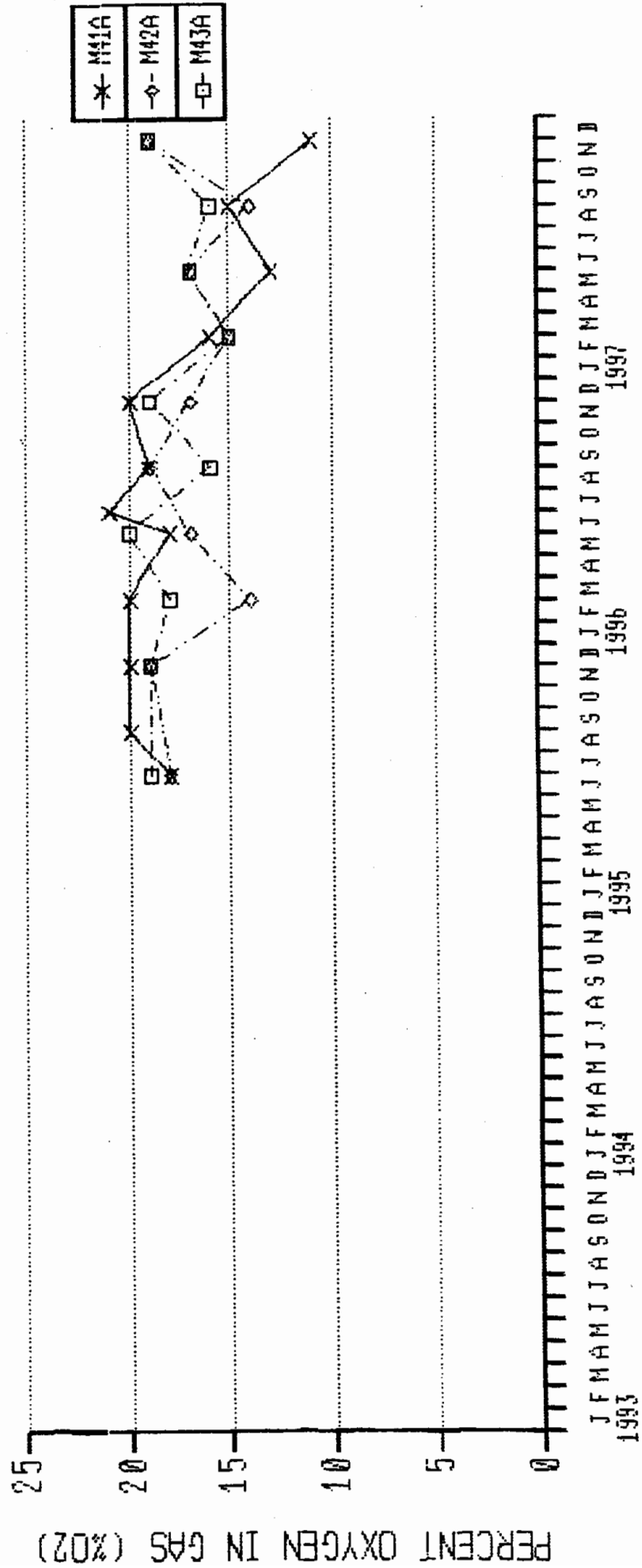


FIGURE 136
PUENTE HILLS LANDFILL
FIELD WATER TEMPERATURE
BARRIER FOUR MONITORING WELLS

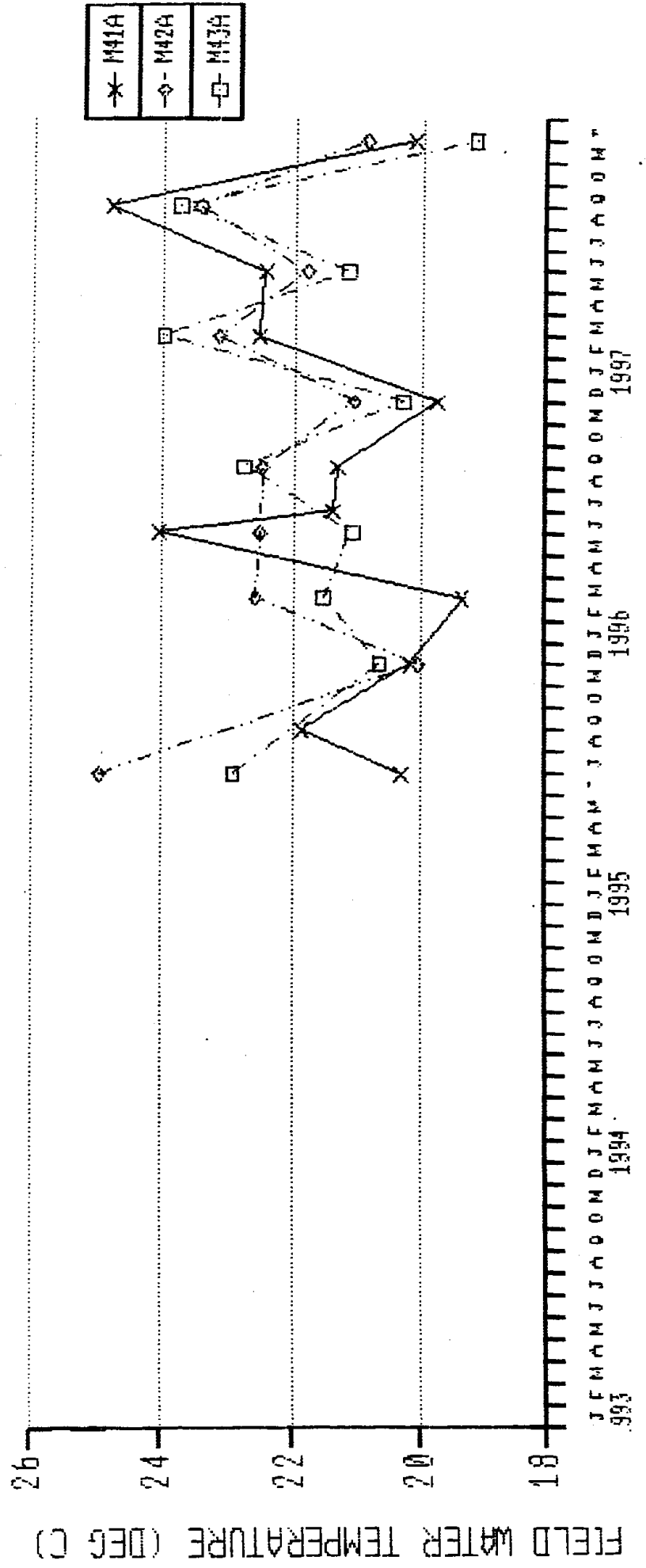


FIGURE 137
PUENTE HILLS LANDFILL
FIELD PH
BARRIER FOUR MONITORING WELLS

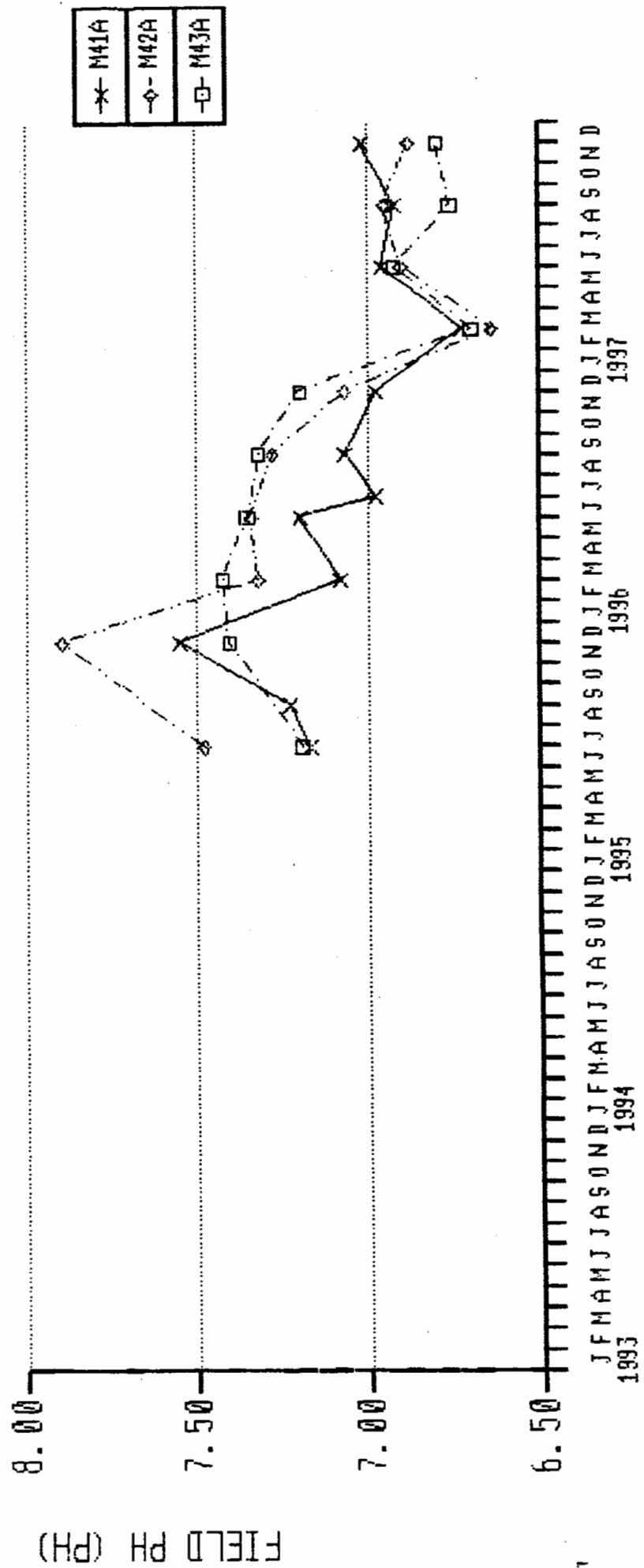


FIGURE 138
PUENTE HILLS LANDFILL
FIELD CONDUCTIVITY
BARRIER FOUR MONITORING WELLS

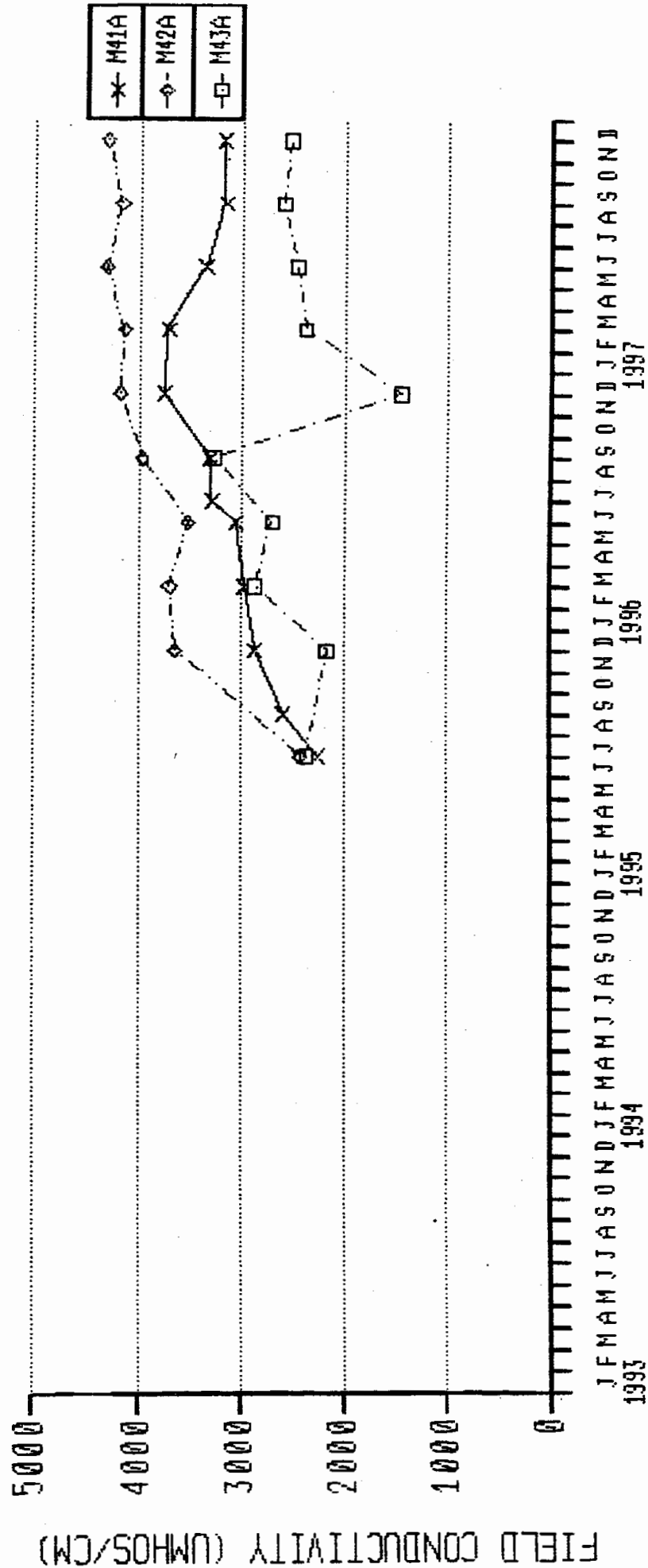


FIGURE 139
PUENTE HILLS LANDFILL
FIELD DISSOLVED O₂
BARRIER FOUR MONITORING WELLS

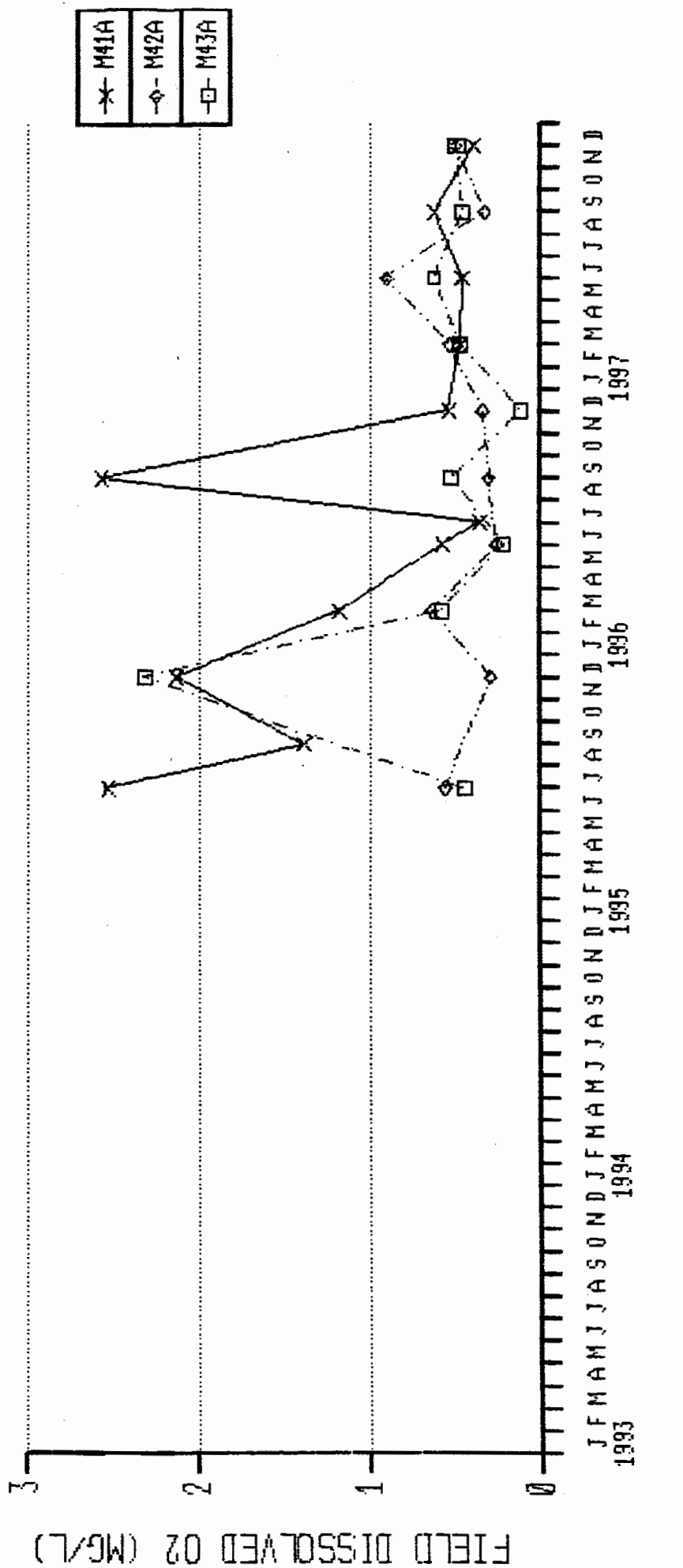


FIGURE 140
PUENTE HILLS LANDFILL
FIELD DISSOLVED CO₂
BARRIER FOUR MONITORING WELLS

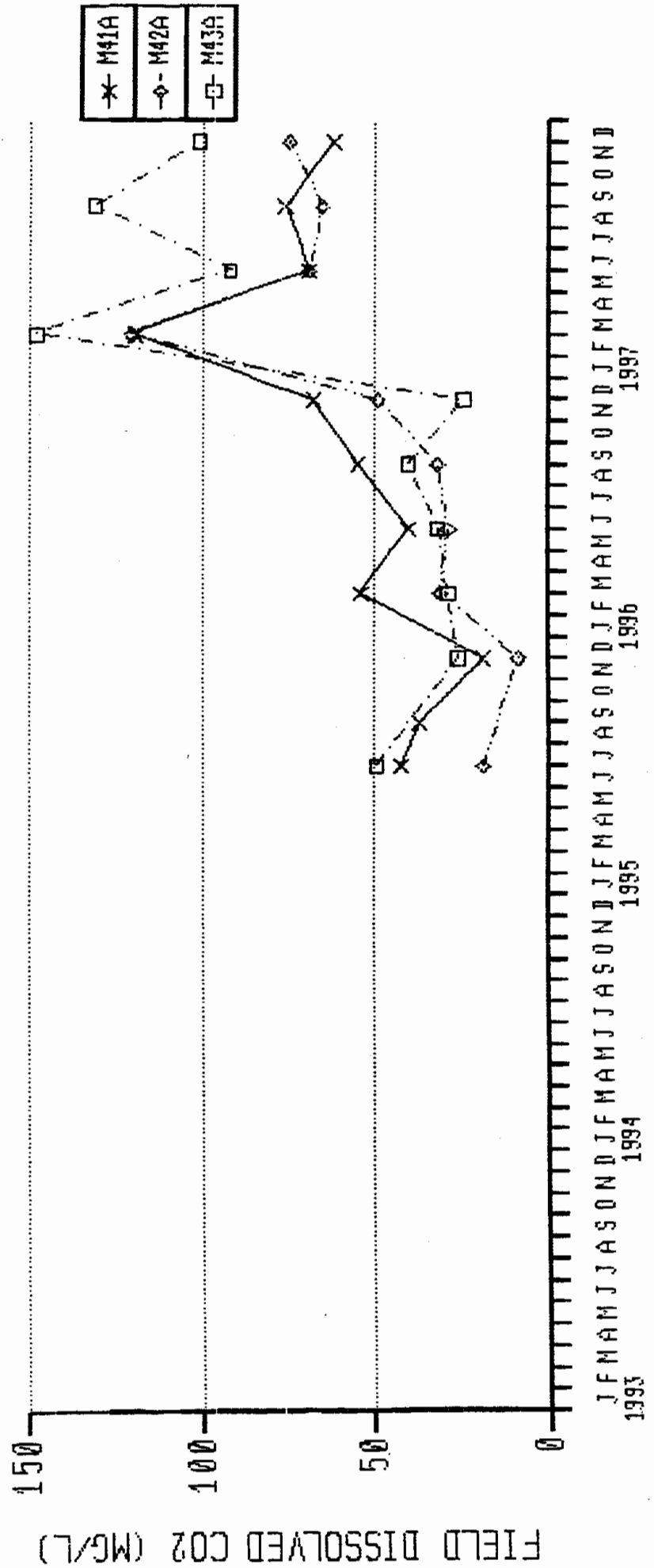


FIGURE 141
PUENTE HILLS LANDFILL
PH
BARRIER FOUR MONITORING WELLS

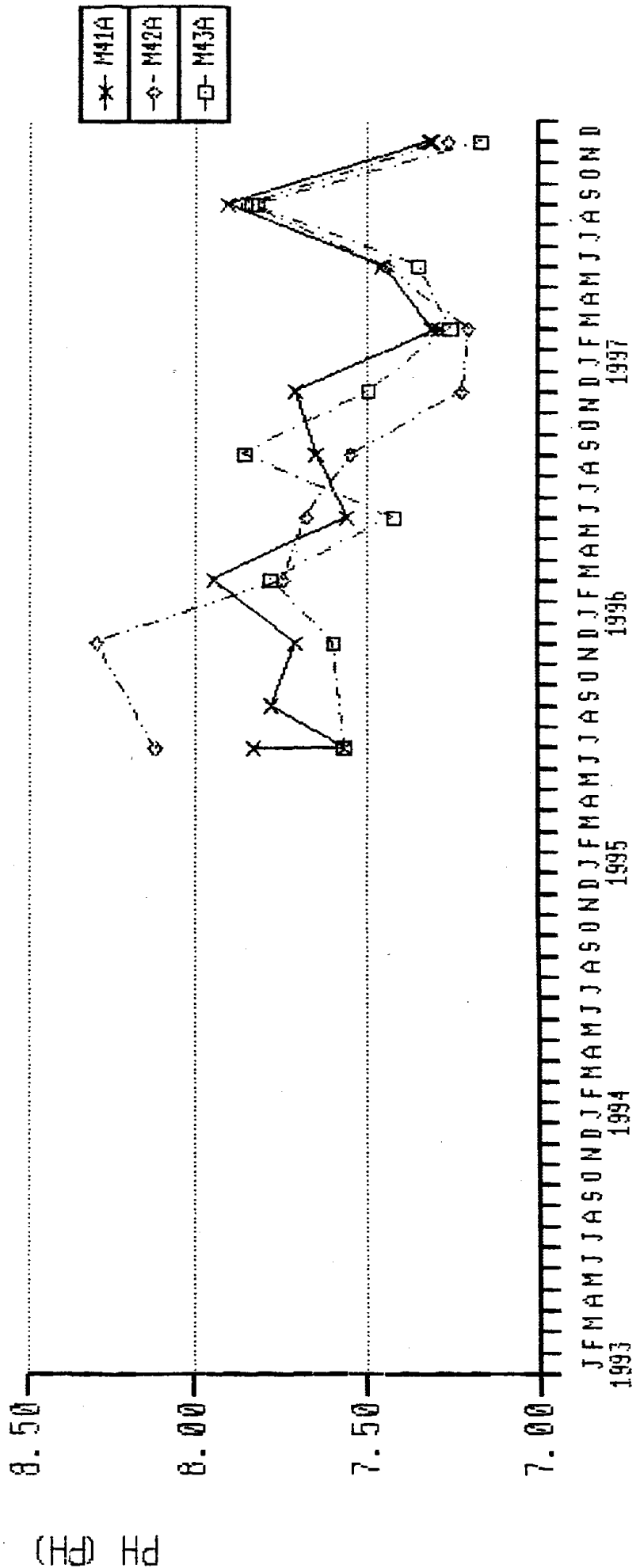


FIGURE 142
PUENTE HILLS LANDFILL
CONDUCTIVITY
BARRIER FOUR MONITORING WELLS

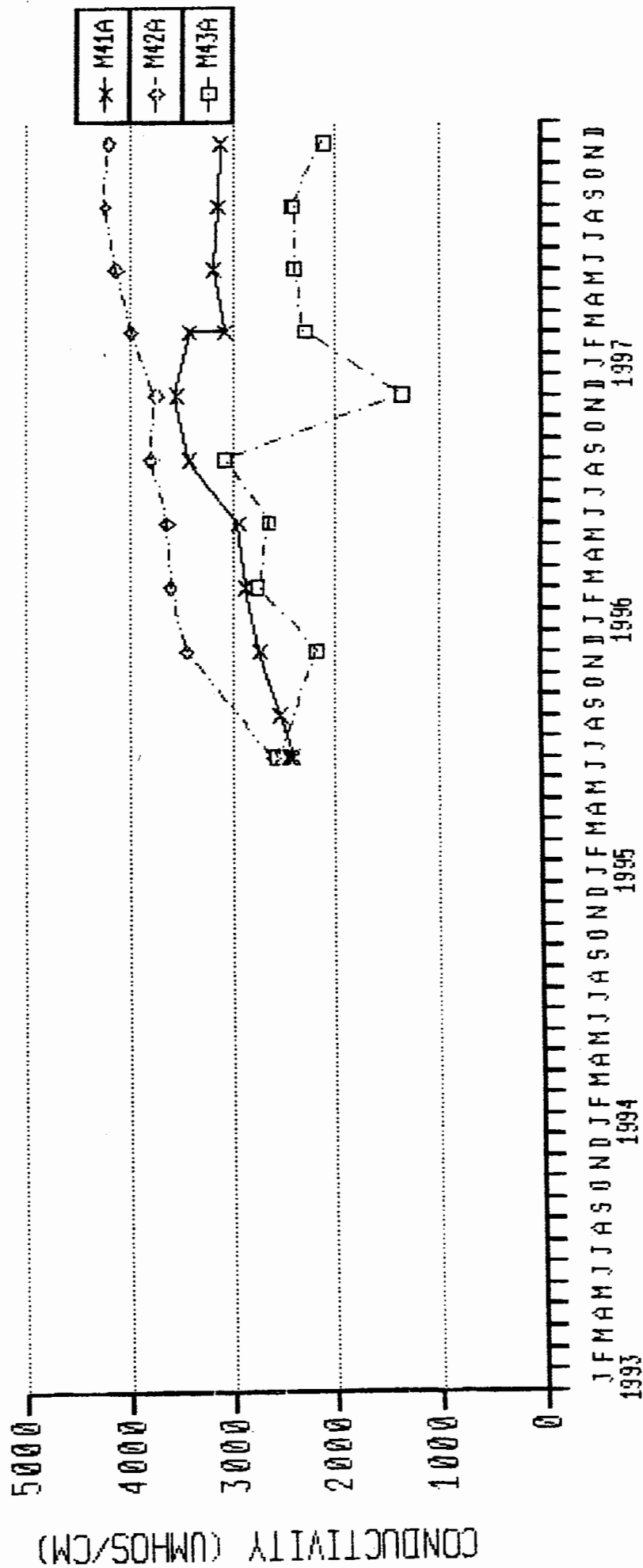


FIGURE 143
PUENTE HILLS LANDFILL
TOTAL DISSOLVED SOLIDS
BARRIER FOUR MONITORING WELLS

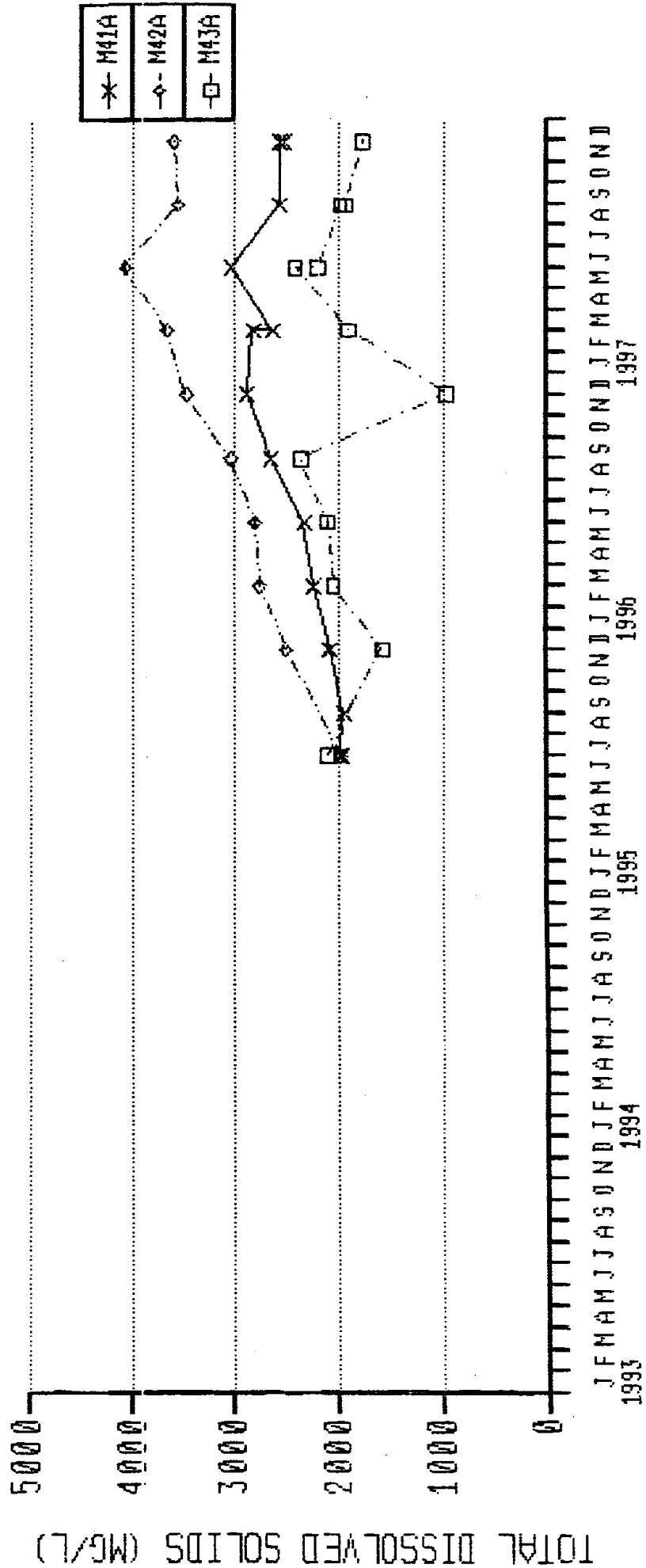


FIGURE 144
PUENTE HILLS LANDFILL
TOTAL HARDNESS
BARRIER FOUR MONITORING WELLS

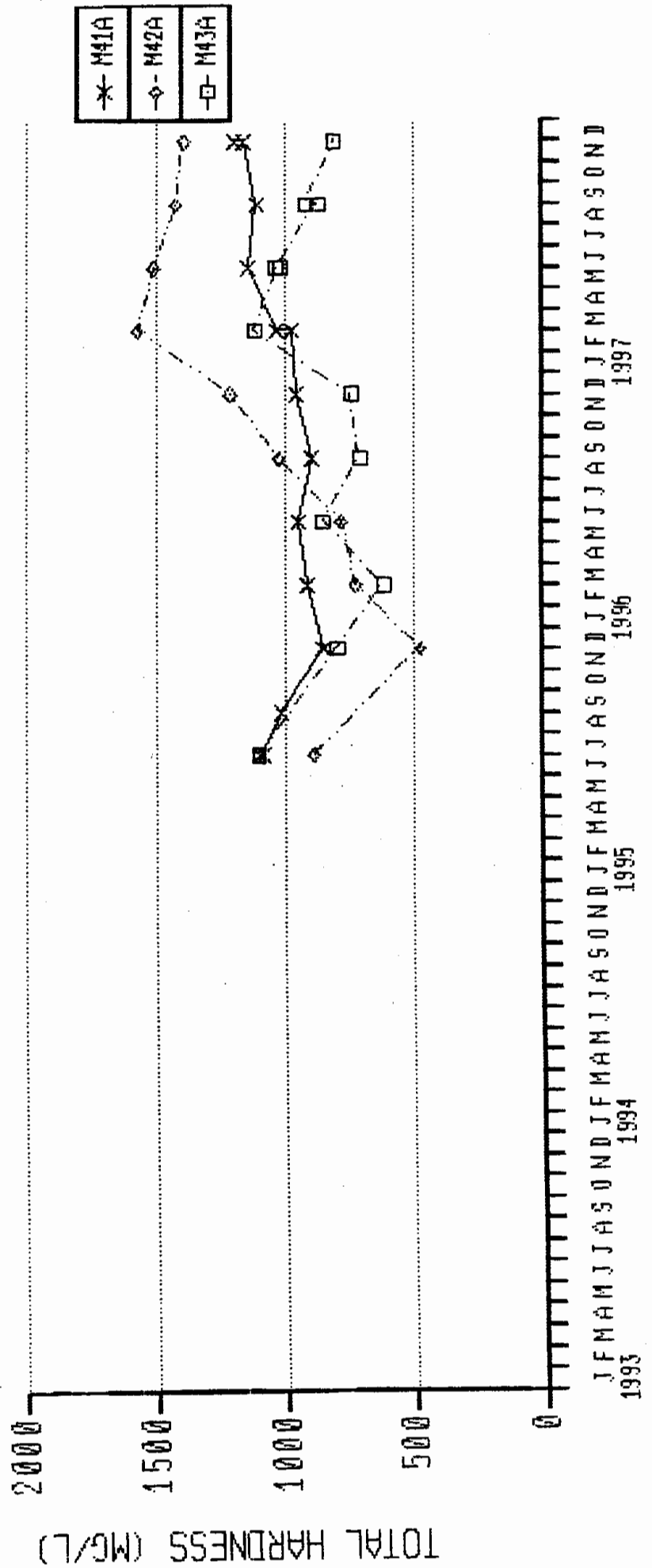


FIGURE 145
PUENTE HILLS LANDFILL
BORON
BARRIER FOUR MONITORING WELLS

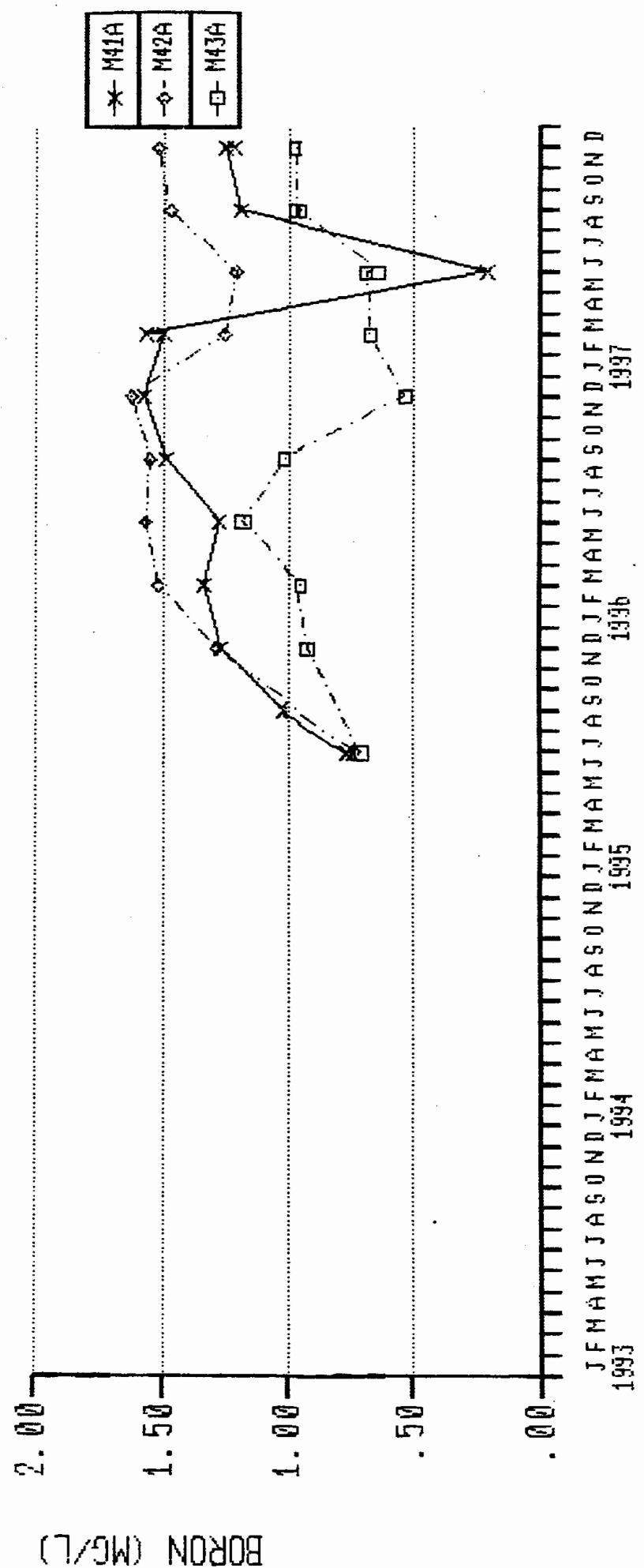


FIGURE 146
 PUENTE HILLS LANDFILL
 NITRATE NITROGEN
 BARRIER FOUR MONITORING WELLS

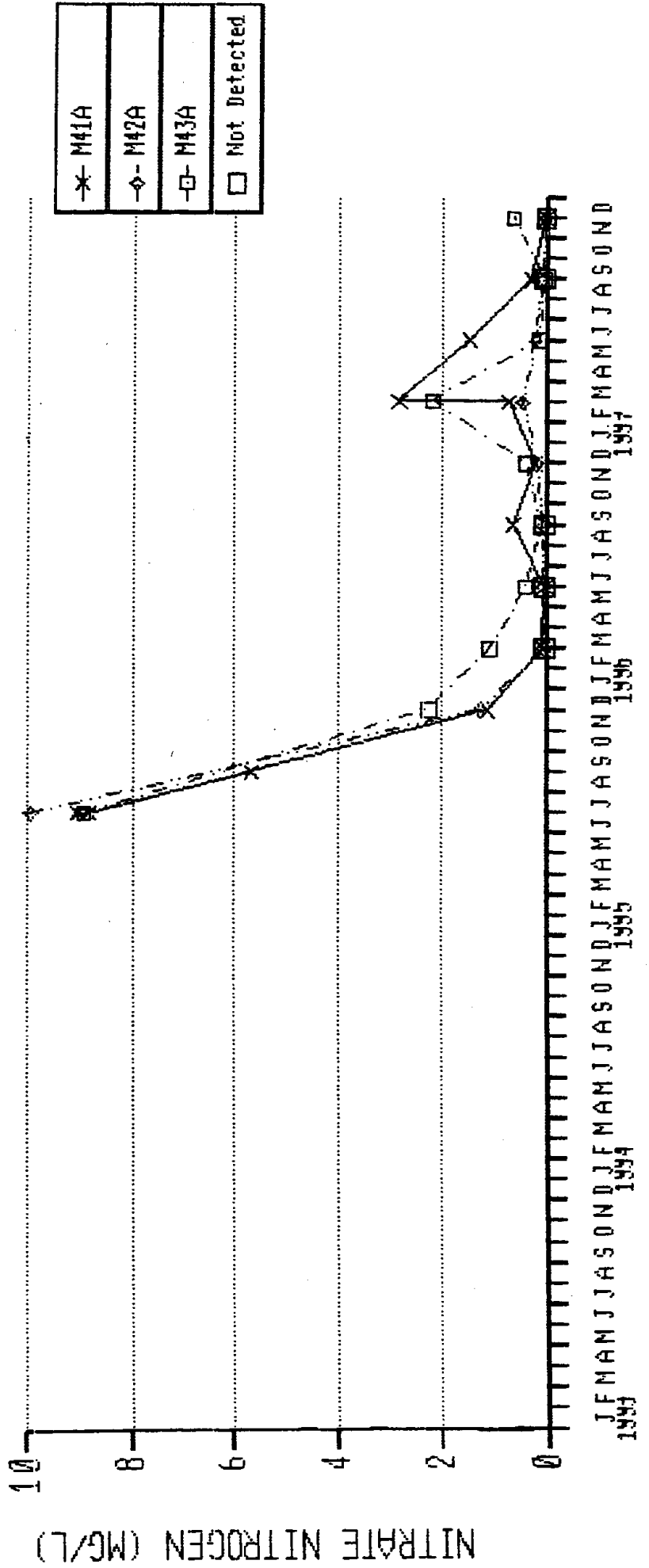
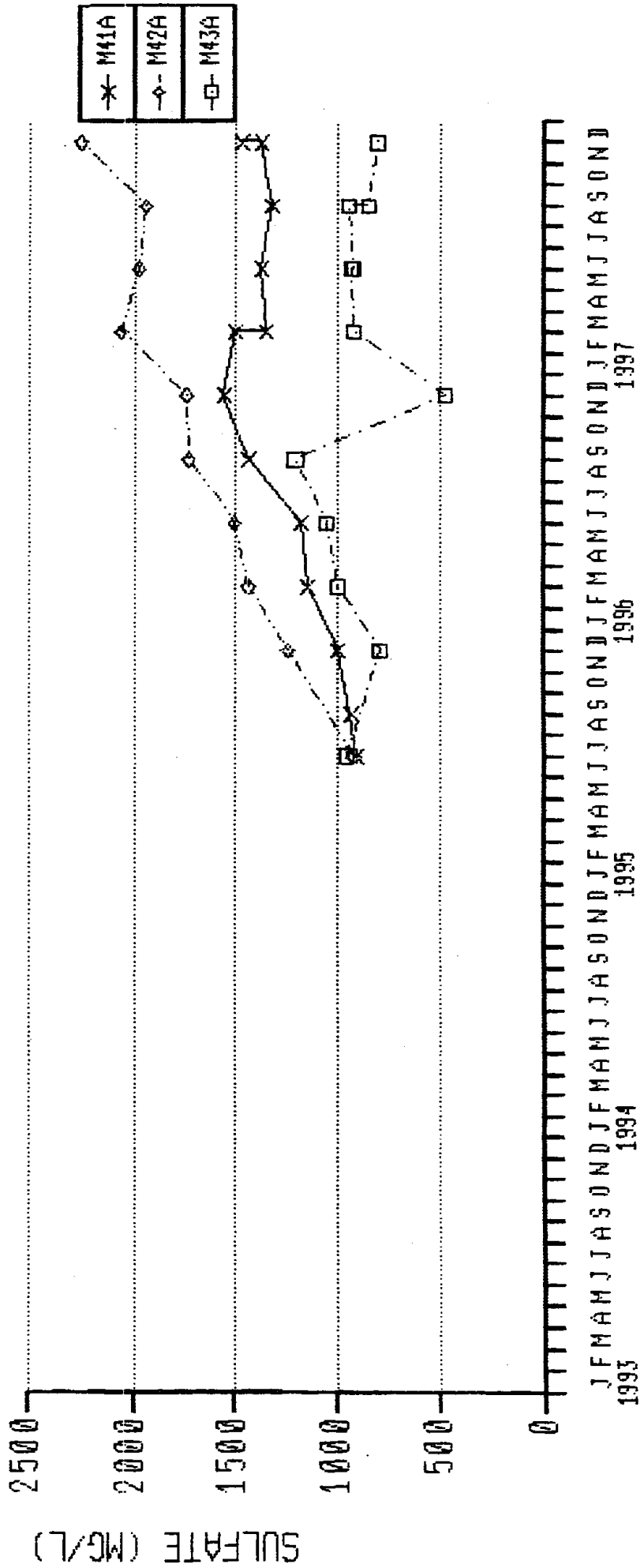


FIGURE 147
PUENTE HILLS LANDFILL
SULFATE
BARRIER FOUR MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 148
PUENTE HILLS LANDFILL
CHLORIDE
BARRIER FOUR MONITORING WELLS

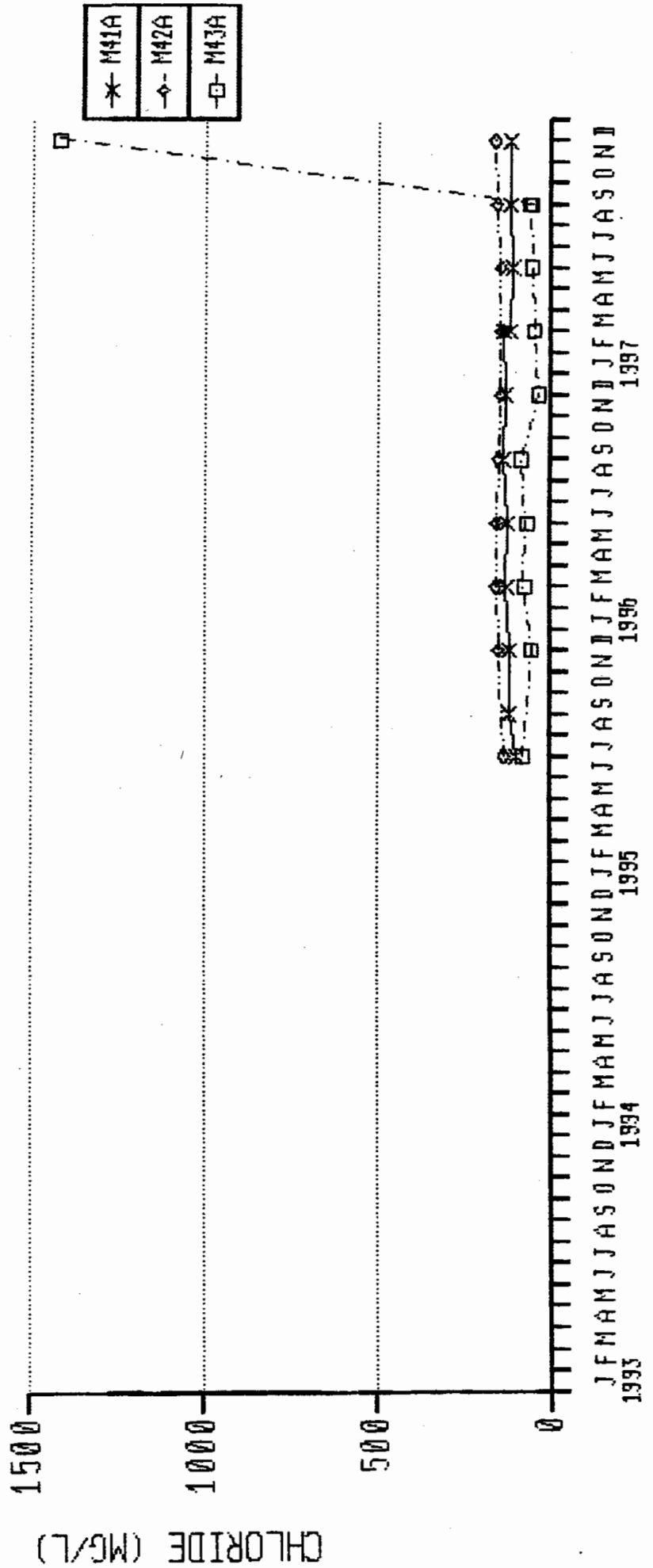
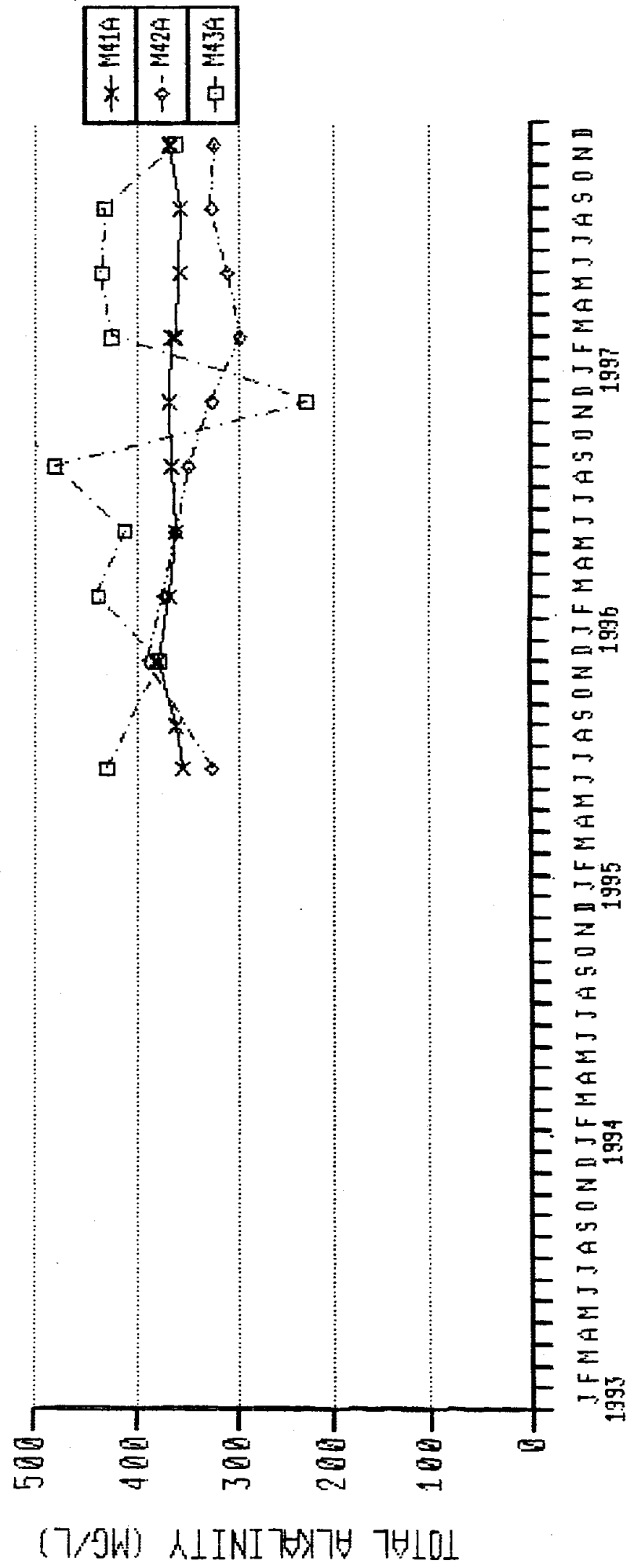
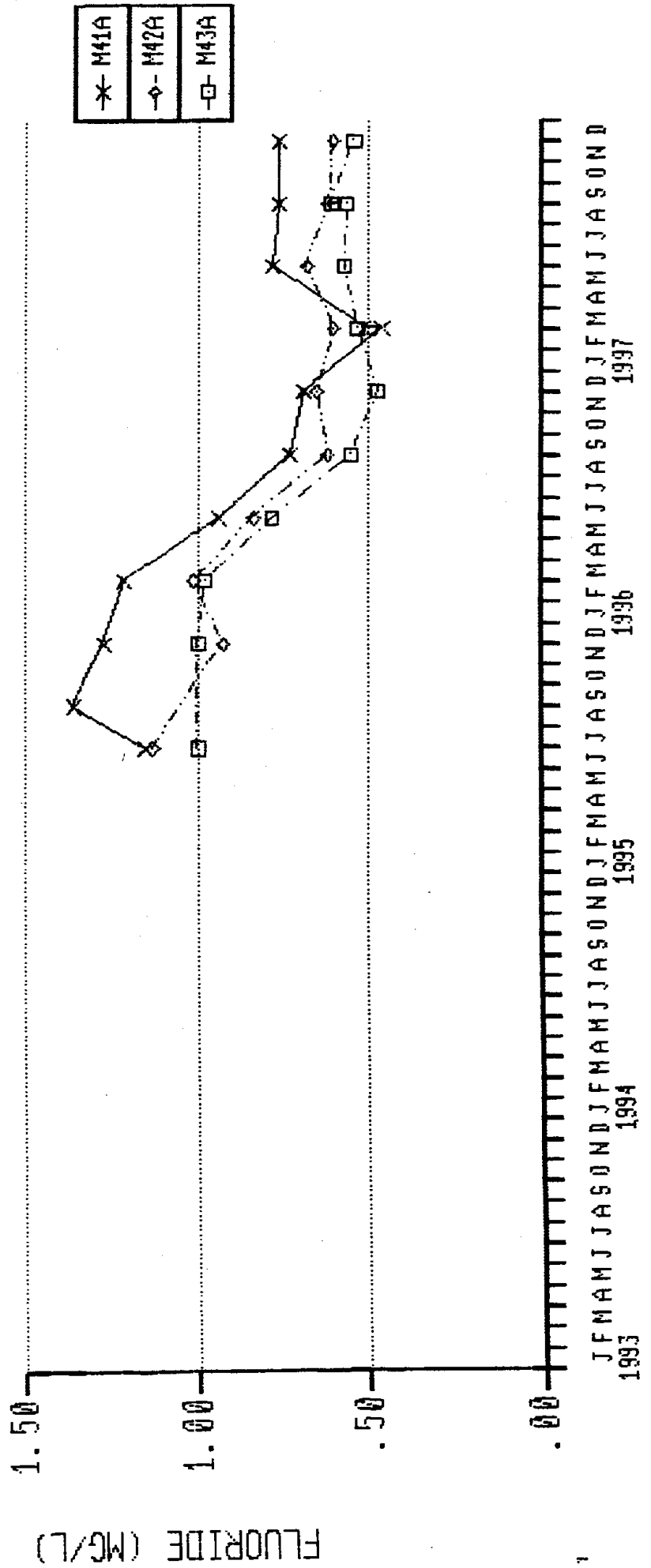


FIGURE 149
PUENTE HILLS LANDFILL
TOTAL ALKALINITY
BARRIER FOUR MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 150
PUENTE HILLS LANDFILL
FLUORIDE
BARRIER FOUR MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 151
PUENTE HILLS LANDFILL
BICARBONATE ALKALINITY
BARRIER FOUR MONITORING WELLS

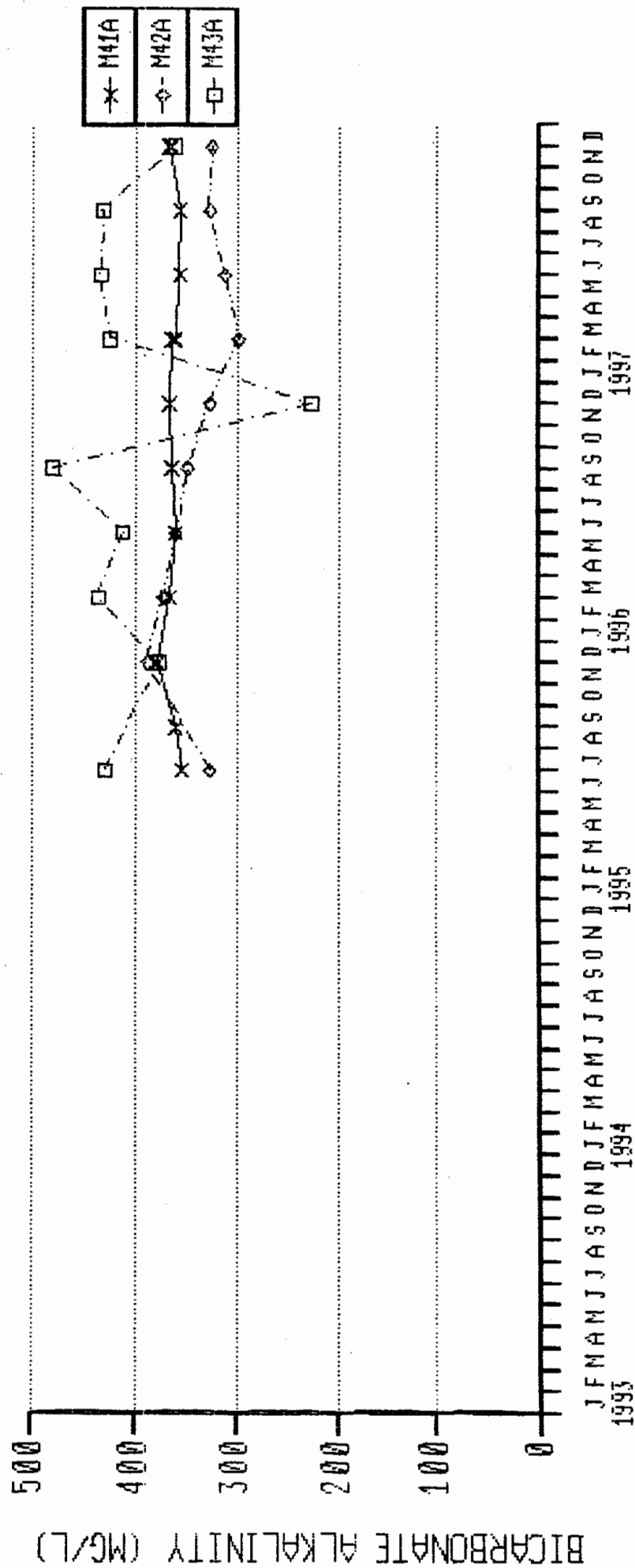
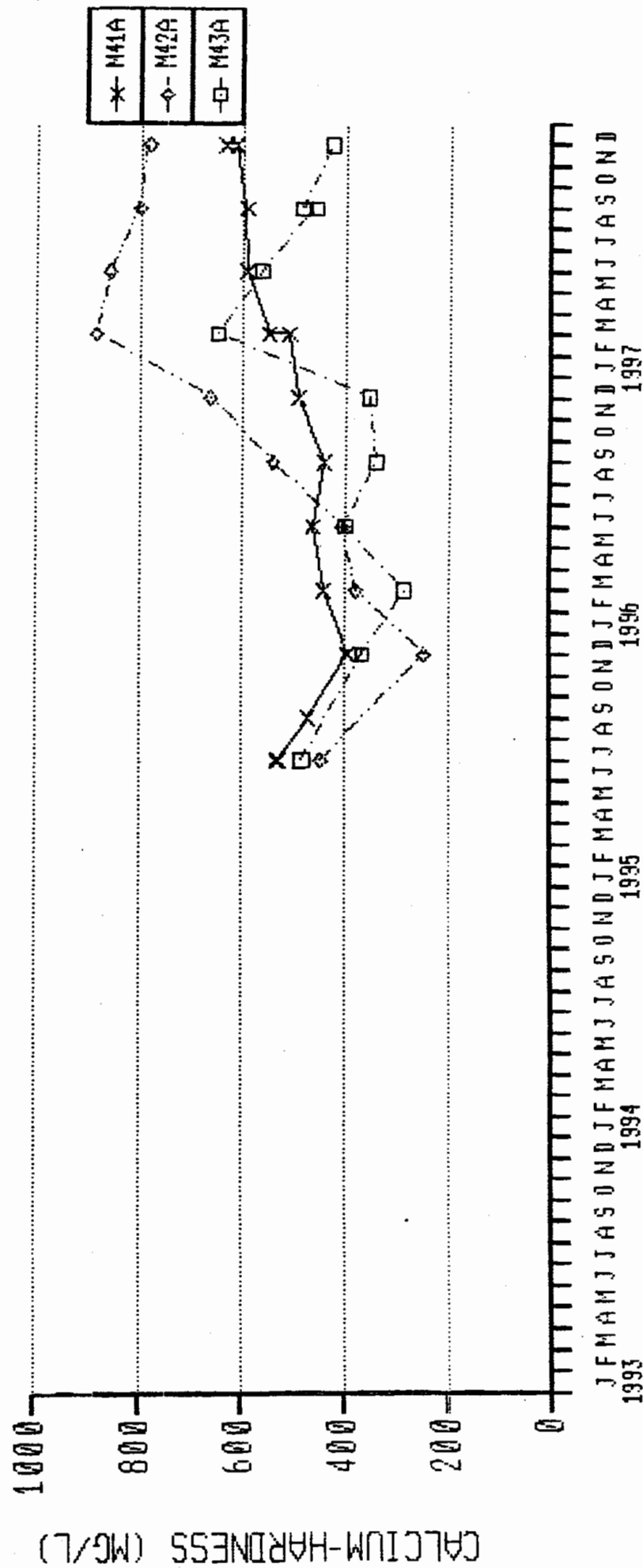


FIGURE 152
PUENTE HILLS LANDFILL
CALCIUM-HARDNESS
BARRIER FOUR MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 153
PUENTE HILLS LANDFILL
MAGNESIUM-HARDNESS
BARRIER FOUR MONITORING WELLS

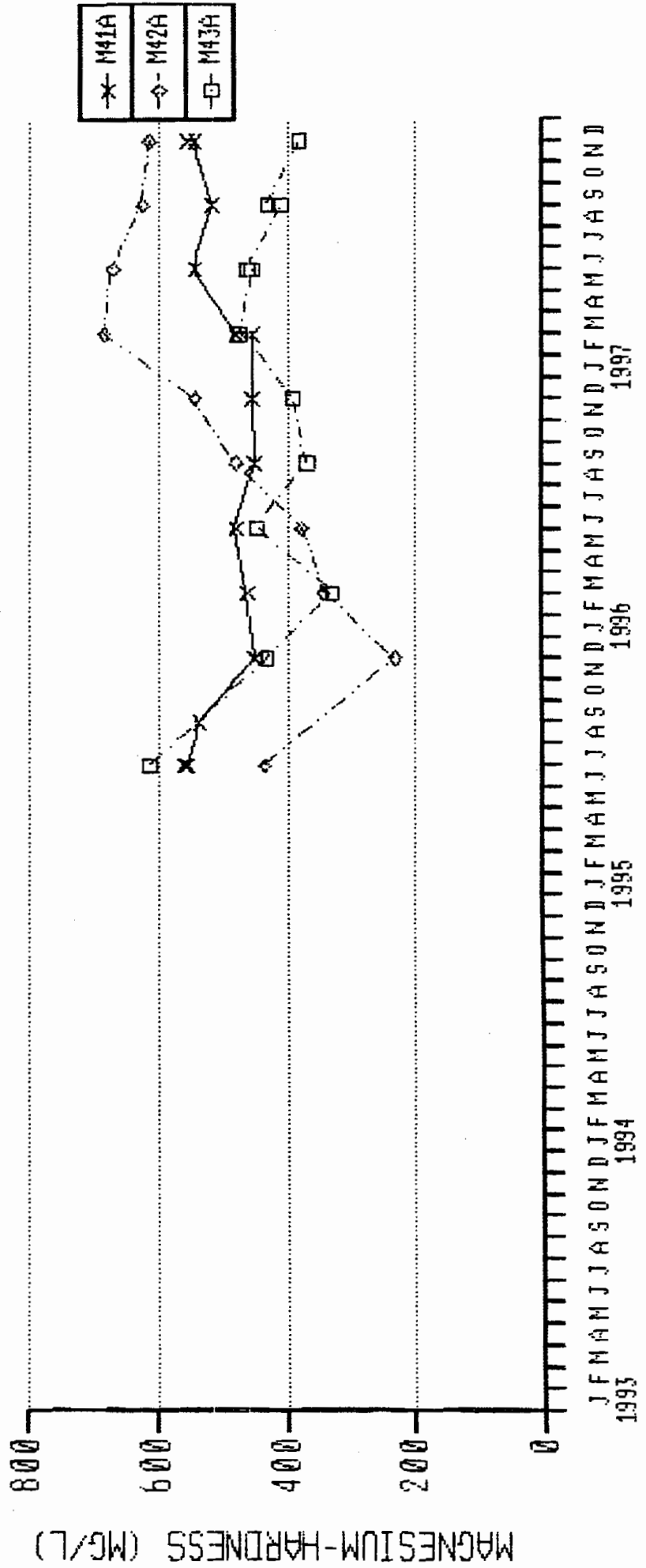


FIGURE 154
PUENTE HILLS LANDFILL
SODIUM
BARRIER FOUR MONITORING WELLS

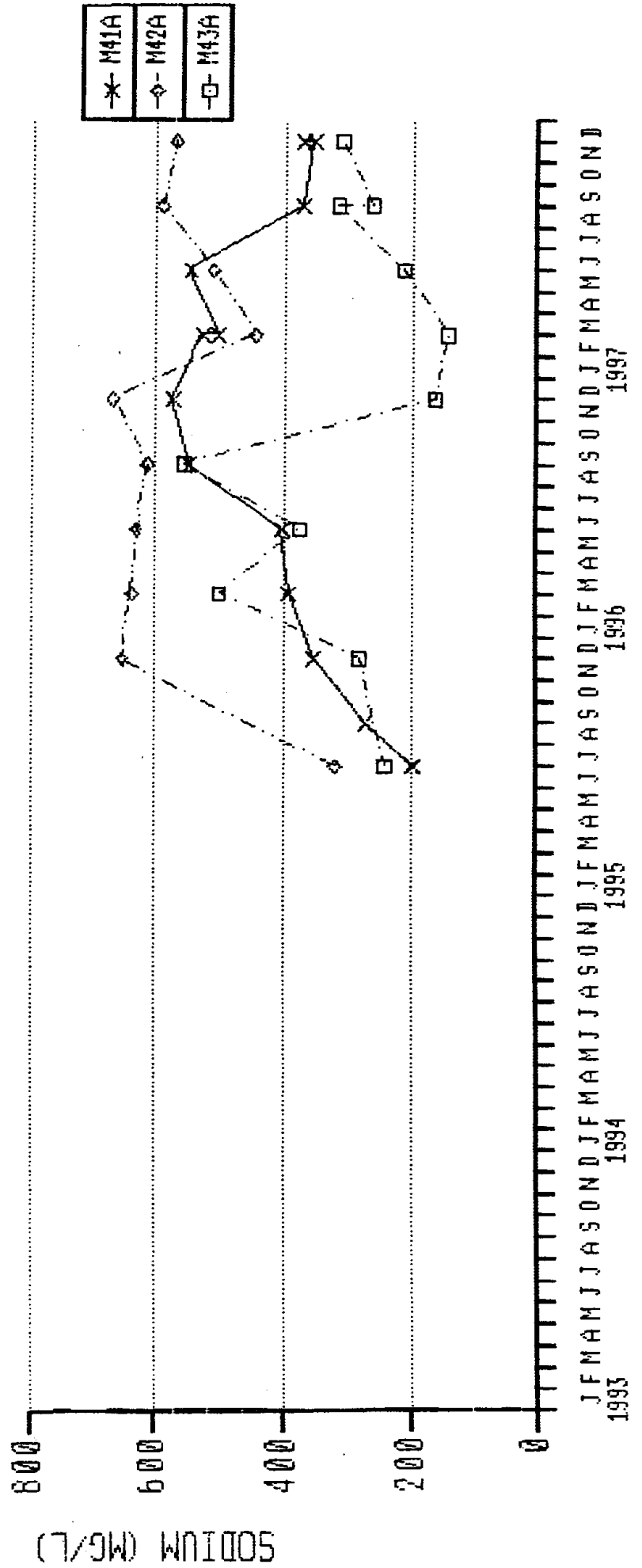


FIGURE 155
PUENTE HILLS LANDFILL
POTASSIUM
BARRIER FOUR MONITORING WELLS

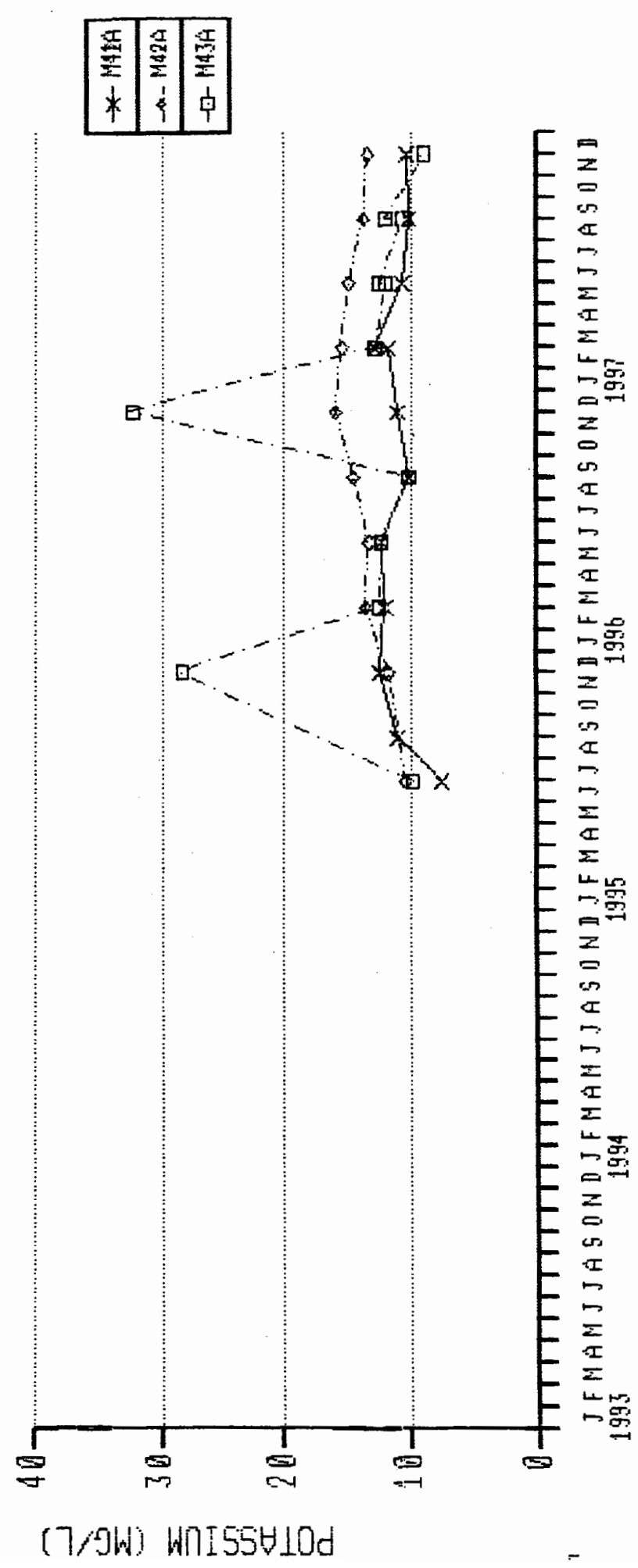


FIGURE 156
PUENTE HILLS LANDFILL
IRON
BARRIER FOUR MONITORING WELLS

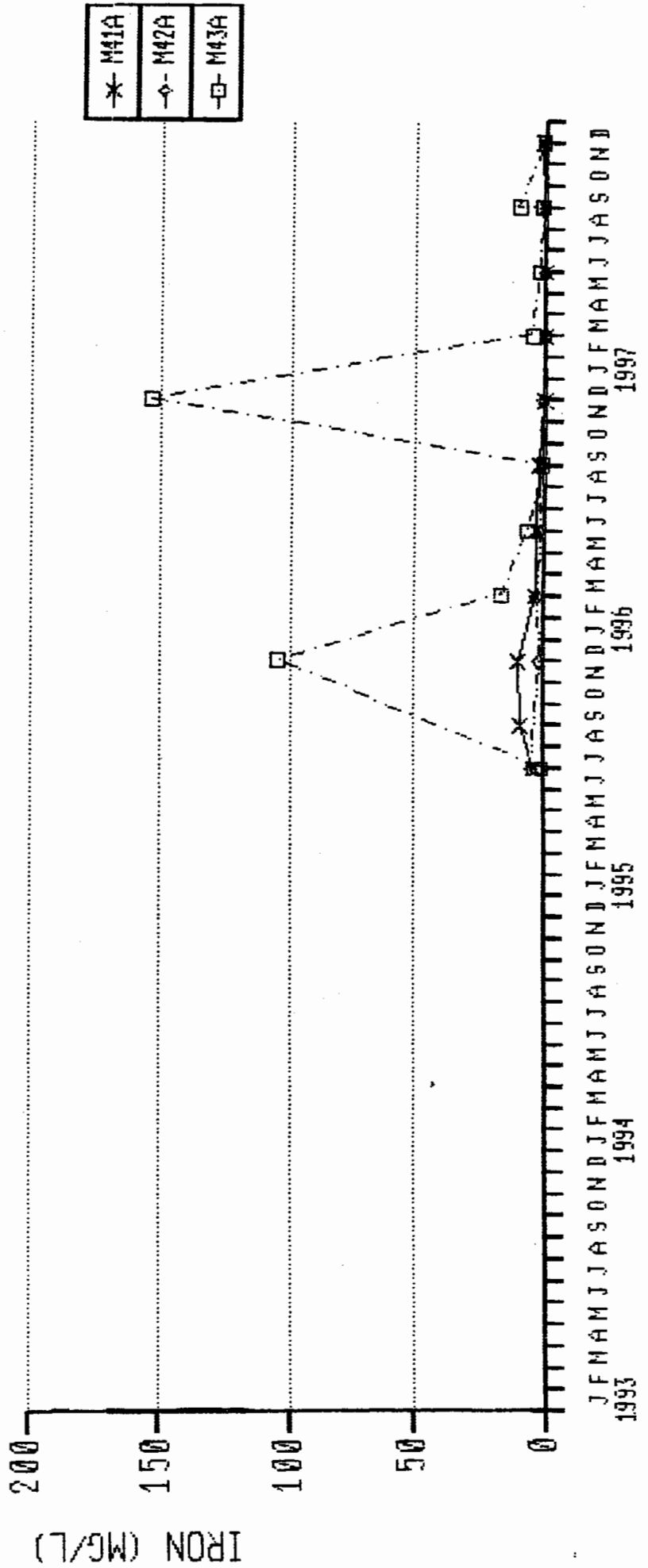


FIGURE 157

PUENTE HILLS LANDFILL AMMONIA NITROGEN BARRIER FOUR MONITORING WELLS

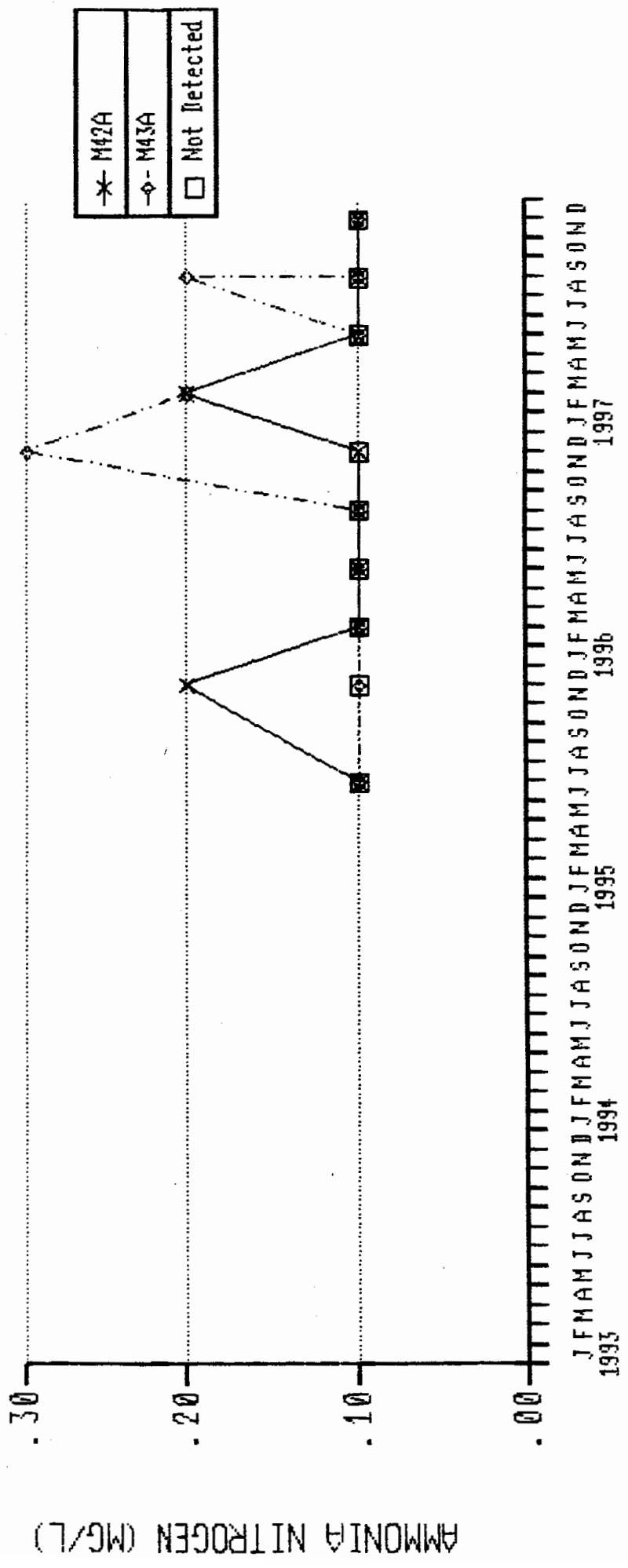


FIGURE 158
 PUENTE HILLS LANDFILL
 SOLUBLE BOD
 BARRIER FOUR MONITORING WELLS

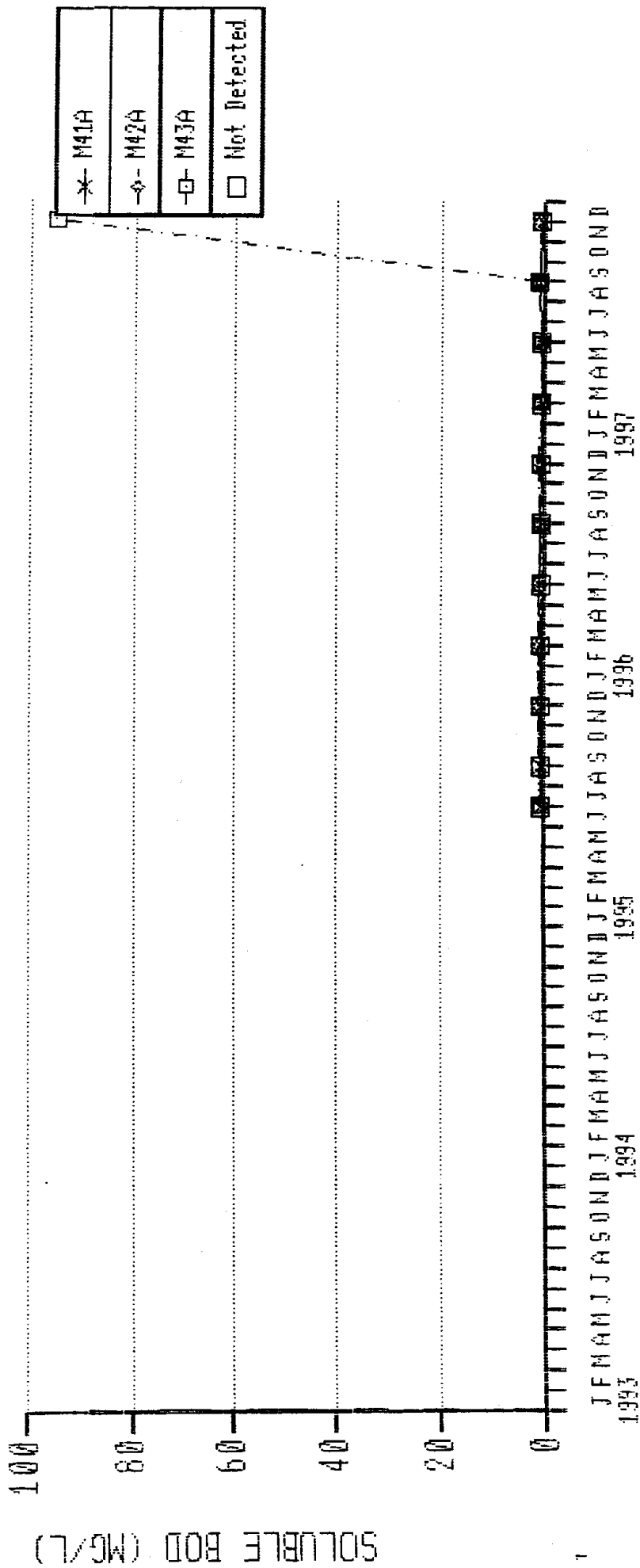


FIGURE 159
PUENTE HILLS LANDFILL
SOLUBLE COD
BARRIER FOUR MONITORING WELLS

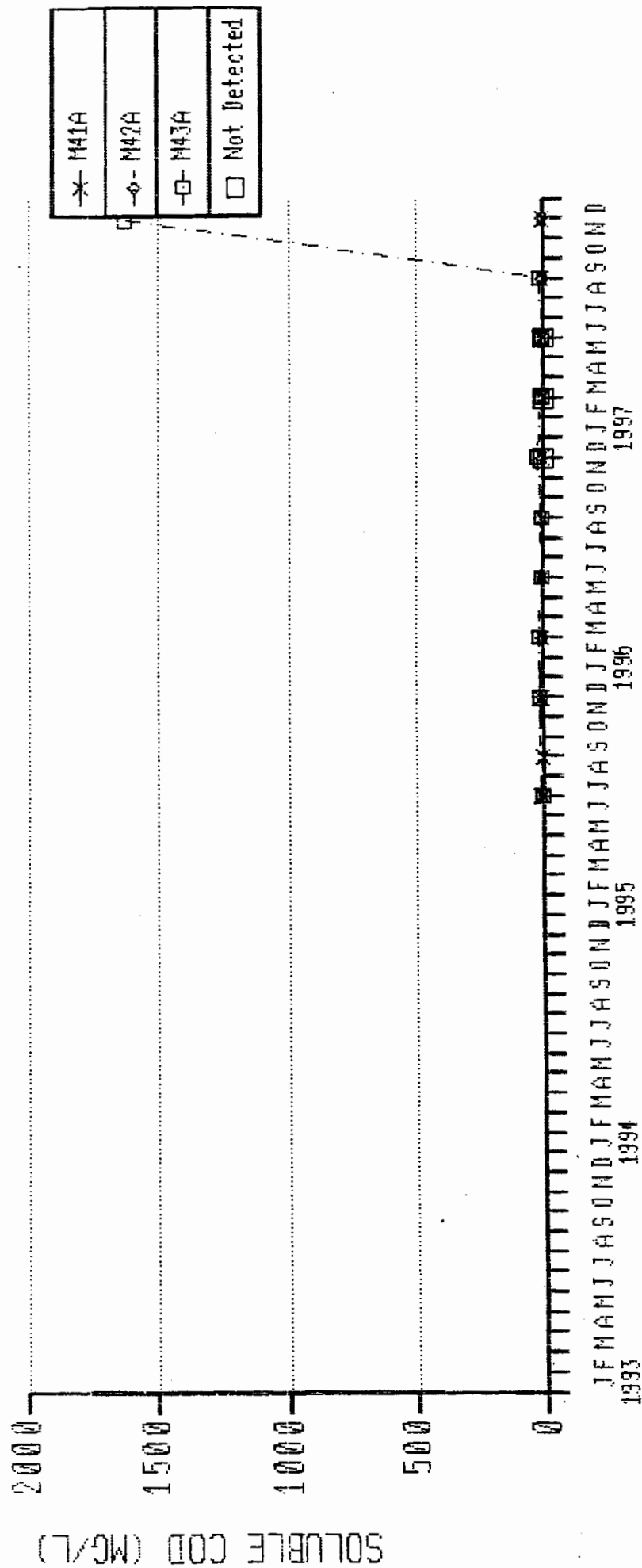


FIGURE 160
PUENTE HILLS LANDFILL
TOTAL ORGANIC CARBON
BARRIER FOUR MONITORING WELLS

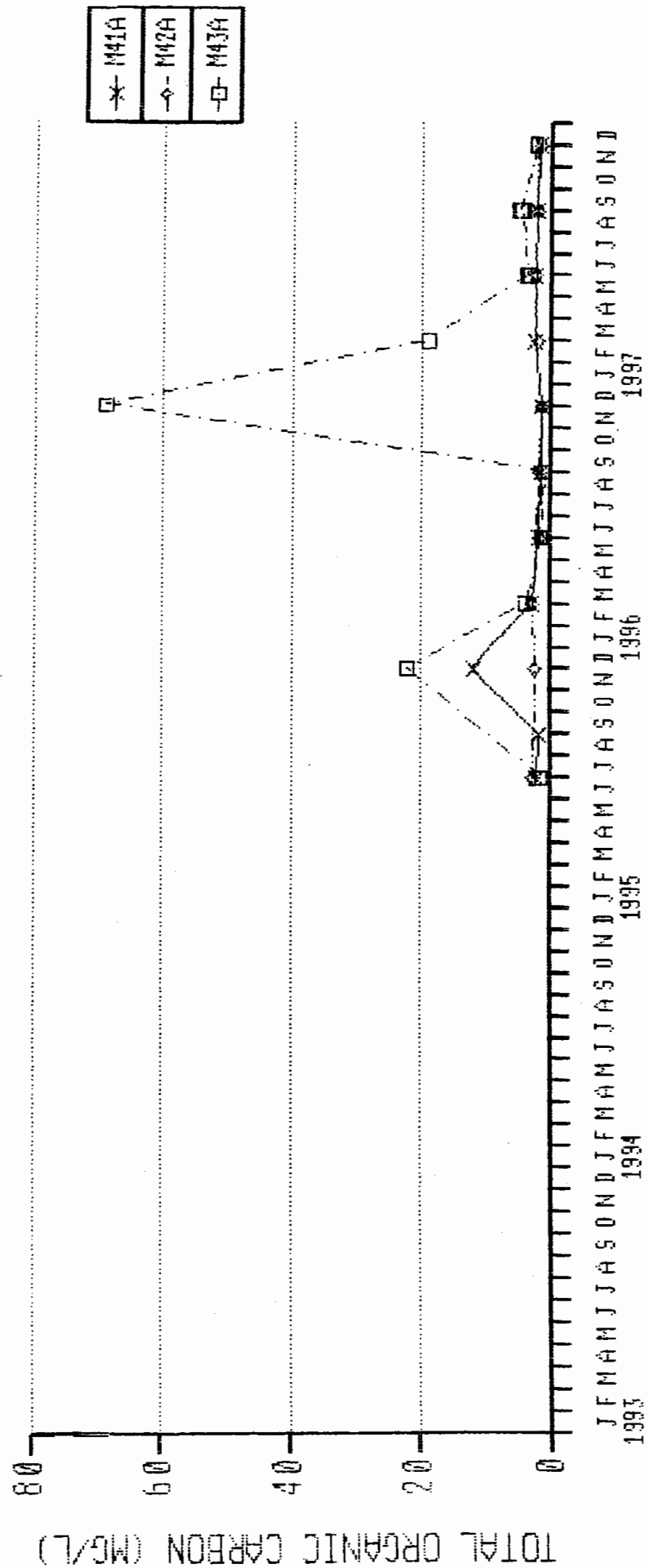


FIGURE 161
PUENTE HILLS LANDFILL
TOTAL ORGANIC HALOGEN
BARRIER FOUR MONITORING WELLS

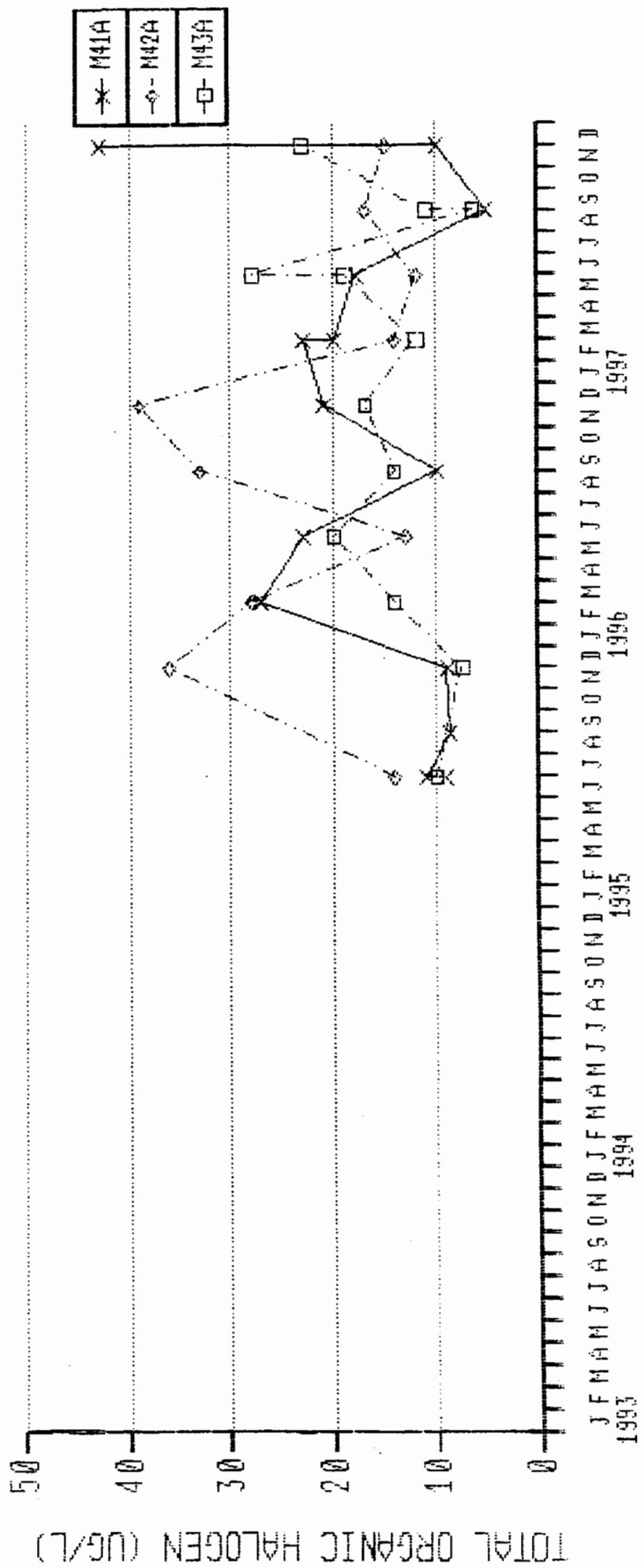


FIGURE 162
PUENTE HILLS LANDFILL
ARSENIC
BARRIER FOUR MONITORING WELLS

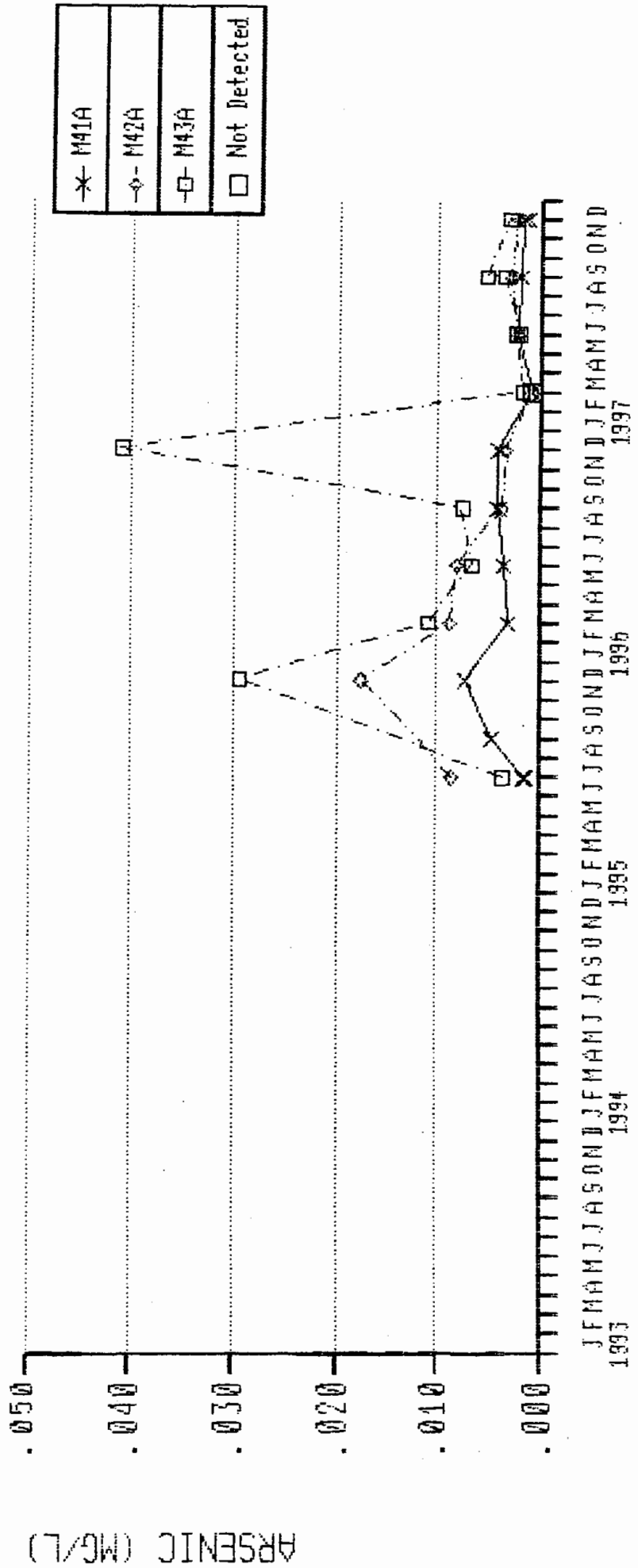


FIGURE 163
PUENTE HILLS LANDFILL
BARIUM
BARRIER FOUR MONITORING WELLS

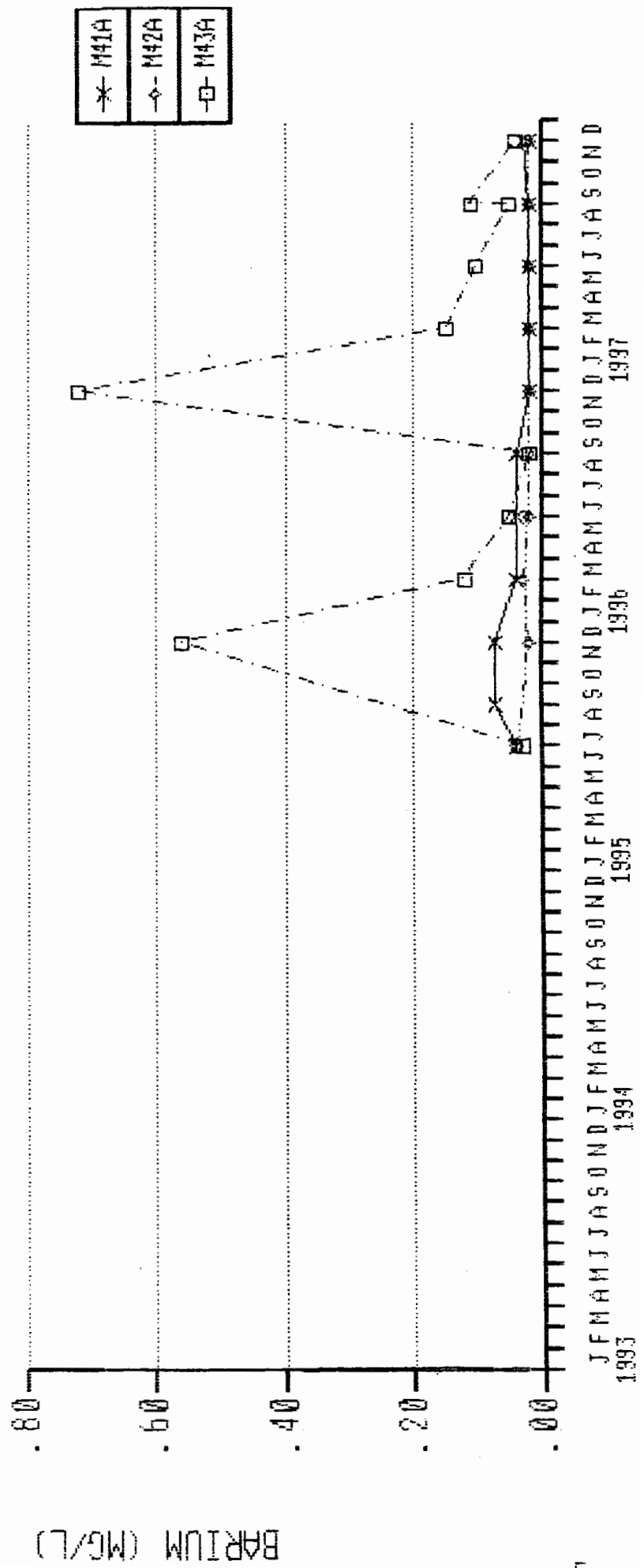


FIGURE 164
PUENTE HILLS LANDFILL
COBALT
BARRIER FOUR MONITORING WELLS

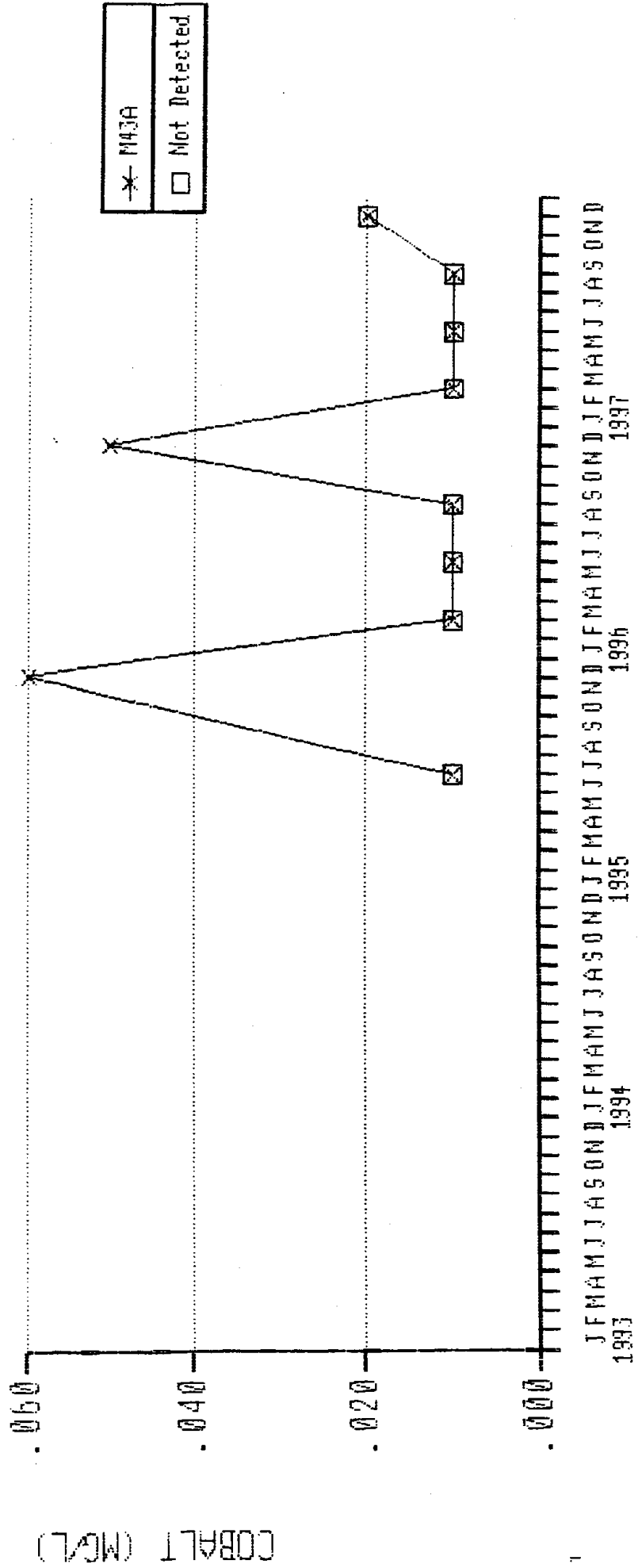


FIGURE 165
PUENTE HILLS LANDFILL
SELENIUM
BARRIER FOUR MONITORING WELLS

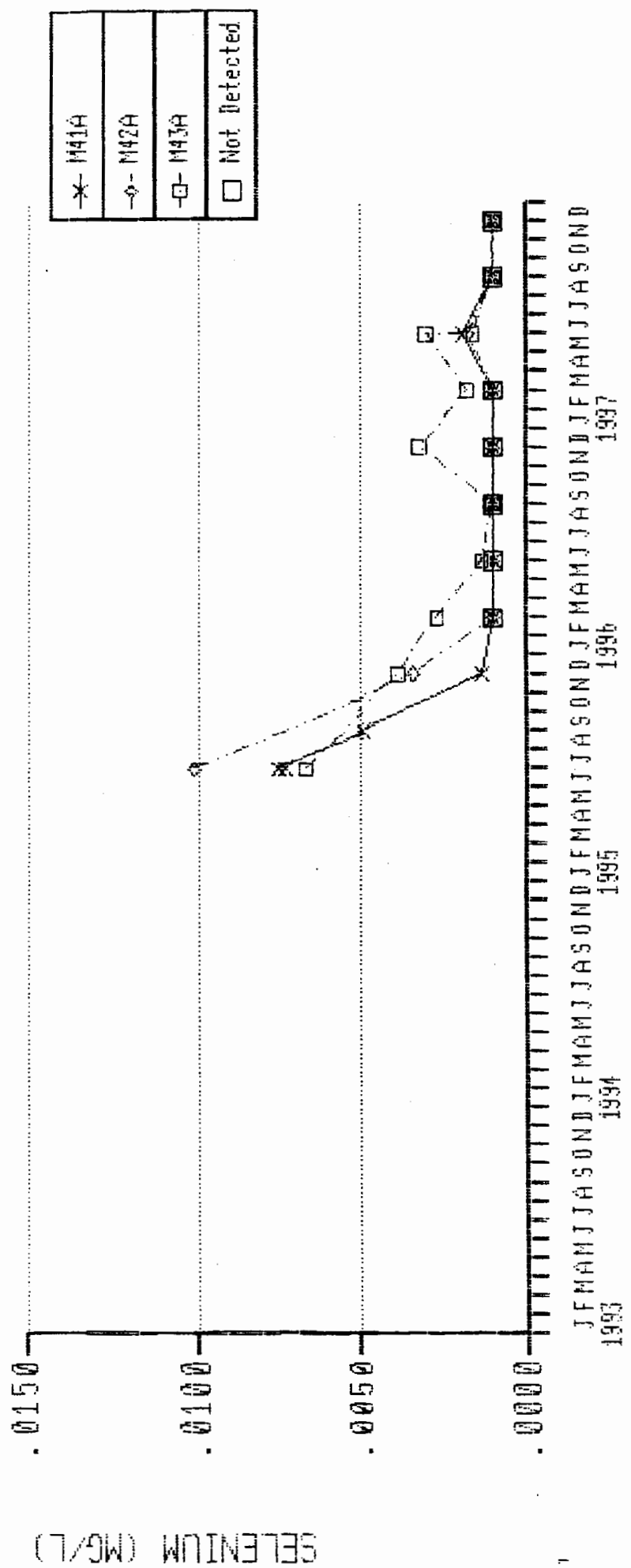


FIGURE 166
PUENTE HILLS LANDFILL
ZINC
BARRIER FOUR MONITORING WELLS

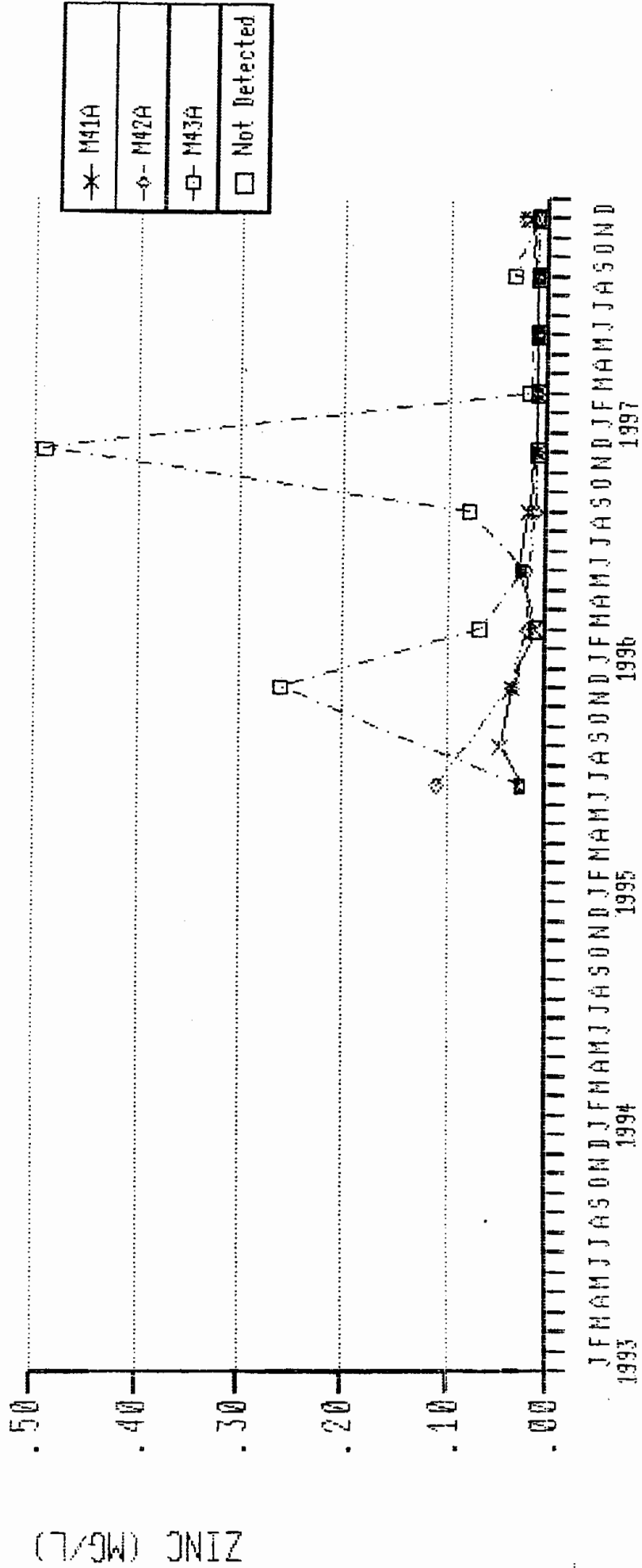


FIGURE 167
PUENTE HILLS LANDFILL
ANTIMONY
BARRIER FOUR MONITORING WELLS

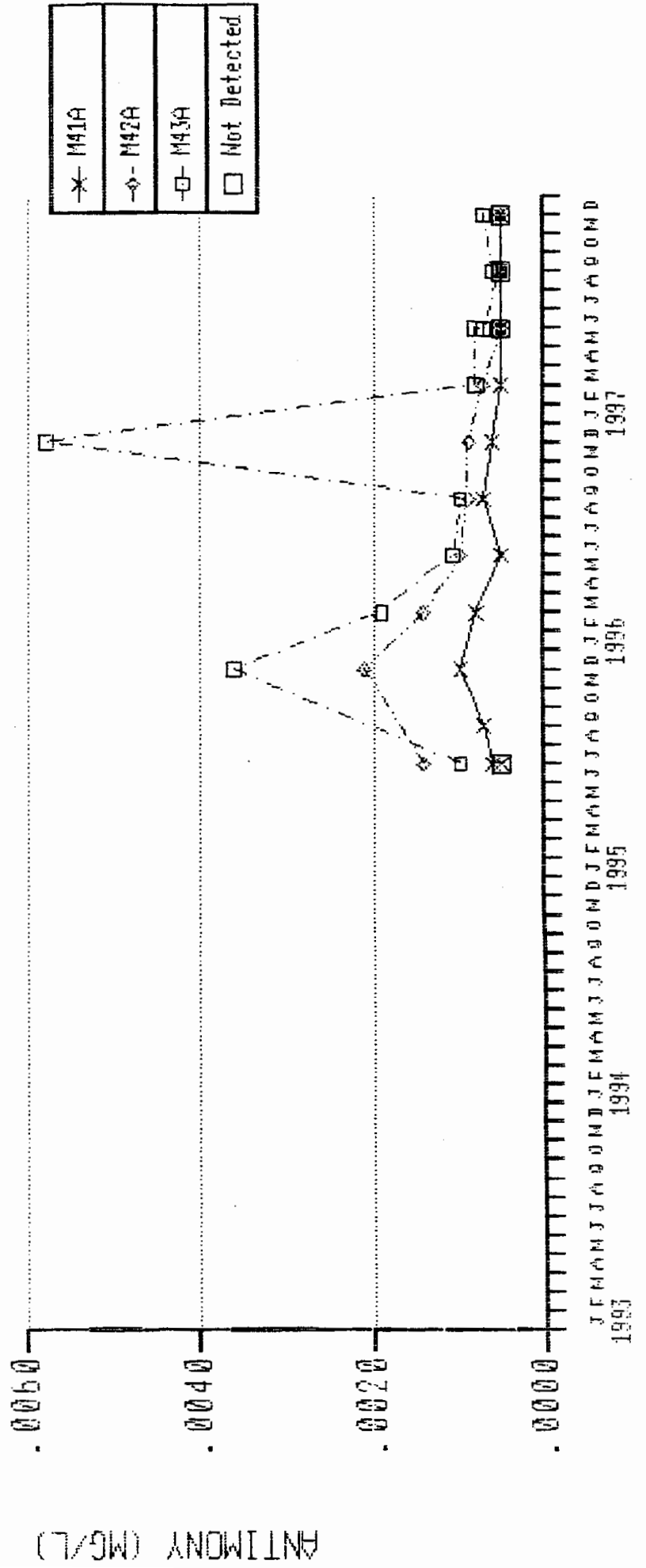


FIGURE 168
PUENTE HILLS LANDFILL
IRON
BARRIER FOUR MONITORING WELLS (FILTERED)

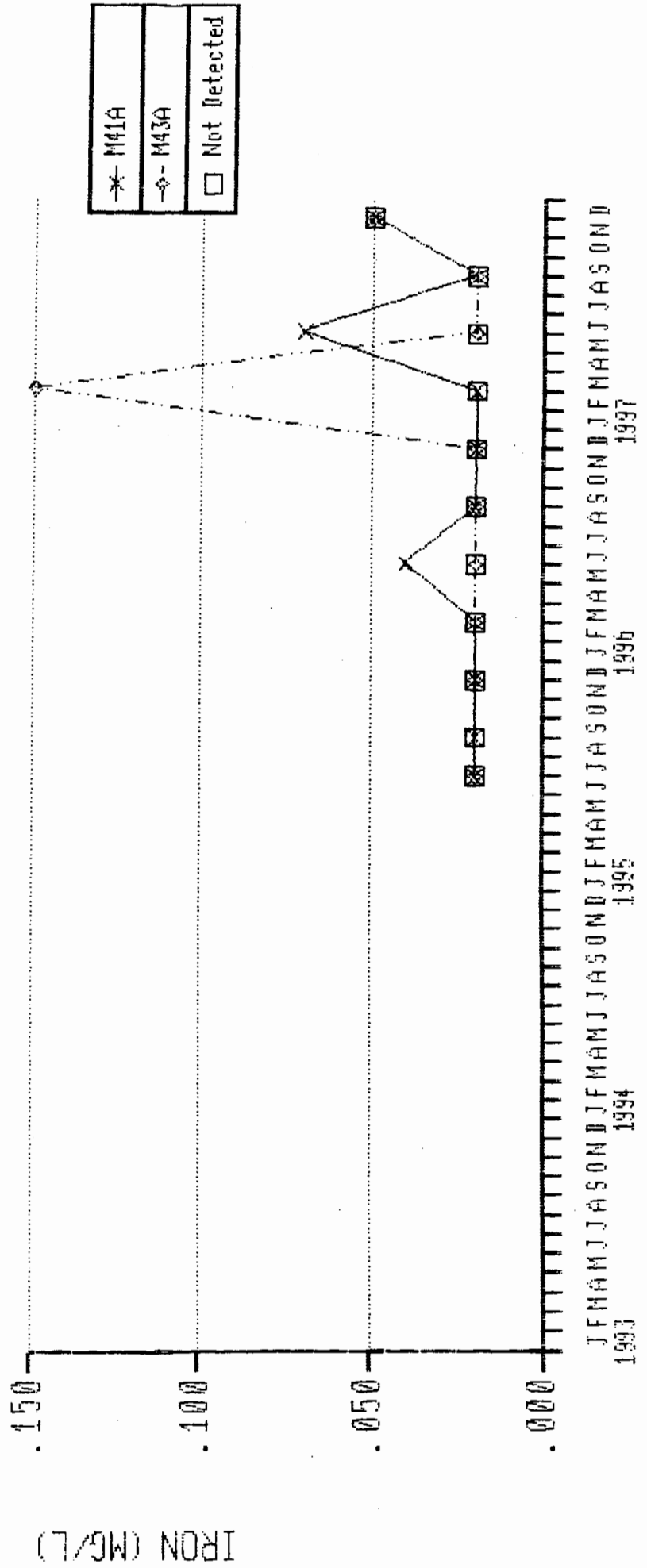


FIGURE 169
PUENTE HILLS LANDFILL
ARSENIC
BARRIER FOUR MONITORING WELLS (FILTERED)

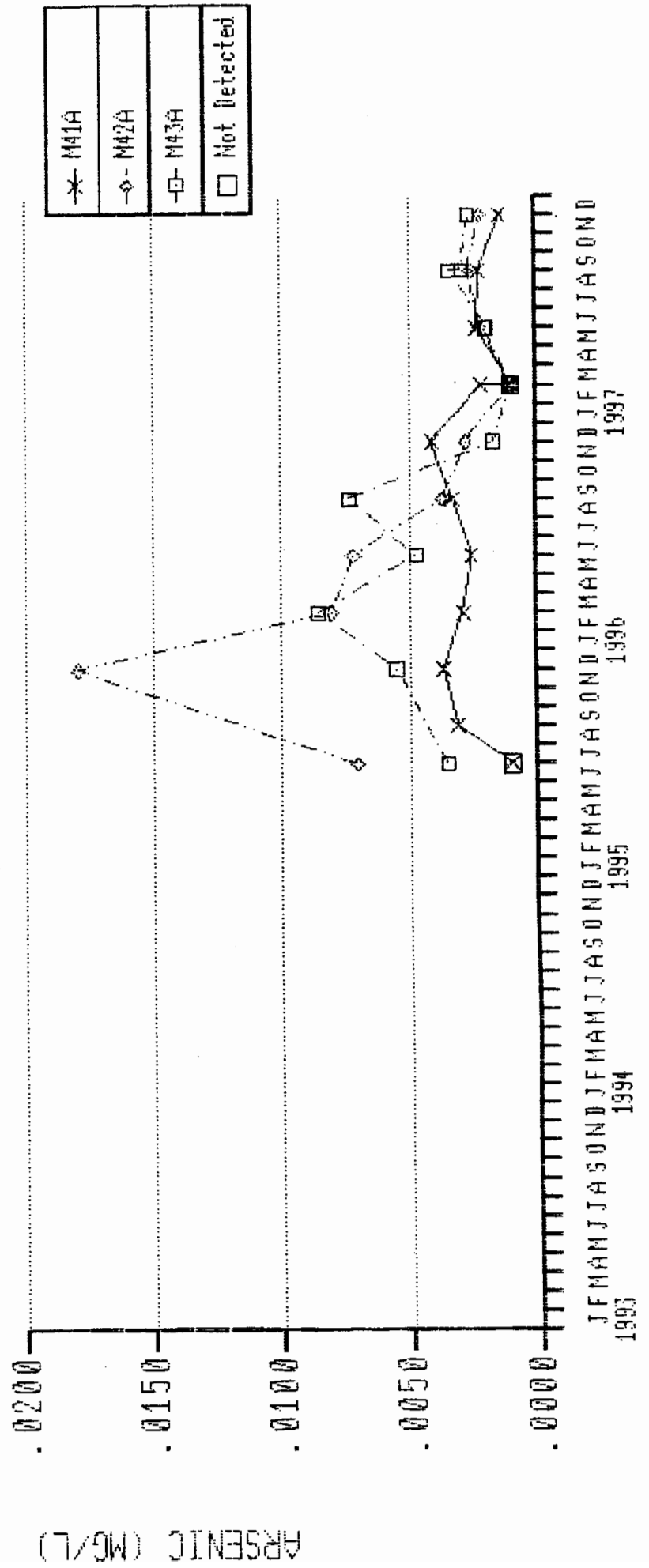


FIGURE 170
PUENTE HILLS LANDFILL
BARIUM
BARRIER FOUR MONITORING WELLS (FILTERED)

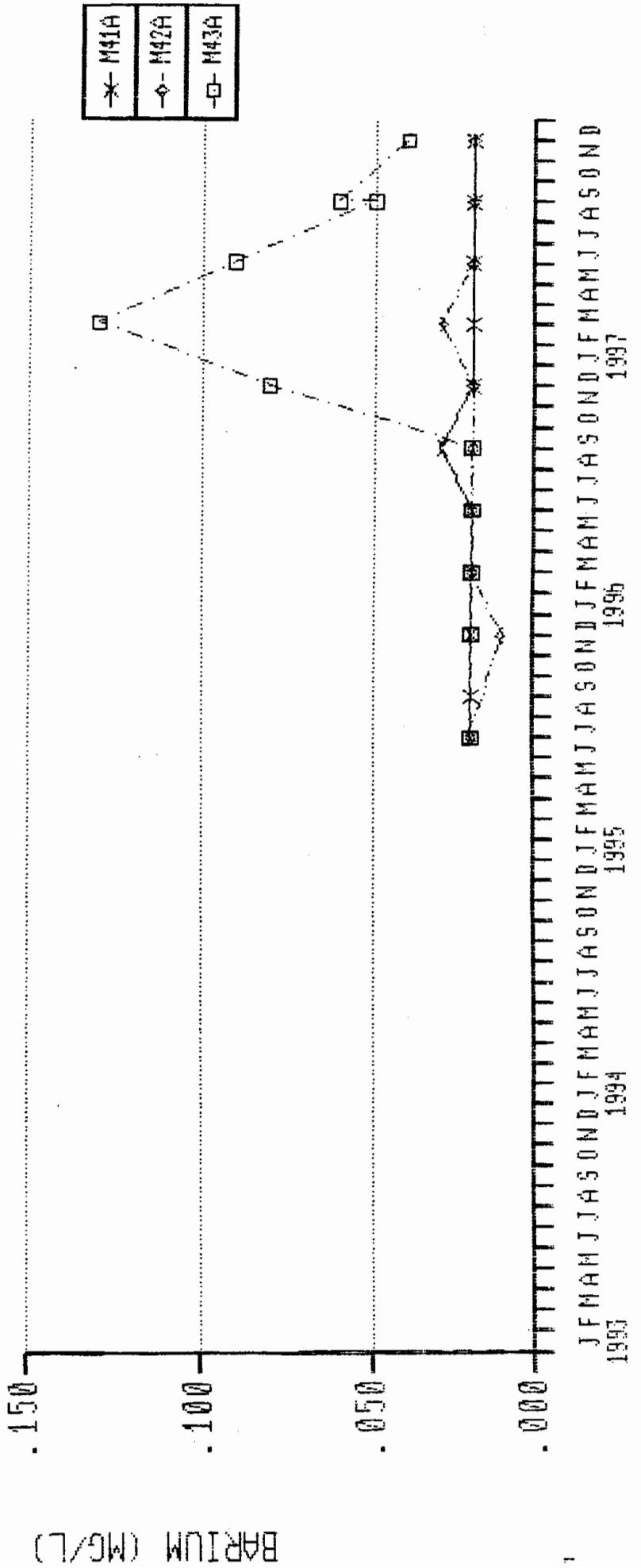
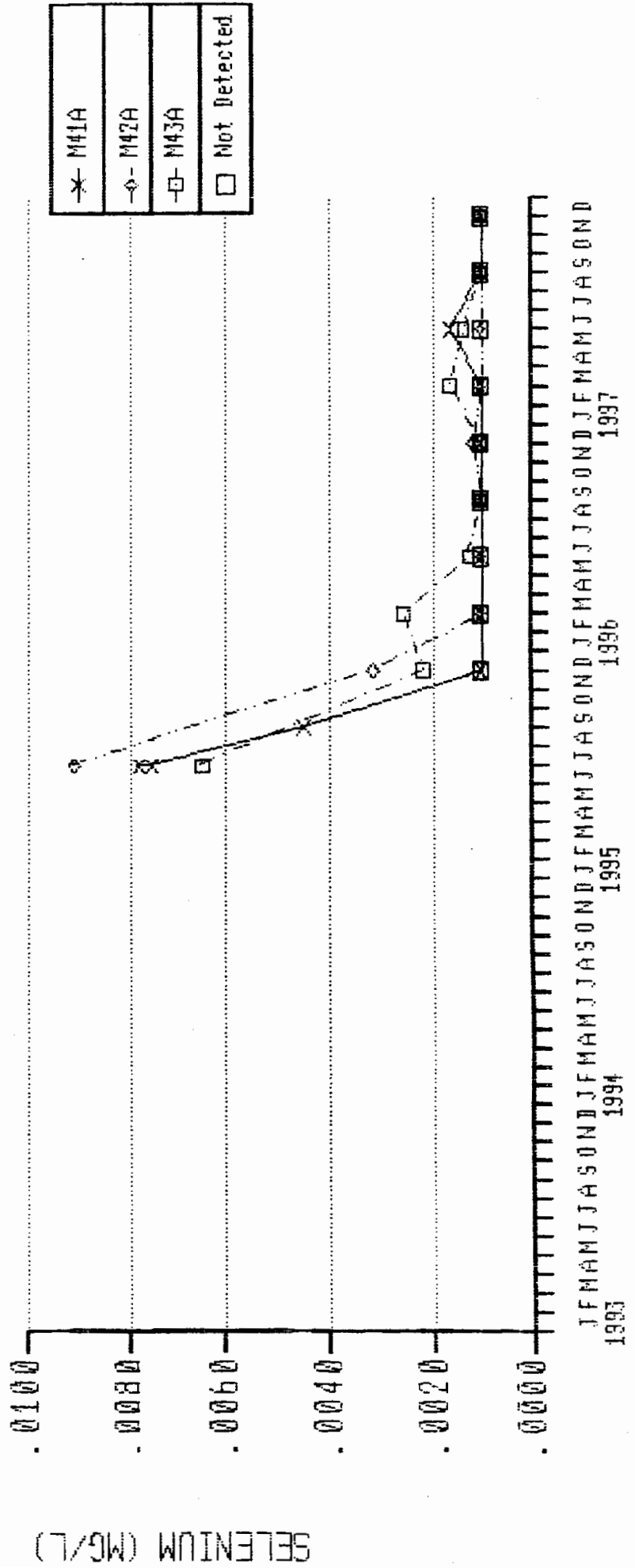


FIGURE 171
PUENTE HILLS LANDFILL
SELENIUM
BARRIER FOUR MONITORING WELLS (FILTERED)



SELENIUM (MG/L)

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 1993 1994 1995 1996 1997

FIGURE 172
 PUENTE HILLS LANDFILL
 ZINC
 BARRIER FOUR MONITORING WELLS (FILTERED)

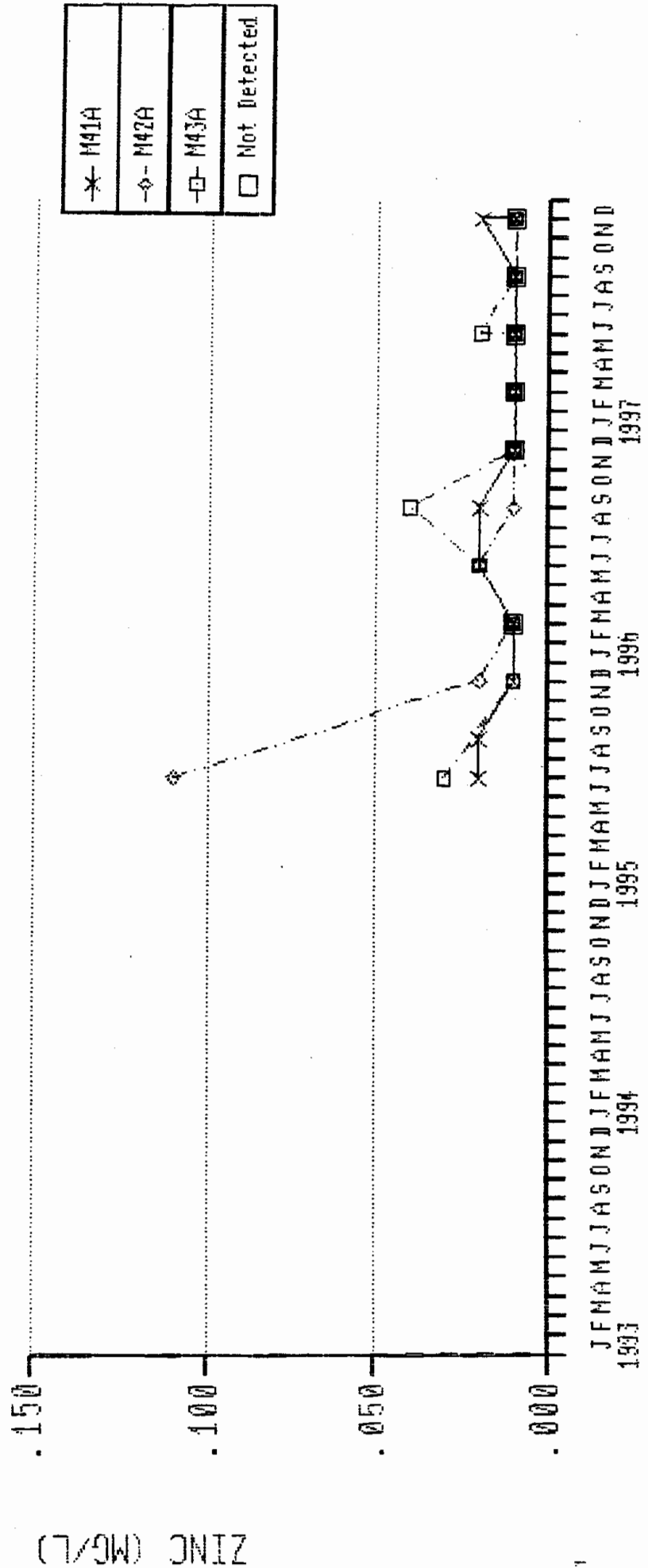
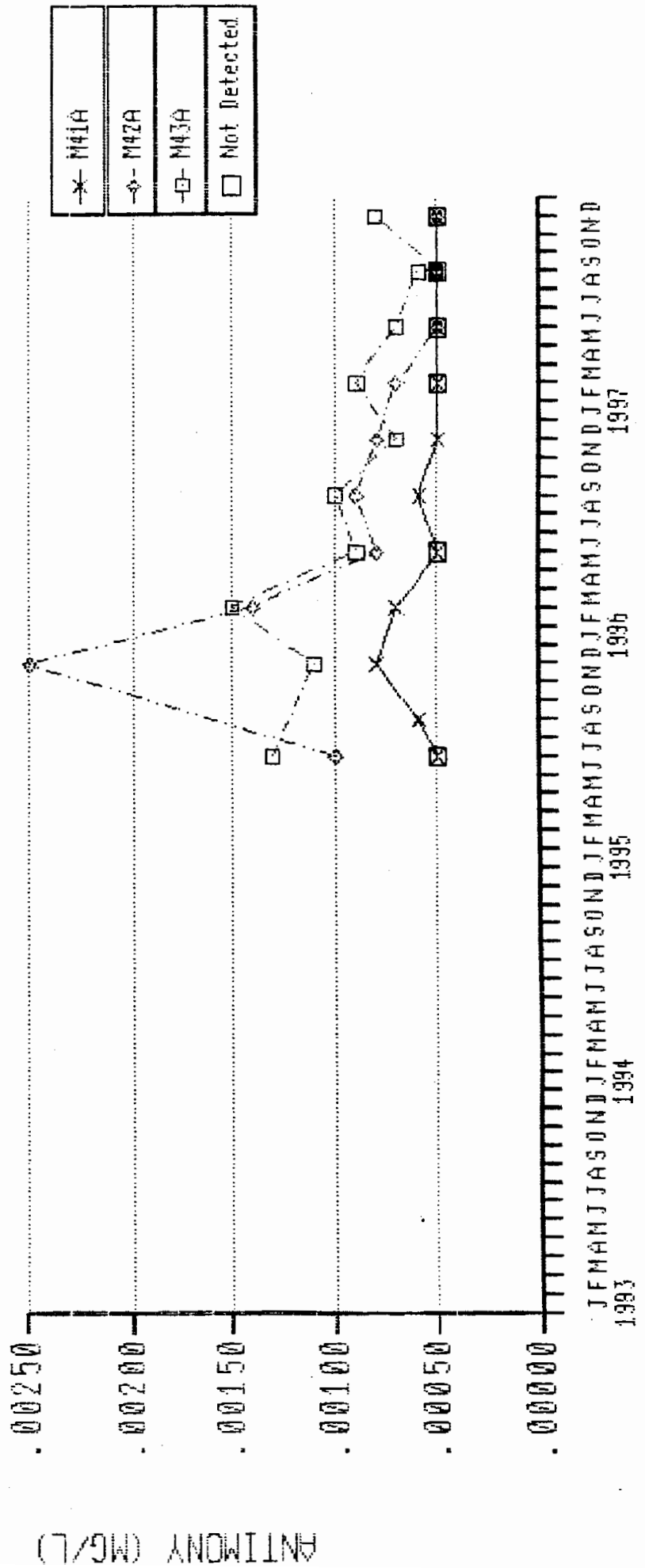


FIGURE 173
PUENTE HILLS LANDFILL
ANTIMONY
BARRIER FOUR MONITORING WELLS (FILTERED)



ANTIMONY (MG/L)

FIGURES 174 - 224
WATER QUALITY DATA GRAPHS
OFFSITE MONITORING WELLS

FIGURE 174
PUENTE HILLS LANDFILL
DEPTH TO WATER
OFFSITE MONITORING WELLS

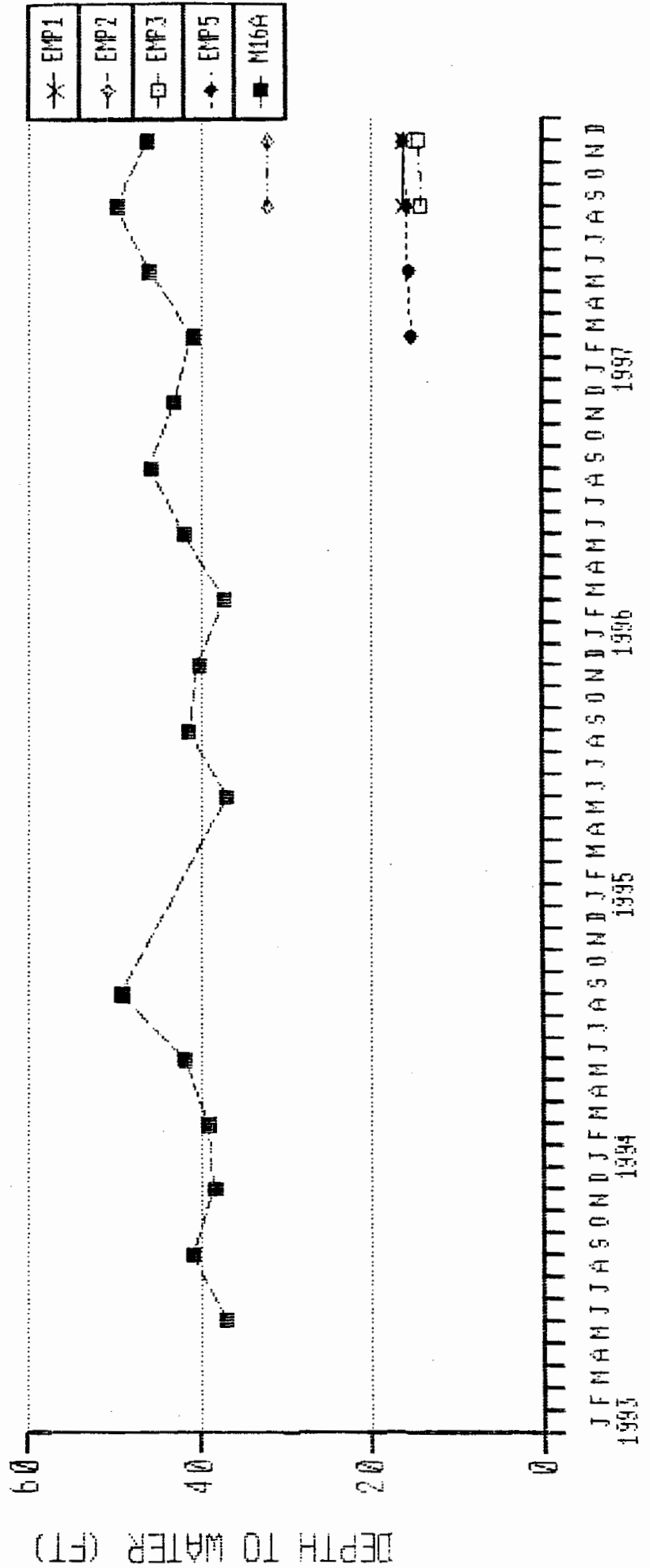
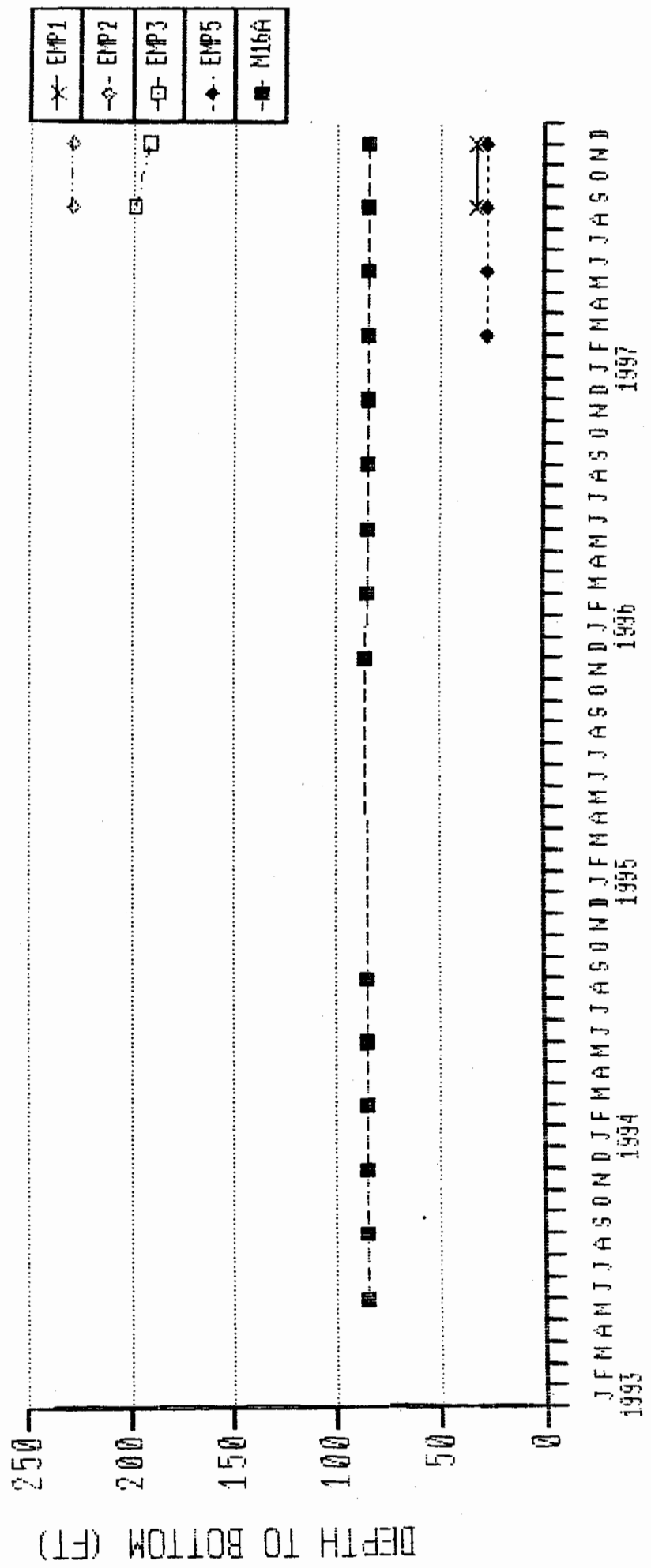


FIGURE 175
PUENTE HILLS LANDFILL
DEPTH TO BOTTOM
OFFSITE MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 176
PUENTE HILLS LANDFILL
PERCENT OXYGEN IN GAS
OFFSITE MONITORING WELLS

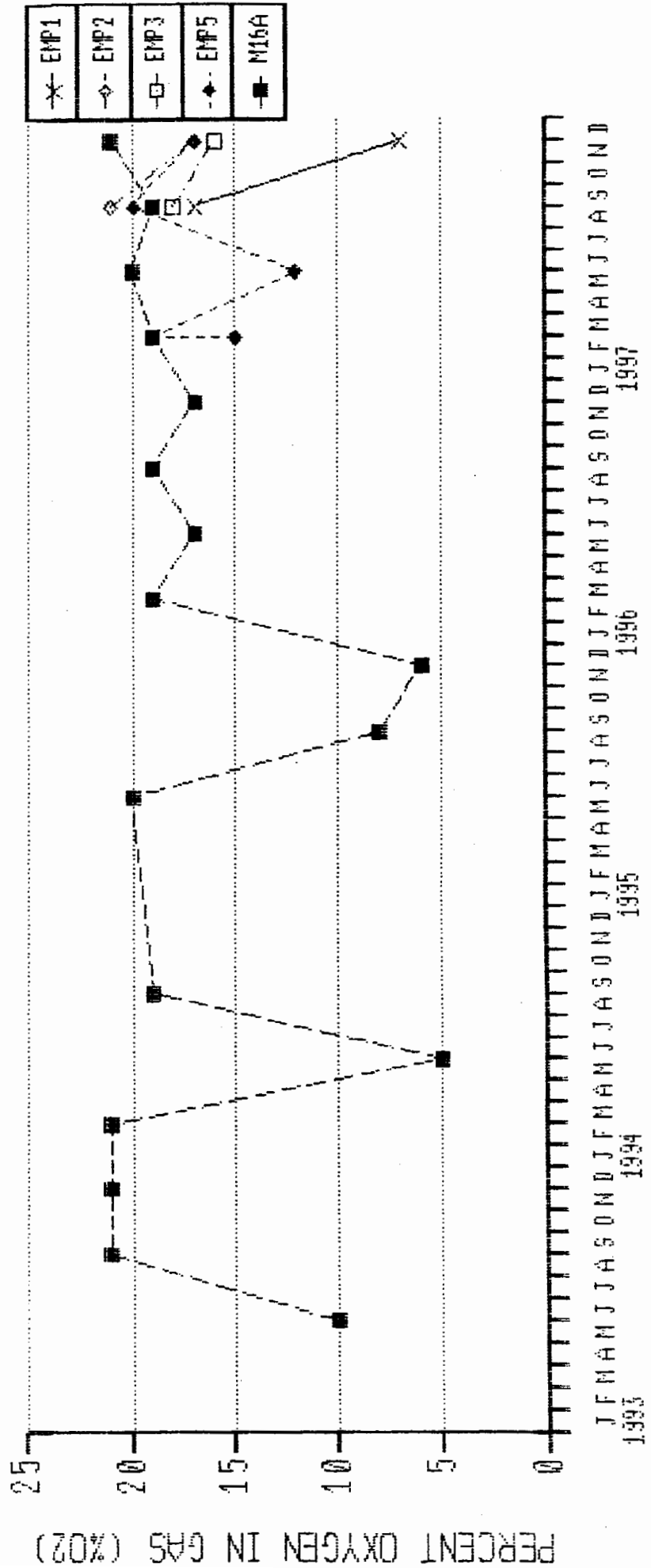


FIGURE 177
 PUENTE HILLS LANDFILL
 FIELD WATER TEMPERATURE
 OFFSITE MONITORING WELLS

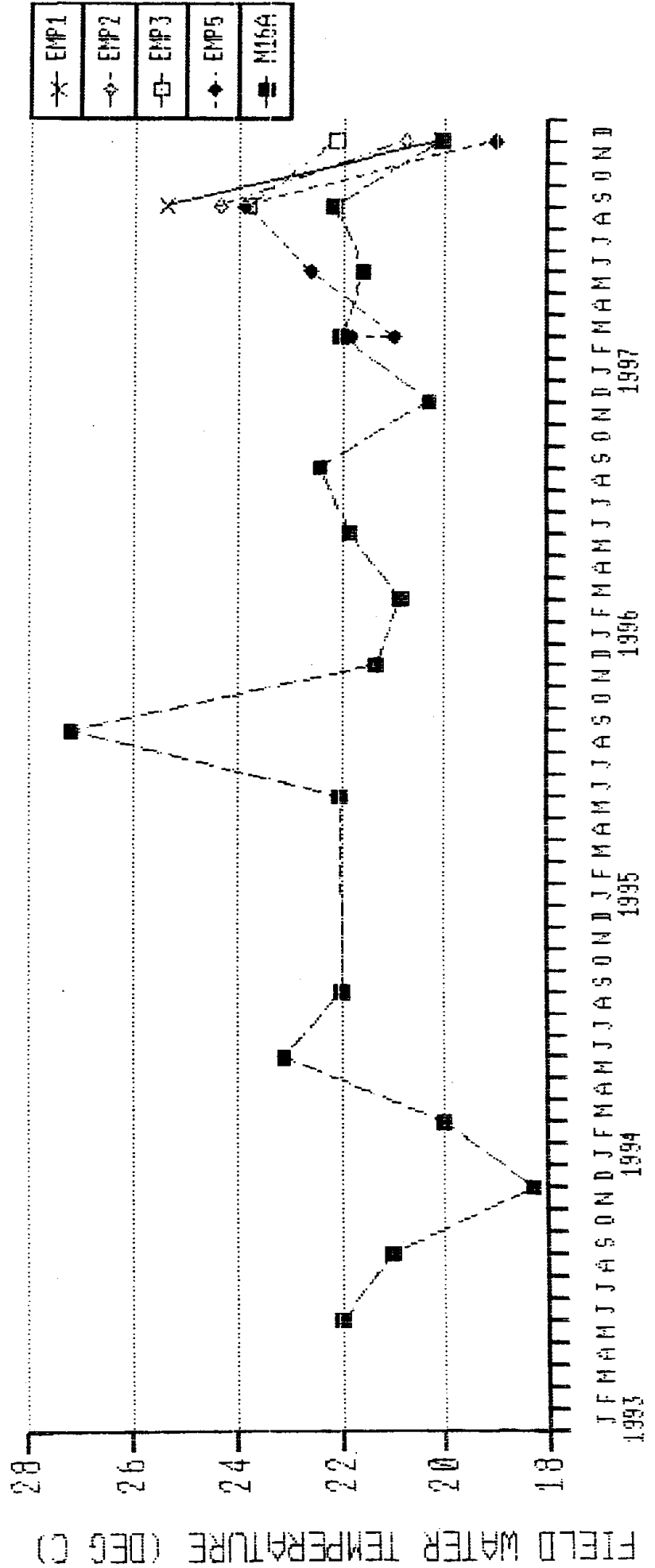


FIGURE 178
PUENTE HILLS LANDFILL
FIELD PH
OFFSITE MONITORING WELLS

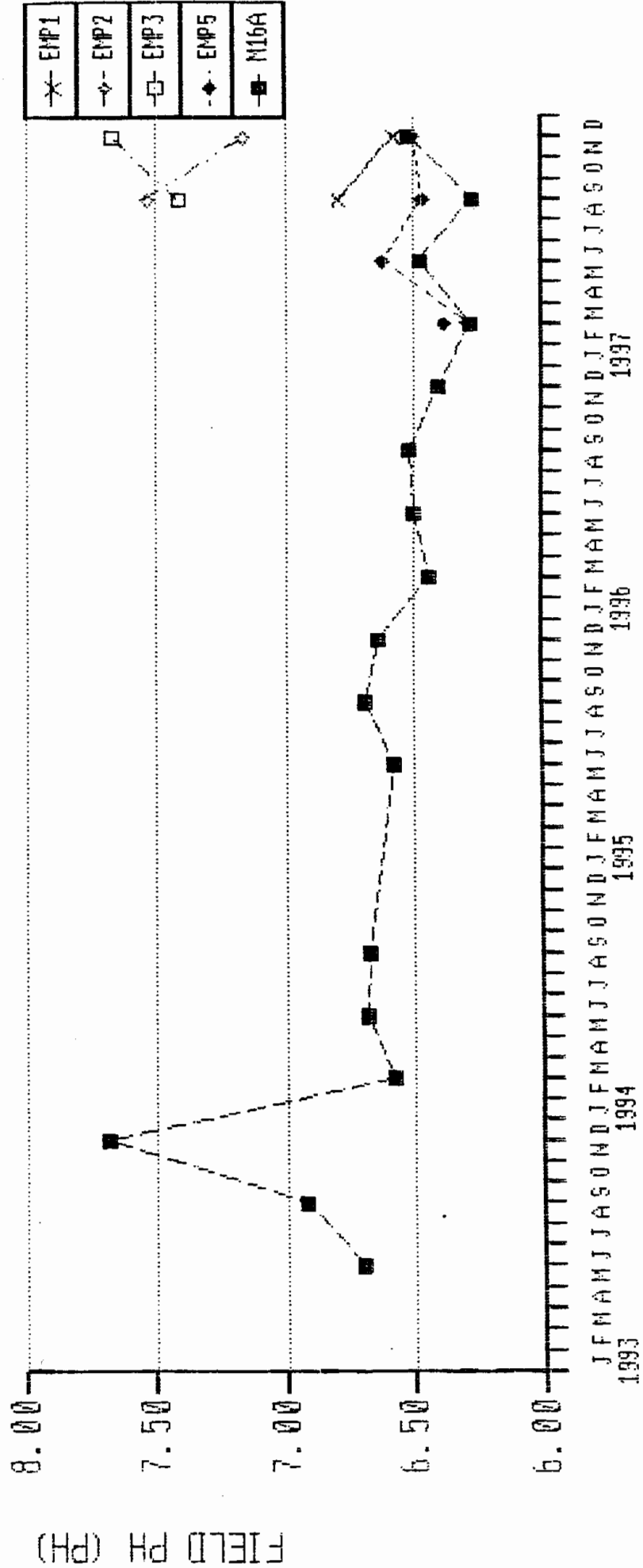


FIGURE 179
PUENTE HILLS LANDFILL
FIELD CONDUCTIVITY
OFFSITE MONITORING WELLS

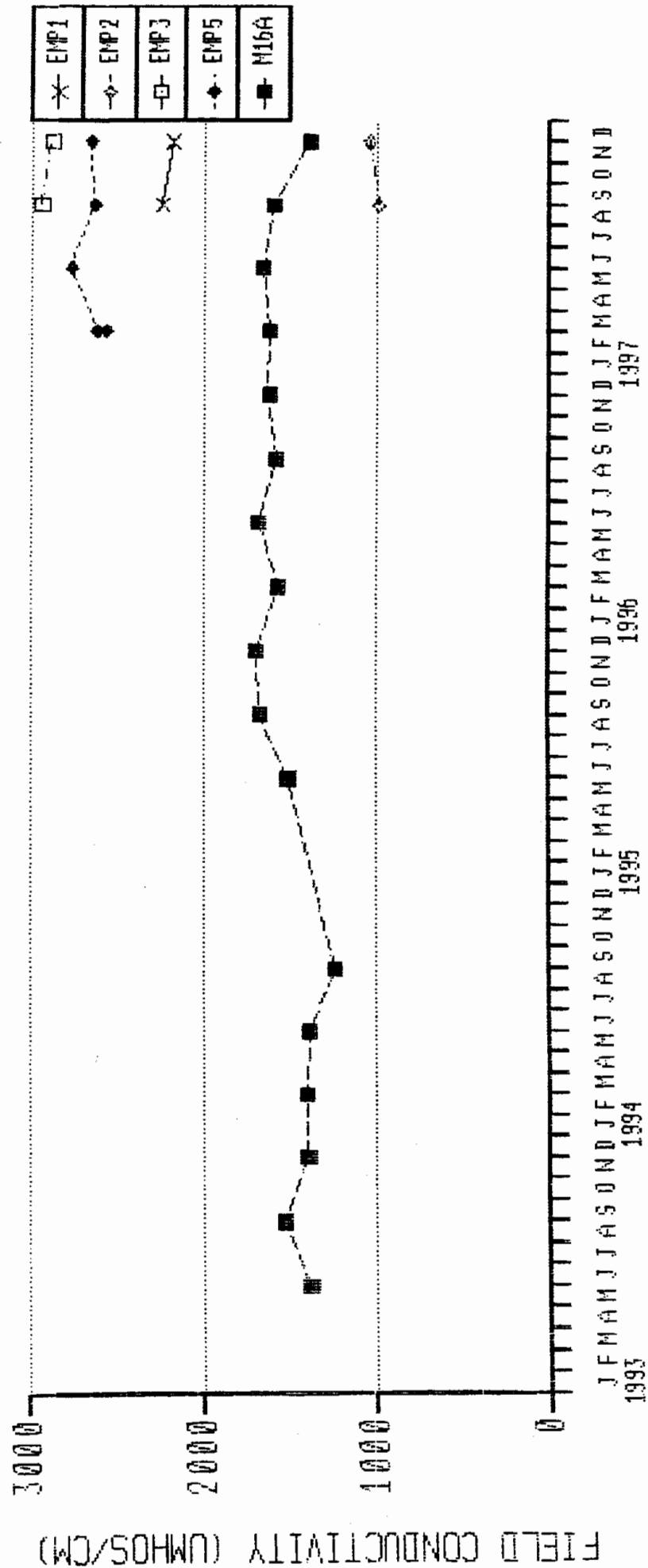


FIGURE 180
 PUENTE HILLS LANDFILL
 FIELD DISSOLVED O₂
 OFFSITE MONITORING WELLS

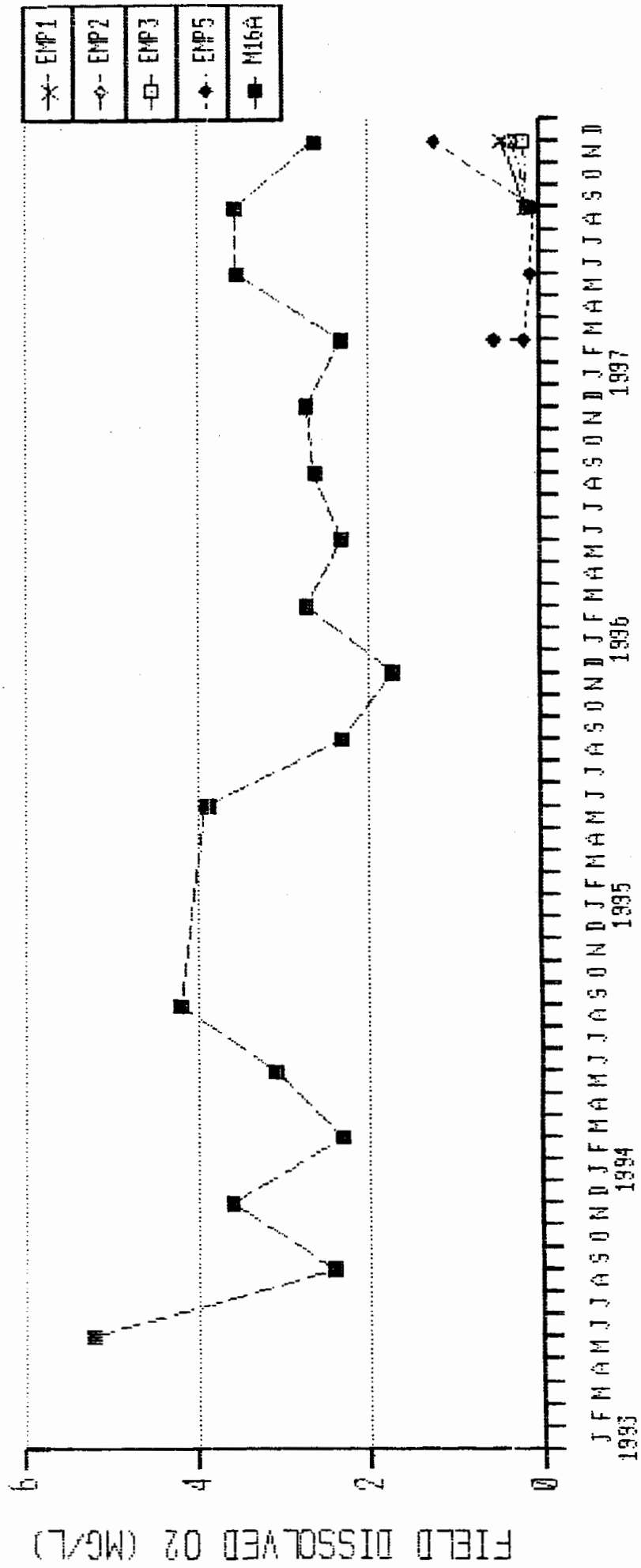


FIGURE 181
 PUENTE HILLS LANDFILL
 FIELD DISSOLVED CO2
 OFFSITE MONITORING WELLS

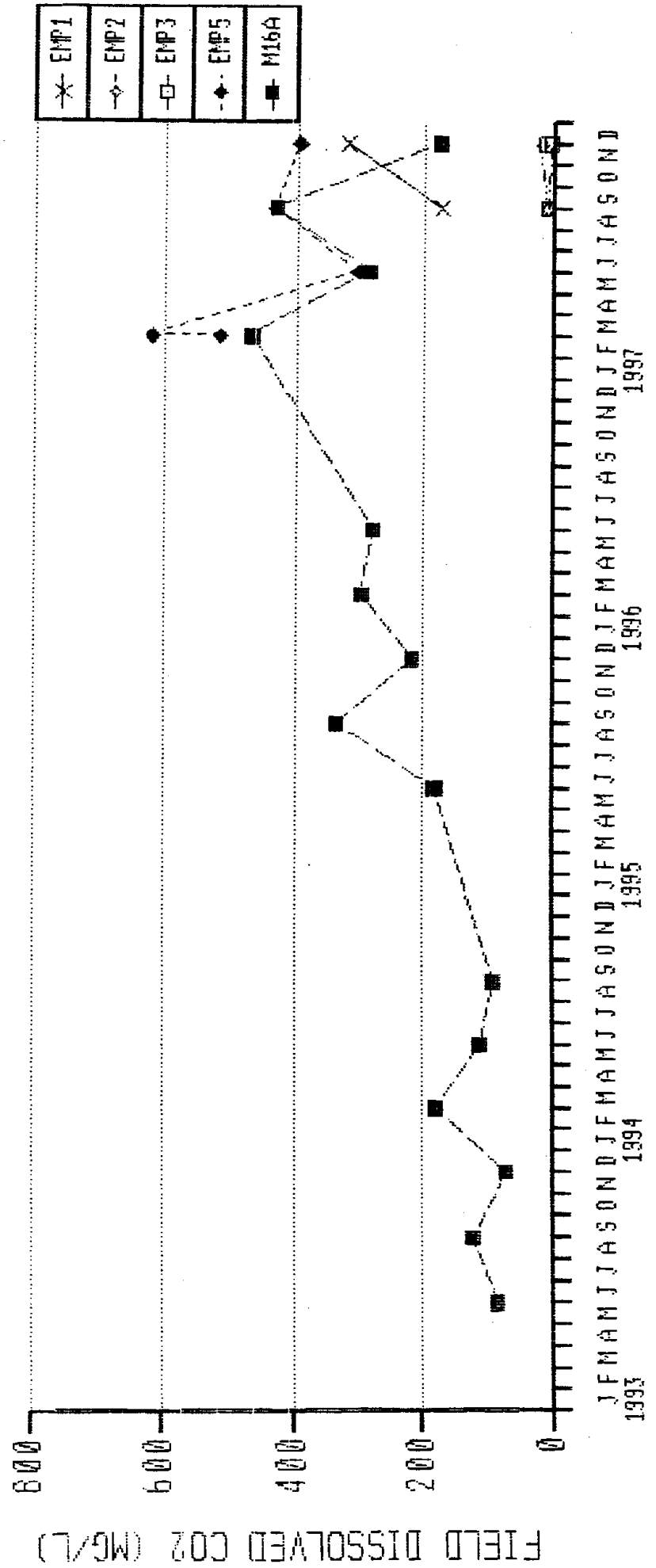


FIGURE 182
 PUENTE HILLS LANDFILL
 PH
 OFFSITE MONITORING WELLS

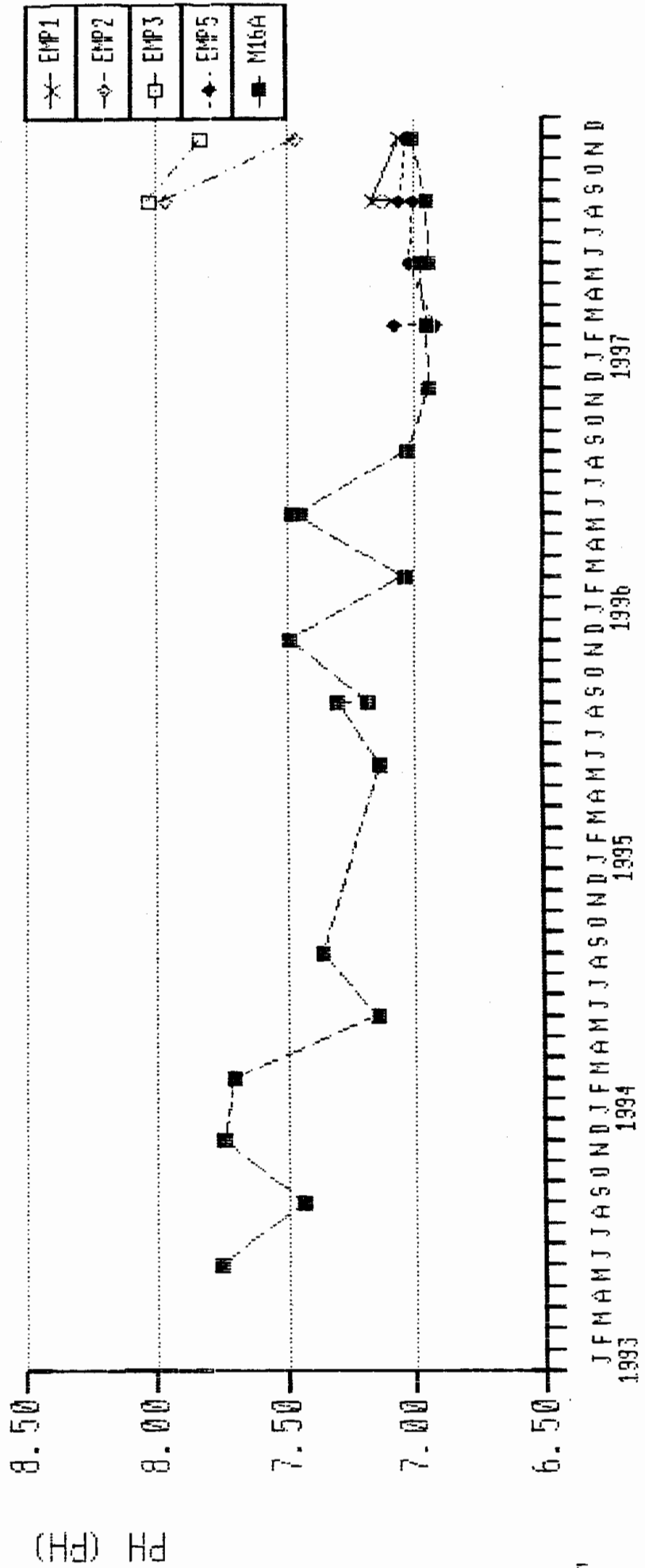


FIGURE 183
 PUENTE HILLS LANDFILL
 CONDUCTIVITY
 OFFSITE MONITORING WELLS

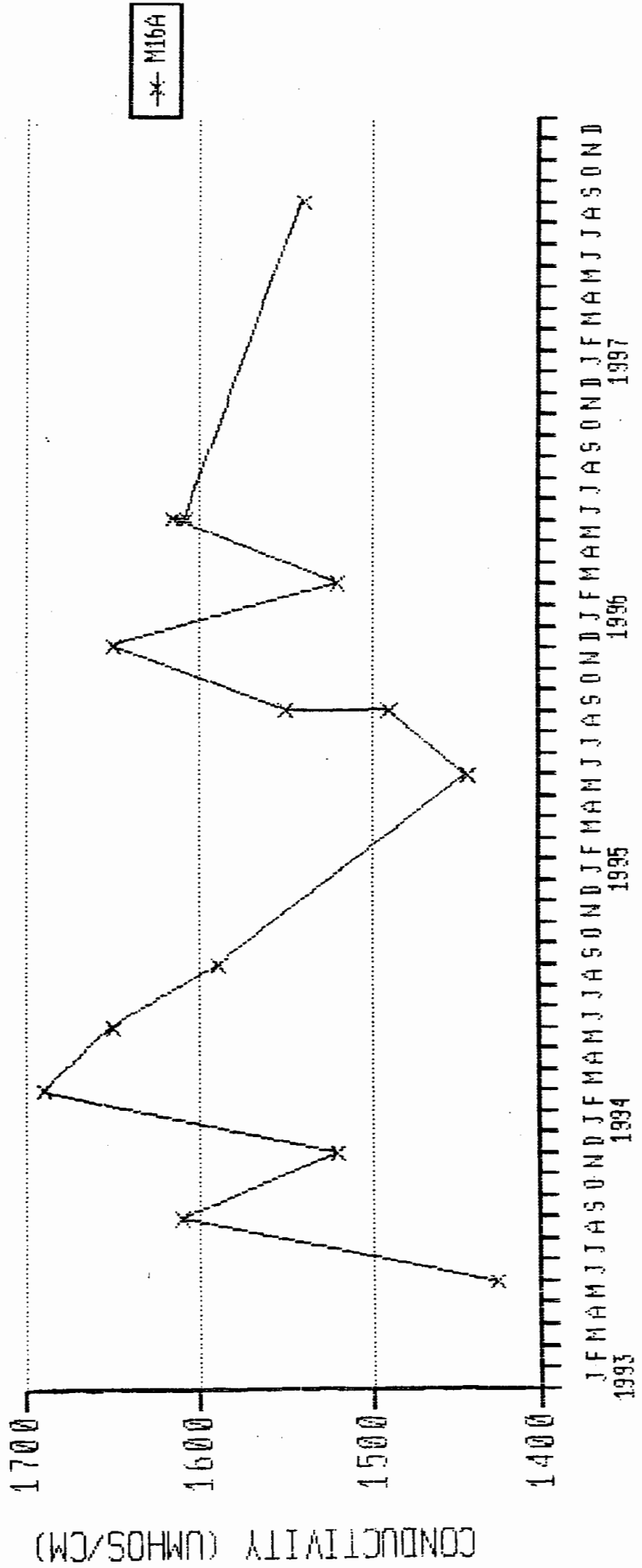
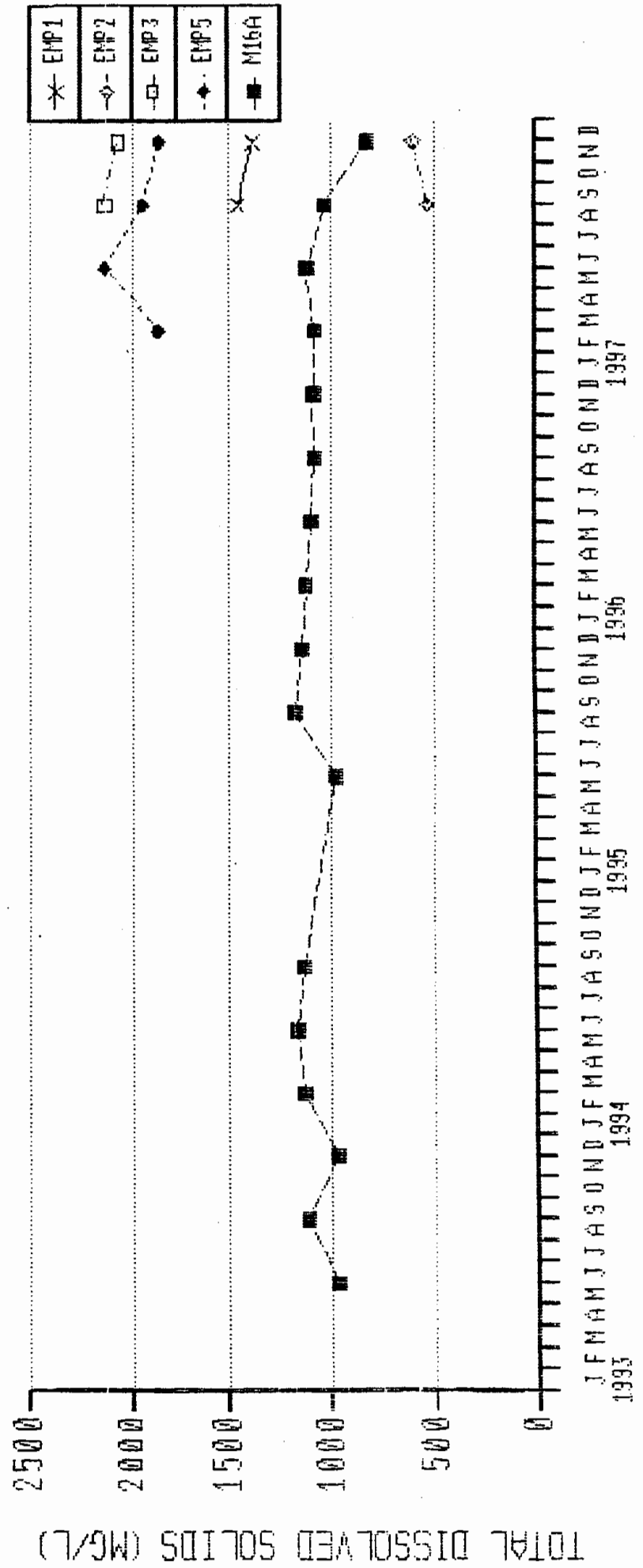


FIGURE 184
PUENTE HILLS LANDFILL
TOTAL DISSOLVED SOLIDS
OFFSITE MONITORING WELLS



TOTAL DISSOLVED SOLIDS (MG/L)

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FIGURE 185
PUENTE HILLS LANDFILL
TOTAL HARDNESS
OFFSITE MONITORING WELLS

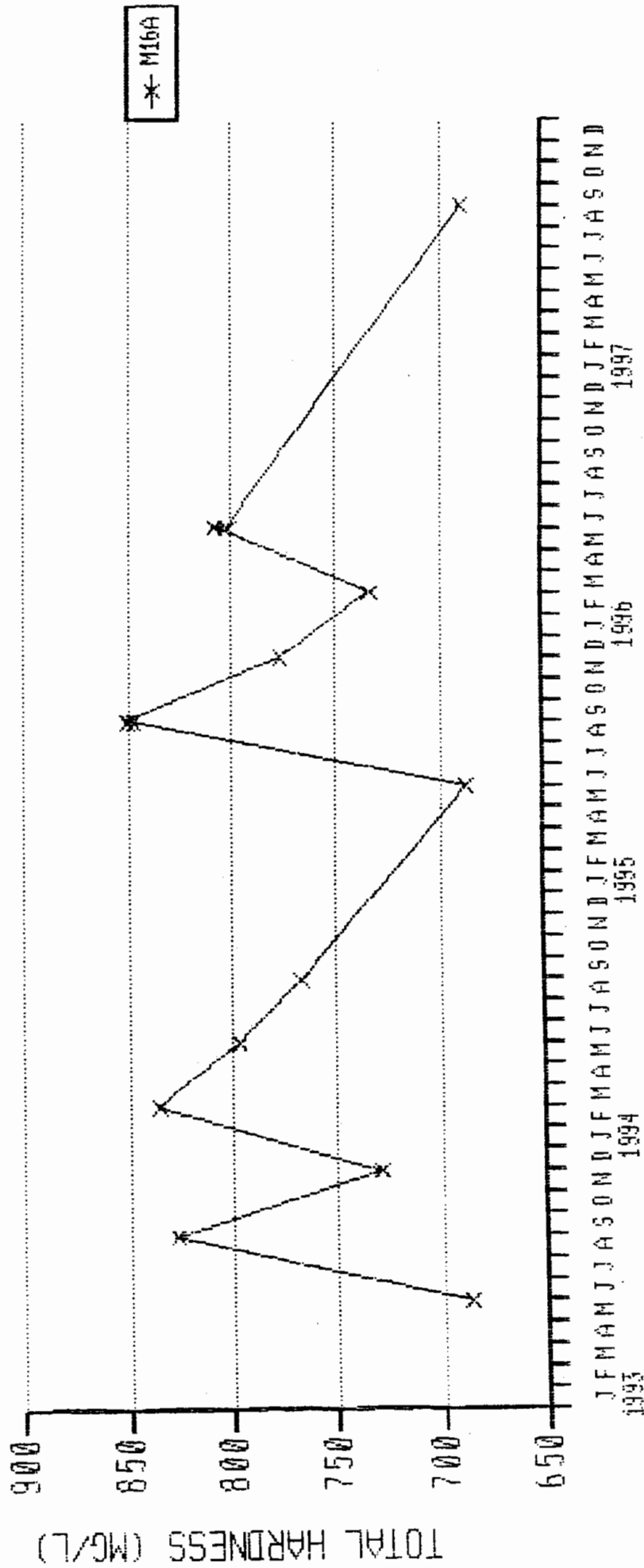


FIGURE 186
 PUENTE HILLS LANDFILL
 BORON
 OFFSITE MONITORING WELLS

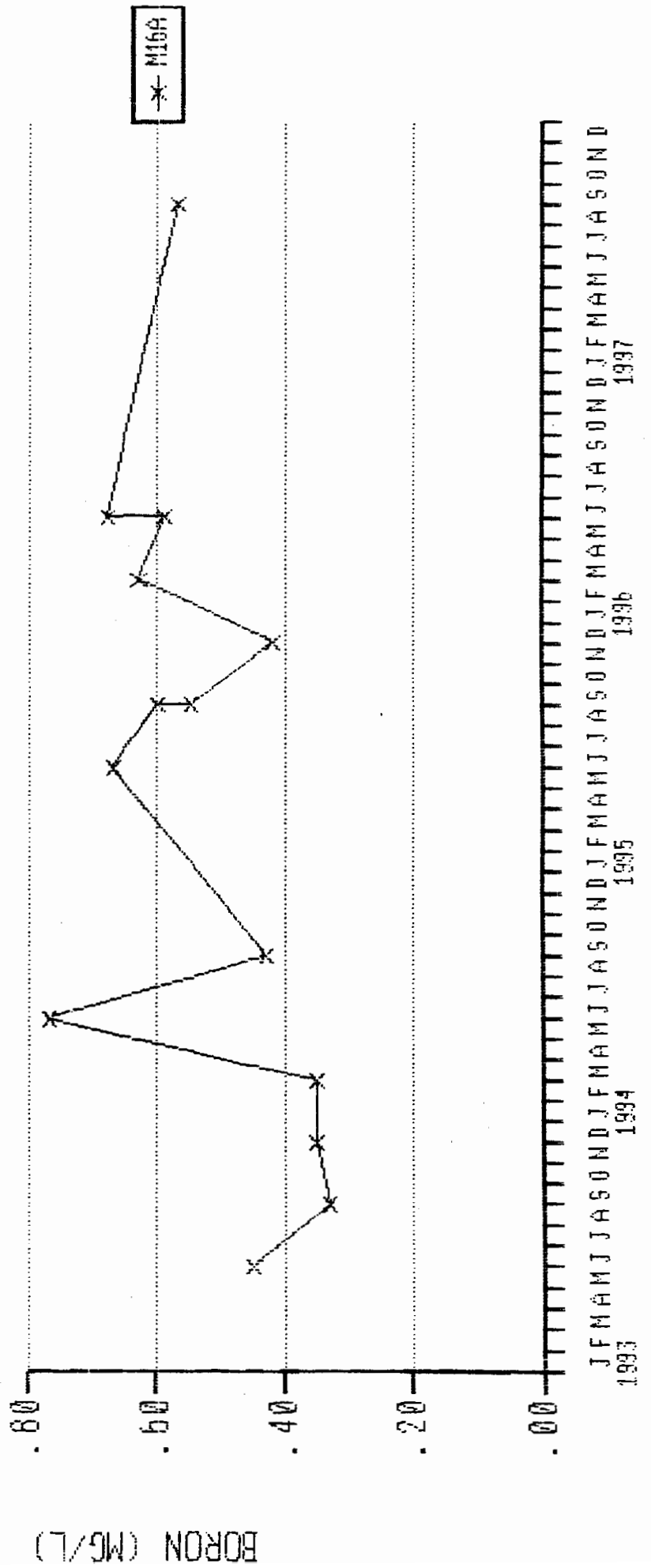


FIGURE 187
PUENTE HILLS LANDFILL
NITRATE NITROGEN
OFFSITE MONITORING WELLS

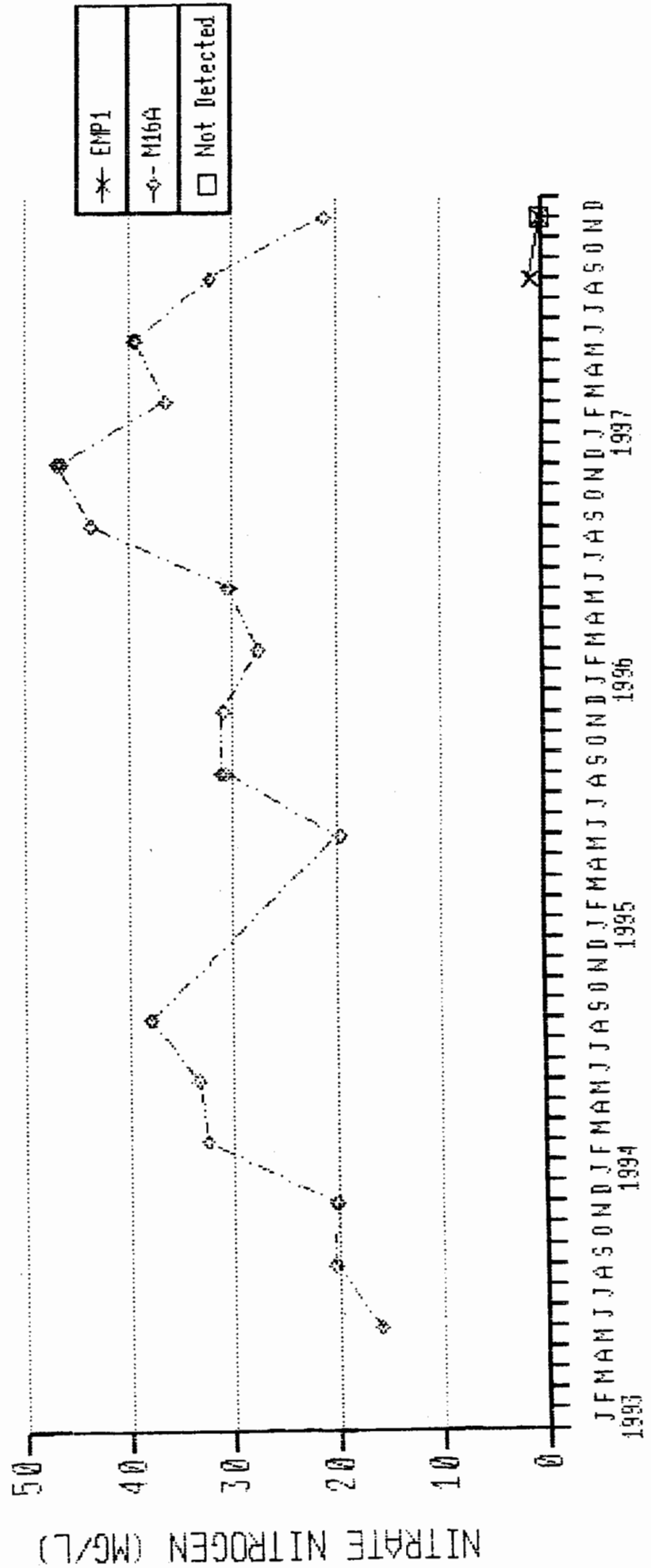


FIGURE 188
PUENTE HILLS LANDFILL
SULFATE
OFFSITE MONITORING WELLS

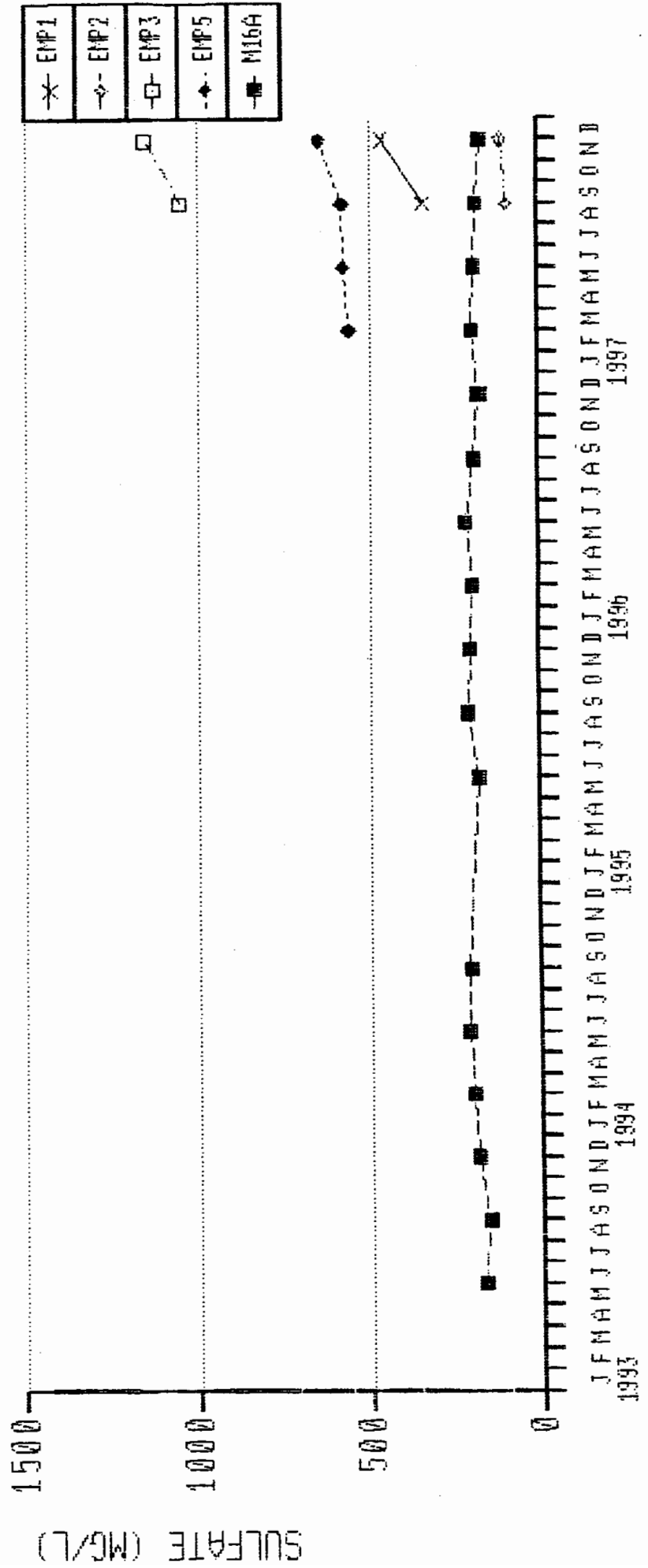
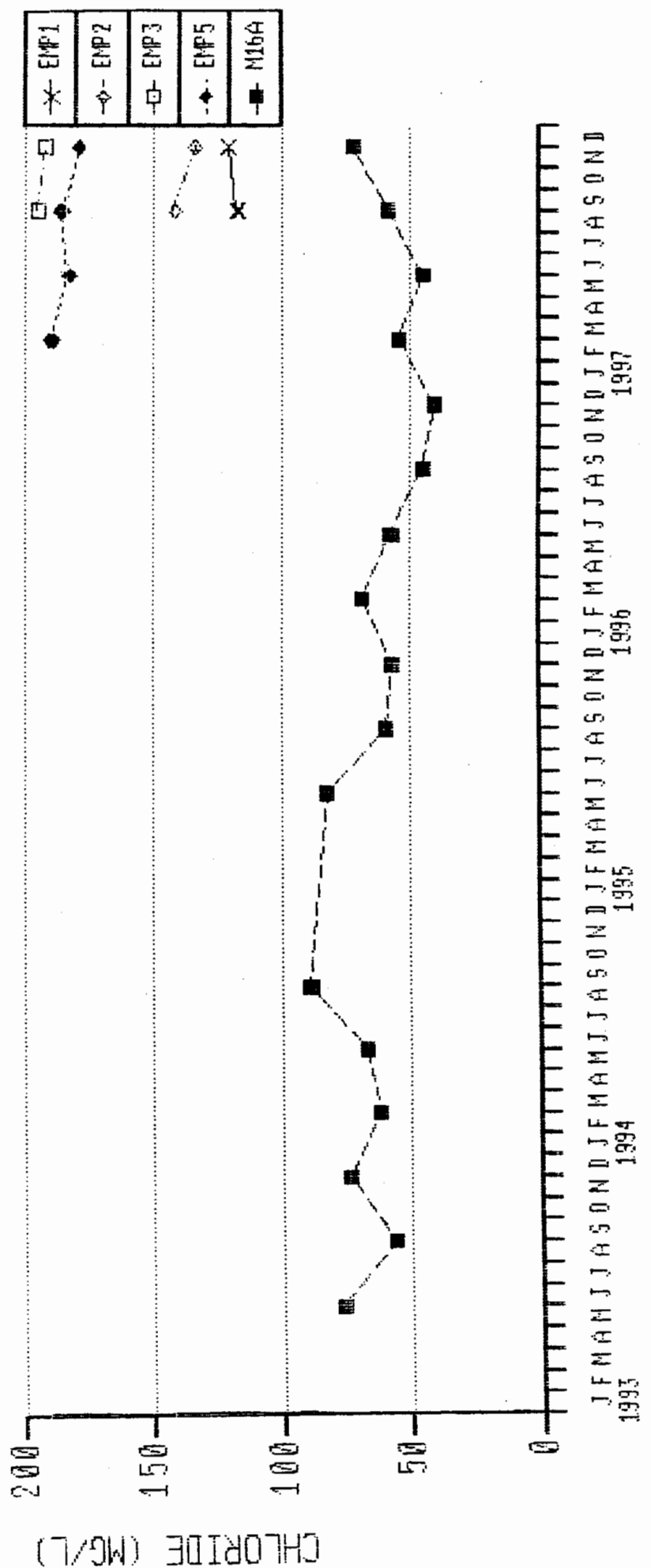


FIGURE 189
PUENTE HILLS LANDFILL
CHLORIDE
OFFSITE MONITORING WELLS



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 1993 1994 1995 1996 1997

FIGURE 190
PUENTE HILLS LANDFILL
TOTAL ALKALINITY
OFFSITE MONITORING WELLS

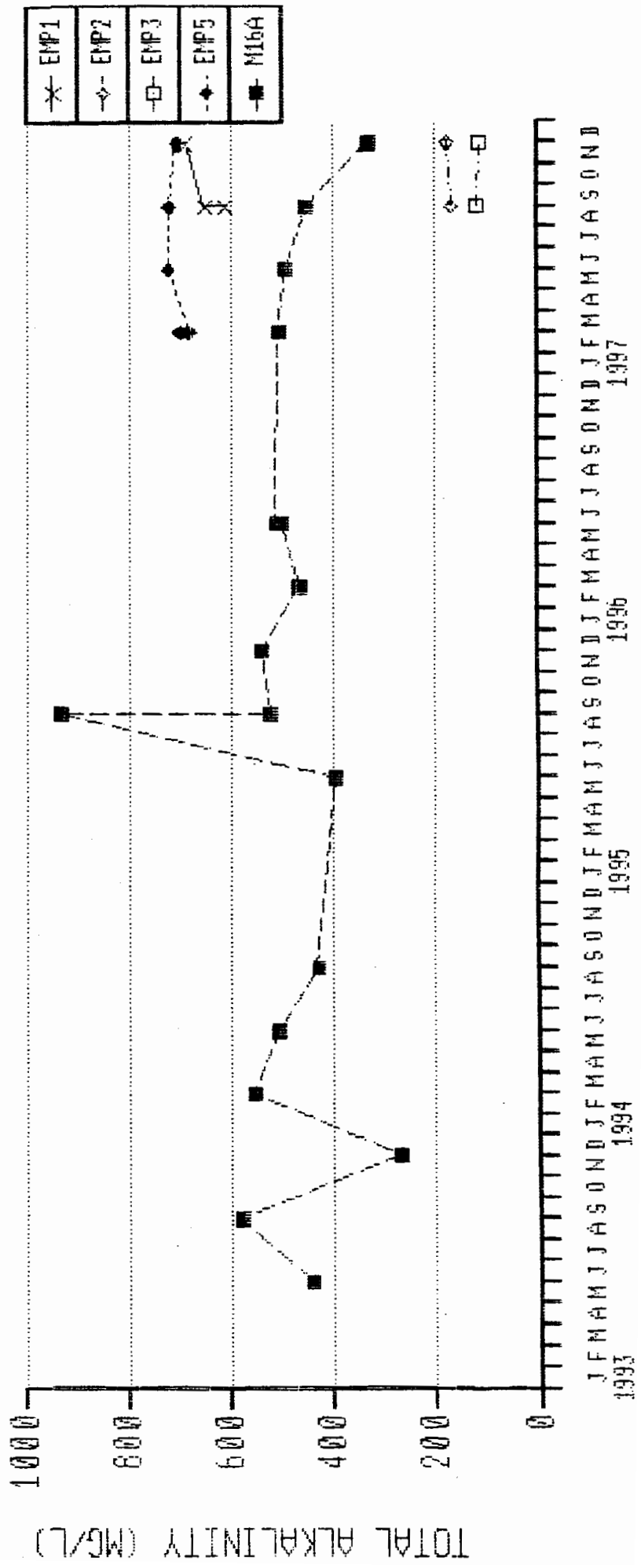


FIGURE 191
PUENTE HILLS LANDFILL
FLUORIDE
OFFSITE MONITORING WELLS

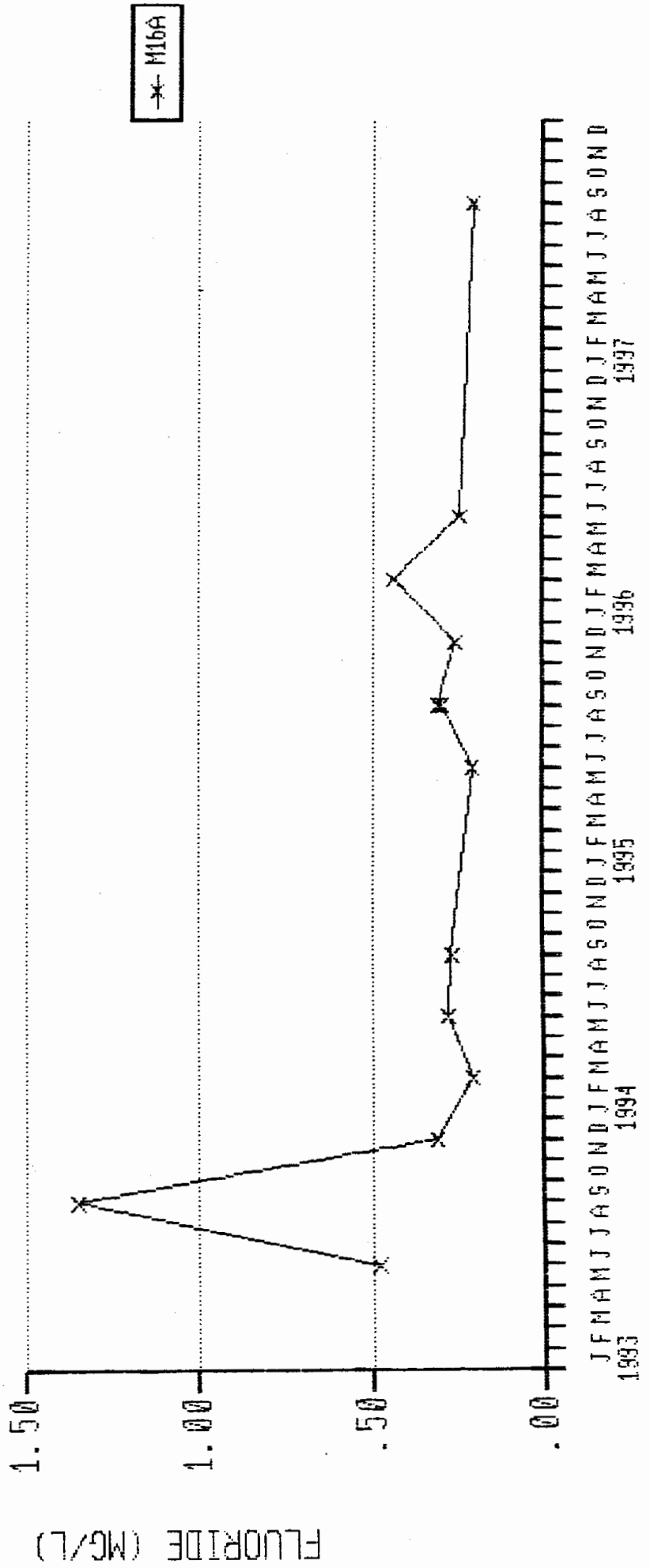


FIGURE 192
PUENTE HILLS LANDFILL
BICARBONATE ALKALINITY
OFFSITE MONITORING WELLS

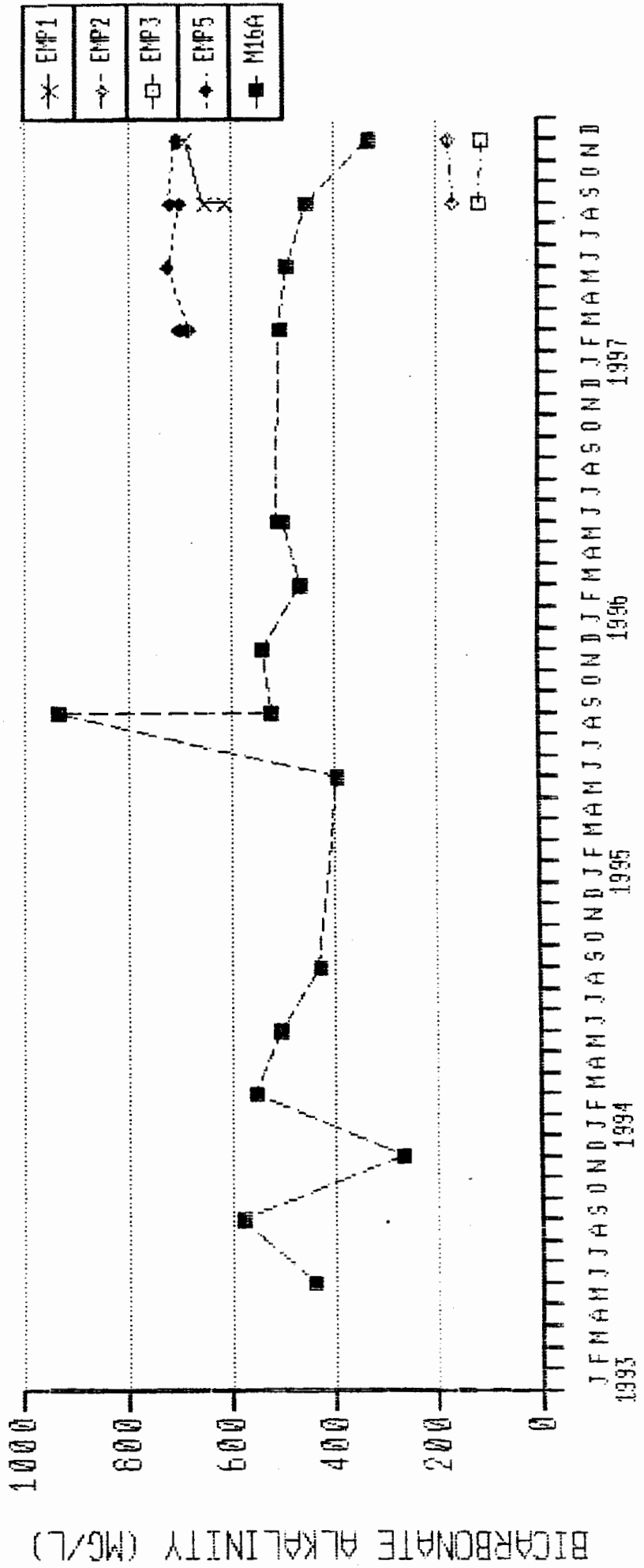


FIGURE 193
PUENTE HILLS LANDFILL
CALCIUM-HARDNESS
OFFSITE MONITORING WELLS

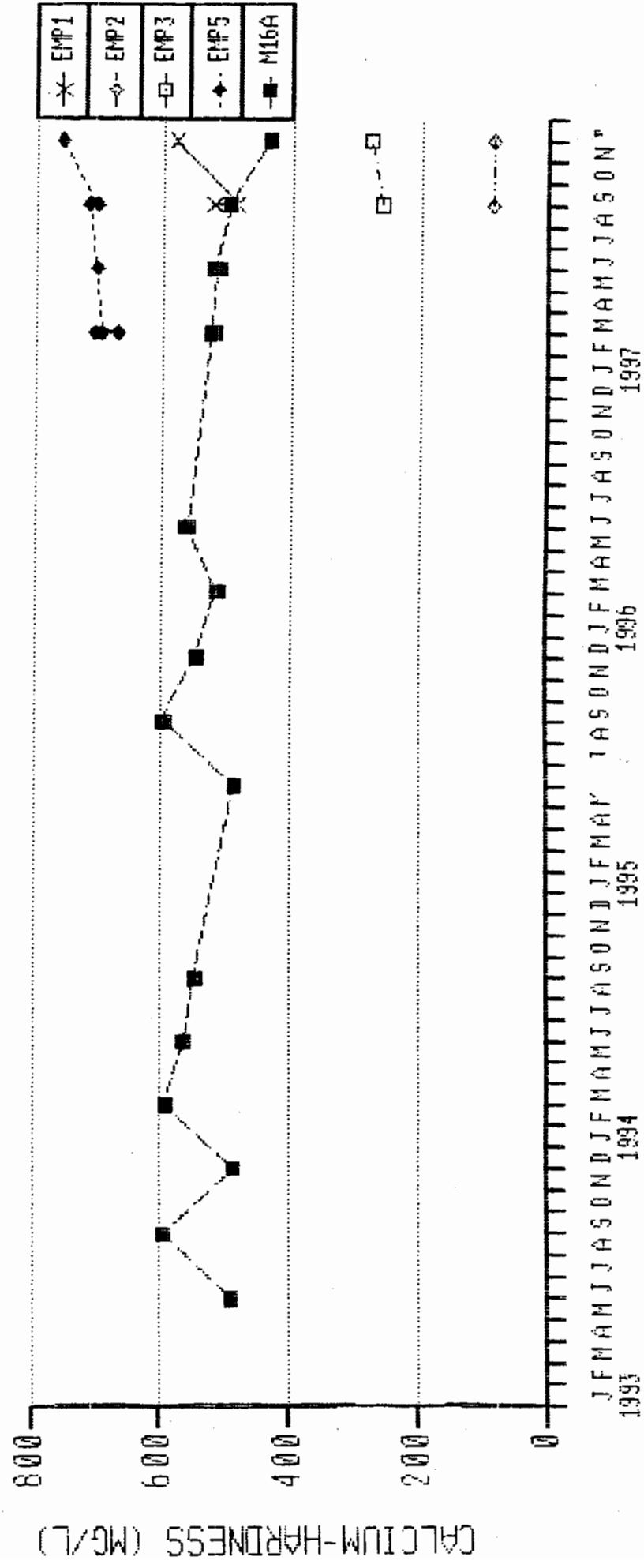
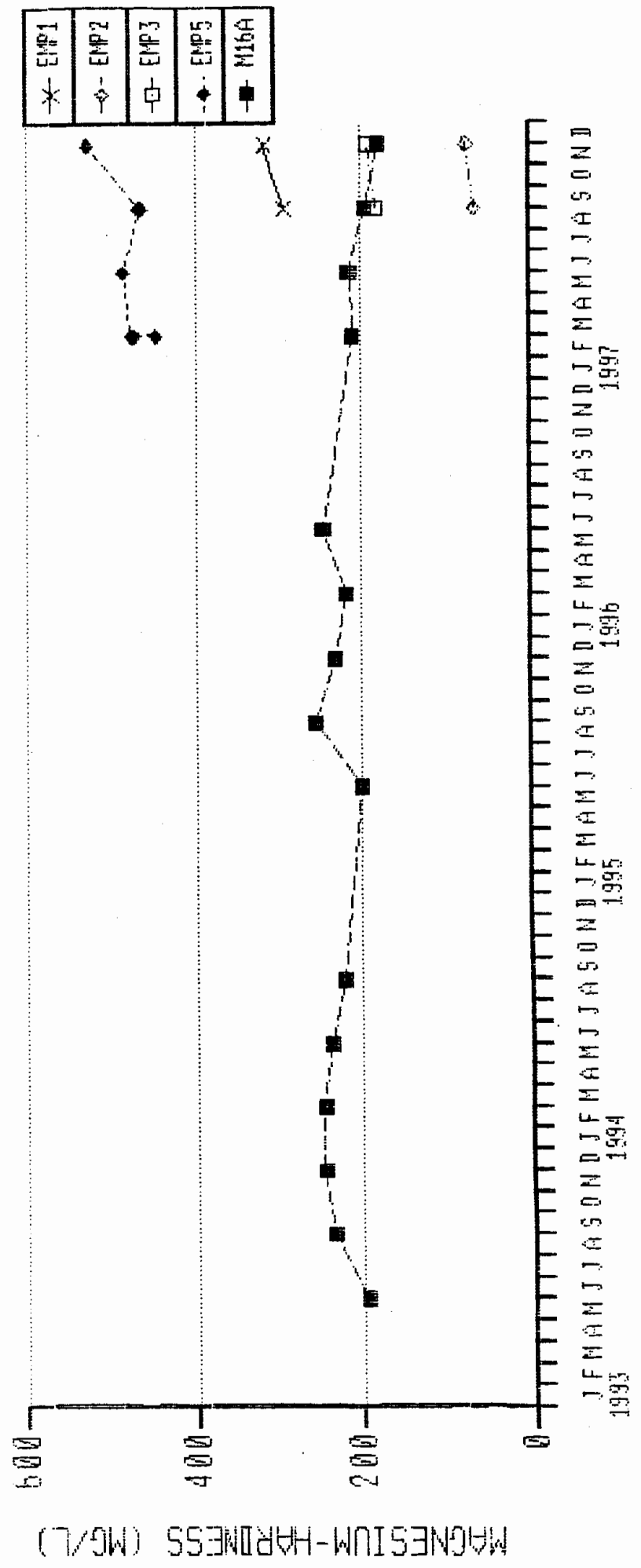
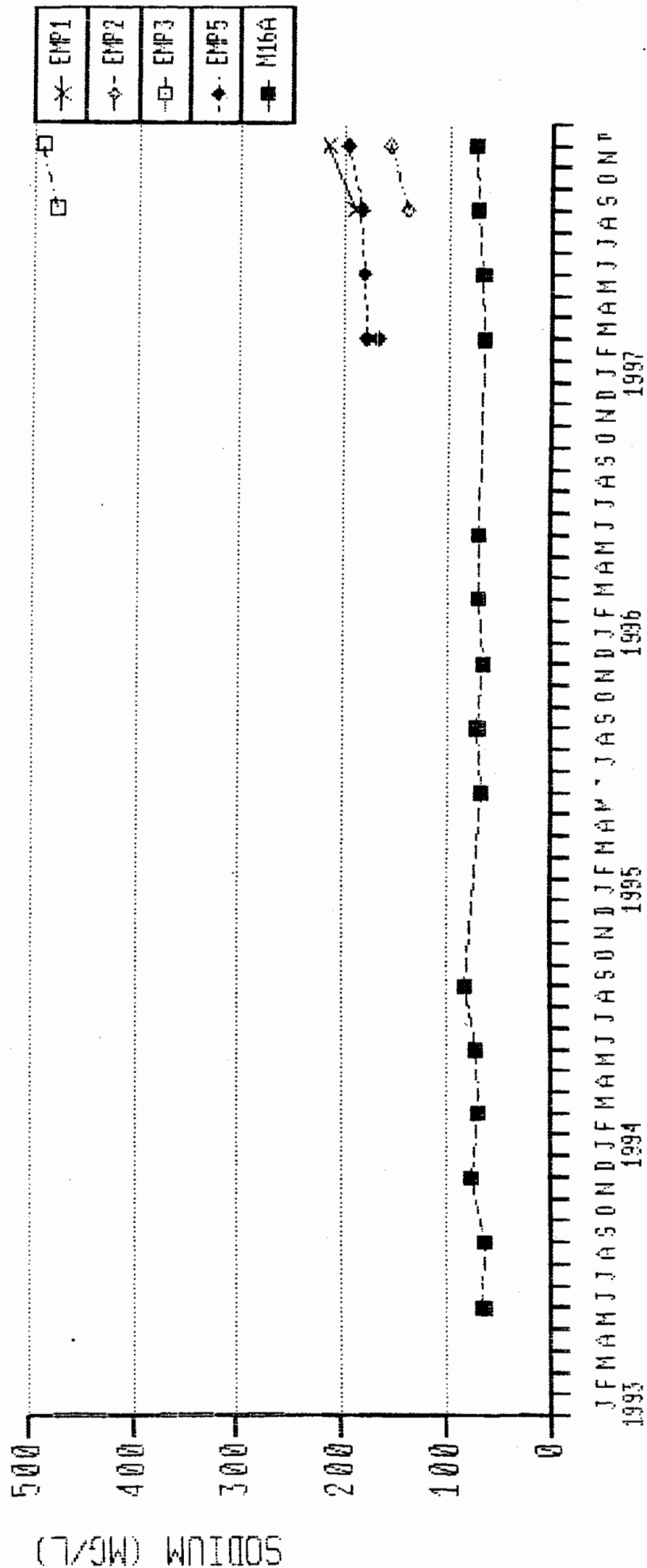


FIGURE 194
PUENTE HILLS LANDFILL
MAGNESIUM-HARDNESS
OFFSITE MONITORING WELLS



J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
 1993 1994 1995 1996 1997

FIGURE 195
PUENTE HILLS LANDFILL
SODIUM
OFFSITE MONITORING WELLS



J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
 1993 1994 1995 1996 1997

FIGURE 196
PUENTE HILLS LANDFILL
POTASSIUM
OFFSITE MONITORING WELLS

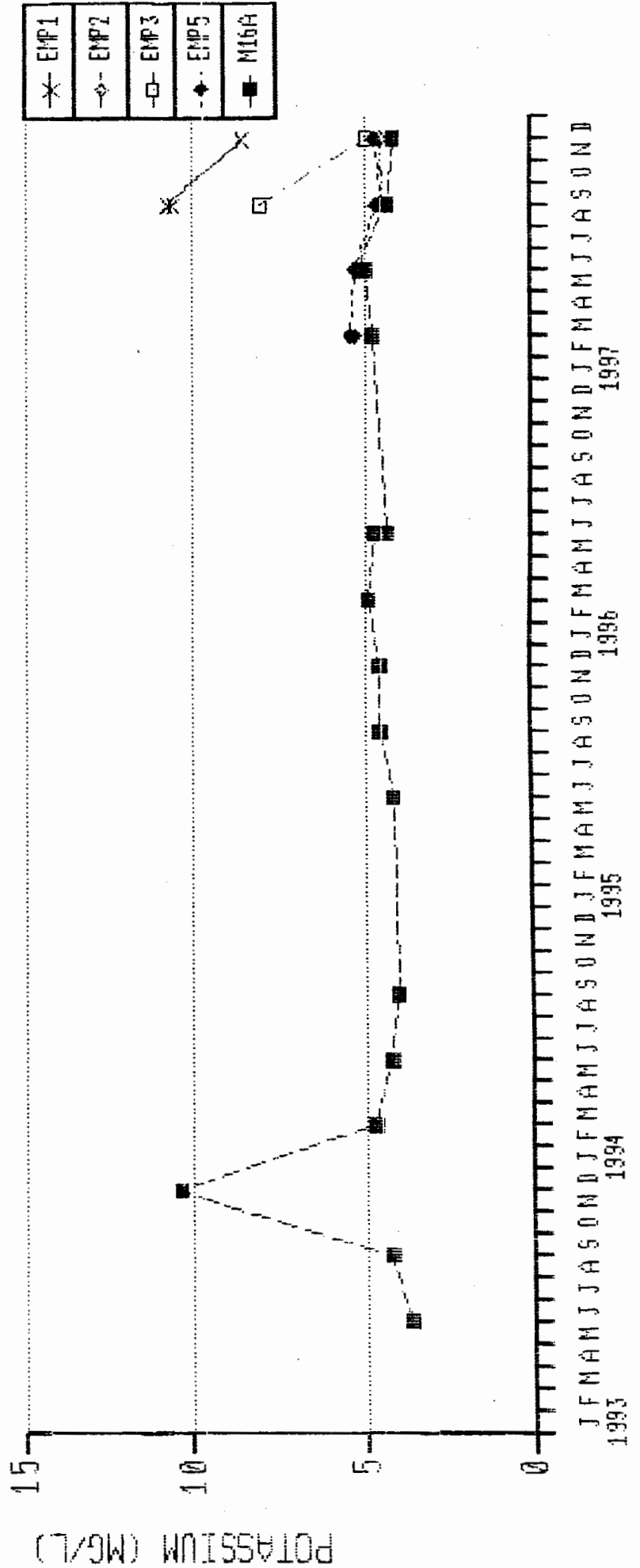
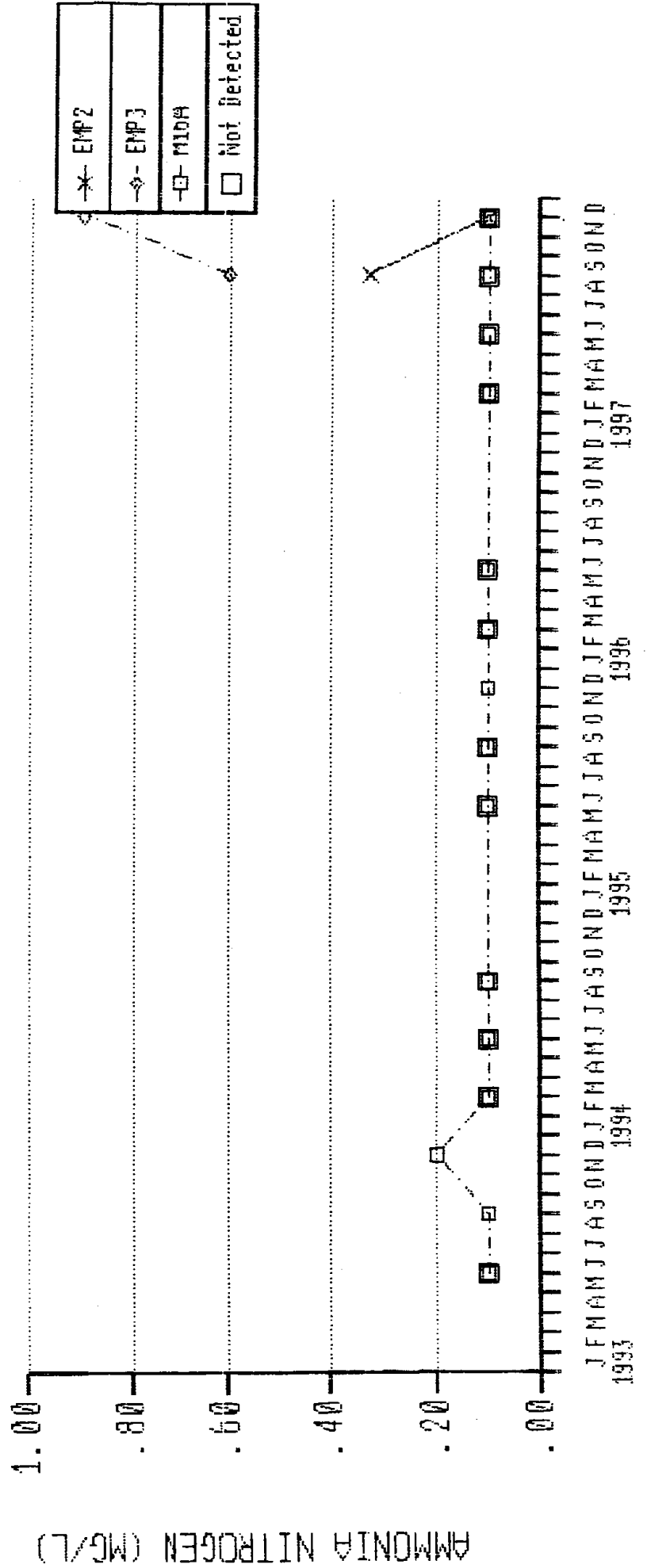


FIGURE 199
PUENTE HILLS LANDFILL
AMMONIA NITROGEN
OFFSITE MONITORING WELLS



J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
 1993 1994 1995 1996 1997

FIGURE 200
PUENTE HILLS LANDFILL
TOTAL BOD
OFFSITE MONITORING WELLS

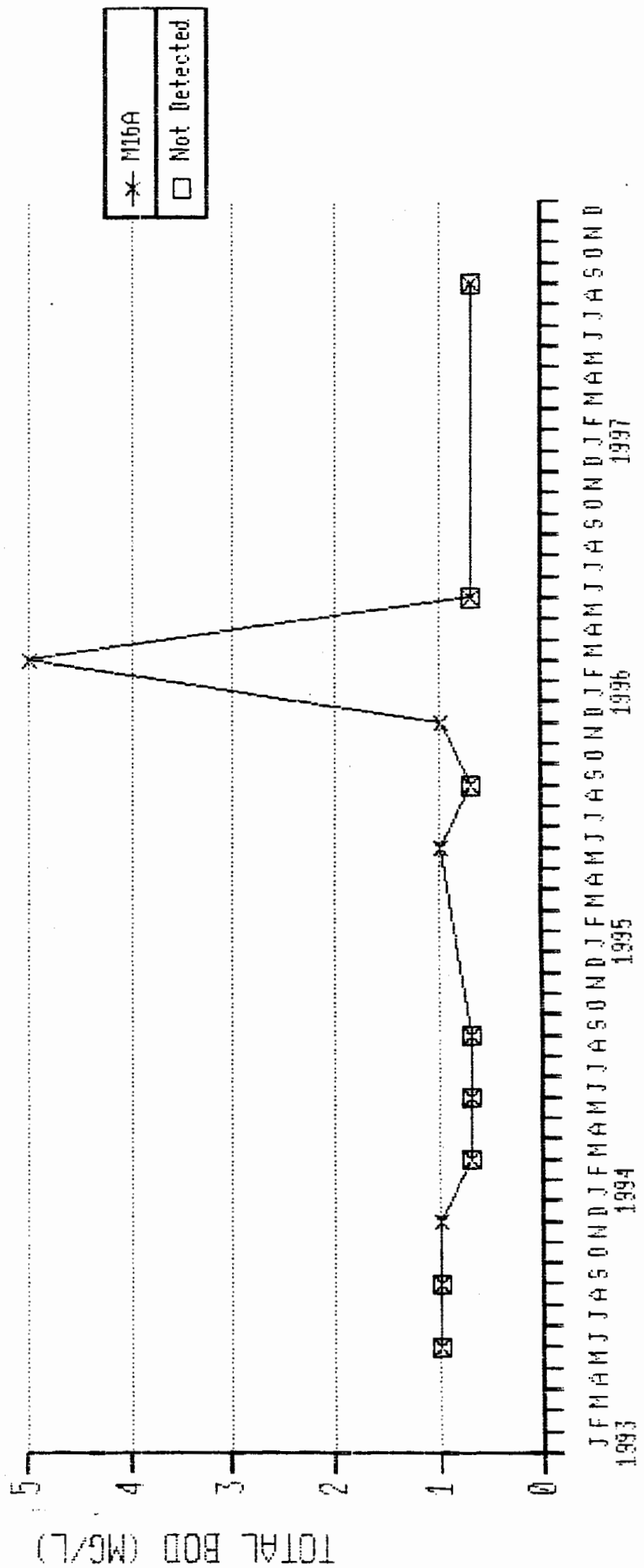
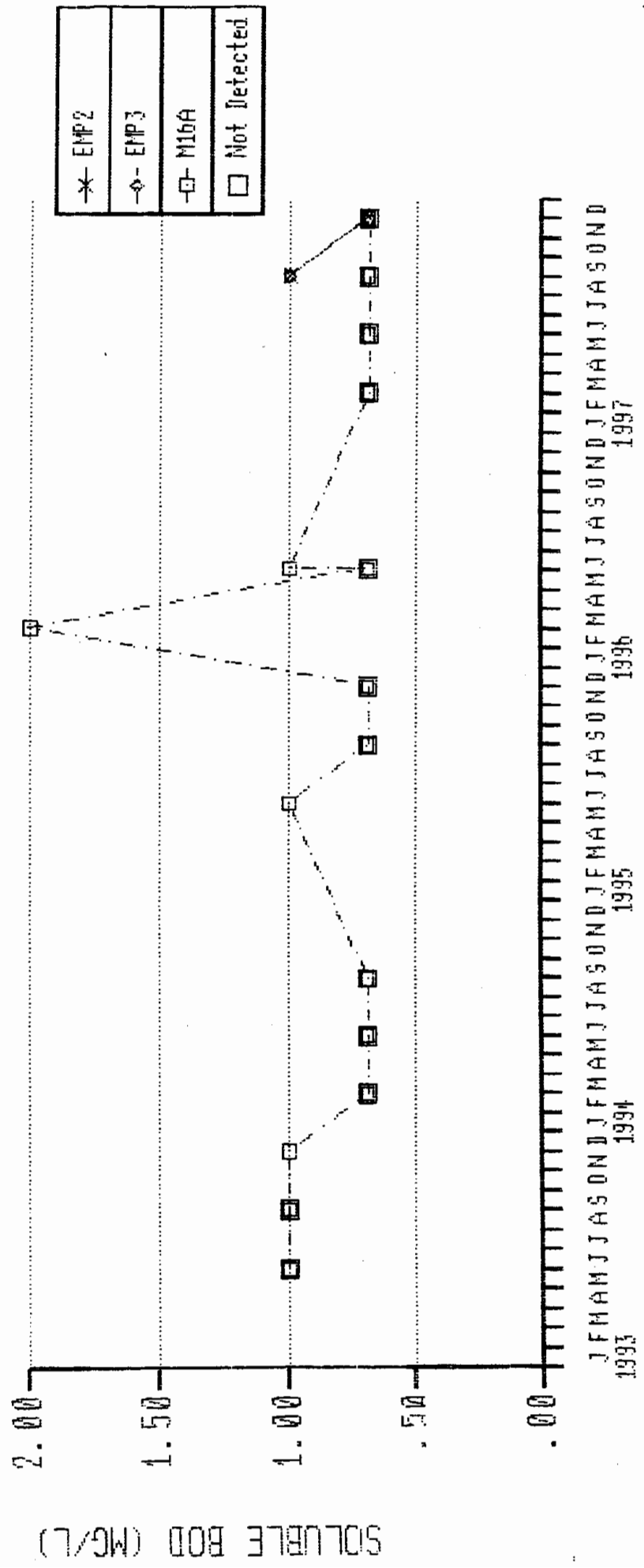


FIGURE 201
PUENTE HILLS LANDFILL
SOLUBLE BOD
OFFSITE MONITORING WELLS



J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
 1993 1994 1995 1996 1997

FIGURE 202
PUENTE HILLS LANDFILL
TOTAL COD
OFFSITE MONITORING WELLS

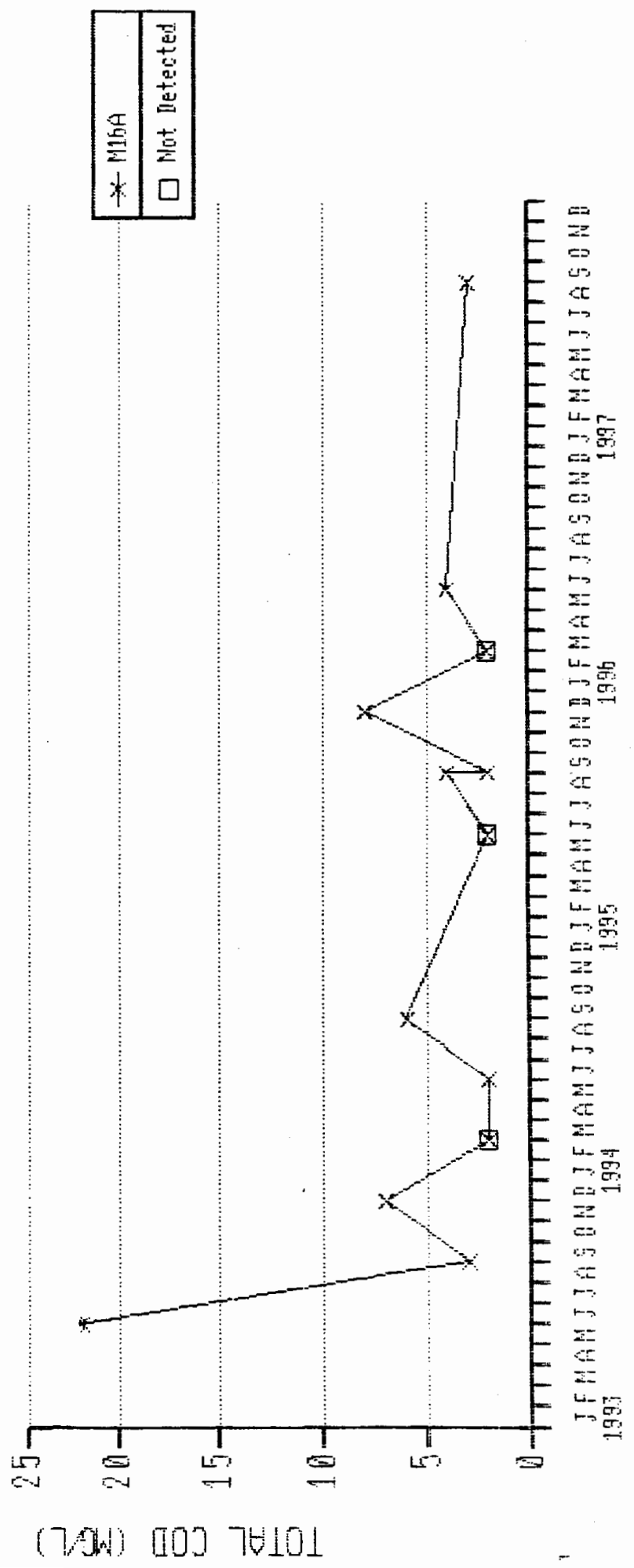


FIGURE 203
 PUENTE HILLS LANDFILL
 SOLUBLE COD
 OFFSITE MONITORING WELLS

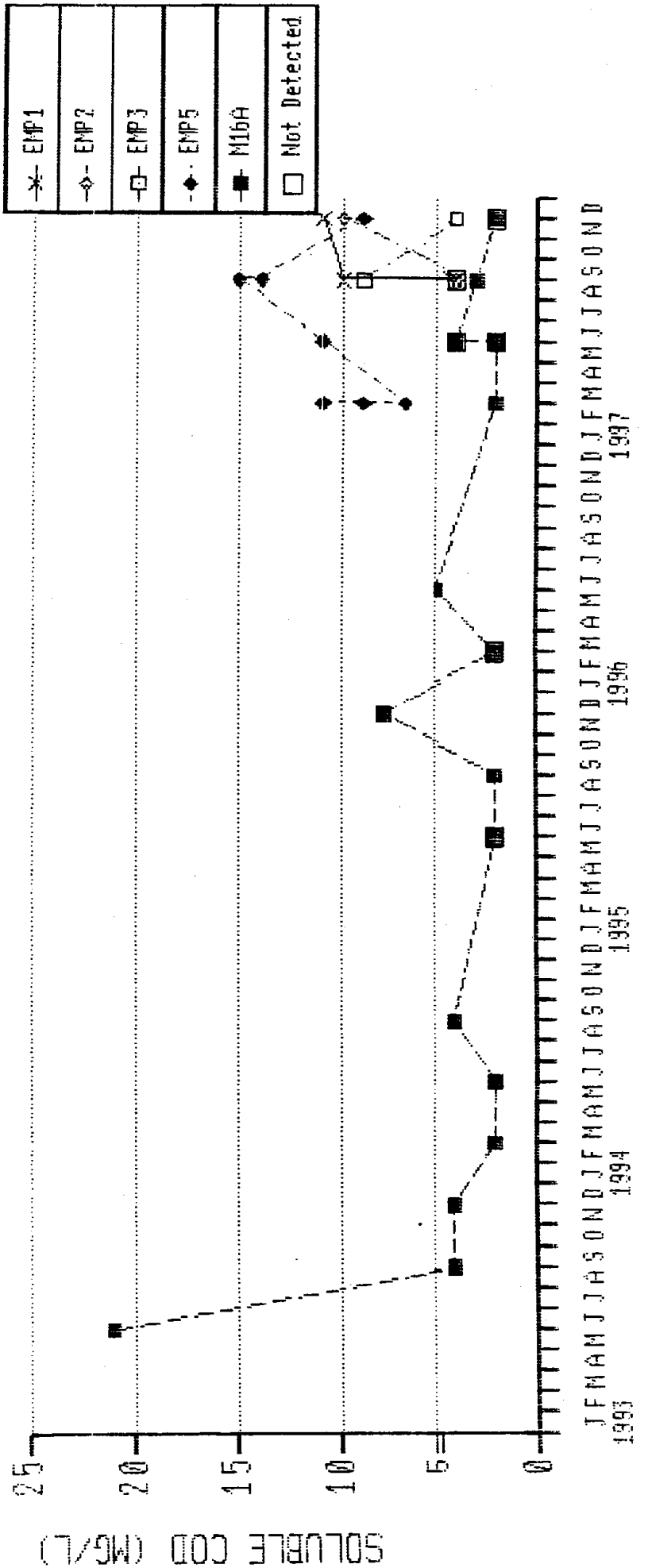
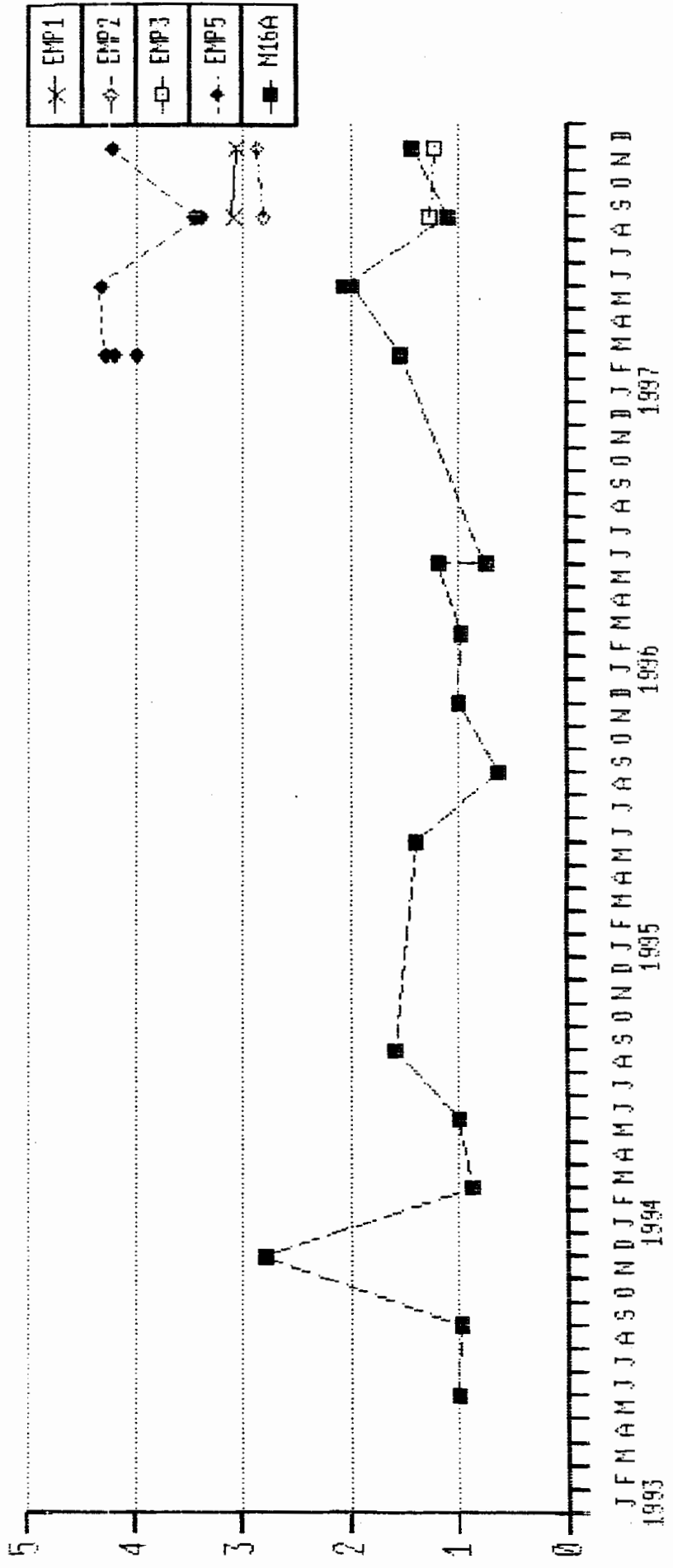
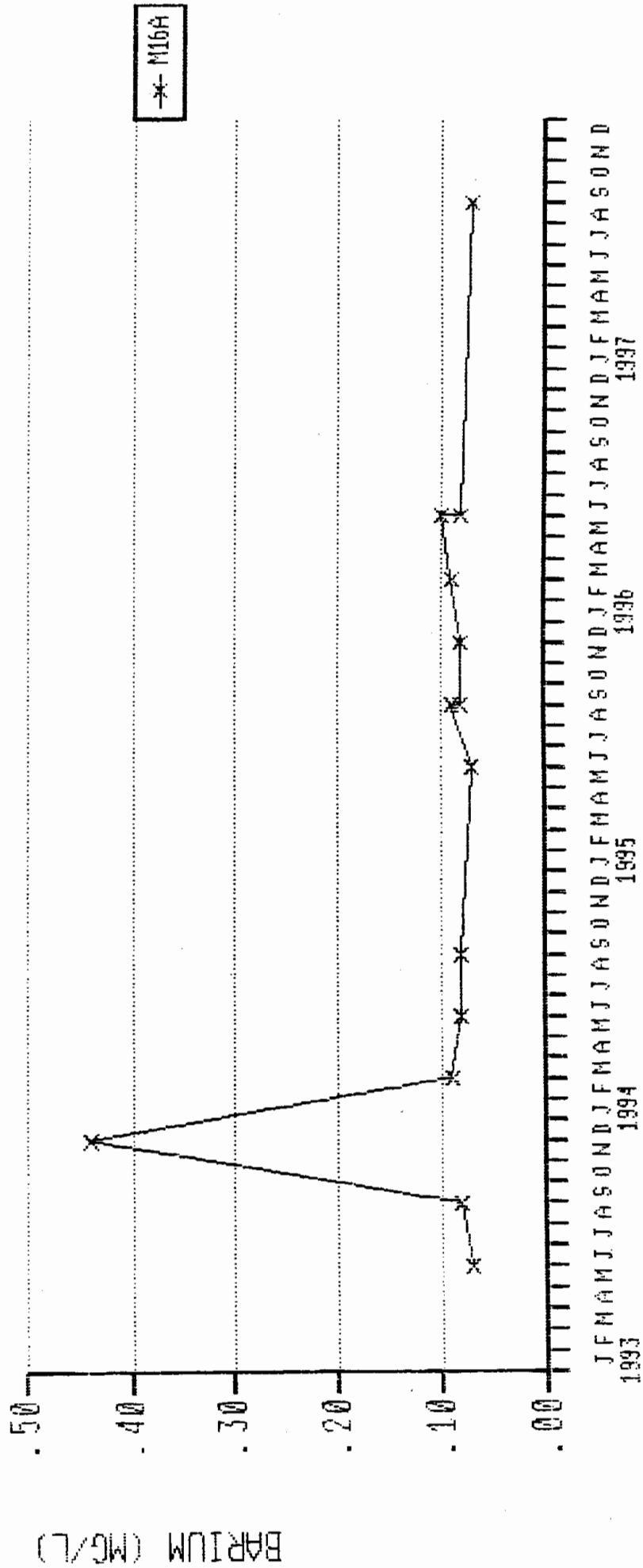


FIGURE 204
 PUENTE HILLS LANDFILL
 TOTAL ORGANIC CARBON
 OFFSITE MONITORING WELLS



J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
 1993 1994 1995 1996 1997

FIGURE 207
PUENTE HILLS LANDFILL
BARIUM
OFFSITE MONITORING WELLS



BARIUM (MG/L)

FIGURE 208 PUENTE HILLS LANDFILL TOTAL CHROMIUM OFFSITE MONITORING WELLS

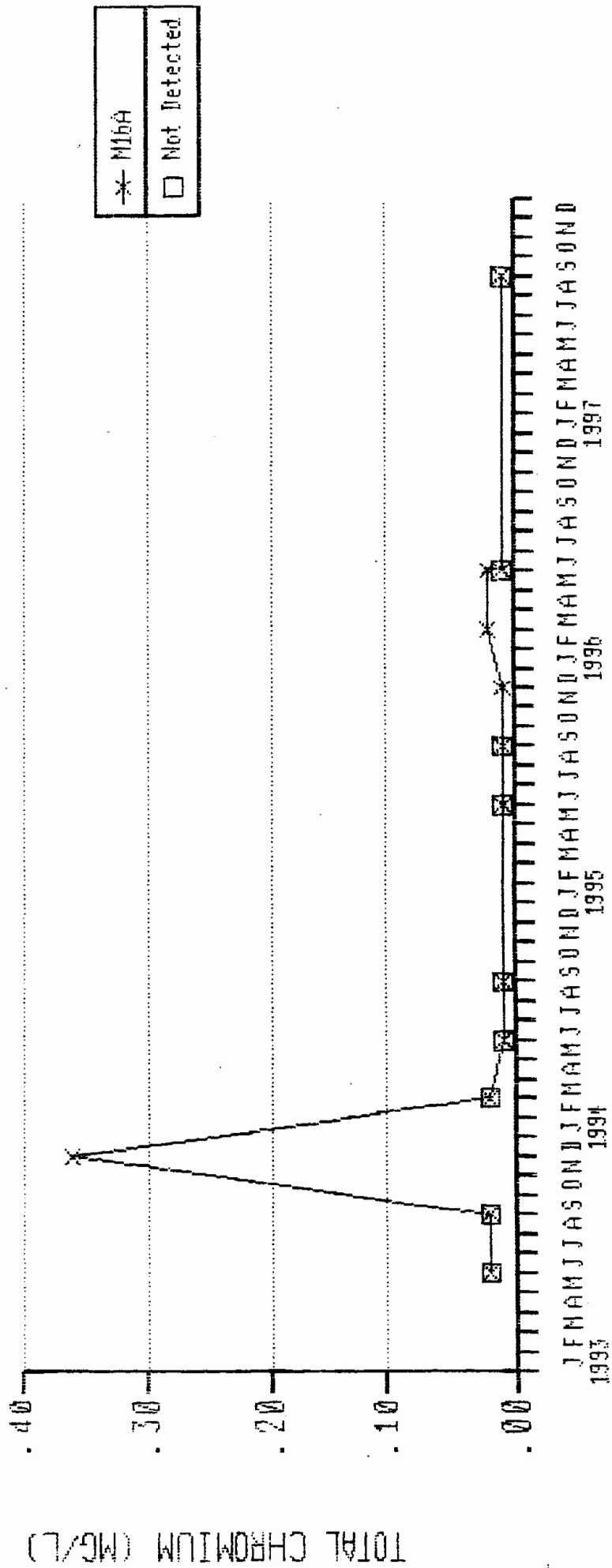


FIGURE 211
PUENTE HILLS LANDFILL
ZINC
OFFSITE MONITORING WELLS

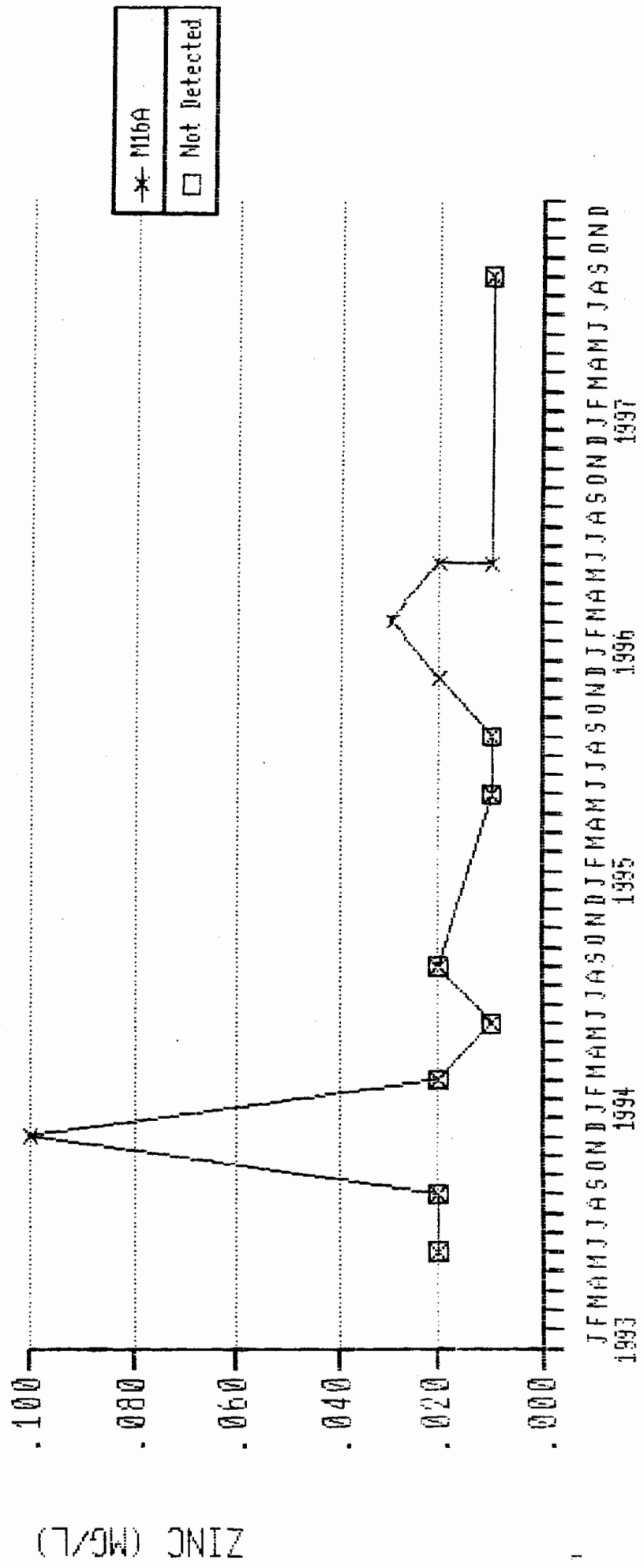


FIGURE 212
PUENTE HILLS LANDFILL
METHYLENE CHLORIDE
OFFSITE MONITORING WELLS

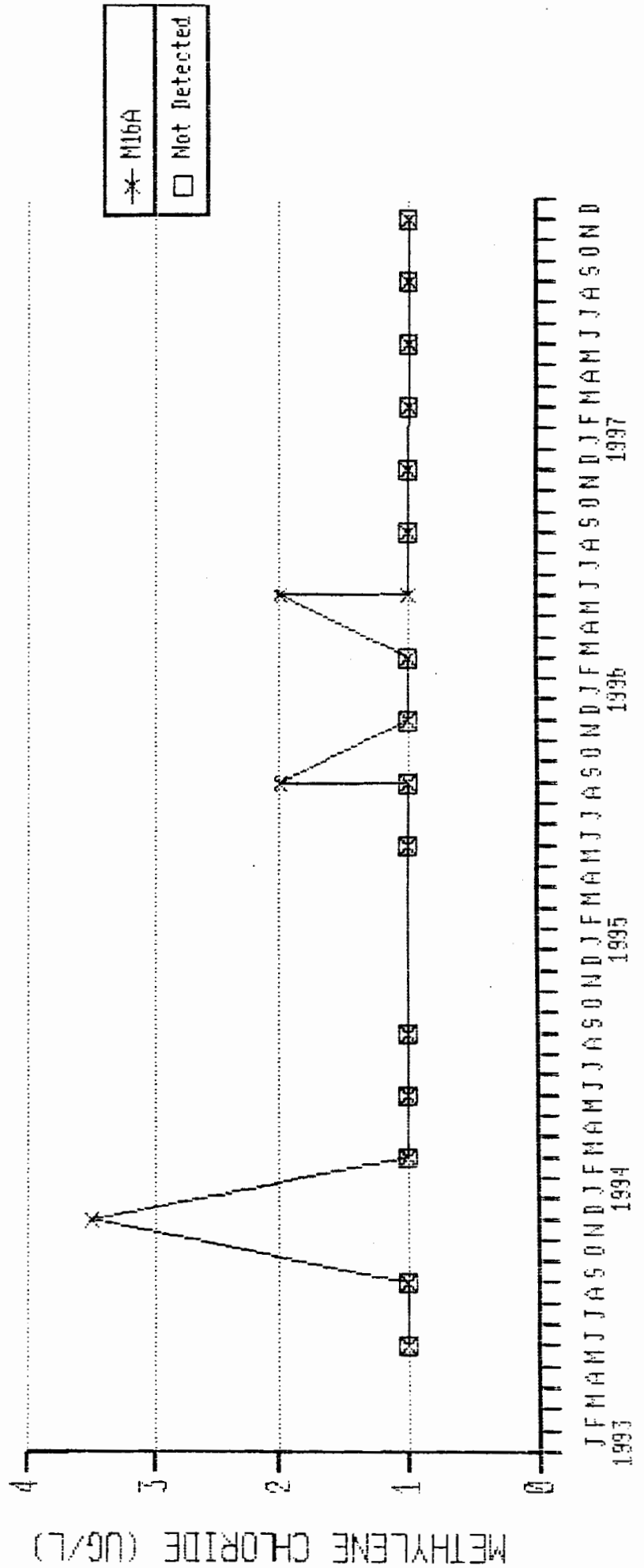
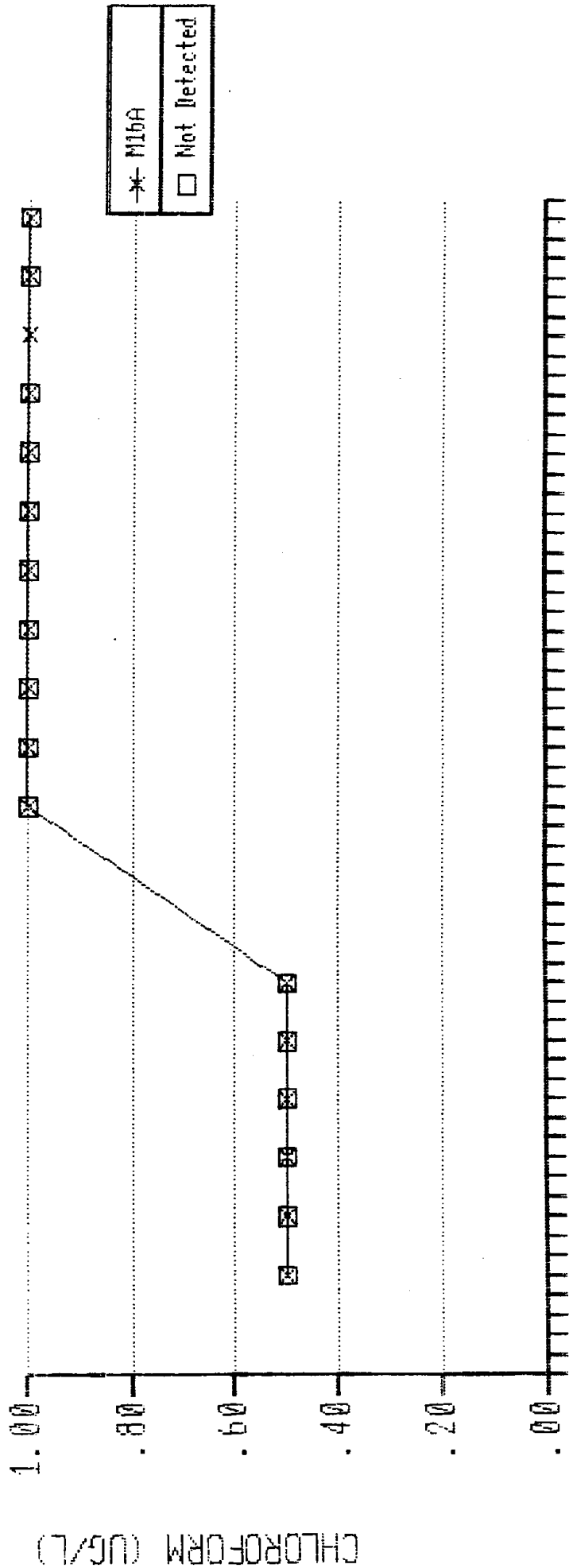
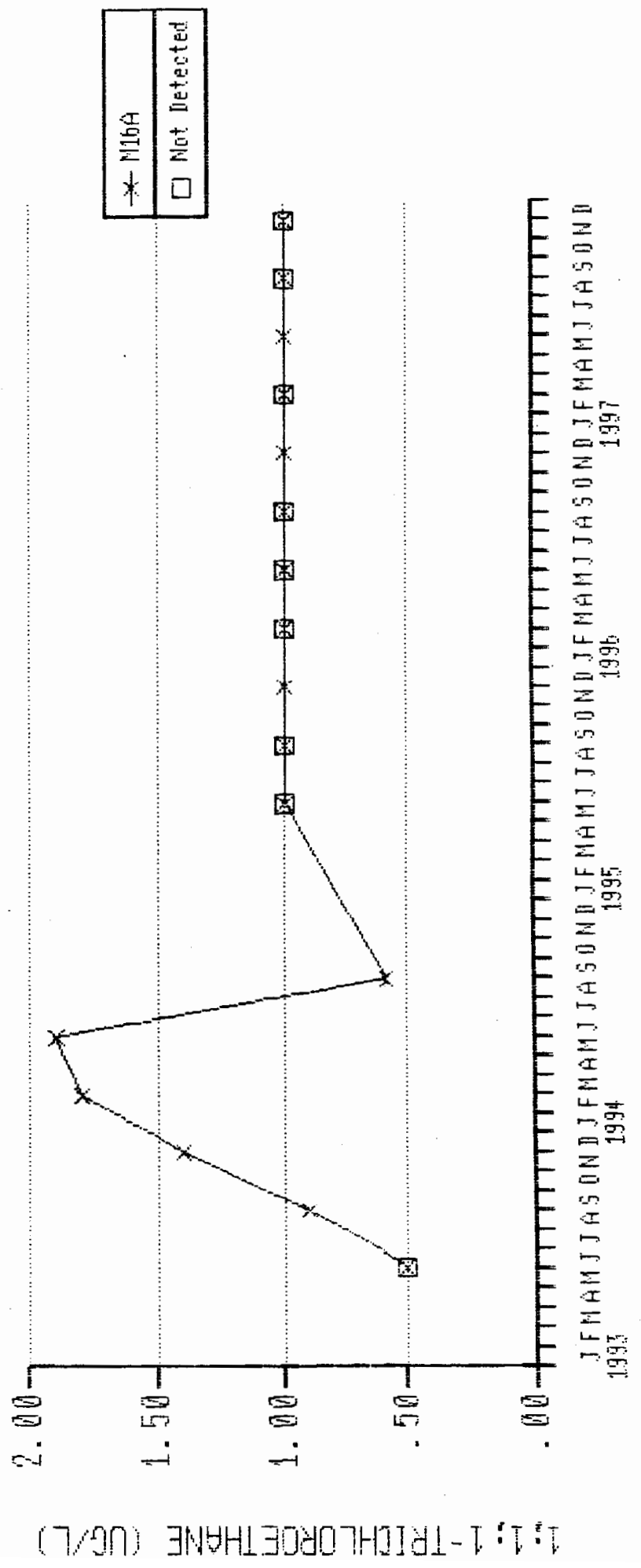


FIGURE 213
 PUENTE HILLS LANDFILL
 CHLOROFORM
 OFFSITE MONITORING WELLS



JFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASON
 1993 1994 1995 1996 1997

FIGURE 214
PUENTE HILLS LANDFILL
1,1,1-TRICHLOROETHANE
OFFSITE MONITORING WELLS



1,1,1-TRICHLOROETHANE (UG/L)

JFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJFMAMJJASON
 1993 1994 1995 1996 1997

FIGURE 215
PUENTE HILLS LANDFILL
1,1-DICHLOROETHENE
OFFSITE MONITORING WELLS

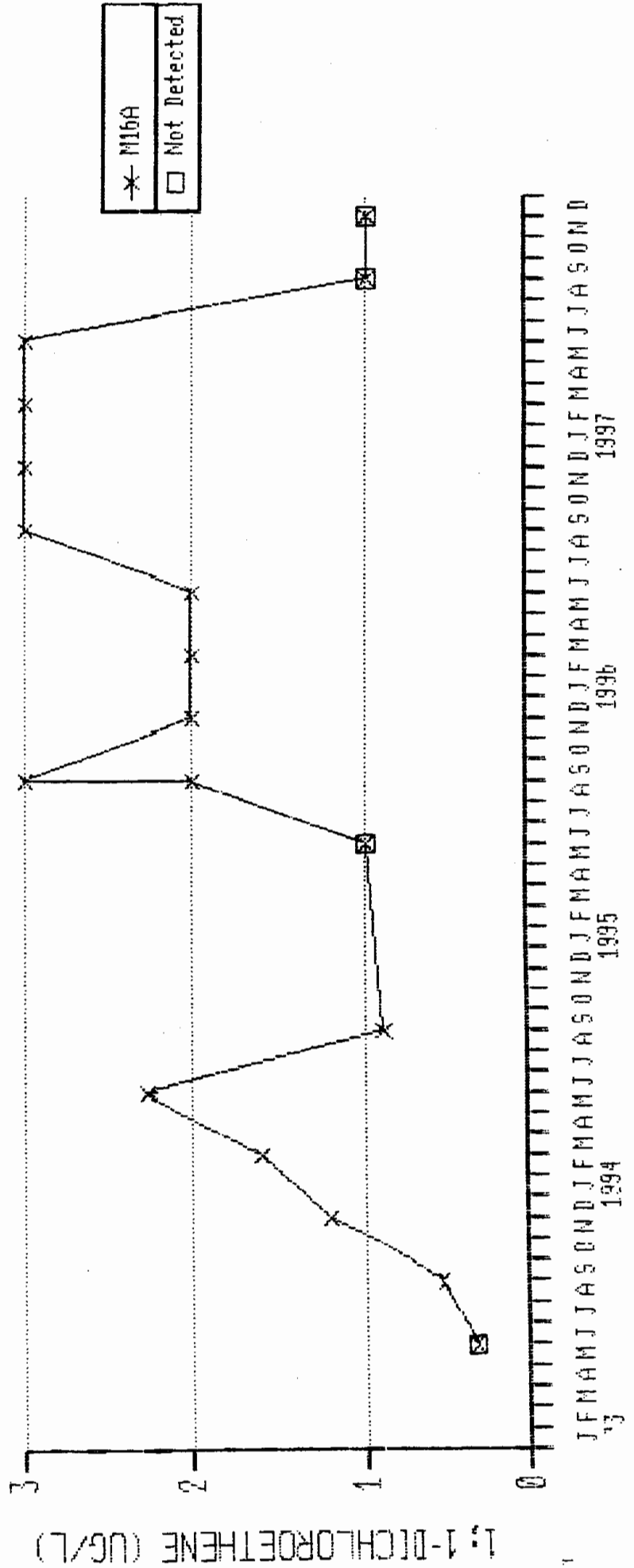


FIGURE 216
 PUENTE HILLS LANDFILL
 TETRACHLOROETHYLENE
 OFFSITE MONITORING WELLS

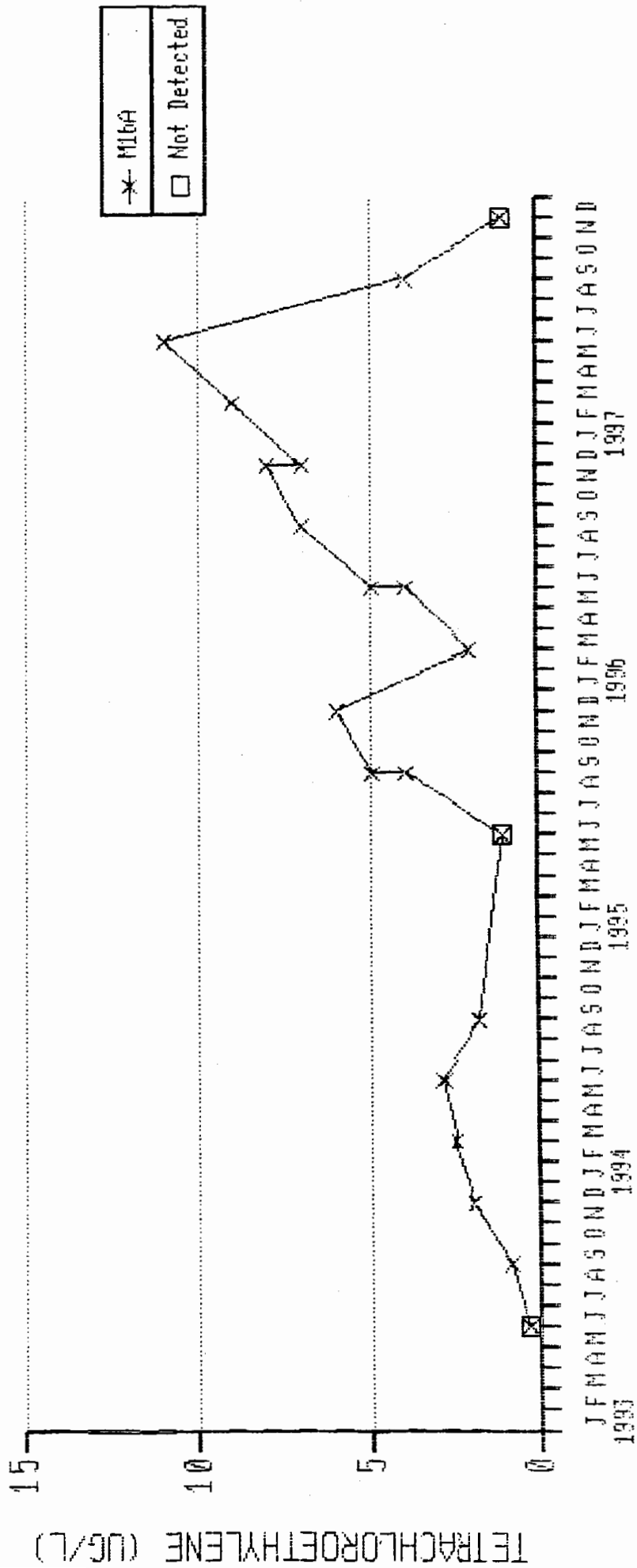
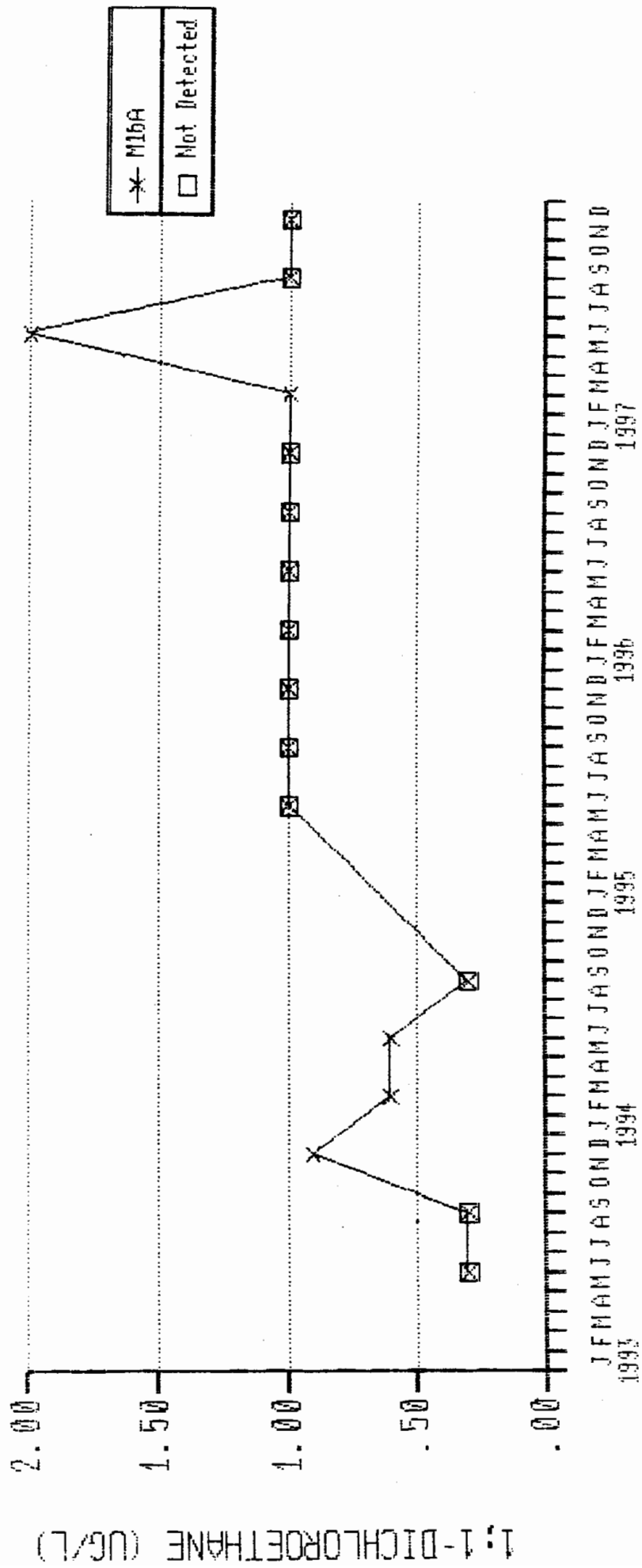


FIGURE 217
PUENTE HILLS LANDFILL
1,1-DICHLOROETHANE
OFFSITE MONITORING WELLS



1,1-DICHLOROETHANE (UG/L)

* M16A
□ Not Detected

JFMAMJJASOND 1993
 JFMAMJJASOND 1994
 JFMAMJJASOND 1995
 JFMAMJJASOND 1996
 JFMAMJJASOND 1997

FIGURE 218
 PUENTE HILLS LANDFILL
 1,2-DICHLOROETHANE
 OFFSITE MONITORING WELLS

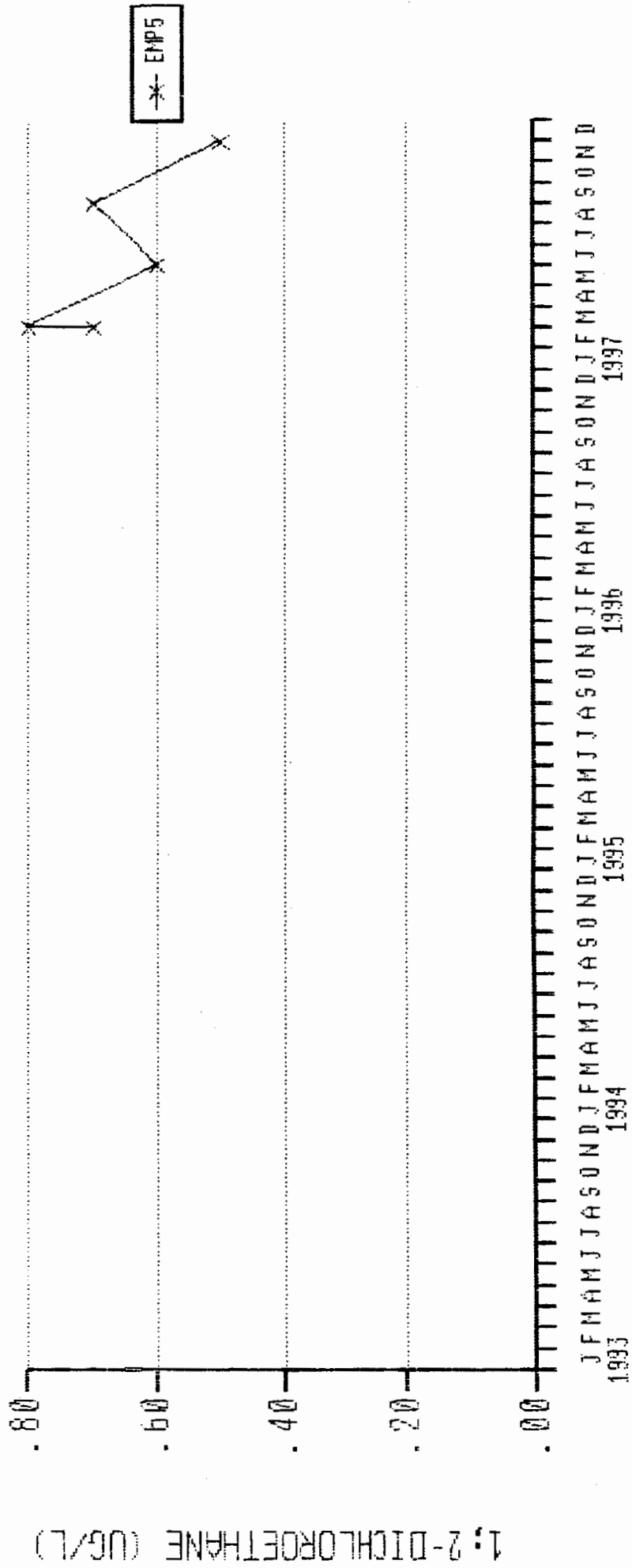


FIGURE 219
PUENTE HILLS LANDFILL
IRON
OFFSITE MONITORING WELLS (FILTERED)

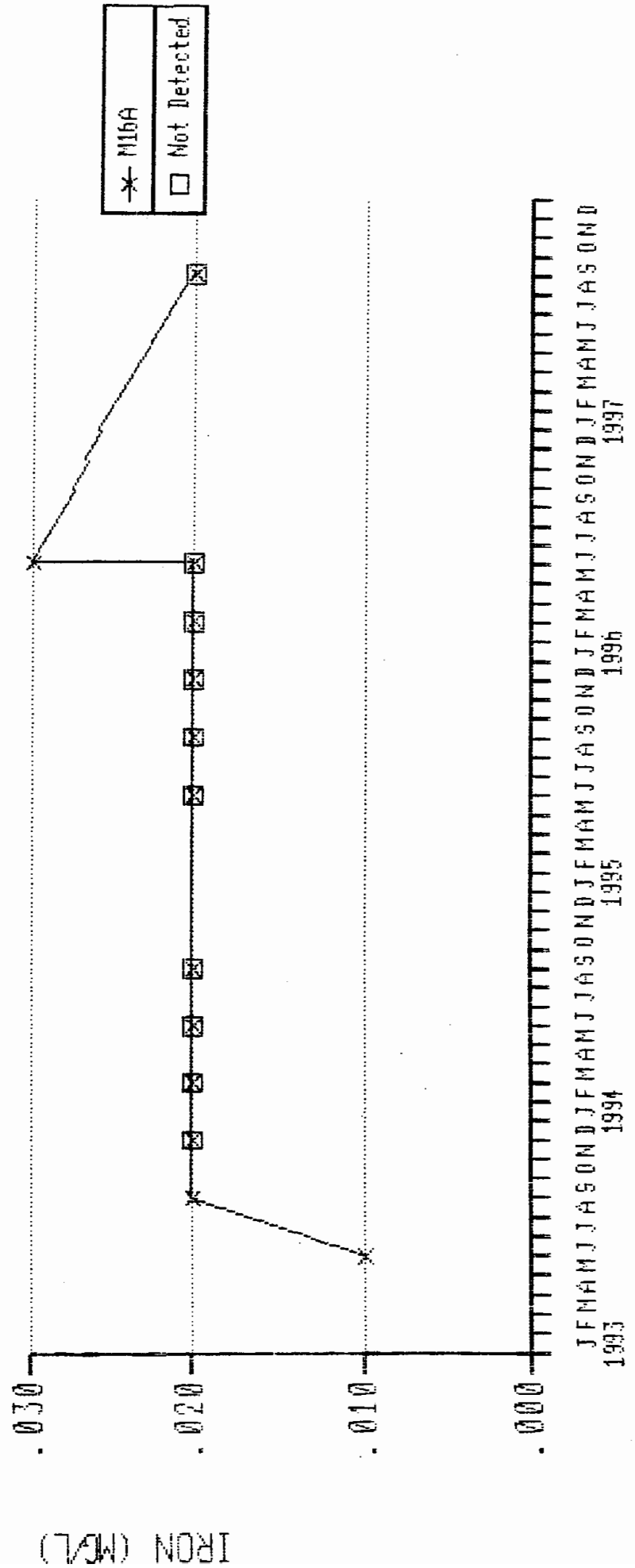


FIGURE 220
PUENTE HILLS LANDFILL
ARSENIC
OFFSITE MONITORING WELLS (FILTERED)

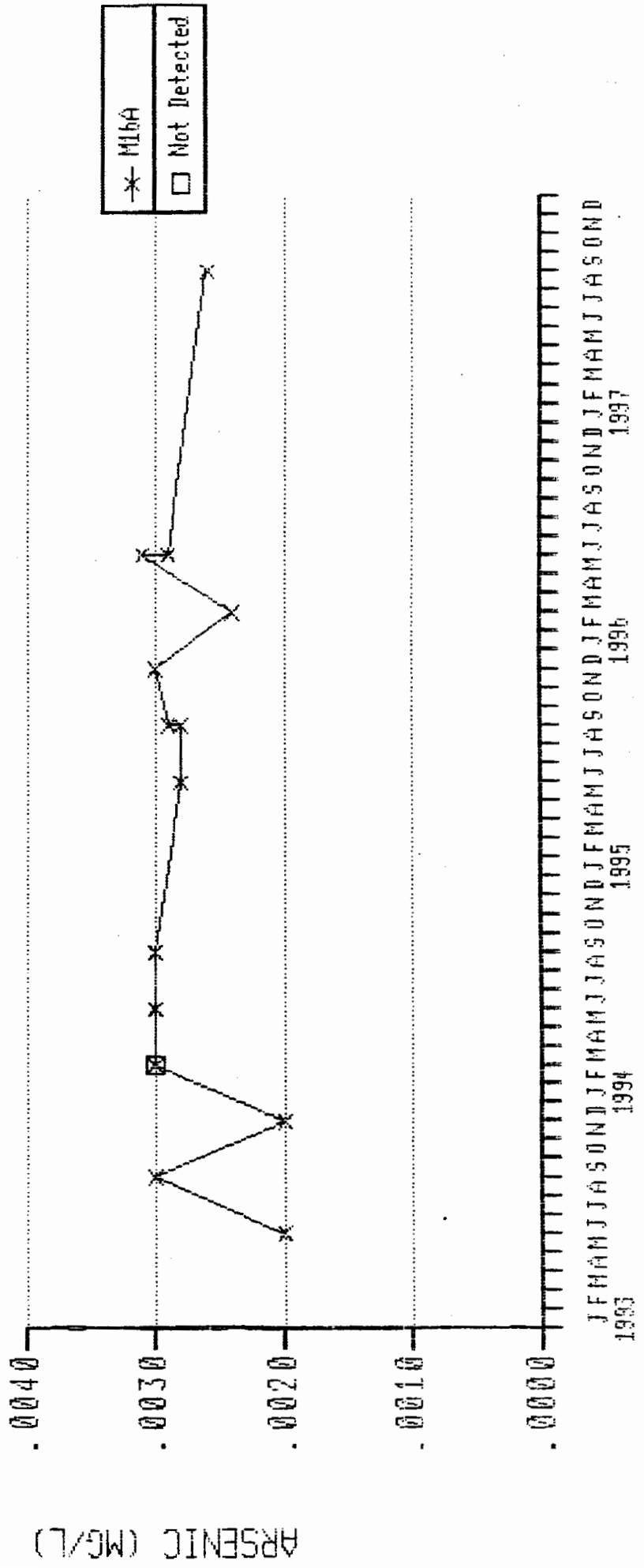
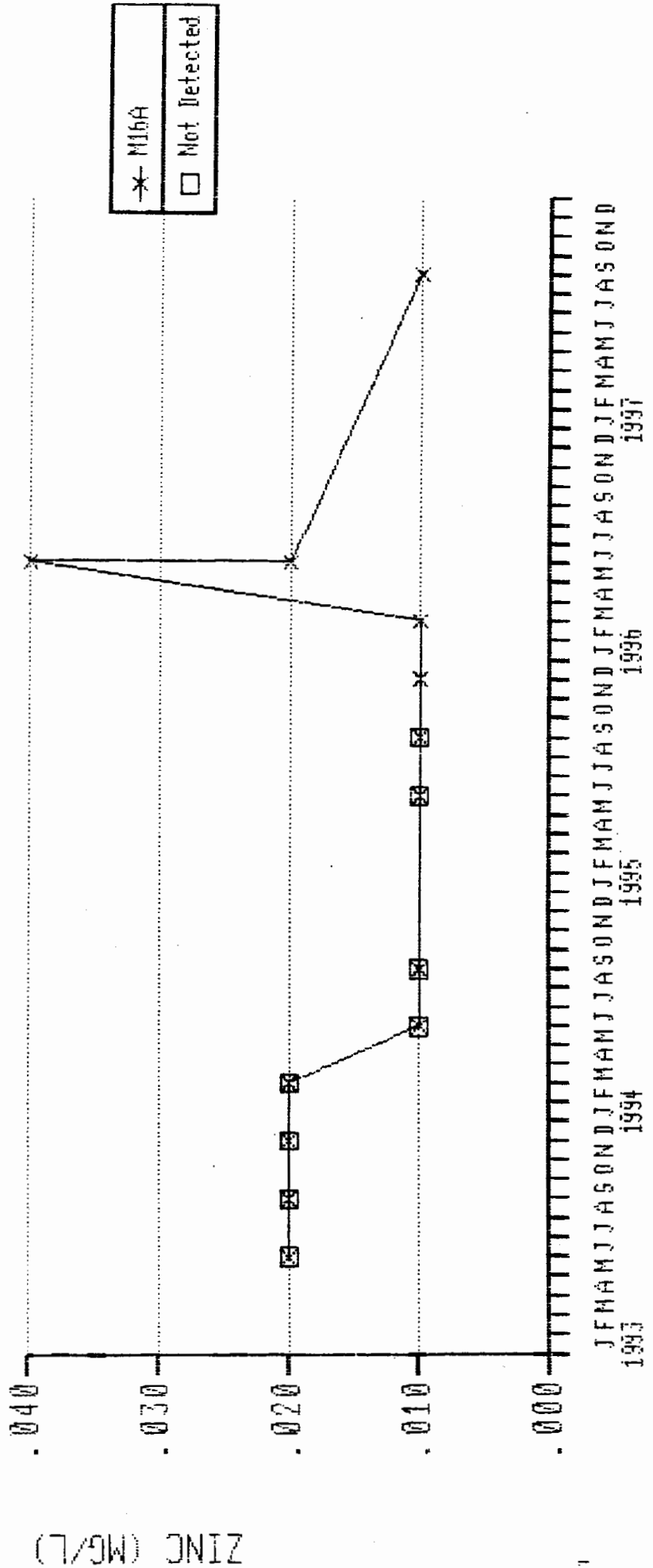
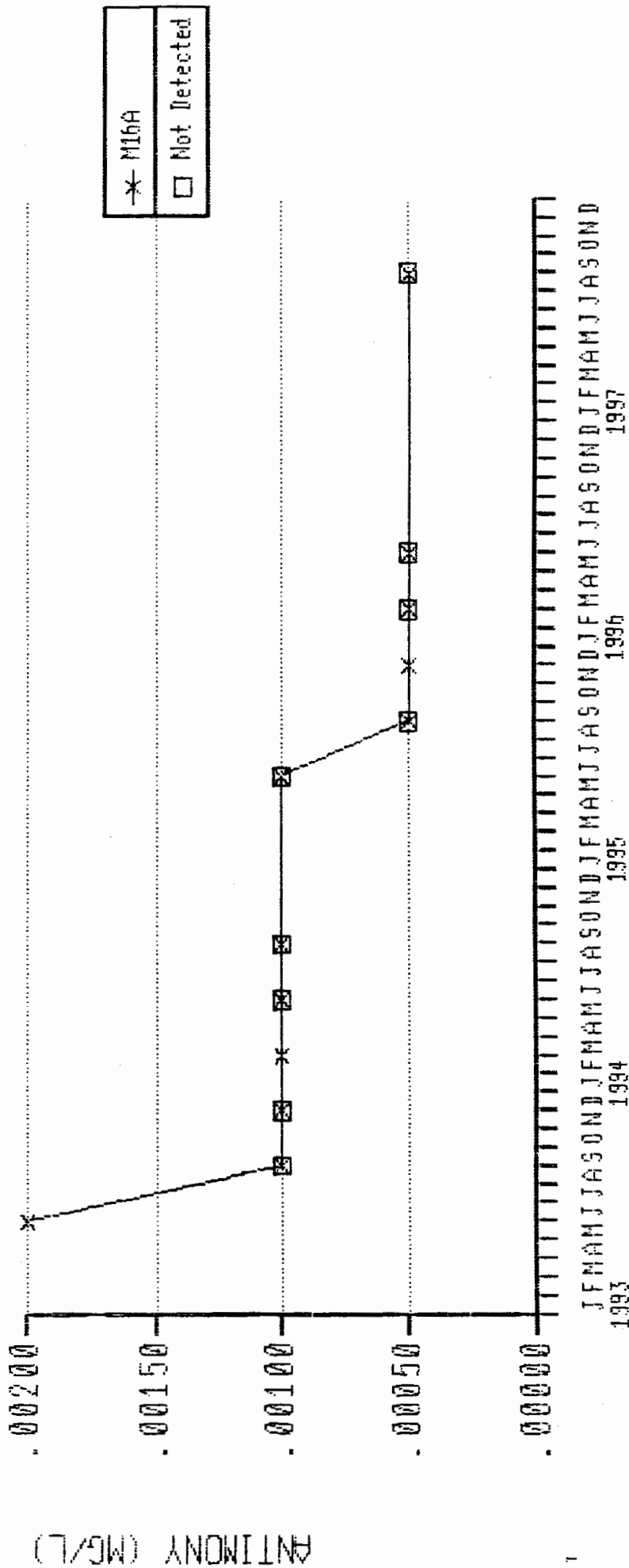


FIGURE 223
 PUENTE HILLS LANDFILL
 ZINC
 OFFSITE MONITORING WELLS (FILTERED)



ZINC (MG/L)

FIGURE 224
 PUENTE HILLS LANDFILL
 ANTIMONY
 OFFSITE MONITORING WELLS (FILTERED)



APPENDIX
WATER QUALITY MONITORING DATA
PUENTE HILLS LANDFILL, 1997

TABLE A.1
WATER QUALITY DATA
BARRIER 1 MONITORING WELLS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ32360 03/04/97	WELL MW4 SJ36430 06/12/97
FIELD PARAMETERS			
DEPTH TO WATER	FT	43.59	43.66
DEPTH TO BOTTOM	FT	44.6	44.61
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	20
GENERAL			
PH	PH	7.52	6.79
TOTAL DISSOLVED SOLIDS	MG/L	1533	1057
ANIONS			
NITRATE NITROGEN	MG/L N	2.08 A	3.70 A
SULFATE	MG/L SO4	663 A	374 A
CHLORIDE	MG/L CL	119 A	87.8 A
VOLATILE ORGANIC COMPOUNDS			
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01
1,1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01
1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01
CHLOROBENZENE	UG/L	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01
O-DICHLOROBENZENE	UG/L	< 0.01	< 0.01
P-DICHLOROBENZENE	UG/L	< 0.01	< 0.01
1,1-DICHLOROETHANE	UG/L	< 0.01	< 0.01
1,1,2-TRICHLOROETHANE	UG/L	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL MW4 SJ32360 03/04/97	WELL MW4 SJ36430 06/12/97
VOLATILE ORGANIC COMPOUNDS			
1,2-DICHLOROETHANE	UG/L	<	<
BENZENE	UG/L	0.3	0.3
TOLUENE	UG/L	0.5	0.5
ETHYL BENZENE	UG/L	1	1
VINYL ACETATE	UG/L	10	10
O-XYLENE	UG/L	1	1
TRANS-1,2-DICHLOROETHYLEN	UG/L	1	1
BROMOMETHANE	UG/L	1	1
CHLOROETHANE	UG/L	1	1
CHLOROMETHANE	UG/L	1	1
1,2-DICHLOROPROPANE	UG/L	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	1	1
TRANS-1,3-DICHLOROPROPENE	UG/L	1	1
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5
ACRYLONITRILE	UG/L	10	10
FREON 11 (CCL3F)	UG/L	1	1
1,2-DIBROMOETHANE	UG/L	0.01	0.01
ACETONE	UG/L	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	1	1
2-BUTANONE	UG/L	10	10
4-METHYL-2-PENTANONE	UG/L	10	10
STYRENE	UG/L	1	1
M+P-XYLENE	UG/L	1	1
CARBON DISULFIDE	UG/L	1	1
2-HEXANONE	UG/L	5	5

FOOTNOTES : A-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 09/18/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
FIELD PARAMETERS					
DEPTH TO WATER	FT	41.34		42.67	
DEPTH TO BOTTOM	FT	59.99		60.06	
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1	
PERCENT OXYGEN IN GAS	%O2	0.7		14	
FIELD WATER TEMPERATURE	DEG C	23.36		16.07	
FIELD PH	PH	6.14		6.32	
FIELD CONDUCTIVITY	UMHOS/CM	2826		1923	
FIELD DISSOLVED O2	MG/L	0.6		0.53	
FIELD DISSOLVED CO2	MG/L	787		350	
GENERAL					
PH	PH	6.88	6.84	7.23	7.31
CONDUCTIVITY	UMHOS/CM	3310	3320		
TOTAL DISSOLVED SOLIDS	MG/L	2757	2783	1482	1451 C
TOTAL HARDNESS	MG/L CaCO3	1521 B	1513 B		
TOTAL CYANIDE	MG/L CN	< 0.01	0.01		
BORON	MG/L B	0.70	0.76		
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05 A	0.07	0.06
SULFATE	MG/L SO4	1210 A	1210 A	637	613
CHLORIDE	MG/L CL	187 A	188 A	15.6	15.6
TOTAL ALKALINITY	MG/L CaCO3	619	623	416	415
BICARBONATE ALKALINITY	MG/L CaCO3	619	623	416	415
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1		
FLUORIDE	MG/L F	0.79	0.79		
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	764	772	514	514
MAGNESIUM-HARDNESS	MG/L CaCO3	757	741	412	428
SODIUM	MG/L NA	184	183	98.6	103
POTASSIUM	MG/L K	14.8	15.0		
IRON	MG/L FE	6.70	6.12	8.6	8.5
MANGANESE	MG/L MN	1.75	1.72		
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	0.13	< 0.1	0.15
FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE					

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 09/18/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
ORGANIC MATTER					
TOTAL BOD	MG/L	< 1	< 1	< 0.7	1
SOLUBLE BOD	MG/L	< 1	< 1	< 0.7	1
TOTAL COD	MG/L	21 C	21	13	9
SOLUBLE COD	MG/L	21	21	13	9
TOTAL ORGANIC CARBON	MG/L	4.84	4.93 D	4.86	5.00 D
OIL & GREASE	MG/L	< 1	< 1	< 1	< 1
TOTAL ORGANIC HALOGEN (TOX)	UG/L	48 D	45 D	< 45 D	< 45 D
METALS					
ARSENIC	MG/L	.0192	.0180	< 0.01	< 0.01
BARIUM	MG/L	0.03	0.03	< 0.01	< 0.01
CADMIUM	MG/L	< 0.01	< 0.01	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L	< 0.02	< 0.02	< 0.02	< 0.02
MERCURY	MG/L	< 0.001	< 0.001	< 0.001	< 0.001
NICKEL	MG/L	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L	< 0.010	< 0.010	< 0.010	< 0.010
SILVER	MG/L	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L	0.01	0.01	0.01	0.01
ANTIMONY	MG/L	< 0.005	< 0.005	< 0.005	< 0.005
BERYLLIUM	MG/L	< 0.025	< 0.025	< 0.025	< 0.025
THALLIUM	MG/L	< 0.001	< 0.001	< 0.001	< 0.001
TIN	MG/L	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
DINOSB	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
THIONAZIN	UG/L	< 1	< 1	< 1	< 1
DIMETHOATE	UG/L	< 1	< 1	< 1	< 1
DISULFOTON	UG/L	< 1	< 1	< 1	< 1
METHYL PARATHION	UG/L	< 1	< 1	< 1	< 1
ETHYL PARATHION	UG/L	< 1	< 1	< 1	< 1
PHORATE	UG/L	< 1	< 1	< 1	< 1
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 09/18/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP (SILVEX)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
AROCFLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
AROCFLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 10	< 10	< 10	< 10
1,1-DICHLOROPROPENE	UG/L	< 10	< 10	< 10	< 10
ISOBUTYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 09/18/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1
METHYL METHACRYLATE	UG/L	10	<	<	<
ETHYL METHACRYLATE	UG/L	5	<	<	<
METHYLENE CHLORIDE	UG/L	1	2	<	1
CHLOROFORM	UG/L	1	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	<
1,1-DICHLOROETHYLENE	UG/L	4	2	<	1
TRICHLOROETHYLENE	UG/L	1	1	<	1
TETRACHLOROETHYLENE	UG/L	1	1	<	1
BROMODICHLOROMETHANE	UG/L	1	1	<	1
DIBROMOCHLOROMETHANE	UG/L	1	1	<	1
BROMOFORM	UG/L	1	1	<	1
CHLOROBENZENE	UG/L	3	3	<	2
VINYL CHLORIDE	UG/L	1	1	<	1
O-DICHLOROBENZENE	UG/L	1	1	<	1
M-DICHLOROBENZENE	UG/L	1	1	<	1
P-DICHLOROBENZENE	UG/L	1	1	<	1
1,1-DICHLOROETHANE	UG/L	1	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	0.4	0.4	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
BENZENE	UG/L	1	1	<	1
TOLUENE	UG/L	1	1	<	1
ETHYL BENZENE	UG/L	10	10	<	10
VINYL ACETATE	UG/L	<	<	<	<
O-XYLENE	UG/L	1	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	1	1	<	1
BROMOMETHANE	UG/L	1	1	<	1
CHLOROETHANE	UG/L	1	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	1	1	<	1
CHLOROMETHANE	UG/L	1	1	<	1
1,2-DICHLOROPROPANE	UG/L	1	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	1	1	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	1	1	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
ACROLEIN	UG/L	10	10	<	10
ACRYLONITRILE	UG/L	10	10	<	10
ACETONITRILE	UG/L	20	20	<	20
FREON 12 (CCL2F2)	UG/L	1	1	<	1
FREON 11 (CCL3F)	UG/L	1	1	<	1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 12/19/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	17	17	19	9
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 1	< 1

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 12/19/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	17	17	19	9
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 1	< 1

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 12/19/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-AVERAGE

B-CALCULATED VALUE

C-DUP & SPIKE

D-DUPLICATE SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 09/18/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<
M-NITROANILINE	UG/L	1	1	1	1
P-NITROANILINE	UG/L	<	<	<	<
N-NITRODI-N-BUTYLAMINE	UG/L	1	1	1	1
N-NITRODIETHYLAMINE	UG/L	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<
N-NITROSOPIRROLIDINE	UG/L	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	1	1	1	1
PENTACHLOROBENZENE	UG/L	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	5	5	5	5
PHENACETIN	UG/L	1	1	1	1
P-PHENYLENEDIAMINE	UG/L	20	20	20	20
PRONAMIDE	UG/L	<	<	<	<
SAFROLE	UG/L	1	1	1	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	1	1	1	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	1	1	1	1
O-TOLUIDINE	UG/L	1	1	1	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<
SYM-TRINITROBENZENE	UG/L	1	1	1	1
ACENAPHTHENE	UG/L	5	5	5	5
ACENAPHTHYLENE	UG/L	<	<	<	<
ANTHRACENE	UG/L	1	1	1	1
BENZIDINE	UG/L	<	<	<	<
BENZO (A) ANTHRACENE	UG/L	1	1	1	1
BENZO (A) PYRENE	UG/L	0.2	0.2	0.2	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<
BENZO (G. H. I.) PERYLENE	UG/L	<	<	<	<
BENZO (K) FLUORANTHENE	UG/L	1	1	1	1
BIS (2-CL-ETHOXY) METHANE	UG/L	1	1	1	1
BIS (2-CHLOROETHYL) ETHER	UG/L	1	1	1	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	1	1	1	1
DIETHYLHEXYL PHTHALATE	UG/L	4	4	4	4
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	1	1	1	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	1	1	1	1
CHRYSENE	UG/L	<	<	<	<
DIBENZO (A, H) ANTHRACENE	UG/L	1	1	1	1
3,3'-DICHLOROENZIDINE	UG/L	<	<	<	<
DIETHYL PHTHALATE	UG/L	1	1	1	1
DIMETHYL PHTHALATE	UG/L	1	1	1	1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ40755 09/18/97	WELL M04A SJ40756 09/18/97	WELL M04A SJ44016 12/19/97	WELL M04A SJ44017 12/19/97
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<
2,4-DINITROTOLUENE	UG/L	1	1	1	1
2,6-DINITROTOLUENE	UG/L	1	1	1	1
DI-N-OCTYL PHTHALATE	UG/L	2	2	1	1
FLUORANTHENE	UG/L	<	<	<	<
FLUORENE	UG/L	1	1	1	1
HEXACHLOROBENZENE	UG/L	1	1	1	1
HEXACHLOROBUTADIENE	UG/L	1	1	1	1
HEXACHLOROCYCLOPENTADIENE	UG/L	5	5	1	1
HEXACHLOROETHANE	UG/L	<	<	<	<
INDENO (1,2,3-C,D) PYRENE	UG/L	1	1	1	1
ISOPHORONE	UG/L	1	1	1	1
NAPHTHALENE	UG/L	1	1	1	1
NITROBENZENE	UG/L	1	1	1	1
N-NITROSODIMETHYLAMINE	UG/L	1	1	1	1
N-NITROSODI-N-PROPYLAMINE	UG/L	1	1	1	1
PHENANTHRENE	UG/L	1	1	1	1
PYRENE	UG/L	1	1	1	1
2-CHLOROPHENOL	UG/L	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	1	1	1	1
2,4-DICHLOROPHENOL	UG/L	1	1	1	1
2,4-DIMETHYLPHENOL	UG/L	1	1	1	1
2,4-DINITROPHENOL	UG/L	6	6	1	1
2-METHYL-4,6-DINITROPHENOL	UG/L	1	1	1	1
2-NITROPHENOL	UG/L	1	1	1	1
4-NITROPHENOL	UG/L	1	1	1	1
4-CHLORO-3-METHYLPHENOL	UG/L	1	1	1	1
PENTACHLOROPHENOL	UG/L	1	1	1	1
PHENOL	UG/L	1	1	1	1
2,4,6-TRICHLOROPHENOL	UG/L	1	1	1	1
N-NITROSODIPHENYLAMINE	UG/L	1	1	1	1
O-CRESOL	UG/L	1	1	1	1
M+P CRESOL	UG/L	1	1	1	1

B-CALCULATED VALUE C-DUP & SPIKE D-DUPLICATE SPIKE

FOOTNOTES : A-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M04A SJ40753 09/18/97	WEFI M04A SJ40754 09/18/97
CATIONS			
IRON	MG/L	6.94	6.84
MANGANESE	MG/L	1.77	1.77
METALS			
ARSENIC	MG/L	.0194	.0200
BARIUM	MG/L	0.03	0.03
CADMIUM	MG/L	<0.003	<0.003
TOTAL CHROMIUM	MG/L	<0.01	<0.01
COBALT	MG/L	<0.01	<0.01
COPPER	MG/L	<0.01	<0.01
LEAD	MG/L	<0.02	<0.02
MERCURY	MG/L	<.0001	<.0001
NICKEL	MG/L	<0.02	0.02
SELENIUM	MG/L	<.0010	<.0010
SILVER	MG/L	<0.01	<0.01
ZINC	MG/L	0.01	0.01
ANTIMONY	MG/L	<.0005	<.0005
BERYLLIUM	MG/L	<.0025	<.0025
THALLIUM	MG/L	<0.001	<0.001
TIN	MG/L	0.06	0.06
VANADIUM	MG/L	<0.05	<0.05

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL	WELL
M04B		M04B	
SJ40750		SJ44014	
09/18/97		12/19/97	
FIELD PARAMETERS			
DEPTH TO WATER	FT	27.22	28.92
DEPTH TO BOTTOM	FT	109.7	109.7
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	20
FIELD WATER TEMPERATURE	DEG C	24.73	18.48
FIELD PH	PH	6.89	7.29
FIELD CONDUCTIVITY	UMHOS/CM	1887	1943
FIELD DISSOLVED O2	MG/L	0.58	0.46
FIELD DISSOLVED CO2	MG/L	66	25
GENERAL			
PH	PH	7.54 A	7.86
CONDUCTIVITY	UMHOS/CM	1940	1930
TOTAL DISSOLVED SOLIDS	MG/L	1570	1514
TOTAL HARDNESS	MG/L CaCO3	692 D	8970 D
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.002 F
BORON	MG/L B	0.44	< 0.01
ANIONS			
NITRATE NITROGEN	MG/L N	< 0.05 B	< 0.04 F
SULFATE	MG/L SO4	776 B	847
CHLORIDE	MG/L CL	61.9 B	64.9
TOTAL ALKALINITY	MG/L CaCO3	290 C	280
BICARBONATE ALKALINITY	MG/L CaCO3	290	280
TOTAL SULFIDE	MG/L S	< 0.1 A	< 0.1 A
FLUORIDE	MG/L F	0.15	0.14
CATIONS			
CALCIUM-HARDNESS	MG/L CaCO3	330	474
MAGNESIUM-HARDNESS	MG/L CaCO3	362	498
SODIUM	MG/L NA	63.5	86.3
POTASSIUM	MG/L K	5.4	6.4
IRON	MG/L FE	1.46	0.73
MANGANESE	MG/L MN	0.12	0.13
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	1.01	1.24

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED F-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ40750 09/18/97	WELL M04B SJ44014 12/19/97
ORGANIC MATTER			
TOTAL BOD	MG/L	0.7	1
SOLUBLE BOD	MG/L	0.4	1
TOTAL COD	MG/L	3	4
SOLUBLE COD	MG/L	0.711	2
TOTAL ORGANIC CARBON	MG/L	<	1.05
OIL & GREASE	MG/L	4.1	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	1
METALS			
ARSENIC	MG/L	.0022	<.0010
BARIUM	MG/L	0.02	0.02
CADMIUM	MG/L	<0.003	<0.003
TOTAL CHROMIUM	MG/L	0.01	<0.04
COBALT	MG/L	<0.01	<0.02
COPPER	MG/L	<0.01	<0.01
LEAD	MG/L	<0.02	<0.02
MERCURY	MG/L	<0.001	<0.001
NICKEL	MG/L	<0.02	<0.02
SELENIUM	MG/L	<0.010	<0.010
SILVER	MG/L	0.01	<0.01
ZINC	MG/L	0.03	0.01
ANTIMONY	MG/L	<.0005	<.0005
BERYLLIUM	MG/L	<.0025	<.0025
THALLIUM	MG/L	<0.001	<0.001
TIN	MG/L	<0.06	<0.06
VANADIUM	MG/L	<0.05	<0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
2,4,5-T	UG/L	<0.05	<0.05
DINoseb	UG/L	<0.1	<0.1
THIONAZIN	UG/L	<1	<1
DIMETHOATE	UG/L	<1	<1
DISULFOTON	UG/L	<1	<1
METHYL PARATHION	UG/L	<1	<1
ETHYL PARATHION	UG/L	<1	<1
PHORATE	UG/L	<0.01	<0.01
PP'-DDE	UG/L	<0.01	<0.01
PP'-DDD	UG/L	<0.01	<0.01
PP'-DDT	UG/L	<0.01	<0.01

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED F-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ40750 09/18/97	WELL M04B M04B SJ44014 12/19/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
ALPHA-BHC	UG/L	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<
HEPTACHLOR	UG/L	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<
ALDRIN	UG/L	<	<
DELDRIN	UG/L	<	<
ENDRIN	UG/L	<	<
TOXAPHENE	UG/L	<	<
METHOXYCLOR	UG/L	<	<
2,4-D (ACID)	UG/L	<	<
2,4,5-TP (SILVEX)	UG/L	<	<
AROCLOR 1242	UG/L	<	<
AROCLOR 1254	UG/L	<	<
BETA-BHC	UG/L	<	<
DELTA-BHC	UG/L	<	<
ENDOSULFAN I	UG/L	<	<
ENDOSULFAN II	UG/L	<	<
ENDOSULFAN SULFATE	UG/L	<	<
ENDRIN ALDEHYDE	UG/L	<	<
AROCLOR 1016	UG/L	<	<
AROCLOR 1221	UG/L	<	<
AROCLOR 1232	UG/L	<	<
AROCLOR 1248	UG/L	<	<
AROCLOR 1260	UG/L	<	<
TECHNICAL CHLORDANE	UG/L	<	<
VOLATILE ORGANIC COMPOUNDS			
ALLYL CHLORIDE	UG/L	<	<
BROMOCHLOROMETHANE	UG/L	<	<
CHLOROPRENE	UG/L	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<
1,3-DICHLOROPROPANE	UG/L	<	<
2,2-DICHLOROPROPENE	UG/L	<	<
1,1-DICHLOROPROPENE	UG/L	<	<
ISOBUTYL ALCOHOL	UG/L	<	<
METHACRYLONITRILE	UG/L	<	<
METHYL IODIDE	UG/L	<	<
METHYLENE BROMIDE	UG/L	<	<
PROPIONITRILE	UG/L	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED F-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ40750 09/18/97	WELL M04B SJ44014 12/19/97
VOLATILE ORGANIC COMPOUNDS			
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1
METHYL METHACRYLATE	UG/L	<	<
ETHYL METHACRYLATE	UG/L	<	5
METHYLENE CHLORIDE	UG/L	<	1
CHLOROFORM	UG/L	<	1
1,1-TRICHLOROETHANE	UG/L	<	1
CARBON TETRACHLORIDE	UG/L	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	1
TRICHLOROETHYLENE	UG/L	<	1
TETRACHLOROETHYLENE	UG/L	<	1
BROMODICHLOROMETHANE	UG/L	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1
BROMOFORM	UG/L	<	1
CHLOROBENZENE	UG/L	<	1
VINYL CHLORIDE	UG/L	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	1
M-DICHLOROBENZENE	UG/L	<	1
P-DICHLOROBENZENE	UG/L	<	1
1,1-DICHLOROETHANE	UG/L	<	1
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5
BENZENE	UG/L	<	1
TOLUENE	UG/L	<	1
ETHYL BENZENE	UG/L	<	1
VINYL ACETATE	UG/L	10	10
O-XYLENE	UG/L	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1
BROMOMETHANE	UG/L	<	1
CHLOROETHANE	UG/L	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1
CHLOROMETHANE	UG/L	<	1
1,2-DICHLOROPROPANE	UG/L	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5
ACROLEIN	UG/L	10	10
ACRYLONITRILE	UG/L	10	10
ACETONITRILE	UG/L	20	20
FREON 12 (CCL2F2)	UG/L	<	1
FREON 11 (CCL3F)	UG/L	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED F-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ40750 09/18/97	WELL M04B SJ44014 12/19/97
VOLATILE ORGANIC COMPOUNDS			
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10
STYRENE	UG/L	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1
2-HEXANONE	UG/L	< 5	< 1
		CS2	
		C6H12O	
ACID-BASE NEUTRAL EXTRACTABLE			
ACETOPHENONE	UG/L	<	<
2-ACETYLAMINOFLORENE	UG/L	<	<
4-AMINOBIHENYL	UG/L	<	<
BENZYL ALCOHOL	UG/L	<	<
P-CHLOROANILINE	UG/L	<	<
CHLOROANILINE	UG/L	<	<
DIALIATE	UG/L	<	<
DIBENZOFURAN	UG/L	<	<
2,6-DICHLOROPHENOL	UG/L	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<
M-DINITROBENZENE	UG/L	<	<
DIPHENYLAMINE	UG/L	<	<
ETHYL METHANESULFONATE	UG/L	<	<
FAMPHUR	UG/L	<	<
HEXACHLOROPROPENE	UG/L	<	<
ISODRIN	UG/L	<	<
ISOSAFROLE	UG/L	<	<
KEPONE	UG/L	<	<
METHAPYRILENE	UG/L	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<
METHYL METHANESULFONATE	UG/L	<	<
2-METHYLNAPHTHALENE	UG/L	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<
1-NAPHTHYLAMINE	UG/L	<	<
2-NAPHTHYLAMINE	UG/L	<	<
O-NITROANILINE	UG/L	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED F-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL	WELL
M-NITROANILINE	UG/L	M04B	M04B
P-NITROANILINE	UG/L	SJ40750	SJ44014
N-NITROSODI-N-BUTYLAMINE	UG/L	09/18/97	12/19/97
N-NITROSODIETHYLAMINE	UG/L		
N-NITROSOMETHYLETHYLAMINE	UG/L		
N-NITROSOPIPERIDINE	UG/L		
N-NITROSOPYRROLIDINE	UG/L		
5-NITRO-O-TOLUIDINE	UG/L		
PENTACHLOROBENZENE	UG/L		
PENTACHLORONITROBENZENE	UG/L		
PHENACETIN	UG/L		
P-PHENYLENEDIAMINE	UG/L		
PRONAMIDE	UG/L		
SAFROLE	UG/L		
1,2,4,5-TETRACHLOROBENZEN	UG/L		
2,3,4,6-TETRACHLOROPHENOL	UG/L		
O-TOLUIDINE	UG/L		
O,O,O-TRIETHYLPHOSPHOROTH	UG/L		
SYM-TRINITROBENZENE	UG/L		
ACENAPHTHENE	UG/L		
ACENAPHTHYLENE	UG/L		
ANTHRACENE	UG/L		
BENZIDINE	UG/L		
BENZO (A) ANTHRACENE	UG/L		
BENZO (A) PYRENE	UG/L		
BENZO (B) FLUORANTHENE	UG/L		
BENZO (G, H, I, J) PERYLENE	UG/L		
BENZO (K) FLUORANTHENE	UG/L		
BIS (2-CL-ETHOXY) METHANE	UG/L		
BIS (2-CL-CHLOROETHYL) ETHER	UG/L		
BIS (2-CL-ISOPROPYL) ETHER	UG/L		
DIETHYLHEXYL PHTHALATE	UG/L		
4-BROMOPHENYL PHENYLETHER	UG/L		
BUTYLBENZYL PHTHALATE	UG/L		
2-CHLORONAPHTHALENE	UG/L		
4-CHLOROPHENYLPHENYLETHER	UG/L		
CHRYSENE	UG/L		
DIBENZO (A, H) ANTHRACENE	UG/L		
3,3'-DICHLOROBENZIDINE	UG/L		
DIETHYL PHTHALATE	UG/L		
DIMETHYL PHTHALATE	UG/L		

B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

FOOTNOTES : A-AVERAGE OF DUPS
 F-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ40750 09/18/97	WELL M04B SJ44014 12/19/97
ACID-BASE NEUTRAL EXTRACTABLE			
DI-N-BUTYL PHTHALATE	UG/L	<	1
2,4-DINITROTOLUENE	UG/L	<	1
2,6-DINITROTOLUENE	UG/L	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	20
FLUORANTHENE	UG/L	<	1
FLUORENE	UG/L	<	1
HEXACHLOROBENZENE	UG/L	<	1
HEXACHLOROBUTADIENE	UG/L	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5
HEXACHLOROETHANE	UG/L	<	1
INDENO (1,2,3-C,D) PYRENE	UG/L	<	1
ISOPHORONE	UG/L	<	1
NAPHTHALENE	UG/L	<	1
NITROBENZENE	UG/L	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1
PHENANTHRENE	UG/L	<	1
PYRENE	UG/L	<	1
2-CHLOROPHENOL	UG/L	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1
2,4-DICHLOROPHENOL	UG/L	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1
2,4-DINITROPHENOL	UG/L	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1
2-NITROPHENOL	UG/L	<	1
4-NITROPHENOL	UG/L	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1
PENTACHLOROPHENOL	UG/L	<	1
PHENOL	UG/L	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1
O-CRESOL	UG/L	<	1
M+P CRESOL	UG/L	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED F-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M04B SJ40748 09/18/97	WEFI M04B SJ44013 12/19/97
CATIONS			
IRON	MG/L FE	0.68 A	0.66 A
MANGANESE	MG/L MN	0.14 A	0.13 A
METALS			
ARSENIC	MG/L AS	.0011	<.0010
BARIUM	MG/L BA	0.02 A	0.02 A
CADMIUM	MG/L CD	<0.003	<0.003 A
TOTAL CHROMIUM	MG/L CR	<0.01 A	<0.04 A
COBALT	MG/L CO	<0.01 A	<0.02 A
COPPER	MG/L CU	<0.01 A	<0.01 A
LEAD	MG/L PB	<0.02 A	<0.02 A
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	<0.02 A	<0.02 A
SELENIUM	MG/L SE	<.0010	<.0010
SILVER	MG/L AG	<0.01 A	<0.01 A
ZINC	MG/L ZN	<0.01 A	<0.03
ANTIMONY	MG/L SB	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0025	<.0025
THALLIUM	MG/L TL	<0.001	<0.001
TIN	MG/L SN	<0.06 A	<0.06 A
VANADIUM	MG/L V	<0.05 A	<0.05 A

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ40751 09/18/97	WELL M05A SJ44155 12/29/97
FIELD PARAMETERS			
DEPTH TO WATER	FT	62.16	61.25
DEPTH TO BOTTOM	FT	76.65	76.72
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	21	20.54
FIELD WATER TEMPERATURE	DEG C	26.35	6.69
FIELD PH	PH	6.87	2330
FIELD CONDUCTIVITY	UMHOS/CM	2487	1.31
FIELD DISSOLVED O2	MG/L	5.13	104
FIELD DISSOLVED CO2	MG/L	61	
GENERAL			
PH	PH	7.14	7.11 C
CONDUCTIVITY	UMHOS/CM	3320	
TOTAL DISSOLVED SOLIDS	MG/L	1675	1413
TOTAL HARDNESS	MG/L CaCO3	630	B
TOTAL CYANIDE	MG/L CN	< 0.01	
BORON	MG/L B	0.44	
ANIONS			
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.04 D
SULFATE	MG/L SO4	513 A	353 D
CHLORIDE	MG/L CL	382 A	382 D
TOTAL ALKALINITY	MG/L CaCO3	256	291
BICARBONATE ALKALINITY	MG/L CaCO3	256	287
TOTAL SULFIDE	MG/L S	< 0.1	
FLUORIDE	MG/L F	0.67	
CATIONS			
CALCIUM-HARDNESS	MG/L CaCO3	317	292 E
MAGNESIUM-HARDNESS	MG/L CaCO3	313	266 E
SODIUM	MG/L NA	295	281 E
POTASSIUM	MG/L K	11.3	8.0 E
IRON	MG/L FE	0.12	
MANGANESE	MG/L MN	0.54	
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL	WELL
M05A		M05A	
SJ40751		SJ44155	
09/18/97		12/29/97	

ORGANIC MATTER	MG/L	O	4	D
TOTAL BOD	<	0.7		
SOLUBLE BOD	<	0.7		
TOTAL COD		33		
SOLUBLE COD		6		32
TOTAL ORGANIC CARBON		8.06		8.41
OIL & GREASE		1		
TOTAL ORGANIC HALOGEN (TOX)		280	A	

METALS	MG/L	AS
ARSENIC	.0034	
BARIUM	0.02	
CADMIUM	<0.003	
TOTAL CHROMIUM	<0.01	
COBALT	<0.01	
COPPER	<0.01	
LEAD	<0.02	
MERCURY	<.0001	
NICKEL	0.03	
SELENIUM	<.0010	
SILVER	<0.01	
ZINC	<0.01	
ANTIMONY	<0.01	
BERYLLIUM	<.0005	
THALLIUM	<.0025	
TIN	<0.001	
VANADIUM	<0.06	
	<0.05	

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS	UG/L
2,4,5-T	<0.1
DINOSEB	<0.2
THIONAZIN	1
DIMETHOATE	1
DISULFOTON	1
METHYL PARATHION	1
PHORATE	1
PP'-DDE	<0.01
PP'-DDD	<0.01
PP'-DDT	<0.01

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ40751 09/18/97	WELL M05A SJ44155 12/29/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
ALPHA-BHC	UG/L	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	
HEPTACHLOR	UG/L	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	
ALDRIN	UG/L	< 0.01	
DELDRIN	UG/L	< 0.01	
ENDRIN	UG/L	< 0.01	
TOXAPHENE	UG/L	< 0.5	
METHOXYCLOR	UG/L	< 0.01	
2,4-D (ACID)	UG/L	< 0.1	
2,4,5-TP (SILVEX)	UG/L	< 0.1	
AROCLOR 1242	UG/L	< 0.05	
AROCLOR 1254	UG/L	< 0.01	
BETA-BHC	UG/L	< 0.01	
DELTA-BHC	UG/L	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.1	
ENDRIN ALDEHYDE	UG/L	< 0.01	
AROCLOR 1016	UG/L	< 0.1	
AROCLOR 1221	UG/L	< 0.1	
AROCLOR 1232	UG/L	< 0.1	
AROCLOR 1248	UG/L	< 0.1	
AROCLOR 1260	UG/L	< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.05	
VOLATILE ORGANIC COMPOUNDS			
ALLYL CHLORIDE	UG/L	< 1	
BROMOCHLOROMETHANE	UG/L	< 1	
CHLOROPRENE	UG/L	< 1	
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	1
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.05	1
1,3-DICHLOROPROPANE	UG/L	< 0.3	
2,2-DICHLOROPROPANE	UG/L	< 1	
1,1-DICHLOROPROPENE	UG/L	< 1	
ISOBUTYL ALCOHOL	UG/L	< 10	
METHACRYLONITRILE	UG/L	< 10	
METHYL IODIDE	UG/L	< 1	1
METHYLENE BROMIDE	UG/L	< 1	1
PROPIONITRILE	UG/L	< 10	

FOOTNOTES : A-AVERAGE

B-CALCULATED VALUE

C-AVERAGE OF DUPS

D-DUP & SPIKE

E-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ40751 09/18/97	WELL M05A SJ44155 12/29/97	B-CALCULATED VALUE	C-AVERAGE OF DUPS	D-DUP & SPIKE	E-DUPLICATE SPIKE
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1		
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1		
METHYL METHACRYLATE	UG/L	<	10	<			
ETHYL METHACRYLATE	UG/L	<	5	<			
METHYLENE CHLORIDE	UG/L	<	1	<	1		
CHLOROFORM	UG/L	<	1	<	1		
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1		
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3		
1,1-DICHLOROETHENE	UG/L	<	1	<	1		
TRICHLOROETHYLENE	UG/L	<	1	<	1		
TETRACHLOROETHYLENE	UG/L	<	1	<	1		
BROMODICHLOROMETHANE	UG/L	<	1	<	1		
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1		
BROMOFORM	UG/L	<	1	<	1		
CHLOROETHENE	UG/L	<	1	<	1		
VINYL CHLORIDE	UG/L	<	1	<	1		
O-DICHLOROBENZENE	UG/L	<	1	<	1		
M-DICHLOROBENZENE	UG/L	<	1	<	1		
P-DICHLOROBENZENE	UG/L	<	1	<	1		
1,1-DICHLOROETHANE	UG/L	<	1	<	1		
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1		
1,2-DICHLOROETHANE	UG/L	<	0.3	<	0.3		
BENZENE	UG/L	<	0.5	<	0.5		
TOLUENE	UG/L	<	1	<	1		
ETHYL BENZENE	UG/L	<	1	<	1		
VINYL ACETATE	UG/L	<	10	<	10		
O-XYLENE	UG/L	<	1	<	1		
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1		
BROMOMETHANE	UG/L	<	1	<	1		
CHLOROETHANE	UG/L	<	1	<	1		
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1		
CHLOROMETHANE	UG/L	<	1	<	1		
1,2-DICHLOROPROPANE	UG/L	<	1	<	1		
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1		
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1		
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5		
ACROLEIN	UG/L	<	10	<	10		
ACRYLONITRILE	UG/L	<	10	<	10		
ACETONITRILE	UG/L	<	20	<	20		
FREON 12 (CCL2F2)	UG/L	<	1	<	1		
FREON 11 (CCL3F)	UG/L	<	1	<	1		

FOOTNOTES : A-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ40751 09/18/97	WELL M05A SJ44155 12/29/97
1,2-DIBROMOETHANE	UG/L	0.27	<
ACETONE	UG/L	10	<
CIS-1,2-DICHLOROETHYLENE	UG/L	1	<
2-BUTANONE	UG/L	10	<
4-METHYL-2-PENTANONE	UG/L	10	<
STYRENE	UG/L	1	<
2,4,5-TRICHLOROPHENOL	UG/L	1	<
M+P-XYLENE	UG/L	1	<
CARBON DISULFIDE	UG/L	1	<
2-HEXANONE	UG/L	5	<

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ40751 09/18/97	WELL M05A SJ44155 12/29/97
ACETOPHENONE	UG/L	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<
4-AMINOBIPHENYL	UG/L	<	<
BENZYL ALCOHOL	UG/L	<	<
P-CHLOROANILINE	UG/L	<	<
CHLOROBENZILATE	UG/L	<	<
DIALATE	UG/L	<	<
DIBENZOFURAN	UG/L	<	<
2,6-DICHLOROPHENOL	UG/L	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	10	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<
M-DINITROBENZENE	UG/L	<	<
DIPHENYLAMINE	UG/L	<	<
ETHYL METHANESULFONATE	UG/L	<	<
FAMPHUR	UG/L	<	<
HEXACHLOROPROPENE	UG/L	5	<
ISODRIN	UG/L	<	<
ISOSAFROLE	UG/L	<	<
KEPONE	UG/L	10	<
METHAPYRILENE	UG/L	20	<
3-METHYLCHOLANTHRENE	UG/L	<	<
METHYL METHANESULFONATE	UG/L	<	<
2-METHYLNAPHTHALENE	UG/L	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<
1-NAPHTHYLAMINE	UG/L	<	<
2-NAPHTHYLAMINE	UG/L	<	<
O-NITROANILINE	UG/L	<	<

FOOTNOTES : A-AVERAGE

B-CALCULATED VALUE

C-AVERAGE OF DUPS

D-DUP & SPIKE

E-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL M05A
 WELL M05A
 SJ40751 SJ44155
 09/18/97 12/29/97

CONSTITUENT/WELL NO. UNITS

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT	WELL NO.	UNITS	B-CALCULATED VALUE	C-AVERAGE OF DUPS	D-DUP & SPIKE	E-DUPLICATE SPIKE
M-NITROANILINE		UG/L	<			
P-NITROANILINE		UG/L	<			
N-NITROSODI-N-BUTYLAMINE		UG/L	<			
N-NITROSODIETHYLAMINE		UG/L	<			
N-NITROSOMETHYLETHYLAMINE		UG/L	<			
N-NITROSOPYRIDINE		UG/L	<			
N-NITROSOPYRROLIDINE		UG/L	<			
5-NITRO-O-TOLUIDINE		UG/L	<			
PENTACHLOROBENZENE		UG/L	<			
PENTACHLORONITROBENZENE		UG/L	<			
PHENACETIN		UG/L	<			
P-PHENYLENEDIAMINE		UG/L	<			
PRONAMIDE		UG/L	<			
SAFROLE		UG/L	<			
1,2,4,5-TETRACHLOROBENZEN		UG/L	<			
2,3,4,6-TETRACHLOROPHENOL		UG/L	<			
O-TOLUIDINE		UG/L	<			
O,O,O-TRIETHYLPHOSPHOROTH		UG/L	<			
SYM-TRINITROBENZENE		UG/L	<			
ACENAPHTHENE		UG/L	<			
ACENAPHTHYLENE		UG/L	<			
ANTHRACENE		UG/L	<			
BENZIDINE		UG/L	<			
BENZO (A) ANTHRACENE		UG/L	<			
BENZO (A) PYRENE		UG/L	<			
BENZO (B) FLUORANTHENE		UG/L	<			
BENZO (G, H, I) PERYLENE		UG/L	<			
BENZO (K) FLUORANTHENE		UG/L	<			
BIS (2-CL-ETHOXY) METHANE		UG/L	<			
BIS (2-CL-CHLOROETHYL) ETHER		UG/L	<			
BIS (2-CL-ISOPROPYL) ETHER		UG/L	<			
DIETHYLHEXYL PHTHALATE		UG/L	<			
4-BROMOPHENYL PHENYLETHER		UG/L	<			
BUTYLBENZYL PHTHALATE		UG/L	<			
2-CHLORONAPHTHALENE		UG/L	<			
4-CHLOROPHENYLPHENYLETHER		UG/L	<			
CHRYSENE		UG/L	<			
DIBENZO (A, H) ANTHRACENE		UG/L	<			
3,3'-DICHLOROBENZIDINE		UG/L	<			
DIETHYL PHTHALATE		UG/L	<			
DIMETHYL PHTHALATE		UG/L	<			

FOOTNOTES : A-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ40751 09/18/97	WELL M05A SJ44155 12/29/97
ACID-BASE NEUTRAL EXTRACTABLE			
DI-N-BUTYL PHTHALATE	UG/L	<	1
2,4-DINITROTOLUENE	UG/L	<	1
2,6-DINITROTOLUENE	UG/L	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	16
FLUORANTHENE	UG/L	<	1
FLUORENE	UG/L	<	1
HEXACHLOROBENZENE	UG/L	<	1
HEXACHLOROBUTADIENE	UG/L	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5
HEXACHLOROETHANE	UG/L	<	1
INDENO(1,2,3-C,D) PYRENE	UG/L	<	1
ISOPHORONE	UG/L	<	1
NAPHTHALENE	UG/L	<	1
NITROBENZENE	UG/L	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1
PHENANTHRENE	UG/L	<	1
PYRENE	UG/L	<	1
2-CHLOROPHENOL	UG/L	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1
2,4-DICHLOROPHENOL	UG/L	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1
2,4-DINITROPHENOL	UG/L	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1
2-NITROPHENOL	UG/L	<	1
4-NITROPHENOL	UG/L	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1
PENTACHLOROPHENOL	UG/L	<	1
PHENOL	UG/L	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1
O-CRESOL	UG/L	<	1
M+P CRESOL	UG/L	<	1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-AVERAGE OF DUPS D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M05A SJ40749 09/18/97
CATIONS		
IRON	MG/L FE	< 0.02
MANGANESE	MG/L MN	< 0.55
METALS		
ARSENIC	MG/L AS	.0032
BARIUM	MG/L BA	0.02
CADMIUM	MG/L CD	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	< 0.02
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	<.0010
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	< 0.01
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025 A
THALLIUM	MG/L TL	<0.001 A
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ32361 03/04/97	WELL RMW6 SJ32362 03/04/97	WELL RMW6 SJ36327 06/10/97	WELL RMW6 SJ40227 09/04/97	WELL RMW6 SJ40228 09/04/97	WELL RMW6 SJ44066 12/12/97
FIELD PARAMETERS							
DEPTH TO WATER	FT	56.91	56.72	56.86	56.86	56.86	56.28
DEPTH TO BOTTOM	FT	90.27	< 0.1	90.86	< 0.1	90.82	< 0.1
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	21	19	19	21	21
FIELD WATER TEMPERATURE	DEG C	21.53	23.06	24.07	24.07	21.6	21.6
FIELD PH	PH	6.48	6.52	6.36	6.36	6.57	6.57
FIELD CONDUCTIVITY	UMHOS/CM	2525	2641	2547	2547	2135	2135
FIELD DISSOLVED O2	MG/L	0.34	0.47	0.29	0.29	0.43	0.43
FIELD DISSOLVED CO2	MG/L	291	289	415	415	191	191
GENERAL							
PH	PH	6.93	6.94	6.90	7.00	7.12	7.12
CONDUCTIVITY	UMHOS/CM	1773	1763	2050	2510	2510	2510
TOTAL DISSOLVED SOLIDS	MG/L	1773	1763	2050	1874	1859	1510
TOTAL HARDNESS	MG/L CACO3	1773	1763	2050	1059 D	1049 D	1510
TOTAL CYANIDE	MG/L CN	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
BORON	MG/L B	0.85	0.85	0.88	0.85	0.88	0.85
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A	< 0.05 A	< 0.04
SULFATE	MG/L SO4	586 A	582 A	496 A	495 A	498 A	587 C
CHLORIDE	MG/L CL	219 A	219 A	266 A	265 A	266 A	157 C
TOTAL ALKALINITY	MG/L CACO3	500	514	546	541	538	404
BICARBONATE ALKALINITY	MG/L CACO3	500	514	546	541	538	404
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	549 B	554	529	549	547	474
MAGNESIUM-HARDNESS	MG/L CACO3	502 B	506	519	510	502	457
SODIUM	MG/L NA	161 B	162	170	175	172	154
POTASSIUM	MG/L K	6.8 B	7.0	7.1	7.2	7.0	6.5
IRON	MG/L FE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
MANGANESE	MG/L MN	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6
ORGANIC MATTER						
TOTAL BOD	MG/L	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
SOLUBLE BOD	MG/L					
TOTAL COD	MG/L	24	11	28 C	34	33
SOLUBLE COD	MG/L					
TOTAL ORGANIC CARBON	MG/L	7.11 B	7.06	10.8	9.46 B	9.19
OIL & GREASE	MG/L				1.6	1
TOTAL ORGANIC HALOGEN (TOX)	UG/L				150 A	140 A
EXTRAC						
METALS						
AS	MG/L	<.0010	<.0010	<.0010	<.0010	<.0010
BA	MG/L	0.04	0.04	0.04	0.04	0.03
BAR	MG/L	<0.003	<0.003	<0.003	<0.003	<0.003
CD	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01
CR	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01
CO	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01
CU	MG/L	<0.02	<0.02	<0.02	<0.02	<0.02
PB	MG/L	<.0001	<.0001	<.0001	<.0001	<.0001
HG	MG/L	<0.02	<0.02	<0.02	<0.02	<0.03
NI	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01
SE	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01
AG	MG/L	<.0005	<.0005	<.0005	<.0005	<.0005
ZN	MG/L	<.0025	<.0025	<.0025	<.0025	<.0025
SB	MG/L	<0.001	<0.001	<0.001	<0.001	<0.001
BE	MG/L	<0.06	<0.06	<0.06	<0.06	<0.06
TL	MG/L	<0.05	<0.05	<0.05	<0.05	<0.05
SN	MG/L	<0.05	<0.05	<0.05	<0.05	<0.05
V	MG/L	<0.05	<0.05	<0.05	<0.05	<0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L	<0.05	<0.05	<0.05	<0.05	<0.05
DINOSB	UG/L	<0.1	<0.1	<0.1	<0.1	<0.1
THIONAZIN	UG/L	<1	<1	<1	<1	<1
DIMETHOATE	UG/L	<1	<1	<1	<1	<1
DISULFOTON	UG/L	<1	<1	<1	<1	<1
METHYL PARATHION	UG/L	<1	<1	<1	<1	<1
ETHYL PARATHION	UG/L	<1	<1	<1	<1	<1
PHORATE	UG/L	<1	<1	<1	<1	<1
PP'-DDE	UG/L	<0.01	<0.01	<0.01	<0.01	<0.01
PP'-DDD	UG/L	<0.01	<0.01	<0.01	<0.01	<0.01
PP'-DDT	UG/L	<0.01	<0.01	<0.01	<0.01	<0.01

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ32361 03/04/97	WELL RMW6 SJ32362 03/04/97	WELL RMW6 SJ36327 06/10/97	WELL RMW6 SJ40227 09/04/97	WELL RMW6 SJ40228 09/04/97	WELL RMW6 SJ44066 12/12/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	<	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<	<
METHOXYCLOL	UG/L	<	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE

B-DUPLICATE SPIKE

C-DUP & SPIKE

D-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ32361 03/04/97	WELL RMW6 SJ32362 03/04/97	WELL RMW6 SJ36327 06/10/97	WELL RMW6 SJ40227 09/04/97	WELL RMW6 SJ40228 09/04/97	WELL RMW6 SJ44066 12/12/97
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	<
1,2,3-TRICHLOROPROPANE	UG/L	1	1	<	1	<	1
METHYL METHACRYLATE	UG/L	<	<	<	10	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	5	<	1
METHYLENE CHLORIDE	UG/L	<	1	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	<	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	1	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1
BROMOFORM	UG/L	<	1	<	1	<	1
CHLOROBENZENE	UG/L	<	1	<	1	<	1
VINYL CHLORIDE	UG/L	<	1	<	1	<	1
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1
1,1-DICHLOROETHANE	UG/L	5	5	4	4	4	3
1,1,2-TRICHLOROETHANE	UG/L	2	2	1	1	1	2
1,2-DICHLOROETHANE	UG/L	<	1	<	1	<	1
BENZENE	UG/L	0.5	0.5	0.5	0.5	0.8	0.5
TOLUENE	UG/L	<	1	<	1	<	<
ETHYL BENZENE	UG/L	<	1	<	1	<	<
VINYL ACETATE	UG/L	10	10	10	10	10	10
O-XYLENE	UG/L	<	1	<	1	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	<
BROMOMETHANE	UG/L	<	1	<	1	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	<
CHLOROETHANE	UG/L	<	1	<	1	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	<
CHLOROMETHANE	UG/L	<	1	<	1	<	<
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	10	<	10
ACETONITRILE	UG/L	<	20	<	20	<	20
FREON 12 (CCL2F2)	UG/L	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ32361 03/04/97	WELL RMW6 SJ32362 03/04/97	WELL RMW6 SJ36327 06/10/97	WELL RMW6 SJ40227 09/04/97	WELL RMW6 SJ40228 09/04/97	WELL RMW6 SJ44066 12/12/97
VOLATILE ORGANIC COMPOUNDS							
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	27	24	12	11	10	11
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE							
ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFUORENE	UG/L	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ32361 03/04/97	WELL RMW6 SJ32362 06/10/97	WELL RMW6 SJ36327 09/04/97	WELL RMW6 SJ40227 09/04/97	WELL RMW6 SJ40228 09/04/97	WELL RMW6 SJ44066 12/12/97
ACID-BASE NEUTRAL EXTRACTABLE							
M-NITROANILINE	UG/L	<	<	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	5	<	<	<	5
PHENACETIN	UG/L	<	<	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	20	<	<	<	20
PRONAMIDE	UG/L	<	<	<	<	<	1
SAFROLE	UG/L	<	<	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	5	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	<	1
BENZIDINE	UG/L	<	20	<	<	<	20
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	<	1
BENZO(A)PYRENE	UG/L	<	0.2	<	<	0.2	1
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	<	1
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	<	1
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	<	1
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	<	1
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	<	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	1
CHRYSENE	UG/L	<	<	<	<	<	1
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	1

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 03/04/97	WELL RMW6 03/04/97	WELL RMW6 06/10/97	WELL RMW6 SJ36327	WELL RMW6 SJ40227	WELL RMW6 SJ40228	WELL RMW6 SJ44066
ACID-BASE NEUTRAL EXTRACTABLE								
DI-N-BUTYL PHTHALATE	UG/L							
2,4-DINITROTOLUENE	UG/L							
2,6-DINITROTOLUENE	UG/L							
DI-N-OCTYL PHTHALATE	UG/L							
FLUORANTHENE	UG/L							
FLUORENE	UG/L							
HEXACHLOROBENZENE	UG/L							
HEXACHLOROCYCLOPENTADIENE	UG/L							
HEXACHLOROCYCLOPENTADIENE	UG/L							
HEXACHLOROETHANE	UG/L							
INDENO(1,2,3-C,D) PYRENE	UG/L							
ISOPHORONE	UG/L							
NAPHTHALENE	UG/L							
NITROBENZENE	UG/L							
N-NITROSODIMETHYLAMINE	UG/L							
N-NITROSODI-N-PROPYLAMINE	UG/L							
PHENANTHRENE	UG/L							
PYRENE	UG/L							
2-CHLOROPHENOL	UG/L							
1,2,4-TRICHLOROBENZENE	UG/L							
2,4-DICHLOROPHENOL	UG/L							
2,4-DIMETHYLPHENOL	UG/L							
2,4-DINITROPHENOL	UG/L							
2-METHYL-4,6-DINITROPHENOL	UG/L							
2-NITROPHENOL	UG/L							
4-NITROPHENOL	UG/L							
4-CHLORO-3-METHYLPHENOL	UG/L							
PENTACHLOROPHENOL	UG/L							
PHENOL	UG/L							
2,4,6-TRICHLOROPHENOL	UG/L							
N-NITROSODIPHENYLAMINE	UG/L							
O-CRESOL	UG/L							
M+P CRESOL	UG/L							

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-DUP & SPIKE D-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI RMW6 SJ40225 09/04/97	WEFI RMW6 SJ40226 09/04/97
CATIONS			
IRON	MG/L	0.10	0.07
MANGANESE	MG/L	7.38	7.15
METALS			
ARSENIC	MG/L	< 0.010	< 0.010
BARIIUM	MG/L	0.03	0.03
CADMIUM	MG/L	< 0.003	< 0.003
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01
COBALT	MG/L	< 0.01	< 0.01
COPPER	MG/L	< 0.01	< 0.01
LEAD	MG/L	< 0.02	< 0.02
MERCURY	MG/L	< 0.0001	< 0.0001
NICKEL	MG/L	0.02	0.02
SELENIUM	MG/L	< 0.010	< 0.010
SILVER	MG/L	< 0.01	< 0.01
ZINC	MG/L	< 0.01	< 0.01
ANTIMONY	MG/L	< 0.005	< 0.005
BERYLLIUM	MG/L	< 0.005	< 0.005
THALLIUM	MG/L	< 0.001	< 0.001
TIN	MG/L	< 0.06	< 0.06
VANADIUM	MG/L	< 0.05	< 0.05

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ41193 10/01/97	WELL M10B SJ41194 10/01/97	WELL M10B SJ43714 12/11/97
FIELD PARAMETERS				
DEPTH TO WATER	FT	51.11		47.87
DEPTH TO BOTTOM	FT	89.65		89.59
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	19		20
FIELD WATER TEMPERATURE	DEG C	23.83		22.18
FIELD PH	PH	6.48		6.55
FIELD CONDUCTIVITY	UMHOS/CM	2893		2797
FIELD DISSOLVED O2	MG/L	0.93		0.44
FIELD DISSOLVED CO2	MG/L	273		237
GENERAL				
PH	PH	6.98 A	6.96	6.94
CONDUCTIVITY	UMHOS/CM	2830 B	2830	2830
TOTAL DISSOLVED SOLIDS	MG/L	2251	2282	2042
TOTAL HARDNESS	MG/L CaCO3	1372	1327	
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	
BORON	MG/L B	0.90	0.90	
ANIONS				
NITRATE NITROGEN	MG/L N	0.06	0.06	0.07
SULFATE	MG/L SO4	1020	1020	1040
CHLORIDE	MG/L CL	122	110	118
TOTAL ALKALINITY	MG/L CaCO3	470	511	480
BICARBONATE ALKALINITY	MG/L CaCO3	470	511	480
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	
FLUORIDE	MG/L F	0.76	0.78	
CATIONS				
CALCIUM-HARDNESS	MG/L CaCO3	775	750	1500
MAGNESIUM-HARDNESS	MG/L CaCO3	597	577	1240
SODIUM	MG/L NA	190	195	390
POTASSIUM	MG/L K	7.3	7.2	13.4
IRON	MG/L FE	0.68	0.38	
MANGANESE	MG/L MN	.0022	.0024	
ORGANIC MATTER				
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ41193 10/01/97	WELL M10B SJ41194 10/01/97	WELL M10B SJ43714 12/11/97
ORGANIC MATTER				
TOTAL BOD	MG/L O	< 0.7	B < 0.7	< 0.7
SOLUBLE BOD	MG/L O	< 0.7	B < 0.7	< 0.7
TOTAL COD	MG/L O	6	4	B 4
SOLUBLE COD	MG/L O	5	4	4
TOTAL ORGANIC CARBON	MG/L C	1.82	C 2.10	2.01
OIL & GREASE	MG/L EXTRAC	1	1	1
TOTAL ORGANIC HALOGEN (TOX)	UG/L	69	C 64	D 64
METALS				
ARSENIC	MG/L AS	< .0010	< .0010	< .0010
BARIUM	MG/L BA	0.031	0.028	0.028
CADMIUM	MG/L CD	.0011	< .0005	< .0005
TOTAL CHROMIUM	MG/L CR	.0077	< .0002	< .0002
COBALT	MG/L CO	0.014	.0026	.0026
COPPER	MG/L CU	0.030	.0081	.0081
LEAD	MG/L PB	< .0005	.0008	.0008
MERCURY	MG/L HG	< .0002	< .0002	< .0002
NICKEL	MG/L NI	.0098	.0097	.0097
SELENIUM	MG/L SE	< .0010	< .0010	< .0010
SILVER	MG/L AG	< .0005	< .0005	< .0005
ZINC	MG/L ZN	.0028	0.026	0.026
ANTIMONY	MG/L SB	< .0005	< .0005	< .0005
BERYLLIUM	MG/L BE	< .0001	< .0001	< .0001
THALLIUM	MG/L TL	< .0001	< .0001	< .0001
TIN	MG/L SN	< .01	< .01	< .01
VANADIUM	MG/L V	< .010	< .010	< .010
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
2,4,5-T	UG/L	< 0.05	< 0.05	< 0.05
DINoseb	UG/L	< 0.1	< 0.1	< 0.1
THIONAZIN	UG/L	< 1	< 1	< 1
DIMETHOATE	UG/L	< 1	< 1	< 1
DISULFOTON	UG/L	< 1	< 1	< 1
METHYL PARATHION	UG/L	< 1	< 1	< 1
ETHYL PARATHION	UG/L	< 1	< 1	< 1
PHORATE	UG/L	< 0.01	< 0.01	< 0.01
pp'-DDE	UG/L	< 0.01	< 0.01	< 0.01
pp'-DDD	UG/L	< 0.01	< 0.01	< 0.01
pp'-DDT	UG/L	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ411193 10/01/97	WELL M10B SJ411194 10/01/97	WELL M10B SJ43714 12/11/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01
DELDRIN	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1254	UG/L	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1221	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1232	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1248	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1260	UG/L	< 0.01	< 0.01	< 0.01
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS				
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.3	< 0.3	< 0.3
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 10	< 10	< 10
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ41193 10/01/97	WELL M10B SJ41194 10/01/97	WELL M10B SJ43714 12/11/97
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<
METHYL METHACRYLATE	UG/L	10	<	<
ETHYL METHACRYLATE	UG/L	5	<	<
METHYLENE CHLORIDE	UG/L	1	<	<
CHLOROFORM	UG/L	1	<	<
1,1-TRICHLOROETHANE	UG/L	1	<	<
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	8	4	7
TRICHLOROETHYLENE	UG/L	4	4	6
TETRACHLOROETHYLENE	UG/L	1	<	<
BROMODICHLOROMETHANE	UG/L	1	<	<
DIBROMOCHLOROMETHANE	UG/L	1	<	<
BROMOFORM	UG/L	1	<	<
CHLOROBENZENE	UG/L	2	2	2
VINYL CHLORIDE	UG/L	1	1	1
O-DICHLOROBENZENE	UG/L	1	1	1
M-DICHLOROBENZENE	UG/L	1	1	1
P-DICHLOROBENZENE	UG/L	8	7	7
1,1-DICHLOROETHANE	UG/L	6	6	6
1,1,2-TRICHLOROETHANE	UG/L	1	<	<
1,2-DICHLOROETHANE	UG/L	2	12.5	2
BENZENE	UG/L	0.5	0.5	0.5
TOLUENE	UG/L	1	<	<
ETHYL BENZENE	UG/L	1	<	<
VINYL ACETATE	UG/L	10	10	10
O-XYLENE	UG/L	1	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	1	<	<
BROMOMETHANE	UG/L	1	<	<
CHLOROETHANE	UG/L	1	<	<
2-CHLOROETHYL VINYL ETHER	UG/L	1	<	<
CHLOROMETHANE	UG/L	1	<	<
1,2-DICHLOROPROPANE	UG/L	1	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	1	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	1	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5
ACROLEIN	UG/L	10	<	<
ACRYLONITRILE	UG/L	10	<	<
ACETONITRILE	UG/L	20	<	<
FREON 12 (CCL2F2)	UG/L	1	<	<
FREON 11 (CCL3F)	UG/L	1	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ41193 10/01/97	WELL M10B SJ41194 10/01/97	WELL M10B SJ43714 12/11/97
VOLATILE ORGANIC COMPOUNDS				
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	82	73	66
2-BUTANONE	UG/L	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE				
ACETOPHENONE	UG/L	<	<	<
2-ACETYLAMINOPFLUORENE	UG/L	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<
P-CHLORANILINE	UG/L	<	<	<
CHLOROBENZILATE	UG/L	<	<	<
DIALLATE	UG/L	<	<	<
DIBENZOFURAN	UG/L	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	10	10	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<
M-DINITROBENZENE	UG/L	<	<	<
DIPHENYLAMINE	UG/L	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<
FAMPHUR	UG/L	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<
ISODRIN	UG/L	<	<	<
ISOSAFROLE	UG/L	<	<	<
KEPONE	UG/L	<	<	<
METHAPYRILENE	UG/L	10	10	<
3-METHYLCHOLANTHRENE	UG/L	20	20	<
METHYL METHANESULFONATE	UG/L	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<
O-NITROANILINE	UG/L	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ41193 10/01/97	WELL M10B SJ41194 10/01/97	WELL M10B SJ43714 12/11/97
ACID-BASE NEUTRAL EXTRACTABLE				
M-NITROANILINE	UG/L	<	<	1
P-NITROANILINE	UG/L	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	5
PHENACETIN	UG/L	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	20
PRONAMIDE	UG/L	<	<	1
SAFROLE	UG/L	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	1
O-TOLUIDINE	UG/L	<	<	1
O,O-O-TRIETHYLPHOSPHOROTH	UG/L	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	5
ACENAPHTHENE	UG/L	<	<	1
ACENAPHTHYLENE	UG/L	<	<	1
ANTHRACENE	UG/L	<	<	1
BENZIDINE	UG/L	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	1
BENZO (A) PYRENE	UG/L	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	1
BENZO (G.H.I.) PERYLENE	UG/L	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	1
CHRYSENE	UG/L	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ41193 10/01/97	WELL M10B SJ41194 10/01/97	WELL M10B SJ43714 12/11/97
ACID-BASE NEUTRAL EXTRACTABLE				
DI-N-BUTYL PHTHALATE	UG/L	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	1
FLUORANTHENE	UG/L	<	<	1
FLUORENE	UG/L	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	5	<	5
HEXACHLOROETHANE	UG/L	<	<	1
INDENO(1,2,3-C,D) PYRENE	UG/L	<	<	1
ISOPHORONE	UG/L	<	<	1
NAPHTHALENE	UG/L	<	<	1
NITROBENZENE	UG/L	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	1
PHENANTHRENE	UG/L	<	<	1
PYRENE	UG/L	<	<	1
2-CHLOROPHENOL	UG/L	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	1
2,4-DINITROPHENOL	UG/L	6	<	6
2-METHYL-4,6DINITROPHENOL	UG/L	<	<	1
2-NITROPHENOL	UG/L	<	<	1
4-NITROPHENOL	UG/L	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	1
PHENOL	UG/L	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	1
O-CRESOL	UG/L	<	<	1
M+P CRESOL	UG/L	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M10B SJ41191 10/01/97	WEFI M10B SJ41192 10/01/97
CATIONS			
IRON	MG/L FE	0.16	0.18
MANGANESE	MG/L MN	.0021	<0.002
METALS			
ARSENIC	MG/L AS	<.0010	<.0010
BARIUM	MG/L BA	0.027	0.026
CADMIUM	MG/L CD	<.0005	<.0005
TOTAL CHROMIUM	MG/L CR	<0.002	<0.002
COBALT	MG/L CO	.0024	.0025
COPPER	MG/L CU	.0051	.0045
LEAD	MG/L PB	<.0005	<.0005
MERCURY	MG/L HG	<.0002	<.0002
NICKEL	MG/L NI	.0093	.0095
SELENIUM	MG/L SE	<.0010	<.0010
SILVER	MG/L AG	<.0005	<.0005
ZINC	MG/L ZN	0.024	0.017
ANTIMONY	MG/L SB	<.0005	<.0005
BERYLLIUM	MG/L BE	<0.001	<0.001
THALLIUM	MG/L TL	<0.001	<0.001
TIN	MG/L SN	<0.1	<0.1
VANADIUM	MG/L V	<0.010	<0.010

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ41139 09/30/97	WELL M11A SJ41140 09/30/97	WELL M11A SJ43712 12/11/97	WELL M11A SJ43713 12/11/97
FIELD PARAMETERS					
DEPTH TO WATER	FT	25.42	25.51		
DEPTH TO BOTTOM	FT	45.43	45.47		
PERCENT METHANE IN GAS	%CH4	< 0.1	4	9	
PERCENT OXYGEN IN GAS	%O2	20			
FIELD WATER TEMPERATURE	DEG C	24.08	20.44		
FIELD PH	PH	6.69	6.95		
FIELD CONDUCTIVITY	UMHOS/CM	1660	1798		
FIELD DISSOLVED O2	MG/L	0.29	0.31		
FIELD DISSOLVED CO2	MG/L	159	0.76		
GENERAL					
PH	PH	7.42 A	7.41	7.40	7.36
CONDUCTIVITY	UMHOS/CM	1720	1740	1711	1710
TOTAL DISSOLVED SOLIDS	MG/L	1269 B	1251	1261	1308
TOTAL HARDNESS	MG/L CaCO3	887 C	896 C	927 C	934 C
TOTAL CYANIDE	MG/L CN	< 0.01	< 0.01	< 0.002	< 0.002
BORON	MG/L B	0.60	0.62	0.54	0.50
ANIONS					
NITRATE	MG/L N	< 0.03	< 0.03	< 0.04	< 0.04
NITROGEN	MG/L N	490	492	550	567
SULFATE	MG/L SO4	72.6	81.6	68.4	69.5
CHLORIDE	MG/L CL	444	460	385	382
TOTAL ALKALINITY	MG/L CaCO3	444	460	385	382
BICARBONATE ALKALINITY	MG/L CaCO3	5.0	4.0	1.4	0.7
TOTAL SULFIDE	MG/L S	0.60	0.62	0.55	0.56
FLUORIDE	MG/L F				
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	500	500	507	494
MAGNESIUM-HARDNESS	MG/L CaCO3	387	396	420	440
SODIUM	MG/L NA	83	89	91.3	93.1
POTASSIUM	MG/L K	8	8.5	7.5	7.5
IRON	MG/L FE	0.35	1	0.24	0.25
MANGANESE	MG/L MN	0.240	0.320	0.22	0.21
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	0.18	0.25

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE E-DUPLICATE SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ41139 09/30/97	WELL M11A SJ41140 09/30/97	WELL M11A SJ43712 12/11/97	WELL M11A SJ43713 12/11/97
ORGANIC MATTER					
TOTAL BOD	MG/L O	5	<	3	11
SOLUBLE BOD	MG/L O	3	4	14	14
TOTAL COD	MG/L O	17	20	10	B <
SOLUBLE COD	MG/L O	11	13	2	3
TOTAL ORGANIC CARBON	MG/L C	4.47	4.43	2.73	2.63
OIL & GREASE	MG/L EXTRAC	1	<	1	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L	28	D	24	D
METALS					
ARSENIC	MG/L AS	.0028	.0046	.0010	.0013
BARIUM	MG/L BA	0.016	0.015	0.02	0.02
CADMIUM	MG/L CD	<0.001	<.0005	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	<0.004	.0028	<0.04	<0.04
COBALT	MG/L CO	<0.002	<0.002	<0.02	<0.02
COPPER	MG/L CU	<0.004	.0039	<0.01	<0.01
LEAD	MG/L PB	<0.001	.0037	<0.02	<0.02
MERCURY	MG/L HG	<.0002	<.0002	<.0001	<.0001
NICKEL	MG/L NI	<0.010	.0099	<0.02	<0.02
SELENIUM	MG/L SE	<0.010	<.0010	<.0010	<.0010
SILVER	MG/L AG	<0.001	<.0005	<0.01	<0.01
ZINC	MG/L ZN	<0.010	.0088	<0.01	<0.01
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005	<.0005
BERYLLIUM	MG/L BE	<0.001	<.0001	<.0025	<.0025
THALLIUM	MG/L TL	<0.001	<.0001	<.0001	<.0001
TIN	MG/L SN	<0.01	<0.1	<0.06	<0.06
VANADIUM	MG/L V	<0.010	<.0010	<0.05	<0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	<0.05	<0.05	<0.05	<0.05
DINoseb	UG/L	<0.1	<0.1	<0.1	<0.1
THIONAZIN	UG/L	<	<	<	<
DIMETHOATE	UG/L	<	<	<	<
DISULFOTON	UG/L	<	<	<	<
METHYL PARATHION	UG/L	<	<	<	<
ETHYL PARATHION	UG/L	<	<	<	<
PHORATE	UG/L	<	<	<	<
PP'-DDE	UG/L	<0.01	<0.01	<0.01	<0.01
PP'-DDD	UG/L	<0.01	<0.01	<0.01	<0.01
PP'-DDT	UG/L	<0.01	<0.01	<0.01	<0.01

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE E-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL
M11A	M11A	M11A	M11A
SJ41139	SJ41140	SJ43712	SJ43713
09/30/97	09/30/97	12/11/97	12/11/97

CONSTITUENT/WELL NO. UNITS

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1242	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
AROCFLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 1	< 1	< 1	< 1
1,1,4-DICHLORO-2-BUTENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE E-DUPLICATE SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ41139 09/30/97	WELL M11A SJ41140 09/30/97	WELL M11A SJ43712 12/11/97	WELL M11A SJ43713 12/11/97
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1
1,1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1
METHYL METHACRYLATE	UG/L	<	10	<	<
ETHYL METHACRYLATE	UG/L	<	5	<	<
METHYLENE CHLORIDE	UG/L	<	1	<	<
CHLOROFORM	UG/L	<	1	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	<
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	<
TRICHLOROETHYLENE	UG/L	<	1	<	<
TETRACHLOROETHYLENE	UG/L	<	1	<	<
BROMODICHLOROMETHANE	UG/L	<	1	<	<
DIBROMOCHLOROMETHANE	UG/L	<	1	<	<
BROMOFORM	UG/L	<	1	<	<
CHLOROBENZENE	UG/L	<	1	<	<
VINYL CHLORIDE	UG/L	<	0.3	<	0.3
O-DICHLOROBENZENE	UG/L	<	1	<	<
M-DICHLOROBENZENE	UG/L	<	1	<	<
P-DICHLOROBENZENE	UG/L	<	1	<	<
1,1-DICHLOROETHANE	UG/L	<	1	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5
BENZENE	UG/L	<	1	<	<
TOLUENE	UG/L	<	1	<	<
ETHYL BENZENE	UG/L	<	10	<	10
VINYL ACETATE	UG/L	<	1	<	<
O-XYLENE	UG/L	<	1	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<
BROMOMETHANE	UG/L	<	1	<	<
CHLOROETHANE	UG/L	<	1	<	<
2-CHLOROETHYL VINYLETHYER	UG/L	<	1	<	<
CHLOROMETHANE	UG/L	<	1	<	<
1,2-DICHLOROPROPANE	UG/L	<	1	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	10
ACETONITRILE	UG/L	<	20	<	20
FREON 12 (CCL2F2)	UG/L	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE E-DUPLICATE SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ41139 09/30/97	WELL M11A SJ41140 09/30/97	WELL M11A SJ43712 12/11/97	WELL M11A SJ43713 12/11/97
VOLATILE ORGANIC COMPOUNDS					
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L CGH120	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<
4-AMINOBIHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	< 10	< 10	< 10	< 10
3, 3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	< 5	< 5	< 5	< 5
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	< 10	< 10	< 10	< 10
METHAPYRILENE	UG/L	< 20	< 20	< 20	< 20
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLANAPHTHALENE	UG/L	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE E-DUPLICATE SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A 09/30/97	WELL M11A SJ41140 09/30/97	WELL M11A SJ43712 12/11/97	WELL M11A SJ43713 12/11/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<
M-NITROANILINE	UG/L	1	<	1	<
P-NITROANILINE	UG/L	1	<	1	<
N-NITROSODI-N-BUTYLAMINE	UG/L	1	<	1	<
N-NITROSODIETHYLAMINE	UG/L	1	<	1	<
N-NITROSOMETHYLETHYLAMINE	UG/L	1	<	1	<
N-NITROSOPIPERIDINE	UG/L	1	<	1	<
N-NITROSOPYRROLIDINE	UG/L	1	<	1	<
5-NITRO-O-TOLIDINE	UG/L	1	<	1	<
PENTACHLOROBENZENE	UG/L	1	<	1	<
PENTACHLORONITROBENZENE	UG/L	1	<	1	<
PHENACETIN	UG/L	1	<	1	<
P-PHENYLENEDIAMINE	UG/L	20	<	20	<
PRONAMIDE	UG/L	<	<	<	<
SAFROLE	UG/L	1	<	1	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	1	<	1	<
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	1	<	1	<
O-TOLIDINE	UG/L	1	<	1	<
O,O,O-TRITHYLPHOSPHOROTH	UG/L	1	<	1	<
SYM-TRINITROBENZENE	UG/L	5	<	5	<
ACENAPHTHENE	UG/L	1	<	1	<
ACENAPHTHYLENE	UG/L	1	<	1	<
ANTHRACENE	UG/L	1	<	1	<
BENZIDINE	UG/L	20	<	20	<
BENZO(A)ANTHRACENE	UG/L	1	<	1	<
BENZO(A)PYRENE	UG/L	0.2	<	0.2	<
BENZO(B)FLUORANTHENE	UG/L	1	<	1	<
BENZO(G,H,I)PERYLENE	UG/L	1	<	1	<
BENZO(K)FLUORANTHENE	UG/L	1	<	1	<
BIS(2-CL-ETHOXY)METHANE	UG/L	1	<	1	<
BIS(2-CHLOROETHYL)ETHER	UG/L	1	<	1	<
BIS(2-CL-ISOPROPYL)ETHER	UG/L	1	<	1	<
DIETHYLHEXYL PHTHALATE	UG/L	1	<	1	<
4-BROMOPHENYL PHENYLETHER	UG/L	1	<	1	<
BUTYLBENZYL PHTHALATE	UG/L	1	<	1	<
2-CHLORONAPHTHALENE	UG/L	1	<	1	<
4-CHLOROPHENYLPHENYLETHER	UG/L	1	<	1	<
CHRYSENE	UG/L	1	<	1	<
DIBENZO(A,H)ANTHRACENE	UG/L	1	<	1	<
3,3'-DICHLOROBENZIDINE	UG/L	1	<	1	<
DIETHYL PHTHALATE	UG/L	1	<	1	<
DIMETHYL PHTHALATE	UG/L	1	<	1	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE E-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ41139 09/30/97	WELL M11A SJ41140 09/30/97	WELL M11A SJ43712 12/11/97	WELL M11A SJ43713 12/11/97
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	1
FLUORENE	UG/L	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5	<	1
HEXACHLOROETHANE	UG/L	<	<	<	1
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	1
ISOPHORONE	UG/L	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	1
NITROBENZENE	UG/L	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	1
PYRENE	UG/L	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	6	<	1
2-METHYL-4,6DINITROPHENOL	UG/L	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	1
4-NITROPHENOL	UG/L	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	1
PHENOL	UG/L	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	1
O-CRESOL	UG/L	<	<	<	1
M+P CRESOL	UG/L	<	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-CALCULATED VALUE D-AVERAGE E-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M11A SJ41136 09/30/97	WEFI M11A SJ41137 09/30/97	WEFI M11A SJ43710 12/11/97	WEFI M11A SJ43711 12/11/97
CATIONS					
IRON	MG/L	0.13	0.43	0.26	0.42
MANGANESE	MG/L	0.240	0.365	0.21	0.22
METALS					
ARSENIC	MG/L	.0024	.0033	.0012	.0014
BARIIUM	MG/L	0.014	0.014	0.02	0.02
CADMIUM	MG/L	<.0005	<.0005	<0.003	<0.003
TOTAL CHROMIUM	MG/L	<.0002	<.0002	<0.04	<0.04
COBALT	MG/L	<.0023	<.0023	<0.02	<0.02
COPPER	MG/L	.0023	.0023	<0.01	<0.01
LEAD	MG/L	<.0005	<.0005	<0.02	<0.02
MERCURY	MG/L	<.0002	<.0002	<.0001	<.0001
NICKEL	MG/L	.0053	.0075	<0.02	<0.02
SELENIUM	MG/L	<.0010	<.0010	<.0010	<.0010
SILVER	MG/L	<.0005	<.0005	<0.01	<0.01
ZINC	MG/L	.0078	.0074	<0.01	<0.01
ANTIMONY	MG/L	<.0005	<.0005	<.0005	<.0005
BERYLLIUM	MG/L	<.0001	<.0001	<.0025	<.0025
THALLIUM	MG/L	<.0001	<.0001	<.0001	<.0001
TIN	MG/L	<0.1	0.1	<0.06	<0.06
VANADIUM	MG/L	<.0010	<.0010	<0.05	<0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ40401 09/10/97	WELL EMP4 SJ43695 12/11/97
FIELD PARAMETERS			
DEPTH TO WATER	FT	19.52	19.71
DEPTH TO BOTTOM	FT	183.8	183.8
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	17
FIELD WATER TEMPERATURE	DEG C	24.09	19.56
FIELD PH	PH	7.15	7.32
FIELD CONDUCTIVITY	UMHOS/CM	1855	1802
FIELD DISSOLVED O2	MG/L	0.03	0.04
FIELD DISSOLVED CO2	MG/L	44	30
GENERAL			
PH	PH	7.67	7.80
CONDUCTIVITY	UMHOS/CM	1780	A
TOTAL DISSOLVED SOLIDS	MG/L	1194	1241
TOTAL HARDNESS	MG/L CaCO3	619	C
TOTAL CYANIDE	MG/L CN	< 0.01	
BORON	MG/L B	0.48	
ANIONS			
NITRATE	MG/L N	0.14	B
SULFATE	MG/L SO4	484	B
CHLORIDE	MG/L CL	92.5	B
TOTAL ALKALINITY	MG/L CaCO3	356	
BICARBONATE ALKALINITY	MG/L CaCO3	356	
TOTAL SULFIDE	MG/L S	5.0	
FLUORIDE	MG/L F	0.66	A
CATIONS			
CALCIUM-HARDNESS	MG/L CaCO3	372	417
MAGNESIUM-HARDNESS	MG/L CaCO3	248	284
SODIUM	MG/L NA	168	176
POTASSIUM	MG/L K	9.2	9.4
IRON	MG/L FE	0.30	
MANGANESE	MG/L MN	0.28	
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ40401 09/10/97	WELL EMP4 SJ43695 12/11/97
ORGANIC MATTER			
TOTAL BOD	MG/L O	105	4 A
SOLUBLE BOD	MG/L O	28	
TOTAL COD	MG/L O	14 A	
SOLUBLE COD	MG/L O	9	6
TOTAL ORGANIC CARBON	MG/L C	2.07 D	1.83
OIL & GREASE	MG/L EXTRAC	3	
TOTAL ORGANIC HALOGEN (TOX)	UG/L	24 D	
METALS			
ARSENIC	MG/L AS	.0040	
BARIUM	MG/L BA	0.01	
CADMIUM	MG/L CD	<0.003	
TOTAL CHROMIUM	MG/L CR	<0.01	
COBALT	MG/L CO	<0.01	
COPPER	MG/L CU	<0.01	
LEAD	MG/L PB	<0.02	
MERCURY	MG/L HG	<0.001	
NICKEL	MG/L NI	<0.02	
SELENIUM	MG/L SE	<0.010	
SILVER	MG/L AG	<0.01	
ZINC	MG/L ZN	0.02	
ANTIMONY	MG/L SB	<.0005	
BERYLLIUM	MG/L BE	<.0025 D	
THALLIUM	MG/L TL	<0.001 D	
TIN	MG/L SN	<0.05	
VANADIUM	MG/L V	<0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
2,4,5-T	UG/L	<0.05	
DINoseb	UG/L	<0.1	
THIONAZIN	UG/L	<1	
DIMETHOATE	UG/L	<1	
DISULFOTON	UG/L	<1	
METHYL PARATHION	UG/L	<1	
ETHYL PARATHION	UG/L	<1	
PHORATE	UG/L	<0.01	
PP'-DDE	UG/L	<0.01	
PP'-DDD	UG/L	<0.01	
PP'-DDT	UG/L	<0.01	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL WELL
 EMP4 EMP4
 SJ40401 SJ43695
 09/10/97 12/11/97

CONSTITUENT/WELL NO.	UNITS	B-AVERAGE	C-CALCULATED VALUE	D-DUPLICATE SPIKE
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
ALPHA-BHC	UG/L	< 0.01		
LINDANE (GAMMA-BHC)	UG/L	< 0.01		
HEPTACHLOR	UG/L	< 0.01		
HEPTACHLOR EPOXIDE	UG/L	< 0.01		
ALDRIN	UG/L	< 0.01		
DIELDRIN	UG/L	< 0.01		
ENDRIN	UG/L	< 0.01		
TOXAPHENE	UG/L	< 0.5		
METHOXYCLOR	UG/L	< 0.01		
2,4-D (ACID)	UG/L	< 0.05		
2,4,5-TP (SILVEX)	UG/L	< 0.1		
AROCLOR 1242	UG/L	< 0.05		
AROCLOR 1254	UG/L	< 0.01		
BETA-BHC	UG/L	< 0.01		
DELTA-BHC	UG/L	< 0.01		
ENDOSULFAN I	UG/L	< 0.01		
ENDOSULFAN II	UG/L	< 0.1		
ENDOSULFAN SULFATE	UG/L	< 0.04		
ENDRIN ALDEHYDE	UG/L	< 0.1		
AROCLOR 1016	UG/L	< 0.1		
AROCLOR 1221	UG/L	< 0.1		
AROCLOR 1232	UG/L	< 0.1		
AROCLOR 1248	UG/L	< 0.1		
AROCLOR 1260	UG/L	< 0.1		
TECHNICAL CHLORDANE	UG/L	< 0.05		

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1		
BROMOCHLOROMETHANE	UG/L	< 1		
CHLOROPRENE	UG/L	< 0.01		
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.3		
1,1,4-DICHLORO-2-BUTENE	UG/L	< 1		
1,3-DICHLOROPROPANE	UG/L	< 1		
2,2-DICHLOROPROPANE	UG/L	< 10		
1,1-DICHLOROPROPENE	UG/L	< 10		
ISOBUTYL ALCOHOL	UG/L	< 1		
METHACRYLONITRILE	UG/L	< 1		
METHYL IODIDE	UG/L	< 1		
METHYLENE BROMIDE	UG/L	< 1		
PROPIONITRILE	UG/L	< 10		

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ40401 09/10/97	WELL EMP4 SJ43695 12/11/97
VOLATILE ORGANIC COMPOUNDS			
1,1,2-TETRACHLOROETHANE	UG/L	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1
METHYL METHACRYLATE	UG/L	10	<
METHYLENE CHLORIDE	UG/L	<	5
CHLOROFORM	UG/L	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1
CARBON TETRACHLORIDE	UG/L	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	1
TRICHLOROETHYLENE	UG/L	<	1
TETRACHLOROETHYLENE	UG/L	<	1
BROMODICHLOROMETHANE	UG/L	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1
BROMOFORM	UG/L	<	1
CHLOROBENZENE	UG/L	0.3	0.3
VINYL CHLORIDE	UG/L	<	1
O-DICHLOROBENZENE	UG/L	<	1
M-DICHLOROBENZENE	UG/L	<	1
P-DICHLOROBENZENE	UG/L	<	1
1,1-DICHLOROETHANE	UG/L	<	1
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5
BENZENE	UG/L	<	1
TOLUENE	UG/L	<	1
ETHYL BENZENE	UG/L	10	10
VINYL ACETATE	UG/L	<	1
O-XYLENE	UG/L	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1
BROMOMETHANE	UG/L	<	1
CHLOROETHANE	UG/L	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1
CHLOROMETHANE	UG/L	<	1
1,2-DICHLOROPROPANE	UG/L	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5
ACROLEIN	UG/L	10	10
ACRYLONITRILE	UG/L	<	10
ACETONITRILE	UG/L	20	<
FREON 12 (CCL2F2)	UG/L	<	1
FREON 11 (CCL3F)	UG/L	<	1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4	WELL EMP4
		SJ40401	SJ43695
		09/10/97	12/11/97

VOLATILE ORGANIC COMPOUNDS

1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10
STYRENE	UG/L	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1
M+p-XYLENE	UG/L	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1
2-HEXANONE	UG/L	< 15	< 1

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	< 1	< 1
2-ACETYLAMINOFLOURENE	UG/L	< 1	< 1
4-AMINOBIIPHENYL	UG/L	< 1	< 1
BENZYL ALCOHOL	UG/L	< 1	< 1
P-CHLOROANILINE	UG/L	< 1	< 1
CHLOROBENZILATE	UG/L	< 1	< 1
DIALLATE	UG/L	< 1	< 1
DIBENZOFURAN	UG/L	< 1	< 1
2,6-DICHLOROPHENOL	UG/L	< 1	< 1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	< 1	< 1
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	< 10	< 1
3,3'-DIMETHYLBENZIDINE	UG/L	< 1	< 1
M-DINITROBENZENE	UG/L	< 1	< 1
DIPHENYLAMINE	UG/L	< 1	< 1
ETHYL METHANESULFONATE	UG/L	< 1	< 1
FAMPHUR	UG/L	< 1	< 1
HEXACHLOROPROPENE	UG/L	< 15	< 1
ISODRIN	UG/L	< 1	< 1
ISOSAFROLE	UG/L	< 1	< 1
KEPONE	UG/L	< 10	< 1
METHAPYRILENE	UG/L	< 20	< 1
3-METHYLCHOLANTHRENE	UG/L	< 1	< 1
METHYL METHANESULFONATE	UG/L	< 1	< 1
2-METHYLNAPHTHALENE	UG/L	< 1	< 1
1,4-NAPHTHOQUINONE	UG/L	< 1	< 1
1-NAPHTHYLAMINE	UG/L	< 1	< 1
2-NAPHTHYLAMINE	UG/L	< 1	< 1
O-NITROANILINE	UG/L	< 1	< 1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL EMP4
 SJ40401
 09/10/97

WELL EMP4
 SJ43695
 12/11/97

CONSTITUENT/WELL NO. UNITS

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT/WELL NO.	UNITS	B-AVERAGE	C-CALCULATED VALUE	D-DUPLICATE SPIKE
M-NITROANILINE	UG/L	<		
P-NITROANILINE	UG/L	<		
N-NITROSODI-N-BUTYLAMINE	UG/L	<		
N-NITROSODIETHYLETHYLAMINE	UG/L	<		
N-NITROSOMETHYLETHYLAMINE	UG/L	<		
N-NITROSOPIPERIDINE	UG/L	<		
N-NITROSOPYRROLIDINE	UG/L	<		
5-NITRO-O-TOLUIDINE	UG/L	<		
PENTACHLOROBENZENE	UG/L	<		
PENTACHLORONITROBENZENE	UG/L	<		
PHENACETIN	UG/L	<		
P-PHENYLENEDIAMINE	UG/L	20		
PRONAMIDE	UG/L	<		
SAPROLE	UG/L	<		
1,2,4,5-TETRACHLOROBENZEN	UG/L	<		
2,3,4,6-TETRACHLOROPHENOL	UG/L	<		
O-TOLUIDINE	UG/L	<		
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<		
SYM-TRINITROBENZENE	UG/L	5		
ACENAPHTHENE	UG/L	<		
ACENAPHTHYLENE	UG/L	<		
ANTHRACENE	UG/L	<		
BENZIDINE	UG/L	<		
BENZO (A) ANTHRACENE	UG/L	<		
BENZO (A) PYRENE	UG/L	<		
BENZO (B) FLUORANTHENE	UG/L	0.2		
BENZO (G, H, I, J) PERYLENE	UG/L	<		
BENZO (K) FLUORANTHENE	UG/L	<		
BIS (2-CL-ETHOXY) METHANE	UG/L	<		
BIS (2-CHLOROETHYL) ETHER	UG/L	<		
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<		
DIETHYLHEXYL PHTHALATE	UG/L	<		
4-BROMOPHENYL PHENYLETHER	UG/L	<		
BUTYLBENZYL PHTHALATE	UG/L	<		
2-CHLORONAPHTHALENE	UG/L	<		
4-CHLOROPHENYLPHENYLETHER	UG/L	<		
CHRYSENE	UG/L	<		
DIBENZO (A, H) ANTHRACENE	UG/L	<		
3,3'-DICHLOROBENZIDINE	UG/L	<		
DIETHYL PHTHALATE	UG/L	<		
DIMETHYL PHTHALATE	UG/L	<		

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ40401 09/10/97	WELL EMP4 SJ43695 12/11/97
ACID-BASE NEUTRAL EXTRACTABLE			
DI-N-BUTYL PHTHALATE	UG/L	<	1
2,4-DINITROTOLUENE	UG/L	<	1
2,6-DINITROTOLUENE	UG/L	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	1
FLUORANTHENE	UG/L	<	1
FLUORENE	UG/L	<	1
HEXACHLOROBENZENE	UG/L	<	1
HEXACHLOROBUTADIENE	UG/L	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5
HEXACHLOROETHANE	UG/L	<	1
INDENO(1,2,3-C,D) PYRENE	UG/L	<	1
ISOPHORONE	UG/L	<	1
NAPHTHALENE	UG/L	<	1
NITROBENZENE	UG/L	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1
PHENANTHRENE	UG/L	<	1
PYRENE	UG/L	<	1
2-CHLOROPHENOL	UG/L	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1
2,4-DICHLOROPHENOL	UG/L	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1
2,4-DINITROPHENOL	UG/L	<	6
2-METHYL-4,6DINITROPHENOL	UG/L	<	1
4-NITROPHENOL	UG/L	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1
PENTACHLOROPHENOL	UG/L	<	1
PHENOL	UG/L	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1
O-CRESOL	UG/L	<	1
M+P CRESOL	UG/L	<	1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP4 SJ40400 09/10/97
CATIONS		
IRON	MG/L FE	0.18 A
MANGANESE	MG/L MN	0.27 A
METALS		
ARSENIC	MG/L AS	.0034
BARIUM	MG/L BA	0.01 A
CADMIUM	MG/L CD	<0.003 A
TOTAL CHROMIUM	MG/L CR	<0.01 A
COBALT	MG/L CO	<0.01 A
COPPER	MG/L CU	<0.01 A
LEAD	MG/L PB	<0.02 A
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	<0.02 A
SELENIUM	MG/L SE	<.0010
SILVER	MG/L AG	<0.01 A
ZINC	MG/L ZN	<0.01 A
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025
THALLIUM	MG/L TL	<0.001
TIN	MG/L SN	<0.06 A
VANADIUM	MG/L V	<0.05 A

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.2
WATER QUALITY DATA
BARRIER 2 MONITORING WELLS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ32482 03/06/97	WELL M24A SJ32483 06/12/97	WELL M24A SJ36448 09/10/97	WELL M24A SJ40396 09/10/97	WELL M24A SJ40397 12/17/97	WELL M24A SJ43908 12/17/97
FIELD PARAMETERS							
DEPTH TO WATER	FT	57.89	58.09	58.12	58.12	58.55	58.55
DEPTH TO BOTTOM	FT	84.95	85.08	85.08	85.08	85.12	85.12
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	18	20	20	21	21
FIELD WATER TEMPERATURE	DEG C	20.91	20.58	25.95	25.95	19.47	19.47
FIELD PH	PH	6.46	6.72	6.56	6.56	6.64	6.64
FIELD CONDUCTIVITY	UMHOS/CM	1662	1487	1554	1554	1531	1531
FIELD DISSOLVED O2	MG/L	0.68	0.57	1.18	1.18	1.02	1.02
GENERAL							
PH		7.03 A	7.02	7.09	7.09 A	7.08	7.56
TOTAL DISSOLVED SOLIDS	MG/L	1378	1369	1189	1151	1152	1263
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05 B	< 0.05 B	0.14 B	0.47 B	0.49 B	< 0.04
SULFATE	MG/L SO4	693 B	682 B	509 B	553 B	550 B	580
CHLORIDE	MG/L CL	13.9 B	13.9 B	16.4 B	24.7 B	24.0 B	15.8 C
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	1	1	1	1	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ32482 03/06/97	WELL M24A SJ32483 03/06/97	WELL M24A SJ36448 06/12/97	WELL M24A SJ40396 09/10/97	WELL M24A SJ40397 09/10/97	WELL M24A SJ43908 12/17/97	WELL M24A SJ43909 12/17/97
VOLATILE ORGANIC COMPOUNDS								
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	<	<
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	<	<
1,1-DICHLOROETHANE	UG/L	<	1	<	1	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1	<	<	<
1,2-DICHLOROETHANE	UG/L	0.3	<	0.3	0.5	<	<	0.3
BENZENE	UG/L	0.5	<	0.5	0.5	<	<	0.5
TOLUENE	UG/L	<	1	<	1	<	<	1
ETHYL BENZENE	UG/L	<	1	<	1	<	<	1
VINYL ACETATE	UG/L	10	<	10	10	<	<	10
O-XYLENE	UG/L	<	1	<	1	<	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	0.5	0.5	<	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	10	<	10	10	<	<	10
ACRYLONITRILE	UG/L	<	1	<	1	<	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	<	1
1,2-DIBROMOETHANE	UG/L	0.01	<	0.01	0.01	<	<	0.01
ACETONE	UG/L	10	<	10	10	<	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	<	1
2-BUTANONE	UG/L	10	<	10	10	<	<	10
4-METHYL-2-PENTANONE	UG/L	10	<	10	10	<	<	10
STYRENE	UG/L	<	1	<	1	<	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	<	1
2-HEXANONE	UG/L	5	<	5	5	<	<	5

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ32428 03/05/97	WELL M27B SJ36431 06/12/97	WELL M27B SJ36432 06/12/97	WELL M27B SJ40398 09/10/97	WELL M27B SJ43910 12/17/97
FIELD PARAMETERS						
DEPTH TO WATER	FT	58.94	59.97	59.14	59.14	59.53
DEPTH TO BOTTOM	FT	82.33	82.17	82.26	82.26	82.26
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	21.00	20	20	20	20
FIELD WATER TEMPERATURE	DEG C	22.59	20.34	24.19	18.74	18.74
FIELD PH	PH	6.41	6.68	6.51	6.51	6.6
FIELD CONDUCTIVITY	UMHOS/CM	1636	1615	1543	1543	1519
FIELD DISSOLVED O2	MG/L	0.98	1.92	0.93	0.93	1.2
GENERAL						
PH	PH	7.18	7.09	7.11	7.09	7.68
TOTAL DISSOLVED SOLIDS	MG/L	1248	1241	1230	1161	1253
ANIONS						
NITRATE	MG/L N	< 0.05 A	< 0.05 A	< 0.05 A	0.17 A	< 0.04
NITROGEN	MG/L N	593 A	558 A	558 A	543 A	607
SULFATE	MG/L SO4	21.4 A	26.4 A	26.7 A	30.6 A	26.3
CHLORIDE	MG/L CL					
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L	1	1	1	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ32428 03/05/97	WELL M27B SJ36431 06/12/97	WELL M27B SJ36432 06/12/97	WELL M27B SJ40398 09/10/97	WELL M27B SJ43910 12/17/97
VOLATILE ORGANIC COMPOUNDS						
O-DICHLOROBENZENE	UG/L	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	1	1	1	1	1
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3	0.3
BENZENE	UG/L	0.5	0.5	0.5	0.5	0.5
TOLUENE	UG/L	<	<	<	<	<
ETHYL BENZENE	UG/L	1	1	1	1	1
VINYL ACETATE	UG/L	10	10	10	10	10
O-XYLENE	UG/L	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5
ACRYLONITRILE	UG/L	10	10	10	10	10
FREON 11 (CCL3F)	UG/L	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01	0.01
ACETONE	UG/L	10	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
2-BUTANONE	UG/L	10	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10	10
STYRENE	UG/L	<	<	<	<	<
M+P-XYLENE	UG/L	1	1	1	1	1
CARBON DISULFIDE	UG/L	<	<	<	<	<
2-HEXANONE	UG/L	5	5	5	5	5
	CS2	<	<	<	<	<
	C6H12O	<	<	<	<	<

FOOTNOTES : A-AVERAGE

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ32429 03/05/97	WELL M29B SJ32430 03/05/97	WELL M29B SJ36449 06/12/97	WELL M29B SJ40256 09/05/97	WELL M29B SJ40257 09/05/97	WELL M29B SJ43846 12/16/97	WELL M29B SJ43847 12/16/97
FIELD PARAMETERS								
DEPTH TO WATER	FT	61.4	60.12	60.61	60.61	60.91	60.91	60.91
DEPTH TO BOTTOM	FT	100.5	100.5	100.4	100.4	100.5	100.5	100.5
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	18	18	18	17	17	17
FIELD WATER TEMPERATURE	DEG C	20.49	20.72	24.12	24.12	19.8	19.8	19.8
FIELD PH	PH	6.68	6.93	6.72	6.72	6.89	6.89	6.89
FIELD CONDUCTIVITY	UMHOS/CM	976	1016	1030	1030	958	958	958
FIELD DISSOLVED O2	MG/L	0.91	0.65	1.03	1.03	1.03	1.03	1.03
GENERAL								
PH	PH	7.45	7.46	7.35	7.32	7.26	7.42	7.41
TOTAL DISSOLVED SOLIDS	MG/L	640	656	722	720	732	766	669
ANIONS								
NITRATE	MG/L N	0.13 A	0.13 A	0.17 A	0.20 A	0.20 A	0.12	0.12
SULFATE	MG/L SO4	218 A	217 A	239 A	228 A	227 A	238	240
CHLORIDE	MG/L CL	27.1 A	26.4 A	23.6 A	23.6 A	23.4 A	24.7	24.2
VOLATILE ORGANIC COMPOUNDS								
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-AMENDED TEST RESULT

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ32429 03/05/97	WELL M29B SJ32430 03/05/97	WELL M29B SJ36449 06/12/97	WELL M29B SJ40256 09/05/97	WELL M29B SJ40257 09/05/97	WELL M29B SJ43846 12/16/97	WELL M29B SJ43847 12/16/97
VOLATILE ORGANIC COMPOUNDS								
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	<	1
1,1-DICHLOROETHANE	UG/L	<	1	<	1	<	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1	<	<	1
1,2-DICHLOROETHANE	UG/L	0.3	0.5	0.3	0.5	0.3	0.5	0.3
BENZENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOLUENE	UG/L	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	1	<	1	<	1	<
ETHYL ACETATE	UG/L	10	10	10	10	10	10	10
O-XYLENE	UG/L	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<
BROMOMETHANE	UG/L	<	1	<	1	<	1	<
CHLOROETHANE	UG/L	<	1	<	1	<	1	<
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
ACRYLONITRILE	UG/L	10	10	10	10	10	10	10
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1	<
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ACETONE	UG/L	<	<	<	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<
2-BUTANONE	UG/L	10	10	10	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10	10	10	10
STYRENE	UG/L	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	1	<	1	<	1	<
CARBON DISULFIDE	UG/L	1	1	1	1	1	1	1
2-HEXANONE	UG/L	5	5	5	5	5	5	5

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-AMENDED TEST RESULT

TABLE A.3
WATER QUALITY DATA
BARRIER 3 MONITORING WELLS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL			WELL
		M31A	M31A	M31A	
FIELD PARAMETERS					
DEPTH TO WATER	FT	48.12	48.68	48.87	49.02
DEPTH TO BOTTOM	FT	76.23	76.42	76.36	76.31
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	16	20	18	13
FIELD WATER TEMPERATURE	DEG C	18.66	22.45	22.98	20.64
FIELD PH	PH	6.22	6.56	6.35	6.77
FIELD CONDUCTIVITY	UMHOS/CM	3505	3491	3300	3001
FIELD DISSOLVED O2	MG/L	0.51	0.26	0.27	0.29
FIELD DISSOLVED CO2	MG/L	635	328	513	197
GENERAL					
PH	PH	7.01 A	6.93	6.99 A	7.10
CONDUCTIVITY	UMHOS/CM			3170	
TOTAL DISSOLVED SOLIDS	MG/L	2928 B	2960	2723 B	2176 B
TOTAL HARDNESS	MG/L			1570 E	
TOTAL CYANIDE	MG/L			<0.002	
BORON	MG/L			0.84	
ANIONS					
NITRATE NITROGEN	MG/L	0.24 C	0.14 C	< 0.05 C	0.11
SULFATE	MG/L	1370 C	1290 C	1080 C	970
CHLORIDE	MG/L	182 C	177 C	174 C	165
TOTAL ALKALINITY	MG/L	600	678	654 B	595
BICARBONATE ALKALINITY	MG/L	600	678	654	595
TOTAL SULFIDE	MG/L			< 0.1 A	
FLUORIDE	MG/L			0.74	
CATIONS					
CALCIUM-HARDNESS	MG/L	1050	1020 D	849 D	787
MAGNESIUM-HARDNESS	MG/L	901	893 D	720 D	708
SODIUM	MG/L	180	181 D	174 D	170
POTASSIUM	MG/L	5.0	5.1 D	4.7 D	4.3
IRON	MG/L			0.15 D	
MANGANESE	MG/L			0.54 D	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L	< 0.1	< 0.1	0.43	< 0.1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ32351 03/04/97	WELL M31A SJ36322 06/10/97	WELL M31A SJ40115 09/02/97	WELL M31A SJ44069 12/22/97	WELL M31A SJ44070 12/22/97
ORGANIC MATTER						
TOTAL BOD	MG/L O	< 0.7	B < 0.7	B < 0.7	1 < 0.7	< 0.7
SOLUBLE BOD	MG/L O	< 0.7	B < 0.7	B < 0.7	2 B	
TOTAL COD	MG/L O	5	7	9	9	9
SOLUBLE COD	MG/L O					
TOTAL ORGANIC CARBON	MG/L C	2.40	3.37	2.51	3.19	3.21
OIL & GREASE	MG/L					
TOTAL ORGANIC HALOGEN (TOX)	UG/L EXTRAC				1	
	UG/L				46 C	
METALS						
ARSENIC	MG/L AS	< 0.010				
BARIUM	MG/L BA	0.05 D				
CADMIUM	MG/L CD	< 0.003				
TOTAL CHROMIUM	MG/L CR	< 0.01 D				
COBALT	MG/L CO	< 0.01 D				
COPPER	MG/L CU	< 0.01 D				
LEAD	MG/L PB	< 0.02 D				
MERCURY	MG/L HG	< 0.001 D				
NICKEL	MG/L NI	< 0.02 D				
SELENIUM	MG/L SE	0.016				
SILVER	MG/L AG	< 0.01 D				
ZINC	MG/L ZN	< 0.01 D				
ANTIMONY	MG/L SB	< 0.005				
BERYLLIUM	MG/L BE	< 0.025				
THALLIUM	MG/L TL	< 0.001				
TIN	MG/L SN	< 0.06 D				
VANADIUM	MG/L V	< 0.05 D				
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L	< 0.05				
DINoseb	UG/L	< 0.1				
THIONAZIN	UG/L	< 1				
DIMETHOATE	UG/L	< 1				
DISULFOTON	UG/L	< 1				
METHYL PARATHION	UG/L	< 1				
ETHYL PARATHION	UG/L	< 1				
PHORATE	UG/L	< 1				
PP' - DDE	UG/L	< 0.01				
PP' - DDD	UG/L	< 0.01				
PP' - DDT	UG/L	< 0.01				

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

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 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ32351 03/04/97	WELL M31A SJ36322 06/10/97	WELL M31A SJ40115 09/02/97	WELL M31A SJ44069 12/22/97	WELL M31A SJ44070 12/22/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALPHA-BHC	UG/L	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

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WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ32351 03/04/97	WELL M31A SJ36322 06/10/97	WELL M31A SJ40115 09/02/97	WELL M31A SJ44069 12/22/97	WELL M31A SJ44070 12/22/97
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	<	1
METHYL METHACRYLATE	UG/L	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	0.3	<	0.3	0.3
TRICHLOROETHYLENE	UG/L	<	1	<	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	<	1
BROMOFORM	UG/L	<	1	<	<	1
CHLOROBENZENE	UG/L	<	1	<	<	1
VINYL CHLORIDE	UG/L	<	0.3	<	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	0.4
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
BENZENE	UG/L	<	<	<	<	<
TOLUENE	UG/L	<	1	<	<	1
ETHYL BENZENE	UG/L	<	1	<	<	1
VINYL ACETATE	UG/L	<	10	<	10	10
O-XYLENE	UG/L	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	1	<	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
ACROLEIN	UG/L	<	<	<	<	<
ACRYLONITRILE	UG/L	<	10	<	10	10
ACETONITRILE	UG/L	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	20	<	<	20
FREON 11 (CCL3F)	UG/L	<	<	<	<	<

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CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ32351 03/04/97	WELL M31A SJ36322 06/10/97	WELL M31A SJ40115 09/02/97	WELL M31A SJ44069 12/22/97	WELL M31A SJ44070 12/22/97
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	5	3	3	2	2
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ32351 03/04/97	WELL M31A SJ36322 06/10/97	WELL M31A SJ40115 09/02/97	WELL M31A SJ44069 12/22/97	WELL M31A SJ44070 12/22/97
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	5	3	3	2	2
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ32351 03/04/97	WELL M31A SJ36322 06/10/97	WELL M31A SJ40115 09/02/97	WELL M31A SJ44069 12/22/97	WELL M31A SJ44070 12/22/97
ACETOPHENONE	UG/L	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<
P-CHLORANILINE	UG/L	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ32351 03/04/97	WELL M31A SJ36322 06/10/97	WELL M31A SJ40115 09/02/97	WELL M31A SJ44069 12/22/97	WELL M31A SJ44070 12/22/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<
5-NITRO-O-TOLIDINE	UG/L	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<
1,2,3,4,5-TETRACHLOROPHENOL	UG/L	<	<	<	<	<
2,3,4,5-TETRACHLOROPHENOL	UG/L	<	<	<	<	<
O-TOLIDINE	UG/L	<	<	<	<	<
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<
BENZIDINE	UG/L	<	<	<	<	<
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	<
BENZO (A) PYRENE	UG/L	<	<	<	<	<
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	<
BENZO (G, H, I) PERYLENE	UG/L	<	<	<	<	<
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	<
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	<
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	<
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	<
3,3'-DICHOROBENZIDINE	UG/L	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

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ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<	<
INDENO(1,2,3-C,D) PYRENE	UG/L	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<

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 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M31A SJ40113 09/02/97
CATIONS		
IRON	MG/L FE	0.14
MANGANESE	MG/L MN	0.53
METALS		
ARSENIC	MG/L AS	< 0.0010
BARIUM	MG/L BA	< 0.05
CADMIUM	MG/L CD	< 0.003
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	< 0.02
MERCURY	MG/L HG	< 0.0001
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	.0012
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	< 0.01
ANTIMONY	MG/L SB	< 0.005
BERYLLIUM	MG/L BE	< 0.0025
THALLIUM	MG/L TL	< 0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ32497 03/06/97	WELL R32B SJ36616 06/17/97	WELL R32B SJ36617 06/17/97	WELL R32B SJ40164 09/03/97	WELL R32B SJ44157 12/29/97
FIELD PARAMETERS						
DEPTH TO WATER	FT	34.11	35.15	34.87	34.0	34.0
DEPTH TO BOTTOM	FT	129.2	129.5	129.5	129.6	129.6
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	16	17	15	14	14
FIELD WATER TEMPERATURE	DEG C	21.53	24.02	31.16	20.51	20.51
FIELD PH	PH	6.84	7.16	6.87	7.32	7.32
FIELD CONDUCTIVITY	UMHOS/CM	3686	3633	3784	3582	3582
FIELD DISSOLVED O2	MG/L	0.33	0.29	0.46	0.2	0.2
GENERAL						
PH	PH	7.41	7.91	7.88	7.60	7.41
TOTAL DISSOLVED SOLIDS	MG/L	2908 A	3046	3066 A	3100 A	2932
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.05 B	< 0.05 B	< 0.05 B	< 0.05 B	< 0.04
SULFATE	MG/L SO4	1580 B	1580 B	1580 B	1580 B	1610
CHLORIDE	MG/L CL	267 B	265 B	266 B	266 B	261
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L	1	1	1	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2,3-PENTACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-DUP & SPIKE B-AVERAGE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ32497 03/06/97	WELL R32B SJ36616 06/17/97	WELL R32B SJ36617 06/17/97	WELL R32B SJ40164 09/03/97	WELL R32B SJ44157 12/29/97
VOLATILE ORGANIC COMPOUNDS						
O-DICHLOROBENZENE	UG/L	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	1	1	1	1	1
1,1-DICHLOROETHANE	UG/L	1	1	1	1	1
1,1,2-TRICHLOROETHANE	UG/L	1	1	1	1	1
1,2-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3	0.3
BENZENE	UG/L	0.5	0.5	0.5	0.5	0.5
TOLUENE	UG/L	1	1	1	1	1
ETHYL BENZENE	UG/L	1	1	1	1	1
VINYL ACETATE	UG/L	10	10	10	10	10
O-XYLENE	UG/L	1	1	1	1	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	1	1	1	1	1
BROMOMETHANE	UG/L	1	1	1	1	1
CHLOROETHANE	UG/L	1	1	1	1	1
CHLOROMETHANE	UG/L	1	1	1	1	1
1,2-DICHLOROPROPANE	UG/L	1	1	1	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	1	1	1	1	1
TRANS-1,3-DICHLOROPROPENE	UG/L	1	1	1	1	1
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5
ACRYLONITRILE	UG/L	10	10	10	10	10
FREON 11 (CCL3F)	UG/L	1	1	1	1	1
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01	0.01
ACETONE	UG/L	10	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	1	1	1	1	1
2-BUTANONE	UG/L	10	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10	10
STYRENE	UG/L	1	1	1	1	1
M+P-XYLENE	UG/L	1	1	1	1	1
CARBON DISULFIDE	UG/L	1	1	1	1	1
2-HEXANONE	UG/L	5	5	5	5	5
	CS2	<	<	<	<	<
	C6H12O	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ32352 03/04/97	WELL M33A SJ36323 06/10/97	WELL M33A SJ36324 06/10/97	WELL M33A SJ40116 09/02/97	WELL M33A SJ44068 12/22/97
FIELD PARAMETERS						
DEPTH TO WATER	FT	49.69	50.35	50.51	50.65	50.65
DEPTH TO BOTTOM	FT	80.82	81.02	80.95	81.0	81.0
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	16	18	21	13	13
FIELD WATER TEMPERATURE	DEG C	21.05	21.8	22.94	19.76	19.76
FIELD PH	PH	6.34	6.58	6.32	6.74	6.74
FIELD CONDUCTIVITY	UMHOS/CM	2668	2684	2760	2651	2651
FIELD DISSOLVED O2	MG/L	0.3	0.25	0.37	0.46	0.46
FIELD DISSOLVED CO2	MG/L	531	298	508	211	211
GENERAL						
PH	PH	7.04	7.01 B	6.98	7.09	7.11
CONDUCTIVITY	UMHOS/CM	1923	2268	2178	2540	1782
TOTAL DISSOLVED SOLIDS	MG/L				1946	
TOTAL HARDNESS	MG/L CAC03				1070 D	
TOTAL CYANIDE	MG/L CN				<0.002	
BORON	MG/L B				0.63	
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.05 A	0.24 A	0.25 A	0.18 A	< 0.04
SULFATE	MG/L SO4	624 A	607 A	609 A	601 A	627
CHLORIDE	MG/L CL	196 A	174 A	174 A	176 A	170
TOTAL ALKALINITY	MG/L CAC03	662	645	644	648	661
BICARBONATE ALKALINITY	MG/L CAC03	662	645	644	648	661
TOTAL SULFIDE	MG/L S				< 0.1	
FLUORIDE	MG/L F				0.75	
CATIONS						
CALCIUM-HARDNESS	MG/L CAC03	669	609	609	587	624
MAGNESIUM-HARDNESS	MG/L CAC03	547	531	539	484	535
SODIUM	MG/L NA	177	177	178	182	177
POTASSIUM	MG/L K	6.0	5.2	5.4	5.6	5.5
IRON	MG/L FE				0.22	
MANGANESE	MG/L MN				0.57	
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	0.12	< 0.1

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUPLICATE SPIKE D-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ32352 03/04/97	WELL M33A SJ36323 06/10/97	WELL M33A SJ36324 06/10/97	WELL M33A SJ40116 09/02/97	WELL M33A SJ44068 12/22/97
TOTAL BOD	MG/L	< 0.7	< 0.7	< 0.7	1	< 0.7
SOLUBLE BOD	MG/L				14	
TOTAL COD	MG/L				6	13
SOLUBLE COD	MG/L	11	10	11		
TOTAL ORGANIC CARBON	MG/L	4.67	4.61	4.56	4.63	5.04
OIL & GREASE	MG/L					
TOTAL ORGANIC HALOGEN (TOX)	UG/L				1	
					49	

ORGANIC MATTER

TOTAL BOD MG/L O

SOLUBLE BOD MG/L O

TOTAL COD MG/L O

SOLUBLE COD MG/L O

TOTAL ORGANIC CARBON MG/L C

OIL & GREASE MG/L C

TOTAL ORGANIC HALOGEN (TOX) UG/L

METALS

ARSENIC MG/L AS

BARIIUM MG/L BA

CADMIUM MG/L CD

TOTAL CHROMIUM MG/L CR

COBALT MG/L CO

COPPER MG/L CU

LEAD MG/L PB

MERCURY MG/L HG

NICKEL MG/L NI

SELENIUM MG/L SE

SILVER MG/L AG

ZINC MG/L ZN

ANTIMONY MG/L SB

BERYLLIUM MG/L BE

THALLIUM MG/L TL

TIN MG/L SN

VANADIUM MG/L V

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-T UG/L

DINOSB UG/L

THIONAZIN UG/L

DIMETHOATE UG/L

DISULFOTON UG/L

METHYL PARATHION UG/L

PHORATE UG/L

PP'-DDE UG/L

PP'-DDD UG/L

PP'-DDT UG/L

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUPLICATE SPIKE D-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ32352 03/04/97	WELL M33A SJ36323 06/10/97	WELL M33A SJ36324 06/10/97	WELL M33A SJ40116 09/02/97	WELL M33A SJ44068 12/22/97
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<
METHOXYCHLOR	UG/L	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUPLICATE SPIKE D-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL	WELL
M33A	M33A	M33A	M33A	M33A
SJ32352	SJ36323	SJ36324	SJ40116	SJ44068
03/04/97	06/10/97	06/10/97	09/02/97	12/22/97

CONSTITUENT/WELL NO. UNITS

ACID-BASE NEUTRAL EXTRACTABLE

M-NITROANILINE	UG/L	<	1	
P-NITROANILINE	UG/L	<	1	
N-NITROSODI-N-BUTYLAMINE	UG/L	<	1	
N-NITROSODIETHYLAMINE	UG/L	<	1	
N-NITROSOMETHYLETHYLAMINE	UG/L	<	1	
N-NITROSOPIPERIDINE	UG/L	<	1	
N-NITROSOPYRROLIDINE	UG/L	<	1	
5-NITRO-O-TOLUIDINE	UG/L	<	1	
PENTACHLOROBENZENE	UG/L	<	15	
PENTACHLORONITROBENZENE	UG/L	<	1	
PHENACETIN	UG/L	<	20	
P-PHENYLENEDIAMINE	UG/L	<	1	
PRONAMIDE	UG/L	<	1	
SAFROLE	UG/L	<	1	
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	1	
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	1	
O-TOLUIDINE	UG/L	<	1	
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	1	
SYM-TRINITROBENZENE	UG/L	<	5	
ACENAPHTHENE	UG/L	<	1	
ACENAPHTHYLENE	UG/L	<	1	
ANTHRACENE	UG/L	<	1	
BENZIDINE	UG/L	<	20	
BENZO(A)ANTHRACENE	UG/L	<	1	
BENZO(A)PYRENE	UG/L	<	1	
BENZO(B)FLUORANTHENE	UG/L	<	0.2	
BENZO(G,H,I)PERYLENE	UG/L	<	1	
BENZO(K)FLUORANTHENE	UG/L	<	1	
BIS(2-CL-ETHOXY)METHANE	UG/L	<	1	
BIS(2-CHLOROETHYL)ETHER	UG/L	<	1	
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	1	
DIETHYLHEXYL PHTHALATE	UG/L	<	1	
4-BROMOPHENYL PHENYLETHER	UG/L	<	1	
BUTYLBENZYL PHTHALATE	UG/L	<	1	
2-CHLORONAPHTHALENE	UG/L	<	1	
4-CHLOROPHENYLPHENYLETHER	UG/L	<	1	
CHRYSENE	UG/L	<	1	
DIBENZO(A,H)ANTHRACENE	UG/L	<	1	
3,3'-DICHLOROBENZIDINE	UG/L	<	1	
DIETHYL PHTHALATE	UG/L	<	1	
DIMETHYL PHTHALATE	UG/L	<	1	

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUPLICATE SPIKE D-CALCULATED VALUE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ32352 03/04/97	WELL M33A SJ36323 06/10/97	WELL M33A SJ36324 06/10/97	WELL M33A SJ40116 09/02/97	WELL M33A SJ44068 12/22/97
ACID-BASE NEUTRAL EXTRACTABLE						
DI-N-BUTYL PHTHALATE	UG/L					1
2,4-DINITROTOLUENE	UG/L					1
2,6-DINITROTOLUENE	UG/L					1
DI-N-OCTYL PHTHALATE	UG/L					1
FLUORANTHENE	UG/L					1
FLUORENE	UG/L					1
HEXACHLOROBENZENE	UG/L					1
HEXACHLOROBUTADIENE	UG/L					1
HEXACHLOROCYCLOPENTADIENE	UG/L					5
HEXACHLOROETHANE	UG/L					1
INDENO (1,2,3-C,D) PYRENE	UG/L					1
ISOPHORONE	UG/L					1
NAPHTHALENE	UG/L					1
NITROBENZENE	UG/L					1
N-NITROSODIMETHYLAMINE	UG/L					1
N-NITROSODI-N-PROPYLAMINE	UG/L					1
PHENANTHRENE	UG/L					1
PYRENE	UG/L					1
2-CHLOROPHENOL	UG/L					1
1,2,4-TRICHLOROBENZENE	UG/L					1
2,4-DICHLOROPHENOL	UG/L					1
2,4-DIMETHYLPHENOL	UG/L					1
2,4-DINITROPHENOL	UG/L					6
2-METHYL-4,6-DINITROPHENOL	UG/L					1
2-NITROPHENOL	UG/L					1
4-NITROPHENOL	UG/L					1
4-CHLORO-3-METHYLPHENOL	UG/L					1
PENTACHLOROPHENOL	UG/L					0.1
PHENOL	UG/L					1
2,4,6-TRICHLOROPHENOL	UG/L					1
N-NITROSODIPHENYLAMINE	UG/L					1
O-CRESOL	UG/L					1
M+P CRESOL	UG/L					1

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUPLICATE SPIKE D-CALCULATED VALUE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M33A SJ40114 09/02/97
CATIONS		
IRON	MG/L FE	< 0.02
MANGANESE	MG/L MN	0.53
METALS		
ARSENIC	MG/L AS	< .0010
BARIUM	MG/L BA	0.04
CADMIUM	MG/L CD	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	< 0.02
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	<.0010
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	< 0.01
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025
THALLIUM	MG/L TL	<0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ32498 03/06/97	WELL R34B SJ36618 06/17/97	WELL R34B SJ40165 09/03/97	WELL R34B SJ40166 09/03/97	WELL R34B SJ44158 12/29/97	WELL R34B SJ44159 12/29/97
FIELD PARAMETERS							
DEPTH TO WATER	FT	48.74	49.37	49.23	7.60	7.46	7.47
DEPTH TO BOTTOM	FT	129.8	129.6	129.5	3118	2926	2996
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1			
PERCENT OXYGEN IN GAS	%O2	15	20	12			
FIELD WATER TEMPERATURE	DEG C	20.75	24.72	28.35			
FIELD PH	PH	6.74	7.09	6.83			
FIELD CONDUCTIVITY	UMHOS/CM	3728	3685	3871			
FIELD DISSOLVED O2	MG/L	0.60	0.45	0.41			
GENERAL							
PH	PH	7.44	7.89	7.63	7.60	7.46	7.47
TOTAL DISSOLVED SOLIDS	MG/L	2978	3105	3116	3118	2926	2996
ANIONS							
NITRATE	MG/L N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.04	< 0.04
SULFATE	MG/L SO4	1600	1580	1590	1600	1630	1670
CHLORIDE	MG/L CL	291	275	278	281	279	279
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	1	1	1	1	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

B-DUP & SPIKE

FOOTNOTES : A-AVERAGE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ32498 03/06/97	WELL R34B SJ36618 06/17/97	WELL R34B SJ40165 09/03/97	WELL R34B SJ40166 09/03/97	WELL R34B SJ44158 12/29/97	WELL R34B SJ44159 12/29/97
VOLATILE ORGANIC COMPOUNDS							
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1
1,1-DICHLOROETHANE	UG/L	<	1	<	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	1	<	1	<	1
TOLUENE	UG/L	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	10	<	10	<	10
VINYL ACETATE	UG/L	<	1	<	1	<	1
O-XYLENE	UG/L	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
ACRYLONITRILE	UG/L	<	10	<	10	<	10
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1
1,2-DIBROMOETHANE	UG/L	<	0.01	<	0.01	<	0.01
ACETONE	UG/L	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1
2-BUTANONE	UG/L	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5	<	5	<	5
	CS2	<	<	<	<	<	<
	C6H12O	<	<	<	<	<	<

B-DUP & SPIKE

FOOTNOTES : A-AVERAGE

TABLE A.4
WATER QUALITY DATA
BARRIER 4 MONITORING WELLS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ33054 03/20/97	WELL M41A SJ33055 06/11/97	WELL M41A SJ40288 09/08/97	WELL M41A SJ43625 12/10/97	WELL M41A SJ43626 12/10/97
FIELD PARAMETERS						
DEPTH TO WATER	FT	36.67	42.92	44.15	44.48	
DEPTH TO BOTTOM	FT	< 0.1	58.78	58.71	59.21	
PERCENT METHANE IN GAS	%CH4	16	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	13	13	15	11	
FIELD WATER TEMPERATURE	DEG C	22.53	22.45	24.81	20.14	
FIELD PH	PH	6.73	6.96	6.92	7.02	
FIELD CONDUCTIVITY	UMHOS/CM	3717	3366	3187	3197	
FIELD DISSOLVED O2	MG/L	0.47	0.46	0.62	0.39	
FIELD DISSOLVED CO2	MG/L	120	69	76	62	
GENERAL						
PH	PH	7.29 A	7.31	7.91 A	7.32	7.31
CONDUCTIVITY	UMHOS/CM	3430 B	3200	3150 B	3130	3140
TOTAL DISSOLVED SOLIDS	MG/L	2844	2653	2582	2584	2547 B
TOTAL HARDNESS	MG/L CaCO3	969 D	1030 D	1112 D	1160 D	1194 D
TOTAL CYANIDE	MG/L CN	<0.002	<0.002	<0.002	<0.002	<0.002
BORON	MG/L B	1.50	0.21	1.20	1.26	1.23 B
ANIONS						
NITRATE	MG/L N	0.74 C	2.83 C	0.31 C	0.03	< 0.03
SULFATE	MG/L SO4	1500 C	1350 C	1320 C	1380	1470
CHLORIDE	MG/L CL	139 C	118 C	117 C	121	121
TOTAL ALKALINITY	MG/L CaCO3	366	362	359	368	370
BICARBONATE ALKALINITY	MG/L CaCO3	366	362	359	368	370
FLUORIDE	MG/L F	0.46 B	0.51	0.76 B	0.76	0.76
CATIONS						
CALCIUM	MG/L CaCO3	512	549	594 H	614	634
MAGNESIUM	MG/L CaCO3	457	482	519 H	547	560
SODIUM	MG/L NA	527	501	371 H	356	372
POTASSIUM	MG/L K	11.8	12.8	10.2	10.4	10.3
IRON	MG/L FE	0.12 C	0.10 C	0.29	1.14	1.11
ORGANIC MATTER						
AMMONIA	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SOLUBLE BOD	MG/L O	4	4	7	2	2
SOLUBLE COD	MG/L O	4	4	7	2	2

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-CALCULATED VALUE E-CHECK NOTES TO USER
F-10% RULE EXCEEDED G-AMENDED TEST RESULT H-DUPLICATE SPIKE

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A		WELL M41A		WELL M41A		WELL M41A		WELL M41A	
		03/20/97	03/20/97	06/11/97	09/08/97	12/10/97	12/10/97	12/10/97	12/10/97	12/10/97	12/10/97
ORGANIC MATTER											
TOTAL ORGANIC CARBON	MG/L C	2.49	2.51	2.48	2.13	2.06	2.05	2.13	2.06	2.05	2.05
TOTAL ORGANIC HALOGEN (TOX)	UG/L	23 E	20 F	18 F	5.0 H	9.9 C	43 F	5.0 H	9.9 C	43 F	43 F
METALS											
ARSENIC	MG/L AS	<.0010	<.0010	.0023	.0021	.0018	.0015	.0021	.0018	.0015	.0015
BARIIUM	MG/L BA	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.02
COBALT	MG/L CO	0.01	0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.01	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L SE	<.0010	<.0010	.0019	.0010	<.0010	<.0010	.0019	<.0010	<.0010	<.0010
ZINC	MG/L ZN	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.03	< 0.01	< 0.02	< 0.03	< 0.03
ANTIMONY	MG/L SB	.0005	.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
VOLATILE ORGANIC COMPOUNDS											
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
O-DICHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
P-DICHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOLUENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ETHYL BENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE H-DUPLICATE SPIKE D-CALCULATED VALUE E-CHECK NOTES TO USER
F-10% RULE EXCEEDED G-AMENDED TEST RESULT H-TEST RESULT I-TEST RESULT

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ33054 03/20/97	WELL M41A SJ33055 03/20/97	WELL M41A SJ36376 06/11/97	WELL M41A SJ40288 09/08/97	WELL M41A SJ43625 12/10/97	WELL M41A SJ43626 12/10/97
VOLATILE ORGANIC COMPOUNDS							
VINYL ACETATE	UG/L	<	10	<	10	<	10
O-XYLENE	UG/L	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	0.01	<	0.01	<	0.01
1,2-DIBROMOETHANE	UG/L	<	10	<	10	<	10
ACETONE	UG/L	<	1	<	1	<	1
CIS-1,2-DICHLOROETHYLENE	UG/L	<	10	<	10	<	10
2-BUTANONE	UG/L	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1
2-HEXANONE	UG/L	5	5	<	5	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE G-AMENDED TEST RESULT H-DUPLICATE SPIKE D-CALCULATED VALUE E-CHECK NOTES TO USER
 F-10% RULE EXCEEDED

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M41A SJ33052 03/20/97	WEFI M41A SJ33053 03/20/97	WEFI M41A SJ36374 06/11/97	WEFI M41A SJ40286 09/08/97	WEFI M41A SJ43623 12/10/97	WEFI M41A SJ43624 12/10/97
CATIONS							
IRON	MG/L FE	< 0.02	< 0.02 A	0.07	< 0.02	< 0.05	< 0.05
METALS							
ARSENIC	MG/L AS	.0022	< .0010	.0024	.0023	.0014	.0014
BARIUM	MG/L BA	0.02	0.02	0.02	0.02	0.02	0.02
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02
SELENIUM	MG/L SE	< .0010	< .0010	.0017	.0010	< .0010	< .0010
ZINC	MG/L ZN	0.01	< 0.01	< 0.01	< 0.01	0.02	0.01
ANTIMONY	MG/L SB	< .0005	< .0005	< .0005	< .0005	< .0005	< .0005

FOOTNOTES : A-AVERAGE

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ33068 03/20/97	WELL M42A SJ36375 06/11/97	WELL M42A SJ40289 09/08/97	WELL M42A SJ43620 12/10/97
FIELD PARAMETERS					
DEPTH TO WATER	FT	36.80	40.17	40.8	41.0
DEPTH TO BOTTOM	FT	57.4	57.39	57.4	57.47
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	15	17	14	19
FIELD WATER TEMPERATURE	DEG C	23.16	21.8	23.44	20.86
FIELD PH	PH	6.64	6.9	6.95	6.88
FIELD CONDUCTIVITY	UMHOS/CM	4146	4330	4173	4326
FIELD DISSOLVED O2	MG/L	0.53	0.9	0.33	0.5
FIELD DISSOLVED CO2	MG/L	121	69	65	75
GENERAL					
PH	PH	7.21	7.45	7.85	7.27
CONDUCTIVITY	UMHOS/CM	3990	4130	4240	4210
TOTAL DISSOLVED SOLIDS	MG/L	3678	4084	3554	3606
TOTAL HARDNESS	MG/L CaCO3	1570	1510	1423	1395
TOTAL CYANIDE	MG/L CN	<0.002	<0.002	<0.002	<0.002
BORON	MG/L B	1.26	1.22	1.48	1.52
ANIONS					
NITRATE	MG/L N	0.49	0.26	0.06	0.04
SULFATE	MG/L SO4	2060	1970	1940	2250
CHLORIDE	MG/L CL	143	148	157	162
TOTAL ALKALINITY	MG/L CaCO3	301	313	329	326
BICARBONATE	MG/L CaCO3	301	313	329	326
FLUORIDE	MG/L F	0.60	0.68	0.62	0.60
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	884	856	799	782
MAGNESIUM-HARDNESS	MG/L CaCO3	687	671	626	613
SODIUM	MG/L NA	442	509	591	570
POTASSIUM	MG/L K	15.4	14.8	13.7	13.3
IRON	MG/L FE	0.08	0.08	0.11	0.05
ORGANIC MATTER					
AMMONIA	MG/L N	0.2	< 0.1	< 0.1	< 0.1
NITROGEN	MG/L N	< 0.7	< 0.7	< 1	1
BOD	MG/L O	< 2	< 2	9	4
SOLUBLE COD	MG/L O				

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-CHECK NOTES TO USER D-DUPLICATE SPIKE E-DUP & SPIKE
F-AMENDED G-10% RULE EXCEEDED H-AVERAGE OF DUPS

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL				2.45 14 C	2.64 12 A	2.27 17 G	2.09 15 G
		M42A SJ33068 03/20/97	M42A SJ36375 06/11/97	M42A SJ40289 09/08/97	M42A SJ43620 12/10/97				
ORGANIC MATTER									
TOTAL ORGANIC CARBON	MG/L C	2.45	2.64	2.27	2.09				
TOTAL ORGANIC HALOGEN (TOX)	UG/L	14 C	12 A	17 G	15 G				
METALS									
ARSENIC	MG/L AS	<.0010	.0022	.0029	.0023				
BARIUM	MG/L BA	0.02 D	0.02	0.02	0.02 D				
COBALT	MG/L CO	0.01 D	0.01	0.01	0.02 D				
SELENIUM	MG/L SE	<.0010	.0017	<.0010	<.0010				
ZINC	MG/L ZN	0.01 D	0.01	0.01	0.01				
ANTIMONY	MG/L SB	.0007	.0005	<.0005	.0005				
VOLATILE ORGANIC COMPOUNDS									
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
CHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
O-DICHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
P-DICHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
1,1-DICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
1,1,2-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
1,2-DICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
BENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
TOLUENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				
ETHYL BENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01				

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-CHECK NOTES TO USER D-DUPLICATE SPIKE E-DUP & SPIKE
F-AMENDED G-10% RULE EXCEEDED H-AVERAGE OF DUPS

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ33068 03/20/97	WELL M42A SJ36375 06/11/97	WELL M42A SJ40289 09/08/97	WELL M42A SJ43620 12/10/97
VOLATILE ORGANIC COMPOUNDS					
VINYL ACETATE	UG/L	<	10	<	10
O-XYLENE	UG/L	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1
1,2-DICHLOROPROPENE	UG/L	<	1	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
ACRYLONITRILE	UG/L	10	10	10	10
FREON 11 (CCL3F)	UG/L	<	1	<	1
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01
ACETONE	UG/L	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1
2-BUTANONE	UG/L	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10
STYRENE	UG/L	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1
2-HEXANONE	UG/L	5	5	5	5

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-CHECK NOTES TO USER D-DUPLICATE SPIKE E-DUP & SPIKE
 F-AMENDED TEST RESULT G-10% RULE EXCEEDED H-AVERAGE OF DUPS

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M42A SJ33066 03/20/97	WEFI M42A SJ36373 06/11/97	WEFI M42A SJ40287 09/08/97	WEFI M42A SJ43618 12/10/97
CATIONS					
IRON	MG/L FE	< 0.02	< 0.02	< 0.02	< 0.05
METALS					
ARSENIC	MG/L AS	< .0010	.0022	.0027	.0022
BARIUM	MG/L BA	0.03	0.02	0.02	0.02
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.02
SELENIUM	MG/L SE	< .0010	< .0010	< .0010	< .0010
ZINC	MG/L ZN	< 0.01	< 0.01	< 0.01	< 0.01
ANTIMONY	MG/L SB	.0007	.0005	.0005	.0005

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ33069 03/20/97	WELL M43A SJ36370 06/11/97	WELL M43A SJ40293 09/08/97	WELL M43A SJ40294 09/08/97	WELL M43A SJ43621 12/10/97	WELL M43A SJ50064 01/06/98	WELL M43A SJ50138 01/07/98
FIELD PARAMETERS								
DEPTH TO WATER	FT	35.29	42.25	45.13	44.87	44.87	45.1	47.2
DEPTH TO BOTTOM	FT	59.92	58.29	58.22	59.96	59.96	60.1	60.03
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	15	17	16	19	19	19	14
FIELD WATER TEMPERATURE	DEG C	23.98	21.13	23.74	19.17	19.17	18.8	18.06
FIELD PH	PH	6.70	6.92	6.76	6.8	6.8	6.97	6.98
FIELD CONDUCTIVITY	UMHOS/CM	2382	2470	2596	2535	2535	2193	1789
FIELD DISSOLVED O2	MG/L	0.47	0.62	0.46	0.49	0.49	0.41	1.5
FIELD DISSOLVED CO2	MG/L	148	92	131	101	101	70	63
GENERAL								
PH	PH	7.26	7.35 D	7.84	7.82	7.17	7.82	7.17
CONDUCTIVITY	UMHOS/CM	2310	2420	2430	2450	2140	2450	2140
TOTAL DISSOLVED SOLIDS	MG/L	1923 A	2426	2008	1944	1788	1944	1788
TOTAL HARDNESS	MG/L	1120 C	1019 C	872 C	808 C	808 C	872 C	808 C
TOTAL CYANIDE	MG/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
BORON	MG/L B	0.67	0.69	0.95	0.97	0.97	0.97	0.97
ANIONS								
NITRATE NITROGEN	MG/L N	2.22 B	0.17 B	0.15 B	0.05 B	0.68 B	0.33 B	0.56 F
SULFATE	MG/L SO4	929 B	938 B	925 B	850 B	805 B	860 B	735 F
CHLORIDE	MG/L CL	51.2 B	54.9 B	54.4 B	56.6 B	1420 B	58 B	52.7 F
TOTAL ALKALINITY	MG/L CACO3	424	434 A	433	432	363	371 A	344 A
BICARBONATE ALKALINITY	MG/L CACO3	424	434	433	432	363	371	344
FLUORIDE	MG/L F	0.53	0.57	0.56	0.61	0.54	0.33	0.56 F
CATIONS								
CALCIUM-HARDNESS	MG/L CACO3	647	562	564	484	427	412 F	372 F
MAGNESIUM-HARDNESS	MG/L CACO3	473	457	465	432	381	366 F	313 F
SODIUM	MG/L NA	146	214	216	263 G	310	292 F	204 F
POTASSIUM	MG/L K	12.8	11.9	12.4	11.9	9.0	9.2 F	8.3 F
IRON	MG/L FE	5.23	2.32 B	2.00 B	10.4	0.35	9.2 F	8.3 F
ORGANIC MATTER								
AMMONIA NITROGEN	MG/L N	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SOLUBLE BOD	MG/L O	< 0.7	< 0.7 A	< 1	< 1	95	< 0.7 A	< 0.7
SOLUBLE COD	MG/L O	3	< 2	11	12	1630	< 0.9	8

FOOTNOTES : A-DUP & SPIKE B-AVERAGE G-CHECK NOTES TO USER C-CALCULATED VALUE D-AVERAGE OF DUPS E-10% RULE EXCEEDED
F-DUPLICATE SPIKE

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ33069 03/20/97	WELL M43A SJ36370 06/11/97	WELL M43A SJ36371 06/11/97	WELL M43A SJ40293 09/08/97	WELL M43A SJ40294 09/08/97	WELL M43A SJ43621 12/10/97	WELL M43A SJ50064 01/06/98	WELL M43A SJ50138 01/07/98
ORGANIC MATTER									
TOTAL ORGANIC CARBON	MG/L C	19.0	3.83	3.80	4.56	5.09	2.65	2.90	3.38
TOTAL ORGANIC HALOGEN (TOX)	UG/L	12 B	19 E	28 E	6.4 F	11 B	23 E		
METALS									
ARSENIC	MG/L AS	.0018	.0024	.0021	.0036	.0052	.0032		
BARIUM	MG/L BA	0.15	0.10	0.10	0.05	0.11	0.04		
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02		
SELENIUM	MG/L SE	.0018	.0030	.0016	< .0010	< .0010	< .0010		
ZINC	MG/L ZN	0.02	< 0.01	< 0.01	< 0.01	0.04	< 0.01		
ANTIMONY	MG/L SB	.0008	.0008	.0007	.0005	.0006	.0007		
VOLATILE ORGANIC COMPOUNDS									
BROMOCHLOROMETHANE	UG/L	< 0.01	1	1	< 0.01	< 0.01	< 0.01	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
O-DICHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
P-DICHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOLUENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ETHYL BENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-DUP & SPIKE B-AVERAGE G-CHECK NOTES TO USER C-CALCULATED VALUE D-AVERAGE OF DUPS E-10% RULE EXCEEDED
F-DUPLICATE SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A
VOLATILE ORGANIC COMPOUNDS										
VINYL ACETATE	UG/L	<	10	<	10	<	10	<	10	<
O-XYLENE	UG/L	<	1	<	1	<	1	<	1	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1	<
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<
ACRYLONITRILE	UG/L	<	10	<	10	<	10	<	10	<
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1	<	1	<
1,2-DIBROMOETHANE	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<
ACETONE	UG/L	<	10	<	10	<	10	<	10	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10	<
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10	<
STYRENE	UG/L	<	1	<	1	<	1	<	1	<
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1	<
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1	<
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-CALCULATED VALUE D-AVERAGE OF DUPS E-10% RULE EXCEEDED
 F-DUPLICATE SPIKE G-CHECK NOTES TO USER

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M43A 03/20/97	WEFI M43A 06/11/97	WEFI M43A SJ36368	WEFI M43A SJ36369	WEFI M43A SJ40291	WEFI M43A SJ40292	WEFI M43A SJ43619
CATIONS								
IRON	MG/L FE	0.15	< 0.02	0.02	< 0.02	A < 0.02	< 0.02	< 0.05
METALS								
ARSENIC	MG/L AS	< .0010	.0020	.0019	.0035	.0030	.0027	
BARIIUM	MG/L BA	0.13	0.09	0.09	0.05	0.06	0.04	
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	
SELENIUM	MG/L SE	.0017	.0014	.0014	<.0010	<.0010	<.0010	
ZINC	MG/L ZN	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.01	
ANTIMONY	MG/L SB	.0009	.0007	.0007	.0006	<.0005	<.0008	

FOOTNOTES : A-AVERAGE

TABLE A.5
WATER QUALITY DATA
OFFSITE MONITORING WELLS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1	WELL EMP1	WELL EMP1
FIELD PARAMETERS				
DEPTH TO WATER	FT	16.25	16.27	
DEPTH TO BOTTOM	FT	33.95	34.01	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	17	20.07	
FIELD WATER TEMPERATURE	DEG C	25.39	20.07	
FIELD PH	PH	6.79	6.58	
FIELD CONDUCTIVITY	UMHOS/CM	2235	2176	
FIELD DISSOLVED O2	MG/L	0.19	0.45	
FIELD DISSOLVED CO2	MG/L	175	319	
GENERAL				

PH	PH	7.09	7.16	7.06
CONDUCTIVITY	UMHOS/CM	2180	2180	
TOTAL DISSOLVED SOLIDS	MG/L	1459	1463	1383
TOTAL HARDNESS	MG/L	812	775	C
TOTAL CYANIDE	MG/L	<0.002	<0.002	
BORON	MG/L B	0.72	0.41	
ANIONS				

NITRATE NITROGEN	MG/L N	1.08	1.11	A < 0.08
SULFATE	MG/L SO4	336	340	A < 468
CHLORIDE	MG/L CL	117	118	A 121 D
TOTAL ALKALINITY	MG/L CACO3	615	654	691
BICARBONATE ALKALINITY	MG/L CACO3	615	654	691
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	
FLUORIDE	MG/L F	0.64	0.58	D
CATIONS				

CALCIUM-HARDNESS	MG/L CACO3	524	487	582
MAGNESIUM-HARDNESS	MG/L CACO3	288	288	313
SODIUM	MG/L NA	192	192	216
POTASSIUM	MG/L K	10.6	10.8	8.5
IRON	MG/L FE	1.39	1.11	
MANGANESE	MG/L MN	0.34	0.34	
ORGANIC MATTER				

AMMONIA NITROGEN	MG/L N	< 0.1	0.53	< 0.1

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1 SJ40120 09/02/97	WELL EMP1 SJ40121 09/02/97	WELL EMP1 SJ43848 12/16/97
ORGANIC MATTER				
TOTAL BOD	MG/L	< 0.7	< 0.7	< 0.7
SOLUBLE BOD	MG/L	< 0.7	< 0.7	< 0.7 D
TOTAL COD	MG/L	< 2	10	
SOLUBLE COD	MG/L	< 4	10	11
TOTAL ORGANIC CARBON	MG/L	3.09 B	3.10	3.07
OIL & GREASE	MG/L	< 1	< 1	
TOTAL ORGANIC HALOGEN (TOX)	UG/L	22 A	26.0	
METALS				
ARSENIC	MG/L	.0024	.0029	
BARIUM	MG/L	0.06	0.06	
CADMIUM	MG/L	<0.003	<0.003	
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01	
COBALT	MG/L	< 0.01	< 0.01	
COPPER	MG/L	< 0.01	< 0.01	
LEAD	MG/L	< 0.02	< 0.02	
MERCURY	MG/L	<0.001	<.0001	B
NICKEL	MG/L	< 0.02	< 0.02	
SELENIUM	MG/L	<.0010	<.0010	
SILVER	MG/L	< 0.01	< 0.01	
ZINC	MG/L	0.02	0.02	
ANTIMONY	MG/L	.0009	.0009	
BERYLLIUM	MG/L	<.0025	<.0025	
THALLIUM	MG/L	<0.001	<0.001	
TIN	MG/L	< 0.06	< 0.06	
VANADIUM	MG/L	< 0.05	< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
2,4,5-T	UG/L	< 0.05	< 0.05	
DINOSB	UG/L	< 0.1	< 0.1	
THIONAZIN	UG/L	< 1	< 1	
DIMETHOATE	UG/L	< 1	< 1	
DISULFOTON	UG/L	< 1	< 1	
METHYL PARATHION	UG/L	< 1	< 1	
ETHYL PARATHION	UG/L	< 1	< 1	
PHORATE	UG/L	< 1	< 1	
PP', -DDE	UG/L	< 0.01	< 0.01	
PP', -DDD	UG/L	< 0.01	< 0.01	
PP', -DDT	UG/L	< 0.01	< 0.01	

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1 SJ40120 09/02/97	WELL EMP1 SJ40121 09/02/97	WELL EMP1 SJ43848 12/16/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01
DELDRIN	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.5	< 0.5	< 0.5
2,4,5-TP (SILVEX)	UG/L	< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS				
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.3	< 0.3	< 0.3
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1 SJ40120 09/02/97	WELL EMP1 SJ40121 09/02/97	WELL EMP1 SJ43848 12/16/97
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<
1,2,3-TRICHLOROPROPANE	UG/L	<	10	<
METHYL METHACRYLATE	UG/L	<	15	<
ETHYL METHACRYLATE	UG/L	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<
CHLOROFORM	UG/L	<	<	<
1,1-TRICHLOROETHANE	UG/L	<	<	<
CARBON TETRACHLORIDE	UG/L	<	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<
BROMOFORM	UG/L	<	<	<
CHLOROBENZENE	UG/L	<	<	<
VINYL CHLORIDE	UG/L	<	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	0.5
BENZENE	UG/L	<	<	<
TOLUENE	UG/L	<	<	<
ETHYL BENZENE	UG/L	<	10	<
VINYL ACETATE	UG/L	<	<	<
O-XYLENE	UG/L	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<
BROMOMETHANE	UG/L	<	<	<
CHLOROETHANE	UG/L	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<
CHLOROMETHANE	UG/L	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	0.5
ACROLEIN	UG/L	<	10	<
ACRYLONITRILE	UG/L	<	10	<
ACETONITRILE	UG/L	<	20	<
FREON 12 (CCL2F2)	UG/L	<	<	<
FREON 11 (CCL3F)	UG/L	<	1	<

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1 SJ40120 09/02/97	WELL EMP1 SJ40121 09/02/97	WELL EMP1 SJ43848 12/16/97
VOLATILE ORGANIC COMPOUNDS				
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 15	< 15	< 1
ACID-BASE NEUTRAL EXTRACTABLE				
ACETOPHENONE	UG/L	< 1	< 1	< 1
2-ACETYLAMINOFLOURENE	UG/L	< 1	< 1	< 1
4-AMINOBIIPHENYL	UG/L	< 1	< 1	< 1
BENZYL ALCOHOL	UG/L	< 1	< 1	< 1
P-CHLOROANILINE	UG/L	< 1	< 1	< 1
CHLOROBENZILATE	UG/L	< 1	< 1	< 1
DIALLATE	UG/L	< 1	< 1	< 1
DIBENZOFURAN	UG/L	< 1	< 1	< 1
2,6-DICHLOROPHENOL	UG/L	< 1	< 1	< 1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	< 1	< 1	< 1
7,12-DIMETHYLBEENZ(A)ANTHR	UG/L	< 10	< 10	< 1
3,3'-DIMETHYLBENZIDINE	UG/L	< 1	< 1	< 1
M-DINITROBENZENE	UG/L	< 1	< 1	< 1
DIPHENYLAMINE	UG/L	< 1	< 1	< 1
ETHYL METHANESULFONATE	UG/L	< 1	< 1	< 1
FAMPHUR	UG/L	< 1	< 1	< 1
HEXACHLOROPROPENE	UG/L	< 15	< 15	< 1
ISODRIN	UG/L	< 1	< 1	< 1
ISOSAFROLE	UG/L	< 1	< 1	< 1
KEPONE	UG/L	< 10	< 10	< 1
METHAPYRILENE	UG/L	< 20	< 20	< 1
3-METHYLCHOLANTHRENE	UG/L	< 1	< 1	< 1
METHYL METHANESULFONATE	UG/L	< 1	< 1	< 1
2-METHYLNAPHTHALENE	UG/L	< 1	< 1	< 1
1,4-NAPHTHOQUINONE	UG/L	< 1	< 1	< 1
1-NAPHTHYLAMINE	UG/L	< 1	< 1	< 1
2-NAPHTHYLAMINE	UG/L	< 1	< 1	< 1
O-NITROANILINE	UG/L	< 1	< 1	< 1

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1 SJ40120 09/02/97	WELL EMP1 SJ40121 09/02/97	WELL EMP1 SJ43848 12/16/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<
M-NITROANILINE	UG/L	1	1	1
P-NITROANILINE	UG/L	1	1	1
N-NITROSODI-N-BUTYLAMINE	UG/L	1	1	1
N-NITROSODIETHYLAMINE	UG/L	1	1	1
N-NITROSOMETHYLETHYLAMINE	UG/L	1	1	1
N-NITROSOPIPERIDINE	UG/L	1	1	1
N-NITROSOPYRROLIDINE	UG/L	1	1	1
5-NITRO-O-TOLUIDINE	UG/L	1	1	1
PENTACHLOROBENZENE	UG/L	5	5	5
PENTACHLORONITROBENZENE	UG/L	1	1	1
PHENACETIN	UG/L	20	20	20
P-PHENYLENEDIAMINE	UG/L	<	<	<
PRONAMIDE	UG/L	<	<	<
SAFROLE	UG/L	1	1	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	1	1	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	1	1	1
O-TOLUIDINE	UG/L	1	1	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	1	1	1
SYM-TRINITROBENZENE	UG/L	5	5	5
ACENAPHTHENE	UG/L	1	1	1
ACENAPHTYLENE	UG/L	1	1	1
ANTHRACENE	UG/L	1	1	1
BENZIDINE	UG/L	20	20	20
BENZO (A) ANTHRACENE	UG/L	1	1	1
BENZO (A) PYRENE	UG/L	0.2	0.2	0.2
BENZO (B) FLUORANTHENE	UG/L	1	1	1
BENZO (G, H, I, J) PERYLENE	UG/L	1	1	1
BENZO (K) FLUORANTHENE	UG/L	1	1	1
BIS (2-CL-ETHOXY) METHANE	UG/L	1	1	1
BIS (2-CHLOROETHYL) ETHER	UG/L	1	1	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	1	1	1
DIETHYLHEXYL PHTHALATE	UG/L	1	1	1
4-BROMOPHENYL PHENYLETHER	UG/L	1	1	1
BUTYLBENZYL PHTHALATE	UG/L	1	1	1
2-CHLORONAPHTHALENE	UG/L	1	1	1
4-CHLOROPHENYLPHENYLETHER	UG/L	1	1	1
CHRYSENE	UG/L	1	1	1
DIBENZO (A, H) ANTHRACENE	UG/L	1	1	1
3,3'-DICHLOROBENZIDINE	UG/L	1	1	1
DIETHYL PHTHALATE	UG/L	1	1	1
DIMETHYL PHTHALATE	UG/L	1	1	1

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPI SJ40120 09/02/97	WELL EMPI SJ40121 09/02/97	WELL EMPI SJ43848 12/16/97
ACID-BASE NEUTRAL EXTRACTABLE				
DI-N-BUTYL PHTHALATE	UG/L	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	1
FLUORANTHENE	UG/L	<	<	1
FLUORENE	UG/L	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	5	<	5
HEXACHLOROETHANE	UG/L	<	<	1
INDENO(1,2,3-C,D) PYRENE	UG/L	<	<	1
ISOPHORONE	UG/L	<	<	1
NAPHTHALENE	UG/L	<	<	1
NITROBENZENE	UG/L	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	1
PHENANTHRENE	UG/L	<	<	1
PYRENE	UG/L	<	<	1
2-CHLOROPHENOL	UG/L	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	1
2,4-DINITROPHENOL	UG/L	6	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	1
2-NITROPHENOL	UG/L	<	<	1
4-NITROPHENOL	UG/L	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	1
PENTACHLOROPHENOL	UG/L	0.1	<	0.1
PHENOL	UG/L	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	1
O-CRESOL	UG/L	<	<	1
M+P CRESOL	UG/L	<	<	1

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP1 SJ40118 09/02/97	WEFI EMP1 SJ40119 09/02/97
CATIONS			
IRON	MG/L	< 0.02	< 0.02
MANGANESE	MG/L	0.32	0.32
METALS			
ARSENIC	MG/L	.0022	.0023
BARIIUM	MG/L	0.05	0.05
CADMIUM	MG/L	<0.003	<0.003
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01
COBALT	MG/L	< 0.01	< 0.01
COPPER	MG/L	< 0.01	< 0.01
LEAD	MG/L	< 0.02	< 0.02
MERCURY	MG/L	< 0.001	< 0.001
NICKEL	MG/L	< 0.02	< 0.02
SELENIUM	MG/L	.0019	.0014
SILVER	MG/L	< 0.01	< 0.01
ZINC	MG/L	0.01	0.02
ANTIMONY	MG/L	.0008	.0009
BERYLLIUM	MG/L	<.0025	<.0025
THALLIUM	MG/L	<0.001	<0.001
TIN	MG/L	< 0.06	< 0.06
VANADIUM	MG/L	< 0.05	< 0.05

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2	WELL EMP2
FIELD PARAMETERS			
DEPTH TO WATER	FT	32.14	32.2
DEPTH TO BOTTOM	FT	229.6	229.8
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	21	17
FIELD WATER TEMPERATURE	DEG C	24.37	20.78
FIELD PH	PH	7.54	7.17
FIELD CONDUCTIVITY	UMHOS/CM	981	1033
FIELD DISSOLVED O2	MG/L	0.15	0.36
FIELD DISSOLVED CO2	MG/L	9	21
GENERAL			

PH	PH	7.97 A	7.46
CONDUCTIVITY	UMHOS/CM	970 B	611
TOTAL DISSOLVED SOLIDS	MG/L	542	
TOTAL HARDNESS	MG/L CaCO3	156 D	
TOTAL CYANIDE	MG/L CN	<0.002	
BORON	MG/L B	0.31	
ANIONS			

NITRATE NITROGEN	MG/L N	< 0.05 C	< 0.04 B
SULFATE	MG/L SO4	92.6 C	114 B
CHLORIDE	MG/L CL	142 C	134
TOTAL ALKALINITY	MG/L CaCO3	170	177
BICARBONATE ALKALINITY	MG/L CaCO3	170	177
TOTAL SULFIDE	MG/L S	< 0.1	
FLUORIDE	MG/L F	0.86	
CATIONS			

CALCIUM-HARDNESS	MG/L CaCO3	88.9	88.6
MAGNESIUM-HARDNESS	MG/L CaCO3	66.7	74.9
SODIUM	MG/L NA	141	158
POTASSIUM	MG/L K	4.5	4.6
IRON	MG/L FE	0.38	
MANGANESE	MG/L MN	0.03	
ORGANIC MATTER			

AMMONIA NITROGEN	MG/L N	0.33	< 0.1

FOOTNOTES :	A - AVERAGE OF DUPS	B - DUP & SPIKE	C - AVERAGE
			D - CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ40160 09/03/97	WELL EMP2 SJ43851 12/16/97
ORGANIC MATTER			
TOTAL BOD	MG/L O	1 B	< 0.7
SOLUBLE BOD	MG/L O	13 B	
TOTAL COD	MG/L O	4	10
SOLUBLE COD	MG/L O	2.81	2.88
TOTAL ORGANIC CARBON	MG/L C	1.3	
OIL & GREASE	MG/L EXTRAC	24	
TOTAL ORGANIC HALOGEN (TOX)	UG/L		
METALS			
ARSENIC	MG/L AS	.0022	
BARIUM	MG/L BA	0.02	
CADMIUM	MG/L CD	<0.003	
TOTAL CHROMIUM	MG/L CR	<0.01	
COBALT	MG/L CO	<0.01	
COPPER	MG/L CU	<0.01	
LEAD	MG/L PB	<0.02	
MERCURY	MG/L HG	<.0001	
NICKEL	MG/L NI	<0.02	
SELENIUM	MG/L SE	<0.010	
SILVER	MG/L AG	<0.01	
ZINC	MG/L ZN	0.44	
ANTIMONY	MG/L SB	.0005	
BERYLLIUM	MG/L BE	<.0025	
THALLIUM	MG/L TL	<0.001	
TIN	MG/L SN	<0.06	
VANADIUM	MG/L V	<0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
2,4,5-T	UG/L	<0.05	
DINoseb	UG/L	<0.1	
THIONAZIN	UG/L	<0.1	
DIMETHOATE	UG/L	<0.1	
DISULFOTON	UG/L	<0.1	
METHYL PARATHION	UG/L	<0.1	
ETHYL PARATHION	UG/L	<0.1	
PHORATE	UG/L	<0.01	
pp'-DDE	UG/L	<0.01	
pp'-DDD	UG/L	<0.01	
pp'-DDT	UG/L	<0.01	

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ40160 09/03/97	WELL EMP2 SJ43851 12/16/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
ALPHA-BHC	UG/L	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<
HEPTACHLOR	UG/L	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<
ALDRIN	UG/L	<	<
DELDRIN	UG/L	<	<
ENDRIN	UG/L	<	<
TOXAPHENE	UG/L	<	<
METHOXYCHLOR	UG/L	<	<
2,4-D (ACID)	UG/L	<	<
2,4,5-TP (SILVEX)	UG/L	<	<
AROCLOR 1242	UG/L	<	<
AROCLOR 1254	UG/L	<	<
BETA-BHC	UG/L	<	<
DELTA-BHC	UG/L	<	<
ENDOSULFAN I	UG/L	<	<
ENDOSULFAN II	UG/L	<	<
ENDOSULFAN SULFATE	UG/L	<	<
ENDRIN ALDEHYDE	UG/L	<	<
AROCLOR 1016	UG/L	<	<
AROCLOR 1221	UG/L	<	<
AROCLOR 1232	UG/L	<	<
AROCLOR 1248	UG/L	<	<
AROCLOR 1260	UG/L	<	<
TECHNICAL CHLORDANE	UG/L	<	<
VOLATILE ORGANIC COMPOUNDS			
ALLYL CHLORIDE	UG/L	<	<
BROMOCHLOROMETHANE	UG/L	<	<
CHLOROPRENE	UG/L	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<
1,3-DICHLOROPROPANE	UG/L	<	<
2,2-DICHLOROPROPANE	UG/L	<	<
1,1-DICHLOROPROPENE	UG/L	<	<
ISOBUTYL ALCOHOL	UG/L	<	<
METHACRYLONITRILE	UG/L	<	<
METHYL IODIDE	UG/L	<	<
METHYLENE BROMIDE	UG/L	<	<
PROPIONITRILE	UG/L	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ40160 09/03/97	WELL EMP2 SJ43851 12/16/97	C-AVERAGE	B-DUP & SPIKE	D-CALCULATED VALUE
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	<	1
METHYL METHACRYLATE	UG/L	<	10	<	<	
ETHYL METHACRYLATE	UG/L	<	15	<	<	
METHYLENE CHLORIDE	UG/L	<	1	<	<	1
CHLOROFORM	UG/L	<	1	<	<	1
1,1-TRICHLOROETHANE	UG/L	<	1	<	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	<	1
BROMOFORM	UG/L	<	1	<	<	1
CHLOROBENZENE	UG/L	<	1	<	<	1
VINYL CHLORIDE	UG/L	<	0.3	<	<	0.3
O-DICHLOROBENZENE	UG/L	<	1	<	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	<	1
1,1-DICHLOROETHANE	UG/L	<	1	<	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	<	0.5
BENZENE	UG/L	<	1	<	<	1
TOLUENE	UG/L	<	1	<	<	1
ETHYL BENZENE	UG/L	<	1	<	<	1
VINYL ACETATE	UG/L	<	10	<	<	10
O-XYLENE	UG/L	<	1	<	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<	1
BROMOMETHANE	UG/L	<	1	<	<	1
CHLOROETHANE	UG/L	<	1	<	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	<	1
CHLOROMETHANE	UG/L	<	1	<	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	<	0.5
ACROLEIN	UG/L	<	10	<	<	10
ACRYLONITRILE	UG/L	<	10	<	<	10
ACETONITRILE	UG/L	<	20	<	<	20
FREON 12 (CCL2F2)	UG/L	<	1	<	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ40160 09/03/97	WELL EMP2 SJ43851 12/16/97
VOLATILE ORGANIC COMPOUNDS			
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10
STYRENE	UG/L	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 1
ACID-BASE NEUTRAL EXTRACTABLE			
ACETOPHENONE	UG/L	< 1	< 1
2-ACETYLAMINOFLOURENE	UG/L	< 1	< 1
4-AMINOBIHENYL	UG/L	< 1	< 1
BENZYL ALCOHOL	UG/L	< 1	< 1
P-CHLOROANILINE	UG/L	< 1	< 1
CHLOROBENZILATE	UG/L	< 1	< 1
DIALLATE	UG/L	< 1	< 1
DIBENZOFURAN	UG/L	< 1	< 1
2, 6-DICHLOROPHENOL	UG/L	< 1	< 1
P (DIMETHYLAMINO)AZOBENZEN	UG/L	< 1	< 1
7, 12-DIMETHYLBENZ (A) ANTHR	UG/L	10	< 1
3, 3' -DIMETHYLBENZIDINE	UG/L	< 1	< 1
M-DINITROBENZENE	UG/L	< 1	< 1
DIPHENYLAMINE	UG/L	< 1	< 1
ETHYL METHANESULFONATE	UG/L	< 1	< 1
FAMPHUR	UG/L	< 1	< 1
HEXACHLOROPROPENE	UG/L	< 5	< 1
ISODRIN	UG/L	< 1	< 1
ISOSAFROLE	UG/L	< 1	< 1
KEPONE	UG/L	10	< 1
METHAPYRILENE	UG/L	< 1	< 1
3-METHYLCOLANTHRENE	UG/L	< 1	< 1
METHYL METHANESULFONATE	UG/L	< 1	< 1
2-METHYLNAPHTHALENE	UG/L	< 1	< 1
1, 4-NAPHTHOQUINONE	UG/L	< 1	< 1
1-NAPHTHYLAMINE	UG/L	< 1	< 1
2-NAPHTHYLAMINE	UG/L	< 1	< 1
O-NITROANILINE	UG/L	< 1	< 1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ40160 09/03/97	WELL EMP2 SJ43851 12/16/97	B-DUP & SPIKE	C-AVERAGE	D-CALCULATED VALUE
ACID-BASE NEUTRAL EXTRACTABLE						
M-NITROANILINE	UG/L	<	1	<		
P-NITROANILINE	UG/L	<	1	<		
N-NITROSODI-N-BUTYLAMINE	UG/L	<	1	<		
N-NITROSODIETHYLAMINE	UG/L	<	1	<		
N-NITROSOMETHYLETHYLAMINE	UG/L	<	1	<		
N-NITROSOPIPERIDINE	UG/L	<	1	<		
N-NITROSOPYRROLIDINE	UG/L	<	1	<		
5-NITRO-O-TOLUIDINE	UG/L	<	1	<		
PENTACHLOROBENZENE	UG/L	<	1	<		
PENTACHLORONITROBENZENE	UG/L	<	5	<		
PHENACETIN	UG/L	<	1	<		
P-PHENYLENEDIAMINE	UG/L	<	20	<		
PRONAMIDE	UG/L	<	1	<		
SAFROLE	UG/L	<	1	<		
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	1	<		
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	1	<		
O-TOLUIDINE	UG/L	<	1	<		
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	1	<		
SYM-TRINITROBENZENE	UG/L	<	5	<		
ACENAPHTHENE	UG/L	<	1	<		
ACENAPHTHYLENE	UG/L	<	1	<		
ANTHRACENE	UG/L	<	1	<		
BENZIDINE	UG/L	<	20	<		
BENZO (A) ANTHRACENE	UG/L	<	1	<		
BENZO (A) PYRENE	UG/L	<	0.2	<		
BENZO (B) FLUORANTHENE	UG/L	<	1	<		
BENZO (G.H.I.) PERYLENE	UG/L	<	1	<		
BENZO (K) FLUORANTHENE	UG/L	<	1	<		
BIS (2-CL-ETHOXY) METHANE	UG/L	<	1	<		
BIS (2-CHLOROETHYL) ETHER	UG/L	<	1	<		
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	1	<		
DIETHYLHEXYL PHTHALATE	UG/L	<	1	<		
4-BROMOPHENYL PHENYLETHER	UG/L	<	1	<		
BUTYLBENZYL PHTHALATE	UG/L	<	1	<		
2-CHLORONAPHTHALENE	UG/L	<	1	<		
4-CHLOROPHENYLPHENYLETHER	UG/L	<	1	<		
CHRYSENE	UG/L	<	1	<		
DIBENZO (A,H) ANTHRACENE	UG/L	<	1	<		
3,3'-DICHLOROBENZIDINE	UG/L	<	1	<		
DIETHYL PHTHALATE	UG/L	<	1	<		
DIMETHYL PHTHALATE	UG/L	<	1	<		

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2	WELL EMP2
ACID-BASE			
NEUTRAL			
EXTRACTABLE			
DI-N-BUTYL PHTHALATE	UG/L		1
2,4-DINITROTOLUENE	UG/L		<
2,6-DINITROTOLUENE	UG/L		<
DI-N-OCTYL PHTHALATE	UG/L		<
FLUORANTHENE	UG/L		<
FLUORENE	UG/L		<
HEXACHLOROBENZENE	UG/L		<
HEXACHLOROBUTADIENE	UG/L		<
HEXACHLOROCYCLOPENTADIENE	UG/L		5
HEXACHLOROETHANE	UG/L		<
INDENO (1,2,3-C,D) PYRENE	UG/L		<
ISOPHORONE	UG/L		<
NAPHTHALENE	UG/L		<
NITROBENZENE	UG/L		<
N-NITROSODIMETHYLAMINE	UG/L		<
N-NITROSODI-N-PROPYLAMINE	UG/L		<
PHENANTHRENE	UG/L		<
PYRENE	UG/L		<
2-CHLOROPHENOL	UG/L		<
1,2,4-TRICHLOROBENZENE	UG/L		<
2,4-DICHLOROPHENOL	UG/L		<
2,4-DIMETHYLPHENOL	UG/L		<
2,4-DINITROPHENOL	UG/L		6
2-METHYL-4,6-DINITROPHENOL	UG/L		<
2-NITROPHENOL	UG/L		<
4-NITROPHENOL	UG/L		<
4-CHLORO-3-METHYLPHENOL	UG/L		<
PENTACHLOROPHENOL	UG/L		<
PHENOL	UG/L		<
2,4,6-TRICHLOROPHENOL	UG/L		<
N-NITROSODIPHENYLAMINE	UG/L		<
O-CRESOL	UG/L		<
M+P CRESOL	UG/L		1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AVERAGE D-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP2 SJ40159 09/03/97
CATIONS		
IRON	MG/L FE	0.32
MANGANESE	MG/L MN	0.03
METALS		
ARSENIC	MG/L AS	.0022
BARIUM	MG/L BA	0.02
CADMIUM	MG/L CD	<0.003
TOTAL CHROMIUM	MG/L CR	<0.01
COBALT	MG/L CO	<0.01
COPPER	MG/L CU	<0.01
LEAD	MG/L PB	<0.02
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	<0.02
SELENIUM	MG/L SE	<.0010
SILVER	MG/L AG	<0.01
ZINC	MG/L ZN	0.23
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025
THALLIUM	MG/L TL	<0.001
TIN	MG/L SN	<0.06
VANADIUM	MG/L V	<0.05

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ40223 09/04/97	WELL EMP3 SJ43852 12/16/97
FIELD PARAMETERS			
DEPTH TO WATER	FT	14.33	14.46
DEPTH TO BOTTOM	FT	198.5	190.6
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	18	16
FIELD WATER TEMPERATURE	DEG C	23.81	22.13
FIELD PH	PH	7.42	7.67
FIELD CONDUCTIVITY	UMHOS/CM	2940	2885
FIELD DISSOLVED O2	MG/L	0.18	0.21
FIELD DISSOLVED CO2	MG/L	8	4
GENERAL			
PH	PH	8.03	7.83
CONDUCTIVITY	UMHOS/CM	2850	2074
TOTAL DISSOLVED SOLIDS	MG/L	2136	
TOTAL HARDNESS	MG/L CaCO3	444	C
TOTAL CYANIDE	MG/L CN	< 0.002	
BORON	MG/L B	0.53	
ANIONS			
NITRATE NITROGEN	MG/L N	< 0.05	A < 0.04
SULFATE	MG/L SO4	1050	A 1150
CHLORIDE	MG/L CL	195	A 192
TOTAL ALKALINITY	MG/L CaCO3	117	113
BICARBONATE ALKALINITY	MG/L CaCO3	117	113
TOTAL SULFIDE	MG/L S	< 0.1	B
CATIONS			
FLUORIDE	MG/L F	0.72	
CALCIUM-HARDNESS	MG/L CaCO3	262	280
MAGNESIUM-HARDNESS	MG/L CaCO3	182	192
SODIUM	MG/L NA	478	492
POTASSIUM	MG/L K	8.0	5.0
IRON	MG/L FE	0.54	
MANGANESE	MG/L MN	0.11	
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	0.6	0.90

FOOTNOTES : A - AVERAGE B - AVERAGE OF DUPS C - CALCULATED VALUE D - DUP & SPIKE E - DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ40223 09/04/97	WELL EMP3 SJ43852 12/16/97
ORGANIC MATTER			
TOTAL BOD	MG/L O	< 0.7	< 0.7
SOLUBLE BOD	MG/L O	1	0
TOTAL COD	MG/L O	50	D
SOLUBLE COD	MG/L O	9	4
TOTAL ORGANIC CARBON	MG/L C	1.28	1.23
OIL & GREASE	MG/L EXTRAC	1.6	
TOTAL ORGANIC HALOGEN (TOX)	UG/L	19.0	
METALS			
ARSENIC	MG/L AS	.0020	
BARIUM	MG/L BA	0.01	
CADMIUM	MG/L CD	<0.003	
TOTAL CHROMIUM	MG/L CR	< 0.01	
COBALT	MG/L CO	< 0.01	
COPPER	MG/L CU	< 0.01	
LEAD	MG/L PB	< 0.02	
MERCURY	MG/L HG	<0.001	
NICKEL	MG/L NI	0.02	
SELENIUM	MG/L SE	<0.010	
SILVER	MG/L AG	< 0.01	
ZINC	MG/L ZN	0.08	
ANTIMONY	MG/L SB	<.0005	
BERYLLIUM	MG/L BE	<.0025	E
THALLIUM	MG/L TL	<0.001	E
TIN	MG/L SN	< 0.06	
VANADIUM	MG/L V	< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
2,4,5-T	UG/L	< 0.05	
DINOSB	UG/L	< 0.1	
THIONAZIN	UG/L	< 1	
DIMETHOATE	UG/L	< 1	
DISULFOTON	UG/L	< 1	
METHYL PARATHION	UG/L	< 1	
ETHYL PARATHION	UG/L	< 1	
PHORATE	UG/L	< 0.01	
PP',-DDE	UG/L	< 0.01	
PP',-DDD	UG/L	< 0.01	
PP',-DDT	UG/L	< 0.01	

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ40223 09/04/97	WELL EMP3 SJ43852 12/16/97	B-AVERAGE OF DUPS	C-CALCULATED VALUE	D-DUP & SPIKE	E-DUPLICATE SPIKE
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	<	0.01				
LINDANE (GAMMA-BHC)	UG/L	<	0.01				
HEPTACHLOR	UG/L	<	0.01				
HEPTACHLOR EPOXIDE	UG/L	<	0.01				
ALDRIN	UG/L	<	0.01				
DIELDRIN	UG/L	<	0.01				
ENDRIN	UG/L	<	0.01				
TOXAPHENE	UG/L	<	0.5				
METHOXYCLOR	UG/L	<	0.01				
2,4-D (ACID)	UG/L	<	0.5				
2,4,5-TP (SILVEX)	UG/L	<	0.1				
AROCLOR 1242	UG/L	<	0.05				
AROCLOR 1254	UG/L	<	0.05				
BETA-BHC	UG/L	<	0.01				
DELTA-BHC	UG/L	<	0.01				
ENDOSULFAN I	UG/L	<	0.01				
ENDOSULFAN II	UG/L	<	0.01				
ENDOSULFAN SULFATE	UG/L	<	0.1				
ENDRIN ALDEHYDE	UG/L	<	0.01				
AROCLOR 1016	UG/L	<	0.1				
AROCLOR 1221	UG/L	<	0.1				
AROCLOR 1232	UG/L	<	0.1				
AROCLOR 1248	UG/L	<	0.1				
AROCLOR 1260	UG/L	<	0.1				
TECHNICAL CHLORDANE	UG/L	<	0.05				
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	<	1				
BROMOCHLOROMETHANE	UG/L	<	1				
CHLOROPRENE	UG/L	<	1				
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.01				
T-1,4-DICHLORO-2-BUTENE	UG/L	<	0.01				
1,3-DICHLOROPROPANE	UG/L	<	0.3				
2,2-DICHLOROPROPANE	UG/L	<	1				
1,1-DICHLOROPROPENE	UG/L	<	1				
ISOBUTYL ALCOHOL	UG/L	<	10				
METHACRYLONITRILE	UG/L	<	10				
METHYL IODIDE	UG/L	<	1				
METHYLENE BROMIDE	UG/L	<	1				
PROPIONITRILE	UG/L	<	10				

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ40223 09/04/97	WELL EMP3 SJ43852 12/16/97
ACID-BASE NEUTRAL EXTRACTABLE			
M-NITROANILINE	UG/L	<	1
P-NITROANILINE	UG/L	<	1
N-NITRODI-N-BUTYLAMINE	UG/L	<	1
N-NITROSODIETHYLAMINE	UG/L	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	1
N-NITROPIPERIDINE	UG/L	<	1
N-NITROPIRROLIDINE	UG/L	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	1
PENTACHLOROBENZENE	UG/L	<	5
PENTACHLORONITROBENZENE	UG/L	<	1
PHENACETIN	UG/L	<	20
P-PHENYLENEDIAMINE	UG/L	<	1
PRONAMIDE	UG/L	<	1
SAFROLE	UG/L	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	1
O-TOLUIDINE	UG/L	<	1
O,O,O-TRITHYLPHOSPHOROTH	UG/L	<	1
SYM-TRINITROBENZENE	UG/L	<	5
ACENAPHTHENE	UG/L	<	1
ACENAPHTHYLENE	UG/L	<	1
ANTHRACENE	UG/L	<	1
BENZIDINE	UG/L	<	20
BENZO (A) ANTHRACENE	UG/L	<	0.2
BENZO (A) PYRENE	UG/L	<	1
BENZO (B) FLUORANTHENE	UG/L	<	1
BENZO (G.H.I.) PERYLENE	UG/L	<	1
BENZO (K) FLUORANTHENE	UG/L	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	1
2-CHLORONAPHTHALENE	UG/L	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	1
CHRYSENE	UG/L	<	1
DIBENZO (A,H) ANTHRACENE	UG/L	<	1
3,3'-DI-CHLOROBENZIDINE	UG/L	<	1
DIETHYL PHTHALATE	UG/L	<	1
DIMETHYL PHTHALATE	UG/L	<	1

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ40223 09/04/97	WELL EMP3 SJ43852 12/16/97
ACID-BASE NEUTRAL EXTRACTABLE			
DI-N-BUTYL PHTHALATE	UG/L	<	1
2,4-DINITROTOLUENE	UG/L	<	1
2,6-DINITROTOLUENE	UG/L	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	1
FLUORANTHENE	UG/L	<	1
FLUORENE	UG/L	<	1
HEXACHLOROBENZENE	UG/L	<	1
HEXACHLOROBUTADIENE	UG/L	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5
HEXACHLOROETHANE	UG/L	<	1
INDENO(1,2,3-C,D) PYRENE	UG/L	<	1
ISOPHORONE	UG/L	<	1
NAPHTHALENE	UG/L	<	1
NITROBENZENE	UG/L	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1
PHENANTHRENE	UG/L	<	1
PYRENE	UG/L	<	1
2-CHLOROPHENOL	UG/L	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1
2,4-DICHLOROPHENOL	UG/L	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1
2,4-DINITROPHENOL	UG/L	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1
2-NITROPHENOL	UG/L	<	1
4-NITROPHENOL	UG/L	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1
PENTACHLOROPHENOL	UG/L	<	1
PHENOL	UG/L	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1
O-CRESOL	UG/L	<	1
DIOXINS			
M+P CRESOL	UG/L	<	1

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP3 SJ40222 09/04/97
CATIONS		
IRON	MG/L FE	0.36 A
MANGANESE	MG/L MN	0.11 A
METALS		
ARSENIC	MG/L AS	.0022
BARIUM	MG/L BA	0.01 A
CADMIUM	MG/L CD	<0.003 A
TOTAL CHROMIUM	MG/L CR	<0.01 A
COBALT	MG/L CO	<0.01 A
COPPER	MG/L CU	<0.01 A
LEAD	MG/L PB	<0.02
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	<0.02 A
SELENIUM	MG/L SE	<0.010
SILVER	MG/L AG	<0.01
ZINC	MG/L ZN	<0.01 A
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025
THALLIUM	MG/L TL	<0.001
TIN	MG/L SN	<0.06 A
VANADIUM	MG/L V	<0.05 A

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ32416 03/05/97	WELL EMP5 SU32800 03/14/97	WELL EMP5 SJ32801 03/14/97	WELL EMP5 SJ36326 06/10/97	WELL EMP5 SJ40261 09/05/97	WELL EMP5 SJ40262 09/05/97	WELL EMP5 SJ43696 12/11/97
FIELD PARAMETERS								
DEPTH TO WATER	FT	15.38	15.38	15.67	15.84	15.84	16.37	16.37
DEPTH TO BOTTOM	FT	28.18	28.08	28.08	28.21	28.21	28.24	28.24
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	15	19	12	20	20	17	17
FIELD WATER TEMPERATURE	DEG C	21.83	20.97	22.62	23.89	23.89	19.03	19.03
FIELD PH	PH	6.38	6.29	6.62	6.47	6.47	6.5	6.5
FIELD CONDUCTIVITY	UMHOS/CM	2563	2612	2769	2628	2628	2652	2652
FIELD DISSOLVED O2	MG/L	0.53	0.2	0.13	0.1	0.1	1.22	1.22
FIELD DISSOLVED CO2	MG/L	514	617	305	432	432	394	394
GENERAL								
PH	PH	7.08 A	6.92	6.92	7.02	7.00	7.06	7.03
CONDUCTIVITY	UMHOS/CM					2640	2630	2640
TOTAL DISSOLVED SOLIDS	MG/L	1852	1859	1849	2130	1946	1935	1846 C
TOTAL HARDNESS	MG/L CAC03					1182 E	1173 E	
TOTAL CYANIDE	MG/L CN					<0.002	<0.002	
BORON	MG/L B					1.14	0.88	
ANIONS								
NITRATE NITROGEN	MG/L N	< 0.05 B	< 0.05 B	< 0.05 B	< 0.05 B	< 0.05 B	< 0.05 B	< 0.04
SULFATE	MG/L SO4	560 B	560 B	558 B	573 B	579 B	578 B	647
CHLORIDE	MG/L CL	189 B	190 B	189 B	183 B	186 B	185 B	179 C
TOTAL ALKALINITY	MG/L CAC03	702	685	682	724	726	723	710
BICARBONATE ALKALINITY	MG/L CAC03	702	685	682	724	698	723	710
TOTAL SULFIDE	MG/L S					< 0.1	< 0.1	
FLUORIDE	MG/L F					< 0.56	< 0.58	
CATIONS								
CALCIUM-HARDNESS	MG/L CAC03	674 D	707	697	704	717	704 D	759
MAGNESIUM-HARDNESS	MG/L CAC03	449 D	473	477	486	465	469 D	527
SODIUM	MG/L NA	169 D	179	179	181	184	183 D	199
POTASSIUM	MG/L K	5.3 D	5.4	5.4	5.3	4.7	4.5 D	4.8
IRON	MG/L FE					0.19	0.16 D	
MANGANESE	MG/L MN					0.72	0.66 D	
ORGANIC MATTER								
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE F-10% RULE EXCEEDED

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPS SJ32416 03/05/97	WELL EMPS SJ32800 03/14/97	WELL EMPS SJ32801 03/14/97	WELL EMPS SJ36326 06/10/97	WELL EMPS SJ40261 09/05/97	WELL EMPS SJ40262 09/05/97	WELL EMPS SJ43696 12/11/97
ORGANIC MATTER								
TOTAL BOD	MG/L O	< 0.7	C < 0.7	< 0.7	< 0.7	< 0.7	1	< 0.7
SOLUBLE BOD	MG/L O						2	
TOTAL COD	MG/L O	11	9	7	11	15	14	14 C
SOLUBLE COD	MG/L O	3.99	4.21	4.30	4.34	3.39	3.46	9
TOTAL ORGANIC CARBON	MG/L C							4.23 D
OIL & GREASE	MG/L C							
TOTAL ORGANIC HALOGEN (TOX)	UG/L EXTRAC						1	
						37 F	42 B	
METALS								
ARSENIC	MG/L AS					.0073	.0065	
BARIUM	MG/L BA					0.05	0.05	
CADMIUM	MG/L CD					< 0.003	< 0.003 D	
TOTAL CHROMIUM	MG/L CR					< 0.01	< 0.01	
COBALT	MG/L CO					< 0.01	< 0.01	
COPPER	MG/L CU					< 0.01	< 0.01 D	
LEAD	MG/L PB					< 0.02	< 0.02 D	
MERCURY	MG/L HG					< 0.001	< 0.001 D	
NICKEL	MG/L NI					< 0.02	< 0.02 D	
SELENIUM	MG/L SE					< 0.010	< 0.010 D	
SILVER	MG/L AG					< 0.01	< 0.01 D	
ZINC	MG/L ZN					0.02	0.02 D	
ANTIMONY	MG/L SB					< 0.005	< 0.005	
BERYLLIUM	MG/L BE					< 0.025 D	< 0.025	
THALLIUM	MG/L TL					< 0.001 D	< 0.001	
TIN	MG/L SN					< 0.06	< 0.06 D	
VANADIUM	MG/L V					< 0.05	< 0.05 D	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
2, 4, 5-T	UG/L					< 0.05	< 0.05	
DINOSEB	UG/L					< 0.1	< 0.1	
THIONAZIN	UG/L					1	1	
DIMETHOATE	UG/L					1	1	
DISULFOTON	UG/L					1	1	
METHYL PARATHION	UG/L					1	1	
ETHYL PARATHION	UG/L					1	1	
PHORATE	UG/L					1	1	
PP' - DDE	UG/L					< 0.01	< 0.01	
PP' - DDD	UG/L					< 0.01	< 0.01	
PP' - DDT	UG/L					< 0.01	< 0.01	

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPS SJ32416 03/05/97	WELL EMPS SJ32800 03/14/97	WELL EMPS SJ32801 03/14/97	WELL EMPS SJ36326 06/10/97	WELL EMPS SJ40261 09/05/97	WELL EMPS SJ40262 09/05/97	WELL EMPS SJ43696 12/11/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
ALPHA-BHC	UG/L	<	<	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<	<	<
METHOXYCHLOR	UG/L	<	<	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS								
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ32416 03/05/97	WELL EMP5 SJ32800 03/14/97	WELL EMP5 SJ32801 03/14/97	WELL EMP5 SJ36326 06/10/97	WELL EMP5 SJ40261 09/05/97	WELL EMP5 SJ40262 09/05/97	WELL EMP5 SJ43696 12/11/97
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<
2-CHLOROETHYL VINYL ETHER	UG/L	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ32416 03/05/97	WELL EMP5 SJ32800 03/14/97	WELL EMP5 SJ32801 03/14/97	WELL EMP5 SJ36326 06/10/97	WELL EMP5 SJ40261 09/05/97	WELL EMP5 SJ40262 09/05/97	WELL EMP5 SJ43696 12/11/97
VOLATILE ORGANIC COMPOUNDS								
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M,P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE								
ACETOPHENONE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-ACETYLAMINOFLOURENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-AMINOBIPHENYL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BENZYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P-CHLOROANILINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZYLATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIALLATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBENZOFURAN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-DICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3,3'-DIMETHYLBENZIDINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M-DINITROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIPHENYLAMINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL METHANESULFONATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
FAMPHUR	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
HEXACHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISODRIN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISOSAFROLE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
KEPONE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHAPYRILENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3-METHYLCOLANTHRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL METHANESULFONATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-METHYLNAPHTHALENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-NAPHTHOQUINONE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-NAPHTHYLAMINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-NAPHTHYLAMINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-NITROANILINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE
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ACID-BASE NEUTRAL EXTRACTABLE								
M-NITROANILINE	UG/L							
P-NITROANILINE	UG/L							
N-NITROSODI-N-BUTYLAMINE	UG/L							
N-NITROSODIETHYLAMINE	UG/L							
N-NITROSOMETHYLETHYLAMINE	UG/L							
N-NITROSOPIPERIDINE	UG/L							
N-NITROSOPYRROLIDINE	UG/L							
5-NITRO-O-TOLUIDINE	UG/L							
PENTACHLOROBENZENE	UG/L							
PENTACHLORONITROBENZENE	UG/L							
PHENACETIN	UG/L							
P-PHENYLENEDIAMINE	UG/L							
PRONAMIDE	UG/L							
SAFROLE	UG/L							
1,2,4,5-TETRACHLOROBENZEN	UG/L							
2,3,4,6-TETRACHLOROPHENOL	UG/L							
O-TOLUIDINE	UG/L							
O,O-O-TRIETHYLPHOSPHOROTH	UG/L							
SYM-TRINITROBENZENE	UG/L							
ACENAPHTHENE	UG/L							
ACENAPHTHYLENE	UG/L							
ANTHRACENE	UG/L							
BENZIDINE	UG/L							
BENZO (A) ANTHRACENE	UG/L							
BENZO (A) PYRENE	UG/L							
BENZO (B) FLUORANTHENE	UG/L							
BENZO (G. H. I.) PERYLENE	UG/L							
BENZO (K) FLUORANTHENE	UG/L							
BIS (2-CL-ETHOXY)METHANE	UG/L							
BIS (2-CHLOROETHYL) ETHER	UG/L							
BIS (2-CL-ISOPROPYL) ETHER	UG/L							
DIETHYLHEXYL PHTHALATE	UG/L							
4-BROMOPHENYL PHENYLETHER	UG/L							
BUTYLBENZYL PHTHALATE	UG/L							
2-CHLORONAPHTHALENE	UG/L							
4-CHLOROPHENYLETHER	UG/L							
CHRYSENE	UG/L							
DIBENZO (A, H) ANTHRACENE	UG/L							
3,3'-DICHLOROBENZIDINE	UG/L							
DIETHYL PHTHALATE	UG/L							
DIMETHYL PHTHALATE	UG/L							

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WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPS SJ32416 03/05/97	WELL EMPS SJ32800 03/14/97	WELL EMPS SJ32801 03/14/97	WELL EMPS SJ36326 06/10/97	WELL EMPS SJ40261 09/05/97	WELL EMPS SJ40262 09/05/97	WELL EMPS SJ43696 12/11/97
ACID-BASE NEUTRAL EXTRACTABLE								
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<	<	<	<
INDENO(1,2,3-C,D) PYRENE	UG/L	<	<	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-AVERAGE C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE F-10% RULE EXCEEDED

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP5 SJ40259 09/05/97	WEFI EMP5 SJ40260 09/05/97
CATIONS			
IRON	MG/L FE	0.13	0.11
MANGANESE	MG/L MN	0.69	0.69
METALS			
ARSENIC	MG/L AS	.0056	.0073
BARIUM	MG/L BA	0.05	0.05
CADMIUM	MG/L CD	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	<0.01	<0.01
COBALT	MG/L CO	<0.01	<0.01
COPPER	MG/L CU	<0.01	<0.01
LEAD	MG/L PB	<0.02	<0.02
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	<0.02	<0.02
SELENIUM	MG/L SE	<.0010	<.0010
SILVER	MG/L AG	<0.01	<0.01
ZINC	MG/L ZN	0.03	0.03
ANTIMONY	MG/L SB	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0025	<.0025
THALLIUM	MG/L TL	<0.001	<0.001
TIN	MG/L SN	<0.06	<0.06
VANADIUM	MG/L V	<0.05	<0.05

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ32417 03/05/97	WELL M16A SJ36100 06/04/97	WELL M16A SJ36101 06/04/97	WELL M16A SJ40255 09/05/97	WELL M16A SJ44065 12/22/97
FIELD PARAMETERS						
DEPTH TO WATER	FT	41.07	46.08		50.05	46.28
DEPTH TO BOTTOM	FT	85.12	85.25		85.08	85.28
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1		< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	20		19	21
FIELD WATER TEMPERATURE	DEG C	22.05	21.59		22.17	20.02
FIELD PH	PH	6.28	6.48		6.27	6.52
FIELD CONDUCTIVITY	UMHOS/CM	1607	1650		1588	1377
FIELD DISSOLVED O2	MG/L	2.3	3.54		3.55	2.62
FIELD DISSOLVED CO2	MG/L	469	287		431	177
GENERAL						
PH	PH	6.95	6.98 B	6.94	6.95 B	7.01
CONDUCTIVITY	UMHOS/CM	1087	1134 C	1118	1032	832
TOTAL DISSOLVED SOLIDS	MG/L				690 E	
TOTAL HARDNESS	MG/L				<0.002	
TOTAL CYANIDE	MG/L				0.57	
BORON	MG/L B					
ANIONS						
NITRATE	MG/L N	36.5 A	39.5 A	39.3 A	32.2 D	21.2
NITROGEN	MG/L N	196 A	192 A	189 A	181 D	173 C
SULFATE	MG/L SO4	54.6 A	45.1 A	45.4 A	59.0 D	72.7 C
CHLORIDE	MG/L CL	509	493 C	495	457 C	333 C
TOTAL ALKALINITY	MG/L CACO3	509	493	495	457	333
BICARBONATE ALKALINITY	MG/L S				< 0.1	
TOTAL SULFIDE	MG/L S				0.21	
FLUORIDE	MG/L F					
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3	524	517	522	497	437 D
MAGNESIUM-HARDNESS	MG/L CACO3	209	212	214	193	178 D
SODIUM	MG/L NA	65.7	67.4	65.7	71.7	74.9 D
POTASSIUM	MG/L K	4.8	5.0	5.2	4.4	4.2 D
IRON	MG/L FE				< 0.02	
MANGANESE	MG/L MN				<0.003	
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ32417 03/05/97	WELL M16A SJ36100 06/04/97	WELL M16A SJ36101 06/04/97	WELL M16A SJ40255 09/05/97	WELL M16A SJ44065 12/22/97
ORGANIC MATTER						
TOTAL BOD	MG/L O	< 0.7	< 0.7 C	< 0.7	< 0.7	< 0.7
SOLUBLE BOD	MG/L O					
TOTAL COD	MG/L O	2	< 2	< 4 C	3	< 2
SOLUBLE COD	MG/L O					
TOTAL ORGANIC CARBON	MG/L C	1.56	< 2.00	< 2.07	1.10	< 1.44
OIL & GREASE	MG/L EXTRAC				1	
TOTAL ORGANIC HALOGEN (TOX)	UG/L				11	D
METALS						
ARSENIC	MG/L AS				.0027	
BARIUM	MG/L BA				0.07	
CADMIUM	MG/L CD				< 0.003	
TOTAL CHROMIUM	MG/L CR				< 0.01	
COBALT	MG/L CO				< 0.01	
COPPER	MG/L CU				< 0.01	
LEAD	MG/L PB				< 0.02	
MERCURY	MG/L HG				< 0.0001	
NICKEL	MG/L NI				< 0.02	
SELENIUM	MG/L SE				.0221	
SILVER	MG/L AG				< 0.01	
ZINC	MG/L ZN				< 0.01	
ANTIMONY	MG/L SB				< 0.0005	
BERYLLIUM	MG/L BE				< 0.025	
THALLIUM	MG/L TL				< 0.001	
TIN	MG/L SN				< 0.06	
VANADIUM	MG/L V				< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L				< 0.05	
DINoseb	UG/L				< 0.1	
THIONAZIN	UG/L				1	
DIMETHOATE	UG/L				1	
DISULFOTON	UG/L				1	
METHYL PARATHION	UG/L				1	
ETHYL PARATHION	UG/L				1	
PHORATE	UG/L				1	
PP'-DDE	UG/L				< 0.01	
PP'-DDD	UG/L				< 0.01	
PP'-DDT	UG/L				< 0.01	

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ32417 03/05/97	WELL M16A SJ36100 06/04/97	WELL M16A SJ36101 06/04/97	WELL M16A SJ40255 09/05/97	WELL M16A SJ44065 12/22/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALPHA-BHC	UG/L	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<
2,4-D(ACID)	UG/L	<	<	<	<	<
2,4,5-TP(SILVEX)	UG/L	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A	WELL M16A	WELL M16A	WELL M16A	WELL M16A	WELL M16A	WELL M16A	WELL M16A	WELL M16A	D-DUPLICATE SPIKE	E-CALCULATED VALUE
VOLATILE ORGANIC COMPOUNDS												
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ32417 03/05/97	WELL M16A SJ36100 06/04/97	WELL M16A SJ36101 06/04/97	WELL M16A SJ40255 09/05/97	WELL M16A SJ44065 12/22/97
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L	<	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A	WELL M16A	WELL M16A	WELL M16A	WELL M16A
SJ32417		SJ36100	SJ36101	SJ40255	SJ44065	
03/05/97		06/04/97	06/04/97	09/05/97	12/22/97	

ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<
N-NITROSOPYRIDINE	UG/L	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<
ACENAPHTYLENE	UG/L	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<
BENZIDINE	UG/L	<	<	<	<	<
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	<
BENZO(A)PYRENE	UG/L	<	<	<	<	<
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	<
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	<
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	<
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	<
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	<
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ32417 03/05/97	WELL M16A SJ36100 06/04/97	WELL M16A SJ36101 06/04/97	WELL M16A SJ40255 09/05/97	WELL M16A SJ44065 12/22/97	D-DUPLICATE SPIKE	C-DUP & SPIKE	E-CALCULATED VALUE
ACID-BASE NEUTRAL EXTRACTABLE									
DI-N-BUTYL PHTHALATE	UG/L								
2,4-DINITROTOLUENE	UG/L					1			
2,6-DINITROTOLUENE	UG/L					1			
DI-N-OCTYL PHTHALATE	UG/L					1			
FLUORANTHENE	UG/L					1			
FLUORENE	UG/L					1			
HEXACHLOROBENZENE	UG/L					1			
HEXACHLOROBUTADIENE	UG/L					1			
HEXACHLOROCYCLOPENTADIENE	UG/L					1			
HEXACHLOROETHANE	UG/L					1			
INDENO(1,2,3-C,D) PYRENE	UG/L					1			
ISOPHORONE	UG/L					1			
NAPHTHALENE	UG/L					1			
NITROBENZENE	UG/L					1			
N-NITROSODIMETHYLAMINE	UG/L					1			
N-NITROSODI-N-PROPYLAMINE	UG/L					1			
PHENANTHRENE	UG/L					1			
PYRENE	UG/L					1			
2-CHLOROPHENOL	UG/L					1			
1,2,4-TRICHLOROBENZENE	UG/L					1			
2,4-DICHLOROPHENOL	UG/L					1			
2,4-DIMETHYLPHENOL	UG/L					1			
2,4-DINITROPHENOL	UG/L					1			
2-METHYL-4,6-DINITROPHENOL	UG/L					1			
4-NITROPHENOL	UG/L					1			
4-NITROPHENOL	UG/L					1			
4-CHLORO-3-METHYLPHENOL	UG/L					1			
PENTACHLOROPHENOL	UG/L					1			
PHENOL	UG/L					1			
2,4,6-TRICHLOROPHENOL	UG/L					1			
N-NITROSODIPHENYLAMINE	UG/L					1			
O-CRESOL	UG/L					1			
M+P CRESOL	UG/L					1			

FOOTNOTES : A-AVERAGE B-AVERAGE OF DUPS C-DUP & SPIKE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFI
 M16A
 SJ40254
 09/05/97

CONSTITUENT/WELL NO.	UNITS	
CATIONS		
IRON	MG/L	FE < 0.02
MANGANESE	MG/L	MN < 0.003
METALS		
ARSENIC	MG/L	AS .0026
BARIUM	MG/L	BA 0.07
CADMIUM	MG/L	CD < 0.003
TOTAL CHROMIUM	MG/L	CR < 0.01
COBALT	MG/L	CO < 0.01
COPPER	MG/L	CU < 0.02
LEAD	MG/L	PB < 0.02
MERCURY	MG/L	HG < .0001
NICKEL	MG/L	NI < 0.02
SELENIUM	MG/L	SE .0217
SILVER	MG/L	AG < 0.01
ZINC	MG/L	ZN 0.01
ANTIMONY	MG/L	SB < .0005
BERYLLIUM	MG/L	BE < 0.005
THALLIUM	MG/L	TL < 0.001
TIN	MG/L	SN < 0.06
VANADIUM	MG/L	V < 0.05

TABLE A.6
WATER QUALITY DATA
OFFSITE PIEZOMETERS

TABLE A.6

WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL	WELL	WELL	WELL	WELL	WELL
		EB1-S	EB1-S	EB1-S(F)	EB1-S(F)	EB1-D	EB1-D
		SJ41315	SJ41316	SJ41313	SJ41314	SJ41264	SJ41261
		10/03/97	10/03/97	10/03/97	10/03/97	10/02/97	10/02/97
FIELD PARAMETERS							
DEPTH TO WATER	FT	25.75				26.56	
DEPTH TO BOTTOM	FT	54.97				227.5	
PERCENT METHANE IN GAS	%CH4	< 0.1				< 0.1	
PERCENT OXYGEN IN GAS	%O2	15				19	
FIELD WATER TEMPERATURE	DEG C	23.88				21.84	
FIELD PH	PH	6.78				7.25	
FIELD CONDUCTIVITY	UMHOS/CM	2069				1372	
FIELD DISSOLVED O2	MG/L	0.44				0.33	
GENERAL							
PH	PH	7.85 D	7.79			7.76	7.76
CONDUCTIVITY	UMHOS/CM	2070	2060			1424	1426
TOTAL DISSOLVED SOLIDS	MG/L	1470	1436			978	960
TOTAL HARDNESS	MG/L	777 G	824 G			364	369
TOTAL CYANIDE	MG/L	<0.002	<0.002			< 0.01	< 0.01
BORON	MG/L	0.94	1.01			0.42	0.39
ANIONS							
NITRATE NITROGEN	MG/L	0.03 E	0.03			0.08	0.06
SULFATE	MG/L	247 B	267			418	374
CHLORIDE	MG/L	93.7	93.1			100	100
TOTAL ALKALINITY	MG/L	849	844 B			238	238
BICARBONATE ALKALINITY	MG/L	849	844			238	238
TOTAL SULFIDE	MG/L	< 0.1	< 0.1			< 0.1	< 0.1 D
FLUORIDE	MG/L	0.71	0.68			0.59	0.58
CATIONS							
CALCIUM-HARDNESS	MG/L	499	537			220	225
MAGNESIUM-HARDNESS	MG/L	278	288			144	144
SODIUM	MG/L	147	144			155	155
POTASSIUM	MG/L	14.0	12.9			9.1	9
IRON	MG/L	4.62	4.94			2.4	2.3
MANGANESE	MG/L	2.54	2.41			0.400 A	0.370 A
ORGANIC MATTER						4.12	1.7
AMMONIA NITROGEN	MG/L	0.95	1.16			2.41	0.340 A
TOTAL BOD	MG/L	10	11			< 0.1	< 0.1
						< 1 B	< 4

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-AVERAGE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-CALCULATED VALUE

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB1-S SJ41315 10/03/97	WELL EB1-S SJ41316 10/03/97	WELL EB1-S(F) SJ41313 10/03/97	WELL EB1-S(F) SJ41314 10/03/97	WELL EB1-D SJ41263 10/02/97	WELL EB1-D SJ41264 10/02/97	WELL EB1-D(F) SJ41261 10/02/97	WELL EB1-D(F) SJ41262 10/02/97
ORGANIC MATTER									
SOLUBLE BOD	MG/L O	5	6			<	<	0.7	
TOTAL COD	MG/L O	30 B	24			6	11	11	
SOLUBLE COD	MG/L O	30	30			6	11	11	
TOTAL ORGANIC CARBON	MG/L C	8.88	7.87			1.43	1.97 E		
OIL & GREASE	MG/L EXTRAC	2.3	2.4			<	<	1	
TOTAL ORGANIC HALOGEN (TOX)	UG/L	32 F	29 F			6.6 C	12 F		
METALS									
ARSENIC	MG/L AS	.0148	.0140	.0153	.0133	.0021	.0023	.0022	.0021
BARIUM	MG/L BA	< 0.05	< 0.05	< 0.05	< 0.05	0.019	0.02	0.017	0.017
CADMIUM	MG/L CD	< 0.003	< 0.003	< 0.003	< 0.003	< 0.005	< 0.005	< 0.005	< 0.005
TOTAL CHROMIUM	MG/L CR	< 0.04	< 0.04	< 0.04	< 0.04	< 0.002	< 0.002	< 0.002	< 0.002
COBALT	MG/L CO	< 0.02	< 0.02	< 0.02	< 0.02	< 0.002	< 0.002	< 0.002	< 0.002
COPPER	MG/L CU	0.005	< 0.005	0.005	0.005	.0027	.0029	.0043	.0023
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02	< 0.019	< 0.006	< 0.005	< 0.005
MERCURY	MG/L HG	.0001	.0001	.0002	.0001	.0002	.0002	.0002	.0002
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005
SELENIUM	MG/L SE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.006	< 0.005	< 0.005
ZINC	MG/L ZN	< 0.01	< 0.01	< 0.01	< 0.01	0.089	0.095	0.054	0.012
ANTIMONY	MG/L SB	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BERYLLIUM	MG/L BE	< 0.025	< 0.025	< 0.025	< 0.025	< 0.001	< 0.001	< 0.001	< 0.001
THALLIUM	MG/L TL	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.1	< 0.1	< 0.1	< 0.1
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-T	UG/L	< 0.05	< 0.05			< 0.05	< 0.05		
DINOSB	UG/L	< 0.1	< 0.1			< 0.1	< 0.1		
THIONAZIN	UG/L	< 1	< 1			< 1	< 1		
DIMETHOATE	UG/L	< 1	< 1			< 1	< 1		
DISULFOTON	UG/L	< 1	< 1			< 1	< 1		
METHYL PARATHION	UG/L	< 1	< 1			< 1	< 1		
ETHYL PARATHION	UG/L	< 1	< 1			< 1	< 1		
PHORATE	UG/L	< 1	< 1			< 1	< 1		
PP', -DDE	UG/L	< 0.01	< 0.01			< 0.01	< 0.01		
PP', -DDD	UG/L	< 0.01	< 0.01			< 0.01	< 0.01		
PP', -DDT	UG/L	< 0.01	< 0.01			< 0.01	< 0.01		
ALPHA-BHC	UG/L	< 0.01	< 0.01			< 0.01	< 0.01		

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-AVERAGE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-CALCULATED VALUE

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL		WELL		WELL		WELL		WELL		WELL		
		EB1-S	SJ41315	EB1-S	SJ41316	EB1-S (F)	SJ41313	EB1-S (F)	SJ41314	EB1-D	SJ41263	EB1-D	SJ41264	EB1-D (F)
		10/03/97	10/03/97	10/03/97	10/03/97	10/03/97	10/03/97	10/03/97	10/02/97	10/02/97	10/02/97	10/02/97	10/02/97	10/02/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS														
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP (SILVEX)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS														
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-AVERAGE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-CALCULATED VALUE

TABLE A.6

WATER QUALITY DATA - OFFSITE PIEZOMETERS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL		WEFI		WELL		WEFI		WELL	WEFI				
		EB1-S	EB1-S	EB1-S(F)	EB1-S(F)	EB1-D	EB1-D	EB1-D(F)	EB1-D(F)						
SJ41315	10/03/97	SJ41316	10/03/97	SJ41313	10/03/97	SJ41314	10/03/97	SJ41263	10/02/97	SJ41264	10/02/97	SJ41261	10/02/97	SJ41262	10/02/97
VOLATILE ORGANIC COMPOUNDS															
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
METHYL METHACRYLATE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10
ETHYL METHACRYLATE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROFORM	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
CARBON TETRACHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
BROMOFORM	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
VINYL CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
1,1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
1,1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
TOLUENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10
VINYL ACETATE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
O-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	20	<	20	<	20	<	20	<	20	<	20	<	20
ACETONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
FREON 12 (CCL2F2)	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01
1,2-DIBROMOETHANE	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-AVERAGE D-AVERAGE OF DUPS E-DUPLICATE SPIKE

G-CALCULATED VALUE

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB1-S SJ41315 10/03/97	WELL EB1-S SJ41316 10/03/97	WELL EB1-S(F) SJ41313 10/03/97	WELL EB1-S(F) SJ41314 10/03/97	WELL EB1-D SJ41263 10/02/97	WELL EB1-D SJ41264 10/02/97	WELL EB1-D(F) SJ41261 10/02/97	WELL EB1-D(F) SJ41262 10/02/97
VOLATILE ORGANIC COMPOUNDS									
ACETONE	UG/L	<	10	<	<	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<	<	<	<	<
2-BUTANONE	UG/L	<	10	<	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	10	<	<	<	<	<	<
STYRENE	UG/L	<	1	<	<	<	<	<	<
2,4,5-TRICHLOROPHENOL	UG/L	<	1	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	1	<	<	<	<	<	<
CARBON DISULFIDE	UG/L CS2	<	1	<	<	<	<	<	<
2-HEXANONE	UG/L C6H12O	<	5	<	<	<	<	<	<
ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L	<	1	<	<	<	<	<	<
2-ACETYLAMINOFUORENE	UG/L	<	1	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	1	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	1	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	1	<	<	<	<	<	<
CHLOROENZILATE	UG/L	<	1	<	<	<	<	<	<
DIALLATE	UG/L	<	1	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	1	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	1	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	1	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	10	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	1	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	1	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	1	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	1	<	<	<	<	<	<
FAMPHUR	UG/L	<	1	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	5	<	<	<	<	<	<
ISODRIN	UG/L	<	1	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	1	<	<	<	<	<	<
KEPONE	UG/L	10	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	20	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	1	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	1	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	1	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	1	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	1	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	1	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	1	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	1	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-AVERAGE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-CALCULATED VALUE

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB1-S SJ41315 10/03/97	WELL EB1-S SJ41316 10/03/97	WELL EB1-S(F) SJ41313 10/03/97	WELL EB1-S(F) SJ41314 10/03/97	WELL EB1-D SJ41263 10/02/97	WELL EB1-D SJ41264 10/02/97	WELL EB1-D(F) SJ41261 10/02/97	WELL EB1-D(F) SJ41262 10/02/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
P-NITROANILINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSODI-N-BUTYLAMINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSODIETHYLAMINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSOMETHYLETHYLAMINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSOPYRIDINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSOPYRROLIDINE	UG/L	1	1	1	1	1	1	1	1
5-NITRO-O-TOLUIDINE	UG/L	1	1	1	1	1	1	1	1
PENTACHLOROBENZENE	UG/L	5	5	5	5	5	5	5	5
PHENACETIN	UG/L	1	1	1	1	1	1	1	1
P-PHENYLENEDIAMINE	UG/L	20	20	20	20	20	20	20	20
PRONAMIDE	UG/L	1	1	1	1	1	1	1	1
SAFROLE	UG/L	1	1	1	1	1	1	1	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	1	1	1	1	1	1	1	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	1	1	1	1	1	1	1	1
O-TOLUIDINE	UG/L	1	1	1	1	1	1	1	1
O,O-O-TRIETHYLPHOSPHOROTH	UG/L	1	1	1	1	1	1	1	1
SYM-TRINITROBENZENE	UG/L	5	5	5	5	5	5	5	5
ACENAPHTHENE	UG/L	1	1	1	1	1	1	1	1
ACENAPHTHYLENE	UG/L	1	1	1	1	1	1	1	1
ANTHRACENE	UG/L	1	1	1	1	1	1	1	1
BENZIDINE	UG/L	20	20	20	20	20	20	20	20
BENZO(A)ANTHRACENE	UG/L	1	1	1	1	1	1	1	1
BENZO(A)PYRENE	UG/L	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BENZO(B)FLUORANTHENE	UG/L	1	1	1	1	1	1	1	1
BENZO(G,H,I)PERYLENE	UG/L	1	1	1	1	1	1	1	1
BENZO(K)FLUORANTHENE	UG/L	1	1	1	1	1	1	1	1
BIS(2-CL-ETHOXY)METHANE	UG/L	1	1	1	1	1	1	1	1
BIS(2-CHLOROETHYL)ETHER	UG/L	1	1	1	1	1	1	1	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	1	1	1	1	1	1	1	1
DIETHYLHEXYL PHTHALATE	UG/L	1	1	1	1	1	1	1	1
4-BROMOPHENYL PHENYLETHER	UG/L	1	1	1	1	1	1	1	1
BUTYLBENZYL PHTHALATE	UG/L	1	1	1	1	1	1	1	1
2-CHLORONAPHTHALENE	UG/L	1	1	1	1	1	1	1	1
4-CHLOROPHENYLPHENYLETHER	UG/L	1	1	1	1	1	1	1	1
CHRYSENE	UG/L	1	1	1	1	1	1	1	1
DIBENZO(A,H)ANTHRACENE	UG/L	1	1	1	1	1	1	1	1
3,3'-DICHLOROBENZIDINE	UG/L	1	1	1	1	1	1	1	1
DIETHYL PHTHALATE	UG/L	1	1	1	1	1	1	1	1
DIMETHYL PHTHALATE	UG/L	1	1	1	1	1	1	1	1
DI-N-BUTYL PHTHALATE	UG/L	1	1	1	1	1	1	1	1

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-AVERAGE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-CALCULATED VALUE

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PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB1-S SJ41315 10/03/97	WELL EB1-S SJ41316 10/03/97	WELL EB1-S (F) SJ41313 10/03/97	WELL EB1-S (F) SJ41314 10/03/97	WELL EB1-D SJ41263 10/02/97	WELL EB1-D SJ41264 10/02/97	WELL EB1-D (F) SJ41261 10/02/97	WELL EB1-D (F) SJ41262 10/02/97
ACID-BASE NEUTRAL EXTRACTABLE									
2, 4-DINITROTOLUENE	UG/L	<	1	<	<	1	<	<	1
2, 6-DINITROTOLUENE	UG/L	<	1	<	<	1	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	1	<	<	1	<	<	1
FLUORANTHENE	UG/L	<	1	<	<	1	<	<	1
FLUORENE	UG/L	<	1	<	<	1	<	<	1
HEXACHLOROBENZENE	UG/L	<	1	<	<	1	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	1	<	<	1	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	5	5	<	<	5	<	<	5
HEXACHLOROETHANE	UG/L	<	1	<	<	1	<	<	1
INDENO (1, 2, 3-C, D) PYRENE	UG/L	<	1	<	<	1	<	<	1
ISOPHORONE	UG/L	<	1	<	<	1	<	<	1
NAPHTHALENE	UG/L	<	1	<	<	1	<	<	1
NITROBENZENE	UG/L	<	1	<	<	1	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1	<	<	1	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1	<	<	1	<	<	1
PHENANTHRENE	UG/L	<	1	<	<	1	<	<	1
PYRENE	UG/L	<	1	<	<	1	<	<	1
2-CHLOROPHENOL	UG/L	<	1	<	<	1	<	<	1
1, 2, 4-TRICHLOROBENZENE	UG/L	<	1	<	<	1	<	<	1
2, 4-DICHLOROPHENOL	UG/L	<	1	<	<	1	<	<	1
2, 4-DIMETHYLPHENOL	UG/L	<	1	<	<	1	<	<	1
2, 4-DINITROPHENOL	UG/L	6	6	<	<	6	<	<	6
2-METHYL-4, 6-DINITROPHENOL	UG/L	<	1	<	<	1	<	<	1
2-NITROPHENOL	UG/L	<	1	<	<	1	<	<	1
4-NITROPHENOL	UG/L	<	1	<	<	1	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1	<	<	1	<	<	1
PENTACHLOROPHENOL	UG/L	<	1	<	<	1	<	<	1
PHENOL	UG/L	<	1	<	<	1	<	<	1
2, 4, 6-TRICHLOROPHENOL	UG/L	<	1	<	<	1	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1	<	<	1	<	<	1
O-CRESOL	UG/L	<	1	<	<	1	<	<	1
M+P CRESOL	UG/L	<	1	<	<	1	<	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-AVERAGE D-AVERAGE OF DUPS E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-CALCULATED VALUE

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-S SJ39690 08/25/97	WELL EB2-S SJ39691 08/25/97	WELL EB2-S SJ41254 10/02/97	WELL EB2-S SJ41255 10/02/97	WELL EB2-S(F) SJ39688 08/25/97	WELL EB2-S(F) SJ39689 08/25/97	WELL EB2-S(F) SJ41252 10/02/97	WELL EB2-S(F) SJ41253 10/02/97
FIELD PARAMETERS									
DEPTH TO WATER	FT	43.26		45.17					
DEPTH TO BOTTOM	FT	132.9		132.9					
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1					
PERCENT OXYGEN IN GAS	%O2	20		20					
FIELD WATER TEMPERATURE	DEG C	28.56		22.74					
FIELD PH	PH	7.2		7.09					
FIELD CONDUCTIVITY	UMHOS/CM	1912		1883					
FIELD DISSOLVED O2	MG/L	0.47		0.45					
GENERAL									
PH	PH	6.24	5.97	7.33	7.29				
CONDUCTIVITY	UMHOS/CM	1856	1862	1850	1850				
TOTAL DISSOLVED SOLIDS	MG/L	1534	1549	1456	1474				
TOTAL HARDNESS	MG/L CaCO3	897	920	833	828				
TOTAL CYANIDE	MG/L CN	< 0.002	< 0.002	< 0.01	< 0.01				
BORON	MG/L B	0.42	0.42	0.47	0.54				
ANIONS									
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	0.08	< 0.03				
SULFATE	MG/L SO4	730	723	630	720				
CHLORIDE	MG/L CL	86.8	86.3	86.8	86.8				
TOTAL ALKALINITY	MG/L CaCO3	234	234	251	238				
BICARBONATE ALKALINITY	MG/L CaCO3	234	234	251	238				
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	< 0.1				
FLUORIDE	MG/L F	0.66	0.63	0.66	0.65				
CATIONS									
CALCIUM-HARDNESS	MG/L CaCO3	542	549	470	465				
MAGNESIUM-HARDNESS	MG/L CaCO3	355	371	363	363				
SODIUM	MG/L NA	77.9	80.2	73	73				
POTASSIUM	MG/L K	8.9	8.4	8.5	8.6				
IRON	MG/L FE	3.99	3.09	3.7	3.6				
MANGANESE	MG/L MN	0.31	0.30	0.31	0.31				
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	0.15	0.37	< 0.1	< 0.1				
TOTAL BOD	MG/L O	< 1	< 1	< 1	< 1				

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-S SJ39690 08/25/97	WELL EB2-S SJ39691 08/25/97	WELL EB2-S SJ41254 10/02/97	WELL EB2-S SJ41255 10/02/97	WELL EB2-S (F) SJ39688 08/25/97	WELL EB2-S (F) SJ39689 08/25/97	WELL EB2-S (F) SJ41252 10/02/97	WELL EB2-S (F) SJ41253 10/02/97
ORGANIC MATTER									
SOLUBLE BOD	MG/L O	1 C	1	< 0.7	<	1 C	<	<	<
TOTAL COD	MG/L O	2	2	6 C	<	4	<	<	<
SOLUBLE COD	MG/L O	2	2	4	<	4	<	<	<
TOTAL ORGANIC CARBON	MG/L C	< 0.873	0.856	0.763	0.739	<	<	<	<
OIL & GREASE	MG/L EXTRAC	1.1	1	1	1	<	<	<	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L	34 D	10 A	3.5 D	5.4 D	<	<	<	<
METALS									
ARSENIC	MG/L AS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
BARIUM	MG/L BA	0.03	0.02	0.026	0.029	0.02	0.019	0.017	0.017
CADMIUM	MG/L CD	< 0.003	< 0.003	< 0.005	< 0.005	< 0.003	< 0.005	< 0.005	< 0.005
TOTAL CHROMIUM	MG/L CR	< 0.01	A	0.025	< 0.002	< 0.01	< 0.002	< 0.002	< 0.002
COBALT	MG/L CO	< 0.01	< 0.01	< 0.002	< 0.002	< 0.01	< 0.002	< 0.002	< 0.002
COPPER	MG/L CU	< 0.01	< 0.01	0.044	0.048	< 0.01	0.041	0.032	0.032
LEAD	MG/L PB	< 0.02	E	0.027	0.021	< 0.02	< 0.005	< 0.005	< 0.005
MERCURY	MG/L HG	< 0.001	E	0.002	< 0.002	< 0.001	< 0.002	< 0.002	< 0.002
NICKEL	MG/L NI	< 0.02	0.02	0.052	0.005	< 0.02	0.055	0.005	0.005
SELENIUM	MG/L SE	< 0.010	E	0.010	< 0.010	0.011	< 0.010	< 0.010	< 0.010
SILVER	MG/L AG	< 0.01	0.01	< 0.005	< 0.005	< 0.01	0.007	< 0.005	< 0.005
ZINC	MG/L ZN	0.04	0.04	0.12	0.092	0.01	0.049	0.026	0.026
ANTIMONY	MG/L SB	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BERYLLIUM	MG/L BE	< 0.025	< 0.025	< 0.001	< 0.001	< 0.025	< 0.001	< 0.001	< 0.001
THALLIUM	MG/L TL	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TIN	MG/L SN	< 0.05	< 0.06	0.1	0.1	< 0.06	< 0.1	< 0.1	< 0.1
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-T	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DINOSB	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
THIONAZIN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIMETHOATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DISULFOTON	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL PARATHION	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL PARATHION	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PHORATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PP'-DDE	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6

WATER QUALITY DATA - OFFSITE PIEZOMETERS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-S SJ39690 08/25/97	WELL EB2-S SJ39691 08/25/97	WELL EB2-S SJ41254 10/02/97	WELL EB2-S SJ41255 10/02/97	WEFI EB2-S(F) SJ39688 08/25/97	WEFI EB2-S(F) SJ39689 08/25/97	WEFI EB2-S(F) SJ41252 10/02/97	WEFI EB2-S(F) SJ41253 10/02/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
LINDANE (GAMMA-BHC)	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.02	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOXAPHENE	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
METHOXYCLOR	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4-D(ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP(SILVEX)	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
AROCLOR 1242	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
AROCLOR 1254	UG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
BETA-BHC	UG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DELTA-BHC	UG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
ENDOSULFAN I	UG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
ENDOSULFAN II	UG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
ENDOSULFAN SULFATE	UG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
ENDRIN ALDEHYDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
AROCLOR 1016	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
AROCLOR 1221	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
AROCLOR 1232	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
AROCLOR 1248	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
AROCLOR 1260	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TECHNICAL CHLORDANE	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VOLATILE ORGANIC COMPOUNDS									
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-DICHLOROPROPENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
ISOBUTYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHACRYLONITRILE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-S SJ39690 08/25/97	WELL EB2-S SJ39691 08/25/97	WELL EB2-S SJ41254 10/02/97	WELL EB2-S SJ41255 08/25/97	WELL EB2-S(F) SJ39689 08/25/97	WELL EB2-S(F) SJ41252 10/02/97	WELL EB2-S(F) SJ41253 10/02/97
VOLATILE ORGANIC COMPOUNDS								
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<
METHYL METHACRYLATE	UG/L	10	<	10	<	10	<	10
ETHYL METHACRYLATE	UG/L	5	<	5	<	5	<	5
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1	<
CHLOROFORM	UG/L	<	1	<	1	<	1	<
1,1,1-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<
CARBON TETRACHLORIDE	UG/L	<	1	<	1	<	1	<
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<	1	<
TRICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1	<
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1	<
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<
BROMOFORM	UG/L	<	1	<	1	<	1	<
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3	<
VINYL CHLORIDE	UG/L	<	1	<	1	<	1	<
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<
1,1-DICHLOROETHANE	UG/L	<	1	<	1	<	1	<
1,1,2-TRICHLOROETHANE	UG/L	0.3	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	0.5	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	1	<	1	<	1	<
TOLUENE	UG/L	<	1	<	1	<	1	<
ETHYL BENZENE	UG/L	<	10	<	10	<	10	<
VINYL ACETATE	UG/L	<	1	<	1	<	1	<
O-XYLENE	UG/L	<	1	<	1	<	1	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<
BROMOMETHANE	UG/L	<	1	<	1	<	1	<
CHLOROETHANE	UG/L	<	1	<	1	<	1	<
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	1	<
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	20	<	20	<	20	<	20
ACETONITRILE	UG/L	1	<	1	<	1	<	1
FREON 12 (CCL2F2)	UG/L	1	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	0.01	<	0.01	<	0.01	<	0.01
1,2-DIBROMOETHANE	UG/L	<	1	<	1	<	1	<

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE
F-AMENDED TEST RESULT

TABLE A.6

WATER QUALITY DATA - OFFSITE PIEZOMETERS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-S SJ39690 08/25/97	WELL EB2-S SJ39691 08/25/97	WELL EB2-S SJ41254 10/02/97	WELL EB2-S SJ41255 10/02/97	WELL EB2-S(F) SJ39688 08/25/97	WELL EB2-S(F) SJ39689 08/25/97	WELL EB2-S(F) SJ41252 10/02/97	WELL EB2-S(F) SJ41253 10/02/97
VOLATILE ORGANIC COMPOUNDS									
ACETONE	UG/L	<	10	<	10	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	<	10	<	10	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	<	<	<
STYRENE	UG/L	<	<	<	<	<	<	<	<
2,4,5-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<	<
2-HEXANONE	UG/L	5	5	<	5	<	<	<	5
ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	10	10	<	10	<	<	<	10
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	5	5	<	5	<	<	<	5
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	10	10	<	10	<	<	<	10
METHAPYRILENE	UG/L	20	20	<	20	<	<	<	20
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-S SJ39690 08/25/97	WELL EB2-S SJ39691 08/25/97	WELL EB2-S SJ41254 10/02/97	WELL EB2-S SJ41255 10/02/97	WELL EB2-S(F) SJ39688 08/25/97	WELL EB2-S(F) SJ39689 08/25/97	WELL EB2-S(F) SJ41252 10/02/97	WELL EB2-S(F) SJ41253 10/02/97
ACID-BASE NEUTRAL EXTRACTABLE									
P-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPYRIDINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	5	5	5	5	5	5	5	5
PHENACETIN	UG/L	<	<	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	20	20	20	20	20	20	20	20
PRONAMIDE	UG/L	<	<	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
O,O-O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	5	5	5	5	5	5	5	5
ACENAPHTHENE	UG/L	<	<	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
BENZIDINE	UG/L	20	20	20	20	20	20	20	20
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
BENZO(A)PYRENE	UG/L	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	<	<	<	<
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	<	<	<	<
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	<	<	<	<
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<	<	<
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
3,3'-DICHLOBENZAZIDINE	UG/L	<	<	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE F-AMENDED

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-S SJ39690 08/25/97	WELL EB2-S SJ39691 08/25/97	WELL EB2-S SJ41254 10/02/97	WELL EB2-S SJ39689 08/25/97	WELL EB2-S (F) SJ39688 08/25/97	WELL EB2-S (F) SJ41252 10/02/97	WELL EB2-S (F) SJ41253 10/02/97
ACID-BASE								
NEUTRAL								
EXTRACTABLE								
2, 4-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<
2, 6-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	5	5	5	5	5	5	5
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<	<	<	<
INDENO (1, 2, 3-C, D) PYRENE	UG/L	<	<	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<	<	<
1, 2, 4-TRICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
2, 4-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
2, 4-DIMETHYLPHENOL	UG/L	<	<	<	<	<	<	<
2, 4-DINITROPHENOL	UG/L	6	6	6	6	6	6	6
2-METHYL-4, 6-DINITROPHENOL	UG/L	<	<	<	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<	<	<
PHENOL	UG/L	0	<	<	<	<	<	<
2, 4, 6-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE F-AMENDED TEST RESULT

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL		WELL		WELL		WELL		WELL		
		EB2-SO	SJ39733	EB2-SO	SJ41320	EB2-SO	SJ41321	EB2-SO(F)	SJ39731	EB2-SO(F)	SJ41318	EB2-SO(F)
		08/26/97	08/26/97	10/03/97	10/03/97	10/03/97	08/26/97	08/26/97	08/26/97	10/03/97	10/03/97	10/03/97
FIELD PARAMETERS												
DEPTH TO WATER	FT	45.1		46.61								
DEPTH TO BOTTOM	FT	77.51		78.5								
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1								
PERCENT OXYGEN IN GAS	%O2	27.4		22.22								
FIELD WATER TEMPERATURE	DEG C	7.17		6.55								
FIELD PH	PH	1457		1436								
FIELD CONDUCTIVITY	UMHOS/CM	0.33		0.68								
FIELD DISSOLVED O2	MG/L											
GENERAL												
PH	PH	7.42	7.40	8.02	8.04							
CONDUCTIVITY	UMHOS/CM	1414	1410	1390	1391							
TOTAL DISSOLVED SOLIDS	MG/L	2008	1984	1040	1110							
TOTAL HARDNESS	MG/L	566	551	537	537	D						
TOTAL CYANIDE	MG/L	<0.002	<0.002	<0.002	<0.002							
BORON	MG/L	0.48	0.46	0.54	0.46							
ANIONS												
NITRATE	MG/L	0.05	0.05	0.03	0.08							
NITROGEN	MG/L	425	423	386	482							
SULFATE	MG/L	55.2	55.4	55.2	55.2							
CHLORIDE	MG/L	274	275	282	286							
TOTAL ALKALINITY	MG/L	274	275	282	286							
BICARBONATE	MG/L	0.1	0.1	0.1	0.1							
ALKALINITY	MG/L	0.66	0.66	0.70	0.70							
TOTAL SULFIDE	MG/L											
FLUORIDE	MG/L											
CATIONS												
CALCIUM	MG/L	315	307	312	312							
HARDNESS	MG/L	251	244	226	226							
MAGNESIUM	MG/L	101	102	93.9	95.2							
SODIUM	MG/L	4.7	4.6	4.3	4.2							
POTASSIUM	MG/L	0.79	0.74	1.14	0.88							
IRON	MG/L	0.11	0.11	0.08	0.08							
MANGANESE	MG/L											
CATIONS												
ORGANIC MATTER												
AMMONIA	MG/L	0.30	0.31	0.1	0.35							
NITROGEN	MG/L	< 0.7	< 0.7	< 0.7	< 0.7							
TOTAL BOD	MG/L											

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL		WELL		WELL		WELL		WELL		WELL	
		EB2-SO SJ39733 08/26/97	SO SJ39734 08/26/97	EB2-SO SJ41320 10/03/97	SO SJ41321 10/03/97	EB2-SO SJ41320 10/03/97	SO SJ41321 10/03/97	EB2-SO(F) SJ39731 08/26/97	SO(F) SJ39732 08/26/97	EB2-SO(F) SJ41318 10/03/97	SO(F) SJ41319 10/03/97	EB2-SO(F) SJ39731 08/26/97	SO(F) SJ41318 10/03/97
ORGANIC MATTER													
SOLUBLE BOD	MG/L	1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
TOTAL COD	MG/L	2	2	5	3	3	3	3	3	3	3	3	3
SOLUBLE COD	MG/L	2	2	3	3	3	3	3	3	3	3	3	3
TOTAL ORGANIC CARBON	MG/L	0.703	0.701	0.855	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817
OIL & GREASE	MG/L	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL ORGANIC HALOGEN (TOX)	UG/L	9.7 E	17 B	21 E	12 E	12 E	12 E	12 E	12 E	12 E	12 E	12 E	12 E
METALS													
ARSENIC	MG/L	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
BARIIUM	MG/L	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CADMIUM	MG/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
COBALT	MG/L	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
COPPER	MG/L	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
LEAD	MG/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
MERCURY	MG/L	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
NICKEL	MG/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SELENIUM	MG/L	0.015	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
SILVER	MG/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ZINC	MG/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ANTIMONY	MG/L	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
BERYLLIUM	MG/L	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
THALLIUM	MG/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
TIN	MG/L	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
VANADIUM	MG/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS													
2,4,5-T	UG/L	<0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
DINOSEB	UG/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
THIONAZIN	UG/L	1	1	1	1	1	1	1	1	1	1	1	1
DIMETHOATE	UG/L	1	1	1	1	1	1	1	1	1	1	1	1
DISULFOTON	UG/L	1	1	1	1	1	1	1	1	1	1	1	1
METHYL PARATHION	UG/L	1	1	1	1	1	1	1	1	1	1	1	1
ETHYL PARATHION	UG/L	1	1	1	1	1	1	1	1	1	1	1	1
PHORATE	UG/L	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PP'-DDE	UG/L	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PP'-DDD	UG/L	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PP'-DDT	UG/L	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ALPHA-BHC	UG/L	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-SO SJ39733 08/26/97	WELL EB2-SO SJ39734 08/26/97	WELL EB2-SO SJ41320 10/03/97	WELL EB2-SO SJ41321 10/03/97	WELL EB2-SO(F) SJ39731 08/26/97	WELL EB2-SO(F) SJ39732 08/26/97	WELL EB2-SO(F) SJ41318 10/03/97	WELL EB2-SO(F) SJ41319 10/03/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
LINDANE (GAMMA-BHC)	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCHLOR	UG/L	< 0.2	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D(ACID)	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP(SILVEX)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L	< 0.5	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.5	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.5	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.5	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.5	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.5	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.5	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.2	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS									
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-SO SJ39733 08/26/97	WELL EB2-SO SJ39734 08/26/97	WELL EB2-SO SJ41320 10/03/97	WELL EB2-SO SJ41321 10/03/97	WELL EB2-SO SJ39731 08/26/97	WELL EB2-SO SJ39732 08/26/97	WELL EB2-SO SJ41318 10/03/97	WELL EB2-SO SJ41319 10/03/97
VOLATILE ORGANIC COMPOUNDS									
1, 2, 3-TRICHLOROPROPANE	UG/L	<	1	<	<	<	<	<	1
METHYL METHACRYLATE	UG/L	<	10	<	<	<	<	<	10
ETHYL METHACRYLATE	UG/L	<	5	<	<	<	<	<	5
METHYLENE CHLORIDE	UG/L	<	1	<	<	<	<	<	1
CHLOROFORM	UG/L	<	1	<	<	<	<	<	1
1, 1, 1-TRICHLOROETHANE	UG/L	<	0.3	<	<	<	<	<	0.3
CARBON TETRACHLORIDE	UG/L	<	1	<	<	<	<	<	1
1, 1-DICHLOROETHENE	UG/L	<	1	<	<	<	<	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	<	<	<	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	<	<	<	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	<	<	<	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	<	<	<	<	1
BROMOFORM	UG/L	<	1	<	<	<	<	<	1
CHLOROBENZENE	UG/L	<	0.3	<	<	<	<	<	0.3
VINYL CHLORIDE	UG/L	<	1	<	<	<	<	<	1
O-DICHLOROBENZENE	UG/L	<	1	<	<	<	<	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	<	<	<	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	<	<	<	<	1
1, 1-DICHLOROETHANE	UG/L	<	1	<	<	<	<	<	1
1, 1, 2-TRICHLOROETHANE	UG/L	<	0.3	<	<	<	<	<	0.3
1, 2-DICHLOROETHANE	UG/L	<	0.5	<	<	<	<	<	0.5
BENZENE	UG/L	<	1	<	<	<	<	<	1
TOLUENE	UG/L	<	1	<	<	<	<	<	1
ETHYL BENZENE	UG/L	<	10	<	<	<	<	<	10
VINYL ACETATE	UG/L	<	1	<	<	<	<	<	1
O-XYLENE	UG/L	<	1	<	<	<	<	<	1
TRANS-1, 2-DICHLOROETHYLENE	UG/L	<	1	<	<	<	<	<	1
BROMOMETHANE	UG/L	<	1	<	<	<	<	<	1
CHLOROETHANE	UG/L	<	1	<	<	<	<	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	<	<	<	<	1
CHLOROMETHANE	UG/L	<	1	<	<	<	<	<	1
1, 2-DICHLOROPROPANE	UG/L	<	1	<	<	<	<	<	1
CIS-1, 3-DICHLOROPROPENE	UG/L	<	1	<	<	<	<	<	1
TRANS-1, 3-DICHLOROPROPENE	UG/L	<	0.5	<	<	<	<	<	0.5
1, 1, 2, 2-TETRACHLOROETHANE	UG/L	<	10	<	<	<	<	<	10
ACROLEIN	UG/L	<	10	<	<	<	<	<	10
ACRYLONITRILE	UG/L	<	20	<	<	<	<	<	20
ACETONITRILE	UG/L	<	1	<	<	<	<	<	1
FREON 12 (CCL2F2)	UG/L	<	1	<	<	<	<	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	<	<	<	<	1
1, 2-DIBROMOETHANE	UG/L	<	0.01	<	<	<	<	<	0.01

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-SO		WELL EB2-SO		WELL EB2-SO		WELL EB2-SO		WELL EB2-SO		WELL EB2-SO	
		08/26/97	08/26/97	08/26/97	08/26/97	08/26/97	08/26/97	08/26/97	08/26/97	08/26/97	08/26/97	08/26/97	08/26/97
VOLATILE ORGANIC COMPOUNDS													
ACETONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2,4,5-TRICHLOROPHENOL	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5	<	5	<	5
ACID-BASE NEUTRAL EXTRACTABLE													
ACETOPHENONE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2-ACETYLAMINOFLOURENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
4-AMINOBIPHENYL	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
BENZYL ALCOHOL	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
P-CHLOROANILINE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROBENZILATE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
DIALATE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
DIBENZOFURAN	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2,6-DICHLOROPHENOL	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
3,3'-DIMETHYLBENZIDINE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
M-DINITROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
DIPHENYLAMINE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
ETHYL METHANESULFONATE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
FAMPHUR	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
HEXACHLOROPROPENE	UG/L	<	5	<	5	<	5	<	5	<	5	<	5
ISODRIN	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
ISOSAFROLE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
KEPONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
METHAPYRILENE	UG/L	<	20	<	20	<	20	<	20	<	20	<	20
3-METHYLCHOLANTHRENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
METHYL METHANESULFONATE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2-METHYLNAPHTHALENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
1,4-NAPHTHOQUINONE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
1-NAPHTHYLAMINE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2-NAPHTHYLAMINE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
O-NITROANILINE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
M-NITROANILINE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-SO SJ39733 08/26/97	WELL EB2-SO SJ39734 08/26/97	WELL EB2-SO SJ41320 10/03/97	WELL EB2-SO SJ41321 10/03/97	WELL EB2-SO SJ39731 08/26/97	WELL EB2-SO SJ39732 08/26/97	WELL EB2-SO SJ41318 10/03/97	WELL EB2-SO SJ41319 10/03/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
P-NITROANILINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	5	5	5	5	5	5	5	5
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<	<	<
PHENACETIN	UG/L	20	20	20	20	20	20	20	20
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
O,O'-TRIETHYLPHOSPHOROTH	UG/L	5	5	5	5	5	5	5	5
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<	<	<
ANTHRACENE	UG/L	20	20	20	20	20	20	20	20
BENZIDINE	UG/L	<	<	<	<	<	<	<	<
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
BENZO(A)PYRENE	UG/L	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	<	<	<	<
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	<	<	<	<
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	<	<	<	<
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<	<	<
BUTYLENZYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<	<	<
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - OFFSITE PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EB2-SO SJ39733 08/26/97	WELL EB2-SO SJ39734 08/26/97	WELL EB2-SO SJ41320 10/03/97	WELL EB2-SO SJ41321 10/03/97	WELL EB2-SO (F) SJ39731 08/26/97	WELL EB2-SO (F) SJ39732 08/26/97	WELL EB2-SO (F) SJ41318 10/03/97	WELL EB2-SO (F) SJ41319 10/03/97
ACID-BASE NEUTRAL EXTRACTABLE									
2, 4-DINITROTOLUENE	UG/L	<	1	<	<	1	<	<	1
2, 6-DINITROTOLUENE	UG/L	<	1	<	<	1	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	1	<	<	1	<	<	1
FLUORANTHENE	UG/L	<	1	<	<	1	<	<	1
FLUORENE	UG/L	<	1	<	<	1	<	<	1
HEXACHLOROBENZENE	UG/L	<	1	<	<	1	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	1	<	<	1	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5	<	<	5	<	<	5
HEXACHLOROETHANE	UG/L	<	1	<	<	1	<	<	1
INDENO(1, 2, 3-C, D) PYRENE	UG/L	<	1	<	<	1	<	<	1
ISOPHORONE	UG/L	<	1	<	<	1	<	<	1
NAPHTHALENE	UG/L	<	1	<	<	1	<	<	1
NITROBENZENE	UG/L	<	1	<	<	1	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1	<	<	1	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1	<	<	1	<	<	1
PHENANTHRENE	UG/L	<	1	<	<	1	<	<	1
PYRENE	UG/L	<	1	<	<	1	<	<	1
2-CHLOROPHENOL	UG/L	<	1	<	<	1	<	<	1
1, 2, 4-TRICHLOROBENZENE	UG/L	<	1	<	<	1	<	<	1
2, 4-DICHLOROPHENOL	UG/L	<	1	<	<	1	<	<	1
2, 4-DIMETHYLPHENOL	UG/L	<	1	<	<	1	<	<	1
2, 4-DINITROPHENOL	UG/L	6	6	<	<	6	<	<	6
2-METHYL-4, 6-DINITROPHENOL	UG/L	<	1	<	<	1	<	<	1
2-NITROPHENOL	UG/L	<	1	<	<	1	<	<	1
4-NITROPHENOL	UG/L	<	1	<	<	1	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1	<	<	1	<	<	1
PENTACHLOROPHENOL	UG/L	<	1	<	<	1	<	<	1
2, 4, 6-TRICHLOROPHENOL	UG/L	<	1	<	<	1	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1	<	<	1	<	<	1
O-CRESOL	UG/L	<	1	<	<	1	<	<	1
M+P CRESOL	UG/L	<	1	<	<	1	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.7
WATER QUALITY DATA
HYDROPUNCH RESULTS

TABLE A.7
WATER QUALITY DATA - HYDROPUNCH RESULTS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ PBX-26D SJ36314 06/10/97	PIEZ PBX-26D SJ36315 06/10/97	PIEZ PBX-26D SJ36378 06/11/97	PIEZ PBX-26D SJ36379 06/11/97	PIEZ PBX-24D SJ36556 06/16/97	PIEZ PBX-24D SJ36557 06/16/97	PIEZ PBX-24D SJ36609 06/17/97	PIEZ PBX-24D SJ36610 06/17/97	PIEZ PBX-24D SJ36672 06/18/97	PIEZ PBX-24D SJ36673 06/18/97
GENERAL											
PH		7.23	7.32	7.33	7.33	7.56	7.52	7.54 D	7.64	7.63	7.63
CONDUCTIVITY	UMHOS/CM	3490	1661	1650	1650	2140	2110	1679	1677	1257	1258
TOTAL DISSOLVED SOLIDS	MG/L	3231	1479	1509	1509	1744	1693	1378	1402	964	964
BORON	MG/L B	0.21	0.21	0.34	0.34	0.36	0.31	0.30	0.30	3.17	0.40
ANIONS											
SULFATE	MG/L SO4	1750 A	596 A	588 A	588 A	679 A	666 A	591 A	593 A	394 A	394 A
CHLORIDE	MG/L CL	137 A	66.2 A	65.4 A	65.4 A	85.3 A	84.2 A	91.9 A	92.9 A	47.3 A	47.6 A
BICARBONATE ALKALINITY	MG/L CACO3	346	272	270	270	478	462	217	218	230	226
CATIONS											
CALCIUM-HARDNESS	MG/L CACO3	1050	469	467	467	689	664	612	604	357	370
MAGNESIUM-HARDNESS	MG/L CACO3	901	323	319	319	364	356	270	267	247	247
SODIUM	MG/L NA	192	83.7	83.2	83.2	80.0	78.9	55.7	55.0	45.4	44.7
POTASSIUM	MG/L K	12.6	7.6	7.8	7.8	11.3	10.2	10.5	10.1	7.2	7.1
IRON	MG/L FE	12.1	44.3	40.9	40.9	65.0	61.8	25.9 A	21.9 A	9.21	8.34
ORGANIC MATTER											
AMMONIA NITROGEN	MG/L N	0.35	0.14	0.14	0.14	0.1	0.1	0.1	0.1	0.1	0.1
SOLUBLE BOD	MG/L O	2	2	2	2	5 C	4	1 C	0.7	1 C	1
SOLUBLE COD	MG/L O	4	4	4	4	5 C	4	2	2	2	2
TOTAL ORGANIC CARBON	MG/L C	2.16	2.01	2.01	2.01	2.19	1.90	0.771	0.729	1.02	0.931
VOLATILE ORGANIC COMPOUNDS											
METHYLENE CHLORIDE	UG/L	<	1.0	<	<	4.3	4.1	<	1.0	<	1.0
CHLOROFORM	UG/L	<	0.5	<	<	0.5	0.5	<	0.5	<	0.5
1,1,1-TRICHLOROETHANE	UG/L	<	0.5	<	<	0.5	0.5	<	0.5	<	0.5
CARBON TETRACHLORIDE	UG/L	<	0.3	<	<	0.3	0.3	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	0.3	<	<	0.3	0.3	<	0.3	<	0.3
TRICHLOROETHYLENE	UG/L	<	0.3	<	<	0.3	0.3	<	0.3	<	0.3
TETRACHLOROETHYLENE	UG/L	<	0.3	<	<	0.3	0.3	<	0.3	<	0.3
BROMODICHLOROMETHANE	UG/L	<	0.5	<	<	0.5	0.5	<	0.5	<	0.5
DIBROMOCHLOROMETHANE	UG/L	<	0.5	<	<	0.5	0.5	<	0.5	<	0.5
BROMOFORM	UG/L	<	0.5	<	<	0.5	0.5	<	0.5	<	0.5
CHLOROBENZENE	UG/L	<	0.5	<	<	0.5	0.5	<	0.5	<	0.5
VINYL CHLORIDE	UG/L	<	0.5	<	<	0.5	0.5	<	0.5	<	0.5
O-DICHLOROBENZENE	UG/L	<	0.5	<	<	0.5	0.5	<	0.5	<	0.5

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-DUP & SPIKE D-AVERAGE OF DUPS

TABLE A.7

WATER QUALITY DATA - HYDROPUNCH RESULTS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ PBX-26D SJ36314 06/10/97	PIEZ PBX-26D SJ36315 06/10/97	PIEZ PBX-26D SJ36378 06/11/97	PIEZ PBX-26D SJ36379 06/11/97	PIEZ PBX-24D SJ36556 06/16/97	PIEZ PBX-24D SJ36557 06/16/97	PIEZ PBX-24D SJ36609 06/17/97	PIEZ PBX-24D SJ36610 06/17/97	PIEZ PBX-24D SJ36672 06/18/97	PIEZ PBX-24D SJ36673 06/18/97
VOLATILE ORGANIC COMPOUNDS											
M-DICHLOROBENZENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
P-DICHLOROBENZENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1-DICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
BENZENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
TOLUENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
ETHYL BENZENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
BROMOMETHANE	UG/L	<	2.5	<	2.5	<	2.5	<	2.5	<	2.5
CHLOROETHANE	UG/L	<	2.5	<	2.5	<	2.5	<	2.5	<	2.5
2-CHLOROETHYL VINYLETHER	UG/L	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
CHLOROMETHANE	UG/L	<	2.5	<	2.5	<	2.5	<	2.5	<	2.5
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	22	<	22	<	44	<	44	<	44
ACETONE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
CIS-1,2-DICHLOROETHYLENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
2-BUTANONE	UG/L	<	2.4	<	2.4	<	7.4	<	7.4	<	7.4

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE C-DUP & SPIKE D-AVERAGE OF DUPS

TABLE A.7
 WATER QUALITY DATA - HYDROPUNCH RESULTS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ EQIP SJ36380 06/10/97	PIEZ EQIP SJ36558 06/16/97	PIEZ EQIP SJ36611 06/17/97	PIEZ EQIP SJ36674 06/18/97
VOLATILE ORGANIC COMPOUNDS					
METHYLENE CHLORIDE	UG/L	1.0	1.0	1.0	1.0
CHLOROFORM	UG/L	0.5	0.5	0.5	0.5
1,1,1-TRICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	0.3	0.3	0.3	0.3
TRICHLOROETHYLENE	UG/L	0.3	0.3	0.3	0.3
TETRACHLOROETHYLENE	UG/L	0.5	0.5	0.5	0.5
BROMODICHLOROMETHANE	UG/L	0.5	0.5	0.5	0.5
DIBROMOCHLOROMETHANE	UG/L	0.5	0.5	0.5	0.5
CHLOROBENZENE	UG/L	0.5	0.5	0.5	0.5
VINYL CHLORIDE	UG/L	0.5	0.5	0.5	0.5
O-DICHLOROBENZENE	UG/L	0.5	0.5	0.5	0.5
M-DICHLOROBENZENE	UG/L	0.5	0.5	0.5	0.5
P-DICHLOROBENZENE	UG/L	0.5	0.5	0.5	0.5
1,1-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3
BENZENE	UG/L	0.3	0.3	0.3	0.3
TOLUENE	UG/L	0.3	0.3	0.3	0.3
ETHYL BENZENE	UG/L	0.3	0.3	0.3	0.3
TRANS-1,2-DICHLOROETHYLENE	UG/L	0.3	0.3	0.3	0.3
BROMOMETHANE	UG/L	2.5	2.5	2.5	2.5
CHLOROETHANE	UG/L	2.5	2.5	2.5	2.5
2-CHLOROETHYL VINYLETHER	UG/L	1.0	1.0	1.0	1.0
CHLOROMETHANE	UG/L	2.5	2.5	2.5	2.5
1,2-DICHLOROPROPANE	UG/L	0.5	0.5	0.5	0.5
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
ACETONE	UG/L	0.5	0.5	0.5	0.5
CIS-1,2-DICHLOROETHYLENE	UG/L	0.3	0.3	0.3	0.3
2-BUTANONE	UG/L	1.0	1.0	1.0	1.0

TABLE A.8

GAS MONITORING DATA

GAS MONITORING PROBES

TABLE A.8
GAS MONITORING DATA - GAS MONITORING PROBES
PUENTE HILLS LANDFILL

CONSTITUENT	UNITS	PROBE A (13' TO 18')		PROBE B (33' TO 38')		PROBE B (13' TO 18')		PROBE B (13' TO 18')		PROBE C (23' TO 28')		PROBE C (13' TO 18')		PROBE C (13' TO 18')	
		LOWER SCREEN	UPPER SCREEN	LOWER SCREEN	UPPER SCREEN	LOWER SCREEN	UPPER SCREEN	LOWER SCREEN	UPPER SCREEN	LOWER SCREEN	UPPER SCREEN	LOWER SCREEN	UPPER SCREEN	LOWER SCREEN	UPPER SCREEN
HYDROGEN SULFIDE	PPM V/V	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA
PERMANENT GASES, TOTAL	% V/V	99.5	100	99.7	99.7	99.7	99.7	99.8	99.5	99.3	98.7	99.4	99.4	99.4	98.1
OXYGEN (O2)	% V/V	18.1	20.7	16	16.8	18.6	18.6	18.5	18.5	5.4	19.4	3.98	3.98	3.98	0.82
ARGON (AR)	% V/V	0.94	0.93	0.95	0.94	0.94	0.94	0.94	0.94	1.1	0.93	1.08	1.08	1.08	1.08
NITROGEN (N2)	% V/V	78.3	77.9	79.7	78.8	78.8	78.8	78.6	78.6	91.6	78	90.6	90.6	90.6	90
METHANE (CH4)	% V/V	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
CARBON DIOXIDE (CO2)	% V/V	2.1	0.4	3	3.1	1.4	1.4	1.4	1.4	1.2	0.4	3.7	3.7	3.7	6.2
METHYLENE CHLORIDE	PPB V/V	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	2.1	< 1.1	< 1.1	< 1.1	< 1.1
CHLOROFORM	PPB V/V	1.3	< 0.11	2.3	2.5	2.1	2.1	2.2	2.2	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-TRICHLOROETHANE	PPB V/V	0.44	0.31	0.33	0.33	0.38	0.38	0.34	0.34	0.56	0.87	0.14	0.14	0.14	0.14
CARBON TETRACHLORIDE	PPB V/V	0.06	0.1	0.05	0.05	0.08	0.08	0.08	0.08	INTER	0.11	< 0.03	< 0.03	< 0.03	< 0.03
1,1-DICHLOROETHENE	PPB V/V	< 0.11	< 0.11	0.42	0.47	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
TRICHLOROETHYLENE	PPB V/V	22	3.8	130	150	39	39	38	38	INTER	0.13	0.69	0.69	0.69	0.63
TETRACHLOROETHYLENE	PPB V/V	120	20	260	> 260	140	140	140	140	18	0.88	4.9	4.9	4.9	0.71
CHLOROBENZENE	PPB V/V	0.29	< 0.27	< 0.27	0.3	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
VINYL CHLORIDE	PPB V/V	< 0.11	< 0.11	1.4	1.5	< 0.11	< 0.11	< 0.11	< 0.11	1.8	0.51	0.13	0.13	0.13	< 0.11
O-DICHLOROBENZENE	PPB V/V	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
M-DICHLOROBENZENE	PPB V/V	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
P-DICHLOROBENZENE	PPB V/V	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHANE	PPB V/V	11	0.75	110	120	20	20	20	20	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,2-DICHLOROETHANE	PPB V/V	0.37	0.24	1.1	1.2	0.23	0.23	0.19	0.19	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
BENZENE	PPB V/V	0.78	0.54	0.73	0.74	0.66	0.66	0.71	0.71	2.2	1.9	2.3	2.3	2.3	2.3
TOLUENE	PPB V/V	3.9	3.1	4.1	3.1	3.4	3.4	2.9	2.9	17	5.8	12	12	12	8.5
ETHYL BENZENE	PPB V/V	0.37	0.31	0.37	0.33	< 0.27	< 0.27	< 0.27	< 0.27	0.75	0.82	1.1	1.1	1.1	1.4
O-XYLENE	PPB V/V	1.5	1.2	1.2	1.1	1	1	0.99	0.99	0.98	1.1	1.2	1.2	1.2	2.1
METHYL-TERT-BUTYL ETHER	PPB V/V	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	14	5.7	4.9	4.9	4.8	4.8
ACETONITRILE	PPB V/V	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
FREON 11	PPB V/V	0.75	0.45	0.74	0.79	0.68	0.68	0.69	0.69	0.29	0.34	0.17	0.17	0.15	0.15
1,2-DIBROMOETHANE	PPB V/V	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,3-BUTADIENE	PPB V/V	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	INTER	0.53	0.21	0.21	0.14	0.14
CIS-1,2-DICHLOROETHYLENE	PPB V/V	27	4.9	200	220	31	31	30	30	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
BENZYL CHLORIDE	PPB V/V	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
M+P-XYLENE	PPB V/V	2.3	1.7	2	1.6	1.4	1.4	1.4	1.4	2.5	2.7	3	3	3	4.3

TABLE A.8
GAS MONITORING DATA - GAS MONITORING PROBES
PUENTE HILLS LANDFILL

CONSTITUENT	UNITS	PROBE D	PROBE D	PROBE H	PROBE H	PROBE H	PROBE H	PROBE H	PROBE H	PROBE IR
		(13' TO 18') 10/28/97 JW44294	(13' TO 18') 11/18/97 JW44477	LOWER SCREEN (94' TO 99') 10/29/97 JW44313	LOWER SCREEN (94' TO 99') 10/29/97 JW44314	UPPER SCREEN (44' TO 49') 10/29/97 JW44315	UPPER SCREEN (44' TO 49') 10/29/97 JW44316	UPPER SCREEN (8' TO 9') 10/28/97 JW44291		
HYDROGEN SULFIDE	PPM V/V	< 0.12	NA	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
PERMANENT GASES, TOTAL	% V/V	98.8	100	98.6	99	99.9	99.7	99.9	99.7	98.9
OXYGEN (O2)	% V/V	3.22	2.53	3.2	2.19	1.56	1.71	1.56	1.71	18.6
ARGON (AR)	% V/V	1.03	1.04	0.6	0.57	0.93	0.93	0.93	0.93	0.91
NITROGEN (N2)	% V/V	86.4	86.7	50	48	77.6	77.7	77.6	77.7	76.4
METHANE (CH4)	% V/V	< 0.02	< 0.02	23.3	24.8	2.14	2.06	2.14	2.06	< 0.02
CARBON DIOXIDE (CO2)	% V/V	8.2	9.8	21.6	23.4	17.6	17.2	17.6	17.2	3.1
METHYLENE CHLORIDE	PPB V/V	< 1.1	< 1.1	320	360	450	430	450	430	< 1.1
CHLOROFORM	PPB V/V	< 0.11	< 0.11	5.4	6.6	7.4	7.4	7.4	7.4	1.1
1,1,1-TRICHLOROETHANE	PPB V/V	0.15	0.27	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	1.4
CARBON TETRACHLORIDE	PPB V/V	< 0.03	< 0.03	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	0.09
1,1-DICHLOROETHENE	PPB V/V	< 0.11	< 0.11	48	56	11	10	11	10	< 0.11
TRICHLOROETHYLENE	PPB V/V	0.18	0.11	1000	1400	1100	1100	1100	1100	3.4
TETRACHLOROETHYLENE	PPB V/V	3.3	0.86	790	1700	1600	1700	1600	1700	100
CHLOROBENZENE	PPB V/V	< 0.27	< 0.27	< 11	< 11	< 11	< 11	< 11	< 11	< 0.27
VINYL CHLORIDE	PPB V/V	0.23	0.18	1900	2200	310	290	310	290	0.13
O-DICHLOROBENZENE	PPB V/V	< 1.0	< 1.0	< 40	< 40	< 40	< 40	< 40	< 40	< 1.0
M-DICHLOROBENZENE	PPB V/V	< 1.1	< 1.1	< 43	< 43	< 43	< 43	< 43	< 43	< 1.1
P-DICHLOROBENZENE	PPB V/V	< 1.0	< 1.0	< 41	< 41	< 41	< 41	< 41	< 41	< 1.0
1,1-DICHLOROETHANE	PPB V/V	< 0.11	< 0.11	1200	1400	1000	1000	1000	1000	0.17
1,2-DICHLOROETHANE	PPB V/V	< 0.11	< 0.11	36	INTER	130	130	130	130	< 0.11
BENZENE	PPB V/V	0.82	0.53	220	300	96	92	96	92	0.35
TOLUENE	PPB V/V	37	24	< 110	< 110	< 110	< 110	< 110	< 110	37
ETHYL BENZENE	PPB V/V	2.4	2.5	< 11	< 11	< 11	< 11	< 11	< 11	0.54
O-XYLENE	PPB V/V	3.7	4	< 22	< 22	< 22	< 22	< 22	< 22	0.7
METHYL-TERT-BUTYL ETHER	PPB V/V	6.6	5.7	< 110	< 110	< 110	< 110	< 110	< 110	< 2.7
ACETONITRILE	PPB V/V	< 2.7	< 2.7	< 110	< 110	< 110	< 110	< 110	< 110	< 2.7
FREON 11	PPB V/V	4	4.5	26	30	< 4.3	< 4.3	< 4.3	< 4.3	0.7
1,2-DIBROMOETHANE	PPB V/V	< 0.11	< 0.11	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 0.11
1,3-BUTADIENE	PPB V/V	0.14	< 0.11	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 0.11
CIS-1,2-DICHLOROETHYLENE	PPB V/V	< 0.11	< 0.11	3900	4800	2800	2600	2800	2600	< 0.11
BENZYL CHLORIDE	PPB V/V	< 2.7	< 2.7	< 110	< 110	< 110	< 110	< 110	< 110	< 2.7
M+P-XYLENE	PPB V/V	7.5	8.1	< 43	< 43	< 43	< 43	< 43	< 43	1.9

NOTES:

PPM : PARTS PER MILLION

PPB : PARTS PER BILLION

V/V : VOLUME OF CONSTITUENT PER VOLUME OF SAMPLE

NA : NOT AVAILABLE

INTER : INTERFERENCE

TABLE A.9

WATER QUALITY DATA

LIQUID COLLECTION AND REMOVAL SYSTEMS

TABLE A.9
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ33901 04/11/97	CNYN 9 LCRS SJ33902 04/11/97	CNYN 9 LCRS (F) SJ41862 10/20/97	CNYN 9 LCRS SJ41864 10/20/97
GENERAL					
PH			7.00		7.51
CONDUCTIVITY	UMHOS/CM		7380		7500
TOTAL DISSOLVED SOLIDS	MG/L		6580		6110 C
TOTAL HARDNESS	MG/L CaCO3		2800 D		2970 D
TOTAL CYANIDE	MG/L CN		<0.002		<0.002
BORON	MG/L B		3.20		3.73
ANIONS					
NITRATE NITROGEN	MG/L N		< 0.05 B		< 0.03
SULFATE	MG/L SO4		2800 B		2080
CHLORIDE	MG/L CL		862 B		924
TOTAL ALKALINITY	MG/L CaCO3		1030 C		981
BICARBONATE ALKALINITY	MG/L CaCO3		1030		981
TOTAL SULFIDE	MG/L S		< 0.1		< 0.1
FLUORIDE	MG/L F		0.77		0.63
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3		1190		1380
MAGNESIUM-HARDNESS	MG/L CaCO3		1610		1590
SODIUM	MG/L NA		814		841
POTASSIUM	MG/L K	6.93	21.0	0.10	18.4
IRON	MG/L FE	8.15	19.1	3.33	3.33
MANGANESE	MG/L MN		8.32	13.7	13.8
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N		< 0.1		4.6
TOTAL BOD	MG/L O		13		3
SOLUBLE BOD	MG/L O		9		1
TOTAL COD	MG/L O		137		151
SOLUBLE COD	MG/L O		63 C		154 C
TOTAL ORGANIC CARBON	MG/L C		42.4 A		48.8
OIL & GREASE	MG/L		1		1.9
TOTAL ORGANIC HALOGEN (TOX)	UG/L		520 E		860 E
METALS					
ARSENIC	MG/L AS		.0332	.0055	.0106
BARIIUM	MG/L BA		0.08	0.08	0.08

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.9
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9		CNYN 9		CNYN 9	
		LCRS (F)	LCRS	LCRS (F)	LCRS	LCRS (F)	LCRS
		SJ33901	SJ33902	SJ41862	SJ41864		
		04/11/97	04/11/97	10/20/97	10/20/97		
METALS							
CADMIUM	MG/L	< 0.003	< 0.003	< 0.003	A	< 0.003	
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01	< 0.04	< 0.04	< 0.04	
COBALT	MG/L	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	
COPPER	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	
LEAD	MG/L	< 0.02	< 0.02	< 0.02	A	< 0.02	
MERCURY	MG/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
NICKEL	MG/L	0.04	0.03	0.03	A	< 0.02	
SELENIUM	MG/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.013	
SILVER	MG/L	< 0.01	< 0.01	< 0.01	A	< 0.01	
ZINC	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
ANTIMONY	MG/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
BERYLLIUM	MG/L	< 0.005	A	< 0.005	< 0.005	< 0.005	
THALLIUM	MG/L	< 0.001	A	< 0.001	< 0.001	< 0.001	
TIN	MG/L	< 0.06	< 0.06	< 0.06	A	< 0.06	
VANADIUM	MG/L	< 0.05	< 0.05	< 0.05	A	< 0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L	< 0.003	< 0.003	< 0.003		< 0.003	
DINoseb	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
THIONAZIN	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
DIMETHOATE	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
DISULFOTON	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
METHYL PARATHION	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
ETHYL PARATHION	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
PHORATE	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
2,4-D (ACID)	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
2,4,5-TP (SILVEX)	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	
AROCLOR 1242	UG/L	< 0.01	< 0.01	< 0.01		< 0.01	

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.9
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ33901 04/11/97	CNYN 9 LCRS SJ33902 04/11/97	CNYN 9 LCRS (F) SJ41862 10/20/97	CNYN 9 LCRS SJ41864 10/20/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.01	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.04	< 0.04
ENDRIN ALDEHYDE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	<	<	<	2
BROMOCHLOROMETHANE	UG/L	<	<	<	<	2
CHLOROPRENE	UG/L	<	<	<	<	2
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	2
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	0.8
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	2
2,2-DICHLOROPROPENE	UG/L	<	<	<	<	2
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	25
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	25
METHACRYLONITRILE	UG/L	<	<	<	<	2
METHYL IODIDE	UG/L	<	<	<	<	2
METHYLENE BROMIDE	UG/L	<	<	<	<	25
PROPIONITRILE	UG/L	<	<	<	<	25
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	2
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	25
METHYL METHACRYLATE	UG/L	<	<	<	<	12
ETHYL METHACRYLATE	UG/L	<	<	<	<	2
METHYLENE CHLORIDE	UG/L	<	<	<	<	2
CHLOROFORM	UG/L	<	<	<	<	2
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	0.8
CARBON TETRACHLORIDE	UG/L	<	<	<	<	2
1,1-DICHLOROETHENE	UG/L	<	<	<	<	2
TRICHLOROETHYLENE	UG/L	<	<	<	<	2
TETRACHLOROETHYLENE	UG/L	<	<	<	<	2
BROMODICHLOROMETHANE	UG/L	<	<	<	<	2

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.9
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CNYN 9 CNYN 9 CNYN 9 CNYN 9
LCRS (F) LCRS LCRS (F) LCRS
SJ33901 SJ33902 SJ41862 SJ41864
04/11/97 04/11/97 10/20/97 10/20/97

UNITS

CONSTITUENT/WELL NO.

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ33901 04/11/97	CNYN 9 LCRS SJ33902 04/11/97	CNYN 9 LCRS (F) SJ41862 10/20/97	CNYN 9 LCRS SJ41864 10/20/97
DIBROMOCHLOROMETHANE	UG/L	<	5	<	2
BROMOFORM	UG/L	<	5	<	2
CHLOROBENZENE	UG/L	<	5	<	2
VINYL CHLORIDE	UG/L	<	3	<	0.9
O-DICHLOROBENZENE	UG/L	<	5	<	2
M-DICHLOROBENZENE	UG/L	<	5	<	2
P-DICHLOROBENZENE	UG/L	<	16	<	6
1,1-DICHLOROETHANE	UG/L	<	12	<	4
1,1,2-TRICHLOROETHANE	UG/L	<	5	<	2
1,2-DICHLOROETHANE	UG/L	<	2	<	0.8
BENZENE	UG/L	<	4	<	2
TOLUENE	UG/L	<	57	<	2
ETHYL BENZENE	UG/L	<	6	<	2
VINYL ACETATE	UG/L	<	50	<	25
O-XYLENE	UG/L	<	13	<	2
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	5	<	2
BROMOMETHANE	UG/L	<	5	<	2
CHLOROETHANE	UG/L	<	5	<	2
2-CHLOROETHYL VINYLETHER	UG/L	<	5	<	2
CHLOROMETHANE	UG/L	<	5	<	2
1,2-DICHLOROPROPANE	UG/L	<	5	<	2
CIS-1,3-DICHLOROPROPENE	UG/L	<	5	<	2
TRANS-1,3-DICHLOROPROPENE	UG/L	<	5	<	2
1,1,2,2-TETRACHLOROETHANE	UG/L	<	2	<	1
ACROLEIN	UG/L	<	50	<	25
ACRYLONITRILE	UG/L	<	50	<	25
ACETONITRILE	UG/L	<	100	<	50
FREON 12 (CCL2F2)	UG/L	<	5	<	2
FREON 11 (CCL3F)	UG/L	<	5	<	2
1,2-DIBROMOETHANE	UG/L	<	0.01	<	0.01
ACETONE	UG/L	<	40	<	25
CIS-1,2-DICHLOROETHYLENE	UG/L	<	50	<	7
2-BUTANONE	UG/L	<	560	<	25
4-METHYL-2-PENTANONE	UG/L	<	50	<	25
STYRENE	UG/L	<	1	<	2
2,4,5-TRICHLOROPHENOL	UG/L	<	27	<	1
M+P-XYLENE	UG/L	<	5	<	2
CARBON DISULFIDE	UG/L	<	5	<	2
2-HEXANONE	UG/L	<	25	<	12

CS2
C6H12O

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.9
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ33901 04/11/97	CNYN 9 LCRS SJ33902 04/11/97	CNYN 9 LCRS (F) SJ41862 10/20/97	CNYN 9 LCRS SJ41864 10/20/97
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	1	<	1
2-ACETYLAMINOFLUORENE	UG/L	<	1	<	1
4-AMINOBIPHENYL	UG/L	<	1	<	1
BENZYL ALCOHOL	UG/L	<	1	<	1
P-CHLOROANILINE	UG/L	6	1	<	1
CHLOROBENZILATE	UG/L	<	1	<	1
DIALATE	UG/L	<	1	<	1
DIBENZOFURAN	UG/L	<	1	<	1
2,6-DICHLOROPHENOL	UG/L	5	1	<	1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	1	<	1
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	10	10	<	10
3,3'-DIMETHYLBENZIDINE	UG/L	<	1	<	1
M-DINITROBENZENE	UG/L	<	1	<	1
DIPHENYLAMINE	UG/L	<	1	<	1
ETHYL METHANESULFONATE	UG/L	<	1	<	1
FAMPHUR	UG/L	<	1	<	1
HEXACHLOROPROPENE	UG/L	5	1	<	5
ISODRIN	UG/L	<	1	<	1
ISOSAFROLE	UG/L	<	1	<	1
KEPONE	UG/L	10	10	<	10
METHAPYRILENE	UG/L	20	20	<	20
3-METHYLCHOLANTHRENE	UG/L	<	1	<	1
METHYL METHANESULFONATE	UG/L	<	1	<	1
2-METHYLNAPHTHALENE	UG/L	<	1	<	1
1,4-NAPHTHOQUINONE	UG/L	<	1	<	1
1-NAPHTHYLAMINE	UG/L	<	1	<	1
2-NAPHTHYLAMINE	UG/L	<	1	<	1
O-NITROANILINE	UG/L	<	1	<	1
M-NITROANILINE	UG/L	<	1	<	1
P-NITROANILINE	UG/L	<	1	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	1	<	1
N-NITROSODIETHYLAMINE	UG/L	<	1	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	1	<	1
N-NITROSOPYRROLIDINE	UG/L	<	1	<	1
N-NITROSOPYRROLIDINE	UG/L	<	1	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	1	<	1
PENTACHLOROBENZENE	UG/L	15	15	<	15
PENTACHLORONITROBENZENE	UG/L	1	1	<	1
PHENACETIN	UG/L	<	1	<	1
P-PHENYLENEDIAMINE	UG/L	20	20	<	20
PRONAMIDE	UG/L	<	1	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.9

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ33901 04/11/97	CNYN 9 LCRS SJ33902 04/11/97	CNYN 9 LCRS (F) SJ41862 10/20/97	CNYN 9 LCRS SJ41864 10/20/97
ACID-BASE NEUTRAL EXTRACTABLE					
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	5	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	1
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	20	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	0.2	<	1
BENZO (A) PYRENE	UG/L	<	<	<	1
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G, H, I) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CL-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	1
FLUORENE	UG/L	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5	<	1
HEXACHLOROETHANE	UG/L	<	<	<	1
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	1
ISOPHORONE	UG/L	<	<	<	1
NAPHTHALENE	UG/L	3	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.9
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNVN 9 LCRS (F) SJ33901 04/11/97	CNVN 9 LCRS SJ33902 04/11/97	CNVN 9 LCRS (F) SJ41862 10/20/97	CNVN 9 LCRS SJ41864 10/20/97
ACID-BASE NEUTRAL EXTRACTABLE					
NITROBENZENE	UG/L	<	1	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1	<	1
PHENANTHRENE	UG/L	<	1	<	1
PYRENE	UG/L	<	1	<	1
2-CHLOROPHENOL	UG/L	<	1	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1	<	1
2,4-DICHLOROPHENOL	UG/L	<	1	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1	<	1
2,4-DINITROPHENOL	UG/L	<	6	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1	<	1
2-NITROPHENOL	UG/L	<	1	<	1
4-NITROPHENOL	UG/L	<	1	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1	<	1
PENTACHLOROPHENOL	UG/L	<	1	<	1
PHENOL	UG/L	<	1	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1	<	1
O-CRESOL	UG/L	<	4	<	4
M+P CRESOL	UG/L	<	3	<	3

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-DUP & SPIKE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.9
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ33871 04/11/97	EASTERN CANYONS LCS2 (F) SJ33872 04/11/97	EASTERN CANYONS LCS2 (F) SJ37228 07/03/97	EASTERN CANYONS LCS2 (F) SJ37229 07/03/97	EASTERN CANYONS LCS2 (F) SJ41861 10/20/97	EASTERN CANYONS LCS2 (F) SJ41863 10/20/97	EASTERN CANYONS LCS2 (F) SJ43535 12/08/97	EASTERN CANYONS LCS2 (F) SJ43537 12/08/97
GENERAL									
PH		7.31	6.95			7.50			7.17
CONDUCTIVITY	UMHOS/CM	3180	2190 D			1733			1543
TOTAL DISSOLVED SOLIDS	MG/L	2770	1764			1161 F			1148
TOTAL HARDNESS	MG/L CaCO3	1640 B	1007 B			806 B			734 B
TOTAL CYANIDE	MG/L CN	<0.002	<0.002			<0.002			<0.002
BORON	MG/L B	0.71	0.29			0.39			0.49
ANIONS									
NITRATE NITROGEN	MG/L N	5.74 A	58.0 A			1.62			1.85
SULFATE	MG/L SO4	1470 A	764 A			455			1130
CHLORIDE	MG/L CL	91.8 A	95.7 A			66.0			44.7
TOTAL ALKALINITY	MG/L CaCO3	501	128			520			286
BICARBONATE ALKALINITY	MG/L CaCO3	501	128			520			286
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1			< 0.1			< 0.1
FLUORIDE	MG/L F	0.56	1.12			0.43			0.45
CATIONS									
CALCIUM-HARDNESS	MG/L CaCO3	944 C	674 C			544			499
MAGNESIUM-HARDNESS	MG/L CaCO3	696 C	333 C			262			235
SODIUM	MG/L NA	191 C	117 C			95.1			76.9
POTASSIUM	MG/L K	14.3 C	10.9 C			11.5			8.7
IRON	MG/L FE	< 0.02	0.03 A			0.92 C			< 0.05
MANGANESE	MG/L MN	0.10	0.04			0.09 C			0.27
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	< 0.1	0.1			< 0.1			< 0.1
TOTAL BOD	MG/L O	3	2			< 0.7			< 0.7
SOLUBLE BOD	MG/L O	2	2			< 0.7			< 0.7
TOTAL COD	MG/L O	27	19 D			16			15
SOLUBLE COD	MG/L O	26	17			17			9
TOTAL ORGANIC CARBON	MG/L C	10.0	6.55			6.28			6.00
OIL & GREASE	MG/L	1	2.1			1			1.1
TOTAL ORGANIC HALOGEN (TOX)	UG/L	310 A	310 E			220 A			100 E
METALS									
ARSENIC	MG/L AS	<.0010	<.0010	<.0010	<.0010	.0010	<.0010	<.0010	<.0010
BARIUM	MG/L BA	0.06	0.06 C	0.06 A	0.05 C	0.07 C	0.11	0.11	0.11

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUPLICATE SPIKE D-DUP & SPIKE E-10% RULE EXCEEDED

TABLE A.9
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ33871 04/11/97	EASTERN CANYONS LCS2 (F) SJ33872 04/11/97	EASTERN CANYONS LCS2 (F) SJ37228 07/03/97	EASTERN CANYONS LCS2 (F) SJ37229 07/03/97	EASTERN CANYONS LCS2 (F) SJ41861 10/20/97	EASTERN CANYONS LCS2 (F) SJ41863 10/20/97	EASTERN CANYONS LCS2 (F) SJ43535 12/08/97	EASTERN CANYONS LCS2 (F) SJ43537 12/08/97
METALS									
CADMIUM	MG/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
MERCURY	MG/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
NICKEL	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L	0.047	0.049	0.024	0.028	0.010	0.011	0.016	0.011
SILVER	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L	0.03	0.03	0.20	0.04	0.01	0.01	0.02	0.01
ANTIMONY	MG/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BERYLLIUM	MG/L	< 0.005	< 0.005	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
THALLIUM	MG/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TIN	MG/L	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-T	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DINOSB	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
THIONAZIN	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DIMETHOATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DISULFOTON	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
METHYL PARATHION	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ETHYL PARATHION	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PHORATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-AVERAGE F-AWENDED TEST RESULT B-CALCULATED VALUE C-DUPLICATE SPIKE D-DUP & SPIKE E-10% RULE EXCEEDED

TABLE A.9
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ33871	04/11/97	EASTERN CANYONS LCS2 (F) SJ37228	07/03/97	EASTERN CANYONS LCS2 (F) SJ37229	07/03/97	EASTERN CANYONS LCS2 (F) SJ41861	10/20/97	EASTERN CANYONS LCS2 (F) SJ41863	10/20/97	EASTERN CANYONS LCS2 (F) SJ43535	12/08/97	EASTERN CANYONS LCS2 (F) SJ43537	12/08/97
AROCLOR 1254	UG/L	< 0.05		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
BETA-BHC	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
DELTA-BHC	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
ENDOSULFAN I	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
ENDOSULFAN II	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
ENDRIN ALDEHYDE	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
AROCLOR 1016	UG/L	< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1	
AROCLOR 1221	UG/L	< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1	
AROCLOR 1232	UG/L	< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1	
AROCLOR 1248	UG/L	< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1	
AROCLOR 1260	UG/L	< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1		< 0.1	
TECHNICAL CHLORDANE	UG/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ33871	04/11/97	EASTERN CANYONS LCS2 (F) SJ37228	07/03/97	EASTERN CANYONS LCS2 (F) SJ37229	07/03/97	EASTERN CANYONS LCS2 (F) SJ41861	10/20/97	EASTERN CANYONS LCS2 (F) SJ41863	10/20/97	EASTERN CANYONS LCS2 (F) SJ43535	12/08/97	EASTERN CANYONS LCS2 (F) SJ43537	12/08/97
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS															
VOLATILE ORGANIC COMPOUNDS															
ALLYL CHLORIDE	UG/L	< 0.05		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
BROMOCHLOROMETHANE	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
CHLOROPRENE	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.3		< 0.3		< 0.3		< 0.3		< 0.3		< 0.3		< 0.3	
1,3-DICHLOROPROPANE	UG/L	< 0.3		< 0.3		< 0.3		< 0.3		< 0.3		< 0.3		< 0.3	
2,2-DICHLOROPROPENE	UG/L	< 0.3		< 0.3		< 0.3		< 0.3		< 0.3		< 0.3		< 0.3	
1,1-DICHLOROPROPENE	UG/L	< 0.3		< 0.3		< 0.3		< 0.3		< 0.3		< 0.3		< 0.3	
ISOBUTYL ALCOHOL	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
METHACRYLONITRILE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
METHYL IODIDE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
METHYLENE BROMIDE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
PROPIONITRILE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
1,1,1,2-TETRACHLOROETHANE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
1,1,2,3-TRICHLOROPROPANE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
METHYL METHACRYLATE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
ETHYL METHACRYLATE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
METHYLENE CHLORIDE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
CHLOROFORM	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
1,1,1-TRICHLOROETHANE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
CARBON TETRACHLORIDE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
1,1-DICHLOROETHENE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
TRICHLOROETHYLENE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
TETRACHLOROETHYLENE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	
BROMODICHLOROMETHANE	UG/L	< 10		< 10		< 10		< 10		< 10		< 10		< 10	

FOOTNOTES : A-AVERAGE TEST RESULT B-CALCULATED VALUE C-DUPLICATE SPIKE D-DUP & SPIKE E-10% RULE EXCEEDED

TABLE A.9

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/ WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ33871 04/11/97	EASTERN CANYONS LCS2 (F) SJ33872 04/11/97	EASTERN CANYONS LCS2 (F) SJ37228 07/03/97	EASTERN CANYONS LCS2 (F) SJ37229 07/03/97	EASTERN CANYONS LCS2 (F) SJ41861 10/20/97	EASTERN CANYONS LCS2 (F) SJ41863 10/20/97	EASTERN CANYONS LCS2 (F) SJ43535 12/08/97	EASTERN CANYONS LCS2 (F) SJ43537 12/08/97
VOLATILE ORGANIC COMPOUNDS									
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1
BROMOFORM	UG/L	<	1	<	1	<	1	<	1
CHLOROBENZENE	UG/L	55	55	<	1	<	1	<	1
VINYL CHLORIDE	UG/L	0.3	0.3	<	0.3	<	0.3	<	0.3
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1
1,1-DICHLOROETHANE	UG/L	3	3	<	13	<	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
1,1,2-DICHLOROETHANE	UG/L	0.3	0.3	<	1	<	0.3	<	0.3
BENZENE	UG/L	50	50	<	18	<	0.5	<	0.5
TOLUENE	UG/L	56	56	<	18	<	1	<	1
ETHYL BENZENE	UG/L	10	10	<	10	<	10	<	10
VINYL ACETATE	UG/L	<	1	<	1	<	1	<	1
O-XYLENE	UG/L	<	1	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	10	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	10	10	<	10	<	10	<	10
ACETONITRILE	UG/L	20	20	<	20	<	20	<	20
FREON 12 (CCL2F2)	UG/L	<	1	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1	<	1
1,2-DIBROMOETHANE	UG/L	0.01	0.01	<	0.01	<	0.01	<	0.01
ACETONE	UG/L	10	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	1	1	<	1	<	1	<	1
2-BUTANONE	UG/L	10	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	10	10	<	10	<	10	<	10
STYRENE	UG/L	1	1	<	1	<	1	<	1
2,4,5-TRICHLOROPHENOL	UG/L	1	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	1	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	1	1	<	1	<	1	<	1
2-HEXANONE	UG/L	5	5	<	5	<	5	<	5

FOOTNOTES : A-AVERAGE F-AMENDED TEST RESULT

B-CALCULATED VALUE

C-DUPLICATE SPIKE

D-DUP & SPIKE

E-10% RULE EXCEEDED

TABLE A.9
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ33871 04/11/97	EASTERN CANYONS LCS2 (F) SJ37228 07/03/97	EASTERN CANYONS LCS2 SJ37229 07/03/97	EASTERN CANYONS LCS2 (F) SJ41861 10/20/97	EASTERN CANYONS LCS2 SJ41863 10/20/97	EASTERN CANYONS LCS2 (F) SJ43535 12/08/97	EASTERN CANYONS LCS2 SJ43537 12/08/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<
ACETOPHENONE	UG/L	1	1	1	1	1	1	1
2-ACETYLAMINOFLUORENE	UG/L	1	1	1	1	1	1	1
4-AMINOBIPHENYL	UG/L	1	1	1	1	1	1	1
BENZYL ALCOHOL	UG/L	6	1	1	1	1	1	1
P-CHLOROANILINE	UG/L	1	1	1	1	1	1	1
CHLOROBENZILATE	UG/L	1	1	1	1	1	1	1
DIALLATE	UG/L	1	1	1	1	1	1	1
DIBENZOFURAN	UG/L	15	1	1	1	1	1	1
2,6-DICHLOROPHENOL	UG/L	1	1	1	1	1	1	1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	10	1	1	10	1	1	1
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	1	1	1	1	1	1	1
3,3'-DIMETHYLBENZIDINE	UG/L	1	1	1	1	1	1	1
M-DINITROBENZENE	UG/L	1	1	1	1	1	1	1
DIPHENYLAMINE	UG/L	1	1	1	1	1	1	1
ETHYL METHANESULFONATE	UG/L	1	1	1	1	1	1	1
FAMPHUR	UG/L	15	1	1	1	1	1	1
HEXACHLOROPROPENE	UG/L	1	1	1	1	1	1	1
ISODRIN	UG/L	10	1	1	1	1	1	1
ISOSAFROLE	UG/L	20	1	1	1	1	1	1
METHAPYRILENE	UG/L	1	1	1	1	1	1	1
3-METHYLCHOLANTHRENE	UG/L	1	1	1	1	1	1	1
METHYL METHANESULFONATE	UG/L	1	1	1	1	1	1	1
2-METHYLNAPHTHALENE	UG/L	1	1	1	1	1	1	1
1,4-NAPHTHOQUINONE	UG/L	1	1	1	1	1	1	1
1-NAPHTHYLAMINE	UG/L	1	1	1	1	1	1	1
2-NAPHTHYLAMINE	UG/L	1	1	1	1	1	1	1
O-NITROANILINE	UG/L	1	1	1	1	1	1	1
M-NITROANILINE	UG/L	1	1	1	1	1	1	1
P-NITROANILINE	UG/L	1	1	1	1	1	1	1
N-NITROSODI-N-BUTYLAMINE	UG/L	1	1	1	1	1	1	1
N-NITROSODIETHYLAMINE	UG/L	1	1	1	1	1	1	1
N-NITROSOMETHYLETHYLAMINE	UG/L	1	1	1	1	1	1	1
N-NITROSOPIPERIDINE	UG/L	1	1	1	1	1	1	1
N-NITROSOPYRROLIDINE	UG/L	1	1	1	1	1	1	1
5-NITRO-O-TOLUIDINE	UG/L	1	1	1	1	1	1	1
PENTACHLOROBENZENE	UG/L	5	1	1	1	1	1	1
PENTACHLORONITROBENZENE	UG/L	1	1	1	1	1	1	1
PHENACETIN	UG/L	20	1	1	1	1	1	1
P-PHENYLENEDIAMINE	UG/L	1	1	1	1	1	1	1
PRONAMIDE	UG/L	1	1	1	1	1	1	1

FOOTNOTES : A-AVERAGE F-AMENDED TEST RESULT B-CALCULATED VALUE C-DUPLICATE SPIKE D-DUP & SPIKE E-10% RULE EXCEEDED

TABLE A.9
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) 04/11/97	EASTERN CANYONS LCS2 (F) SJ33871	EASTERN CANYONS LCS2 (F) SJ37228	EASTERN CANYONS LCS2 (F) SJ37229	EASTERN CANYONS LCS2 (F) SJ41861	EASTERN CANYONS LCS2 (F) SJ41863	EASTERN CANYONS LCS2 (F) SJ43535	EASTERN CANYONS LCS2 (F) SJ43537
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
SAFROLE	UG/L	1	1	1	1	1	1	1	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
O-TOLIDINE	UG/L	<	<	<	<	<	<	<	<
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	1	1	1	1	1	1	1	1
SYM-TRINITROBENZENE	UG/L	5	5	5	5	5	5	5	5
ACENAPHTHENE	UG/L	<	<	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
BENZIDINE	UG/L	20	20	20	20	20	20	20	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
BENZO (A) PYRENE	UG/L	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BENZO (G,H,I) PERYLENE	UG/L	<	<	<	<	<	<	<	<
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	<	<	<	<
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	<	<	<	<
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<	<	<
DIBENZO (A,H) ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	5	5	5	5	5	5	5	5
HEXACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE TEST RESULT
F-AMENDED
B-CALCULATED VALUE
C-DUPLICATE SPIKE
D-DUP & SPIKE
E-10% RULE EXCEEDED

TABLE A.9
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(SJ33871) 04/11/97	EASTERN CANYONS LCS2(SJ33872) 04/11/97	EASTERN CANYONS LCS2(SJ37228) 07/03/97	EASTERN CANYONS LCS2(SJ37229) 07/03/97	EASTERN CANYONS LCS2(SJ41861) 10/20/97	EASTERN CANYONS LCS2(SJ41863) 10/20/97	EASTERN CANYONS LCS2(SJ43535) 12/08/97	EASTERN CANYONS LCS2(SJ43537) 12/08/97
NITROBENZENE	UG/L	<	1	<	<	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1	<	<	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1	<	<	<	<	<	1
PHENANTHRENE	UG/L	<	1	<	<	<	<	<	1
PYRENE	UG/L	<	1	<	<	<	<	<	1
2-CHLOROPHENOL	UG/L	<	1	<	<	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1	<	<	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	1	<	<	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1	<	<	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	6	<	<	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1	<	<	<	<	<	1
2-NITROPHENOL	UG/L	<	1	<	<	<	<	<	1
4-NITROPHENOL	UG/L	<	1	<	<	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1	<	<	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	0.2	<	<	<	<	<	1
PHENOL	UG/L	<	1	<	<	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1	<	<	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	4	<	<	<	<	<	1
O-CRESOL	UG/L	<	4	<	<	<	<	<	1
M+P CRESOL	UG/L	<	3	<	<	<	<	<	1

ACID-BASE NEUTRAL EXTRACTABLE

NITROBENZENE	UG/L	<	1	<	<	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1	<	<	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1	<	<	<	<	<	1
PHENANTHRENE	UG/L	<	1	<	<	<	<	<	1
PYRENE	UG/L	<	1	<	<	<	<	<	1
2-CHLOROPHENOL	UG/L	<	1	<	<	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1	<	<	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	1	<	<	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1	<	<	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	6	<	<	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1	<	<	<	<	<	1
2-NITROPHENOL	UG/L	<	1	<	<	<	<	<	1
4-NITROPHENOL	UG/L	<	1	<	<	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1	<	<	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	0.2	<	<	<	<	<	1
PHENOL	UG/L	<	1	<	<	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1	<	<	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	4	<	<	<	<	<	1
O-CRESOL	UG/L	<	4	<	<	<	<	<	1
M+P CRESOL	UG/L	<	3	<	<	<	<	<	1

FOOTNOTES : A-AVERAGE F-AMENDED TEST RESULT

B-CALCULATED VALUE

C-DUPLICATE SPIKE

D-DUP & SPIKE

E-10% RULE EXCEEDED

TABLE A.10
WATER QUALITY DATA
SURFACE RUNOFF MONITORING RESULTS

TABLE A.10
WATER QUALITY DATA - SURFACE RUNOFF SAMPLES
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN EQIP SJ42627 11/10/97	RUN EQIP SJ43192 11/26/97	RUN SD1 SJ42624 11/10/97	RUN SD1 SJ43189 11/26/97	RUN SD11 SJ42626 11/10/97	RUN SD11 SJ43191 11/26/97	RUN SD9 SJ42625 11/10/97	RUN SD9 SJ43190 11/26/97	RUN TRIP SJ42628 11/10/97	RUN TRIP SJ43193 11/26/97
GENERAL											
PH											
CONDUCTIVITY											
SUSPENDED SOLIDS											
CATIONS											
IRON											
SOLUBLE IRON											
ORGANIC MATTER											
TOTAL ORGANIC CARBON											
METALS											
ARSENIC											
BARIUM											
CADMIUM											
TOTAL CHROMIUM											
COBALT											
COPPER											
LEAD											
MERCURY											
NICKEL											
SELENIUM											
SILVER											
ZINC											
ANTIMONY											
BERYLLIUM											
VANADIUM											
SOLUBLE ARSENIC											
SOLUBLE BARIUM											
SOLUBLE ANTIMONY											
SOLUBLE CADMIUM											
SOLUBLE CHROMIUM											
SOLUBLE COBALT											
SOLUBLE COPPER											
SOLUBLE LEAD											
SOLUBLE MERCURY											
SOLUBLE NICKEL											
SOLUBLE SELENIUM											

FOOTNOTES : A-AMENDED TEST RESULT

TABLE A.10
WATER QUALITY DATA - SURFACE RUNOFF SAMPLES
PUENTE HILLS LANDFILL

CONSTITUENT/ WELL NO.	UNITS	RUN EQIP	RUN EQIP	RUN SD1	RUN SD1	RUN SD1	RUN SD1	RUN SD9	RUN SD9	RUN SD9	RUN TRIP	RUN TRIP	RUN TRIP
METALS													
SOLUBLE BERYLLIUM	MG/L BE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
SOLUBLE SILVER	MG/L AG	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
SOLUBLE ZINC	MG/L ZN	0.011	< 0.005	0.018	0.028	< 0.01	< 0.01	0.024	0.02	0.096	< 0.01	< 0.01	< 0.01
SOLUBLE VANADIUM	MG/L V	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VOLATILE ORGANIC COMPOUNDS													
METHYLENE CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-CHLOROETHYL VINYLETHER	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

FOOTNOTES : A-AMENDED TEST RESULT

TABLE A.11
WATER QUALITY DATA
REUSED WATER MONITORING RESULTS

TABLE A.11

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL REUS SJ32304 03/03/97	EFFI REUS (F) SJ32305 06/13/97	EFFL REUS SJ36498 06/13/97	EFFI REUS (F) SJ36499 09/03/97	EFFL REUS SJ40162 09/03/97	EFFI REUS (F) SJ40163 12/08/97	EFFL REUS SJ43534 12/08/97
GENERAL								
PH		7.28		7.40		7.52		7.37
CONDUCTIVITY	UMHOS/CM	2600		2240		2290		2680
TOTAL DISSOLVED SOLIDS	MG/L	2124		1818 D		1897		2212
TOTAL HARDNESS	MG/L CaCO3	1689 C		1160		1148 C		1375 C
TOTAL CYANIDE	MG/L CN	0.005		<0.002		<0.002		<0.002 A
BORON	MG/L B	0.7		0.55		0.28		0.73
GROSS ALPHA RADIOACTIVITY	PCI/L					2		
GROSS BETA RADIOACTIVITY	PCI/L					4.3		
ANIONS								
NITRATE NITROGEN	MG/L N	5.01 B		1.27 B		0.76 B		1.26 A
SULFATE	MG/L SO4	1110 B		896 B		942 B		1250
CHLORIDE	MG/L CL	93.1 B		66.9 B		69.4 B		87.9
TOTAL ALKALINITY	MG/L CaCO3	367		366		359		366 D
BICARBONATE ALKALINITY	MG/L CaCO3	367		366		359		366
TOTAL SULFIDE	MG/L S	< 0.1		< 0.1		< 0.1		< 0.1 F
FLUORIDE	MG/L F	1.11		0.98		1.15		0.94
CATIONS								
CALCIUM-HARDNESS	MG/L CaCO3	639		517		539 A		614
MAGNESIUM-HARDNESS	MG/L CaCO3	1050		609		609 A		761
SODIUM	MG/L NA	180		104		101 A		166
POTASSIUM	MG/L K	36.1		7.4		7.7 A		9.0
IRON	MG/L FE	230	< 0.02 A	0.28	0.03	0.08	0.59 A	7.64
MANGANESE	MG/L MN	4.78	0.12 A	0.36	0.41 B	0.38 A	1.20 A	1.63
ORGANIC MATTER								
AMMONIA NITROGEN	MG/L N	< 0.1		0.42		0.35		< 0.1
TOTAL BOD	MG/L O	3		< 0.7		3		2
SOLUBLE BOD	MG/L O	< 0.7		2		1		< 0.7
TOTAL COD	MG/L O	13		< 2		< 2		< 2
SOLUBLE COD	MG/L O	6		< 2		< 2		< 2
TOTAL ORGANIC CARBON	MG/L C	1.15		0.965 A		1.38		1.51
OIL & GREASE	MG/L EXTRAC	< 1 A		1		1.4		< 1
TOTAL ORGANIC HALOGEN (TOX)	UG/L	9.3 B		10 E		11		16 A

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-10% RULE EXCEEDED F-AVERAGE OF DUPS

TABLE A.11
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI SJ32304 03/03/97	EFFL REUS SJ32305 03/03/97	EFFI REUS (F) SJ36498 06/13/97	EFFL REUS SJ36499 06/13/97	EFFI REUS (F) SJ40162 09/03/97	EFFL REUS SJ40163 09/03/97	EFFI REUS (F) SJ43534 12/08/97	EFFL REUS SJ43536 12/08/97
METALS									
ARSENIC	MG/L AS	< 0.010	0.221	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.034
BARIUM	MG/L BA	0.02	0.72	0.02	0.02	0.02	0.01	0.01	0.04
CADMIUM	MG/L CD	< 0.001	< 0.001	< 0.003	< 0.003	0.004	< 0.003	< 0.003	< 0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	0.31	< 0.01	< 0.01	< 0.01	< 0.01	< 0.04	< 0.04
COBALT	MG/L CO	< 0.01	0.10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02
COPPER	MG/L CU	< 0.01	0.20	< 0.01	< 0.01	0.02	0.02	< 0.01	0.01
LEAD	MG/L PB	< 0.02	0.04	< 0.02	< 0.02	0.02	0.02	< 0.02	0.02
MERCURY	MG/L HG	< 0.001	0.005	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001
NICKEL	MG/L NI	< 0.02	0.16	< 0.02	< 0.02	0.03	0.02	< 0.02	0.02
SELENIUM	MG/L SE	0.035	0.053	0.010	0.010	0.010	0.010	0.018	0.017
SILVER	MG/L AG	< 0.01	0.51	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.01	0.036	< 0.01	< 0.01	0.05	0.02	0.02	0.07
ANTIMONY	MG/L SB	< 0.005	0.036	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BERYLLIUM	MG/L BE	< 0.001	< 0.001	< 0.005	< 0.005	< 0.005	< 0.010	< 0.005	< 0.005
THALLIUM	MG/L TL	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TIN	MG/L SN	< 0.06	0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	0.36	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	1
BROMOCHLOROMETHANE	UG/L	<	1	<	<	<	<	<	<	1
CHLOROPRENE	UG/L	<	1	<	<	<	<	<	<	1
1,1,4-DICHLORO-2-BUTENE	UG/L	<	0.3	<	<	<	0.3	<	<	0.3
1,3-DICHLOROPROPANE	UG/L	<	1	<	<	<	<	<	<	1
2,2-DICHLOROPROPANE	UG/L	<	1	<	<	<	<	<	<	1
1,1-DICHLOROPROPENE	UG/L	<	10	<	<	<	10	<	<	10
ISOBUTYL ALCOHOL	UG/L	<	10	<	<	<	10	<	<	10
METHACRYLONITRILE	UG/L	<	1	<	<	<	<	<	<	1
METHYL IODIDE	UG/L	<	1	<	<	<	<	<	<	1
METHYLENE BROMIDE	UG/L	<	10	<	<	<	10	<	<	10
PROPIONITRILE	UG/L	<	1	<	<	<	<	<	<	1
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	<	<	<	<	<	1
1,1,1,2-TRICHLOROPROPANE	UG/L	<	10	<	<	<	10	<	<	10
1,2,3-TRICHLOROPROPANE	UG/L	<	10	<	<	<	10	<	<	10
METHYL METHACRYLATE	UG/L	<	5	<	<	<	5	<	<	5
ETHYL METHACRYLATE	UG/L	<	1	<	<	<	<	<	<	1
METHYLENE CHLORIDE	UG/L	<	1	<	<	<	<	<	<	1
CHLOROFORM	UG/L	<	1	<	<	<	<	<	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	0.3	<	<	<	0.3	<	<	0.3
CARBON TETRACHLORIDE	UG/L	<	1	<	<	<	<	<	<	1
1,1-DICHLOROETHENE	UG/L	<	1	<	<	<	<	<	<	1

FOOTNOTES : A- DUPLICATE SPIKE
F- AVERAGE OF DUPS

B- AVERAGE

C- CALCULATED VALUE

D- DUP & SPIKE

E- 10% RULE EXCEEDED

TABLE A.11

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS (F)		EFFI REUS (F)		EFFI REUS (F)		EFFI REUS (F)		EFFI REUS (F)	
		03/03/97	03/03/97	06/13/97	06/13/97	06/13/97	06/13/97	09/03/97	09/03/97	09/03/97	09/03/97
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	0.3	<	<	<	0.3	<	<	<	0.3
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	10	<	10	<	10	<	10	<	10
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	10	<	10	<	10	<	10	<	10
FREON 11 (CCL3F)	UG/L	<	20	<	20	<	20	<	20	<	20
ACETONE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	10	<	10	<	10	<	10	<	10
2-BUTANONE	UG/L	<	<	<	<	<	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<	<	<	<	<	<	<
STYRENE	UG/L	<	<	<	<	<	<	<	<	<	<
2,4,5-TRICHLOROPHENOL	UG/L	<	2	<	2	<	2	<	2	<	2
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<	<	<	<
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5	<	5

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-10% RULE EXCEEDED F-AVERAGE OF DUPS

TABLE A.11
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL REUS SJ32304	03/03/97	EFFI REUS (F) SJ32305	03/03/97	EFFL REUS SJ36498	06/13/97	EFFI REUS (F) SJ36499	06/13/97	EFFL REUS SJ40163	09/03/97	EFFI REUS (F) SJ40162	09/03/97	EFFL REUS SJ43536	12/08/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
ACETOPHENONE	UG/L	<	<	3	<	<	<	1	<	<	<	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	6	<	<	<	1	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	3	<	<	<	1	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	3	<	<	<	1	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	4	<	<	<	5	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	3	<	<	<	1	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	15	<	<	<	10	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	10	<	<	<	1	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	50	<	<	<	1	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	20	<	<	<	5	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	50	<	<	<	10	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	5	<	<	<	20	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	13	<	<	<	1	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	11	<	<	<	1	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	8	<	<	<	1	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
N-NITRODI-N-BUTYLAMINE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
N-NITROSODIETHYLETHYLAMINE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	6	<	<	<	1	<	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	4	<	<	<	5	<	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	4	<	<	<	1	<	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	4	<	<	<	20	<	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	5	<	<	<	1	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-10% RULE EXCEEDED
F-AVERAGE OF DUPS

TABLE A.11

WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS (F) SJ32304 03/03/97	EFFL REUS SJ32305 03/03/97	EFFI REUS (F) SJ36498 06/13/97	EFFL REUS SJ36499 06/13/97	EFFI REUS (F) SJ40162 09/03/97	EFFL REUS SJ40163 09/03/97	EFFI REUS (F) SJ43534 12/08/97	EFFL REUS SJ43536 12/08/97
ACID-BASE NEUTRAL EXTRACTABLE	UG/L								
SAFROLE	UG/L								
1,2,4,5-TETRACHLOROBENZEN	UG/L								
2,3,4,6-TETRACHLOROPHENOL	UG/L								
O-TOLUIDINE	UG/L								
O,O'-TRIETHYLPHOSPHOROTH	UG/L								
SYM-TRINITROBENZENE	UG/L								
ACENAPHTHENE	UG/L								
ACENAPHTHYLENE	UG/L								
ANTHRACENE	UG/L								
BENZIDINE	UG/L								
BENZO (A) ANTHRACENE	UG/L								
BENZO (A) PYRENE	UG/L								
BENZO (B) FLUORANTHENE	UG/L								
BENZO (G,H,I) PERYLENE	UG/L								
BENZO (K) FLUORANTHENE	UG/L								
BIS (2-CL-ETHOXY) METHANE	UG/L								
BIS (2-CHLOROETHYL) ETHER	UG/L								
BIS (2-CL-ISOPROPYL) ETHER	UG/L								
DIETHYLHEXYL PHTHALATE	UG/L								
4-BROMOPHENYL PHENYLETHER	UG/L								
BUTYLBENZYL PHTHALATE	UG/L								
2-CHLORONAPHTHALENE	UG/L								
4-CHLOROPHENYLPHENYLETHER	UG/L								
CHRYSENE	UG/L								
DIBENZO (A,H) ANTHRACENE	UG/L								
3,3'-DICHLOROBENZIDINE	UG/L								
DIETHYL PHTHALATE	UG/L								
DIMETHYL PHTHALATE	UG/L								
DI-N-BUTYL PHTHALATE	UG/L								
2,4-DINITROTOLUENE	UG/L								
2,6-DINITROTOLUENE	UG/L								
DI-N-OCTYL PHTHALATE	UG/L								
FLUORANTHENE	UG/L								
FLUORENE	UG/L								
HEXACHLOROBENZENE	UG/L								
HEXACHLOROBUTADIENE	UG/L								
HEXACHLOROCYCLOPENTADIENE	UG/L								
HEXACHLOROETHANE	UG/L								
INDENO (1,2,3-C,D) PYRENE	UG/L								
ISOPHORONE	UG/L								
NAPHTHALENE	UG/L								

FOOTNOTES : A-DUPLICATE SPIKE
F-AVERAGE OF DUPS

B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-10% RULE EXCEEDED

TABLE A.11
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS (F) SJ32304 03/03/97	EFFL REUS SJ32305 03/03/97	EFFI REUS (F) SJ36498 06/13/97	EFFL REUS SJ36499 06/13/97	EFFI REUS (F) SJ40162 09/03/97	EFFL REUS SJ40163 09/03/97	EFFI REUS (F) SJ43534 12/08/97	EFFL REUS SJ43536 12/08/97
ACID-BASE NEUTRAL EXTRACTABLE									
NITROBENZENE	UG/L	<	<	2	<	1	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	1	<	1	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	3	<	1	<	<	1
PHENANTHRENE	UG/L	<	<	2	<	1	<	<	1
PYRENE	UG/L	<	<	1	<	1	<	<	1
2-CHLOROPHENOL	UG/L	<	<	2	<	1	<	<	1
1,2,4-TRICHLOROENZENE	UG/L	<	<	4	<	1	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	2	<	1	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	2	<	1	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	19	<	6	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	2	<	1	<	<	1
2-NITROPHENOL	UG/L	<	<	3	<	1	<	<	1
4-NITROPHENOL	UG/L	<	<	18	<	1	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	2	<	1	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	2	<	1	<	<	1
PHENOL	UG/L	<	<	2	<	1	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	2	<	1	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	2	<	1	<	<	1
O-CRESOL	UG/L	<	<	4	<	4	<	<	1
M+P CRESOL	UG/L	<	<	3	<	3	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-CALCULATED VALUE D-DUP & SPIKE E-10% RULE EXCEEDED
F-AVERAGE OF DUPS

TABLE A.12

WATER QUALITY DATA

QUALITY ASSURANCE/QUALITY CONTROL DATA

TABLE A.12

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	SJ32306	SJ32353	SJ32363	SJ32418	SJ32431	SJ32484	SJ32499	SJ32802	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS													
BROMOCHLOROMETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
METHYL IODIDE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
METHYLENE BROMIDE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,1,1,3-TRICHLOROPROPANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
METHYLENE CHLORIDE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
CHLOROFORM	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
CARBON TETRACHLORIDE	UG/L	<	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	<	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
TRICHLOROETHYLENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
TETRACHLOROETHYLENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
BROMODICHLOROMETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
BROMOFORM	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
CHLOROBENZENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
VINYL CHLORIDE	UG/L	<	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	<	<	0.3
O-DICHLOROBENZENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
P-DICHLOROBENZENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,1-DICHLOROETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	<	<	0.3
1,1,2-DICHLOROETHANE	UG/L	<	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<	<	0.5
BENZENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
TOLUENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
ETHYL BENZENE	UG/L	<	10	10	10	10	10	10	10	10	<	<	10
VINYL ACETATE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
O-XYLENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
BROMOMETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
CHLOROETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
CHLOROMETHANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<	<	0.5
ACRYLONITRILE	UG/L	<	10	10	10	10	10	10	10	10	<	<	10
FREON 11 (CCL3F)	UG/L	<	1	1	1	1	1	1	1	1	<	<	<
1,2-DIBROMOETHANE	UG/L	<	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	<	<	0.01
ACETONE	UG/L	<	10	10	10	10	10	10	10	10	<	<	10

TABLE A.12

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS												
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-CHECK NOTES TO USER

TABLE A.12
 WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK		BLNK		BLNK		BLNK		BLNK		BLNK		BLNK	
		TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
1,2-DIBROMOETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ACETONE	UG/L	10	1	10	1	10	1	10	1	10	1	10	1	10	1
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10
STYRENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2-HEXANONE	UG/L	5	5	5	5	5	5	5	5	5	5	5	5	5	5

FOOTNOTES : A-CHECK NOTES TO USER

TABLE A.12
 WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
BROMOMETHANE	UG/L	1	<	1	<	1	<	1	<
CHLOROETHANE	UG/L	1	<	1	<	1	<	1	<
2-CHLOROETHYL VINYLETHER	UG/L	1	<	1	<	1	<	1	<
CHLOROMETHANE	UG/L	1	<	1	<	1	<	1	<
1,2-DICHLOROPROPANE	UG/L	1	<	1	<	1	<	1	<
CIS-1,3-DICHLOROPROPENE	UG/L	1	<	1	<	1	<	1	<
TRANS-1,3-DICHLOROPROPENE	UG/L	1	<	1	<	1	<	1	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	0.5	<	0.5	<	0.5	<
ACROLEIN	UG/L	10	<	10	<	10	<	10	<
ACRYLONITRILE	UG/L	10	<	10	<	10	<	10	<
ACETONITRILE	UG/L	20	<	20	<	20	<	20	<
FREON 12 (CCL2F2)	UG/L	1	<	1	<	1	<	1	<
FREON 11 (CCL3F)	UG/L	1	<	1	<	1	<	1	<
1,2-DIBROMOETHANE	UG/L	0.01	<	0.01	<	0.01	<	0.01	<
ACETONE	UG/L	10	<	10	<	10	<	10	<
CIS-1,2-DICHLOROETHYLENE	UG/L	1	<	1	<	1	<	1	<
2-BUTANONE	UG/L	10	<	10	<	10	<	10	<
4-METHYL-2-PENTANONE	UG/L	10	<	10	<	10	<	10	<
STYRENE	UG/L	1	<	1	<	1	<	1	<
M+P-XYLENE	UG/L	1	<	1	<	1	<	1	<
CARBON DISULFIDE	UG/L	1	<	1	<	1	<	1	<
2-HEXANONE	UG/L	5	<	5	<	5	<	5	<

CS2
 C6H12O

TABLE A.12

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS								
BROMOMETHANE	UG/L	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	10	0.5	10	0.5	10	0.5
ACROLEIN	UG/L	10	10	10	10	10	10	10
ACRYLONITRILE	UG/L	20	20	20	20	20	20	20
ACETONITRILE	UG/L	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	<	<	<	<	<	<	<
ACETONE	UG/L	0.01	10	0.01	10	0.01	10	0.01
CIS-1,2-DICHLOROETHYLENE	UG/L	1	1	1	1	1	1	1
2-BUTANONE	UG/L	<	<	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<	<	<	<
STYRENE	UG/L	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<
2-HEXANONE	UG/L	<	<	<	<	<	<	<

CS2
C6H12O

**COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY**

**PUENTE HILLS LANDFILL
ORDER NO. 91-035, ORDER NO. 93-062, & ORDER NO. 93070
FILE NO. 57-220
MONITORING AND REPORTING PROGRAM NO. 2294**

1997 EXCEL 5.0 FILE DIRECTORY

<u>FILE</u>	<u>CONTENTS</u>
971Q-T10.XLS	First Quarter 1997 Groundwater Monitoring Results
971Q-T11.XLS	First Quarter 1997 Groundwater Trip Blank Results
971Q-T12.XLS	First Quarter 1997 Reused Water Sample Results
971Q-T13.XLS	First Quarter 1997 Reused Water Trip Blank Results
9704CCTB.XLS	April 1997 LCRS Sample and Trip Blank Results
972Q-T08.XLS	Second Quarter 1997 Groundwater Monitoring Results
972Q-T09.XLS	Second Quarter 1997 Groundwater Trip Blank Results
972Q-T10.XLS	Second Quarter 1997 Reused Water Sample Results
972Q-T11.XLS	Second Quarter 1997 Reused Water Trip Blank Results
973Q-T09.XLS	Third Quarter 1997 Groundwater and Piezometer Monitoring Results
973Q-T10.XLS	Third Quarter 1997 Groundwater and Piezometer Trip Blank Results
973Q-T11.XLS	Third Quarter 1997 Hydropunch Results
973Q-T12.XLS	Third Quarter 1997 Hydropunch Trip Blank Results
973Q-T13.XLS	Third Quarter 1997 Hydropunch Equipment Blank Results
973Q-T14.XLS	Third Quarter 1997 Reused Water Sample Results
973Q-T15.XLS	Third Quarter 1997 Reused Water Trip Blank Results
973Q-T16.XLS	Third Quarter 1997 LCRS Water Sample Results
973Q-T17.XLS	Third Quarter 1997 LCRS Water Trip Blank Results
9710CCTB.XLS	October 1997 LCRS Sample and Trip Blank Results
974Q-T09.XLS	Fourth Quarter 1997 Groundwater Monitoring Results
974Q-T10.XLS	Fourth Quarter 1997 Groundwater Trip Blank Results
974Q-T11.XLS	Fourth Quarter 1997 Gas Monitoring Probes Sampling Results
974Q-T12.XLS	Fourth Quarter 1997 Surface Runoff Monitoring Results
974Q-T13.XLS	Fourth Quarter 1997 Surface Runoff Trip Blank Results
974Q-T14.XLS	Fourth Quarter 1997 Reused Water Sample Results
974Q-T15.XLS	Fourth Quarter 1997 Reused Water Trip Blank Results
974Q-T16.XLS	Fourth Quarter 1997 LCRS Water Sample Results
974Q-T17.XLS	Fourth Quarter 1997 LCRS Water Trip Blank Results

**COUNTY SANITATION DISTRICTS
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973Q-T12.XLS	Third Quarter 1997 Hydropunch Trip Blank Results
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974Q-T17.XLS	Fourth Quarter 1997 LCRS Water Trip Blank Results

1998 Annual Water Quality Monitoring Report



COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address P O Box 4998, Whittier, CA 90607-4998
Telephone (562) 699-7411, FAX: (562) 699-5422

CHARLES W. CARRY
Chief Engineer and General Manager

May 19, 1999
File: 31R-102.10B

Mr. Rodney Nelson
Head, Landfill Unit
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Dear Mr. Nelson:

Puente Hills Landfill
1998 Water Quality Monitoring Annual Report
Order Nos. 93-062, 90-046, and 93-070
File No. 57-220, C.I. Nos. 2294 and 7336

Enclosed please find *1998 Water Quality Monitoring Annual Report for the Puente Hills Landfill*.
If you have any questions regarding this report, please contact Dr. Chi-Chung Tang of this office.

I certify that all wastes deposited at the Puente Hills Landfill during 1998 were deposited in compliance with the requirements of the Los Angeles Regional Water Quality Control Board (RWQCB), and that no wastes were deposited outside of the boundaries of the waste management area as specified in the RWQCB's requirements. In addition, I certify that the Sanitation Districts have complied with all monitoring and reporting requirements which apply to the Puente Hills Landfill, pursuant to Order Nos. 93-062, 90-046, and 93-070; and Monitoring and Reporting Programs 2294 and 7336. All laboratory analyses performed as part of the required water quality monitoring program were conducted at laboratories certified for such analyses, and in accordance with current guideline procedures contained in SW-846 and approved by USEPA.

I declare, under penalty of perjury, that to the best of my knowledge the foregoing statements are true, complete, and correct. Executed on the 19th day of May, 1999, at Whittier, California.

Very truly yours,

Charles W. Carry

Thomas J. LeBrun
Division Engineer
Solid Waste Management Department

TJL:CJH:leh
Enclosure

**1998 WATER QUALITY MONITORING ANNUAL REPORT
FOR THE PUENTE HILLS LANDFILL**

PREPARED BY

**COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
1955 WORKMAN MILL ROAD
WHITTIER, CALIFORNIA**

MAY, 1999

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Table A.7:	Water Quality Data - Liquids Collection and Removal Systems
Table A.8:	Water Quality Data - Reused Water Monitoring Results
Table A.9:	Quality Assurance/Quality Control Data

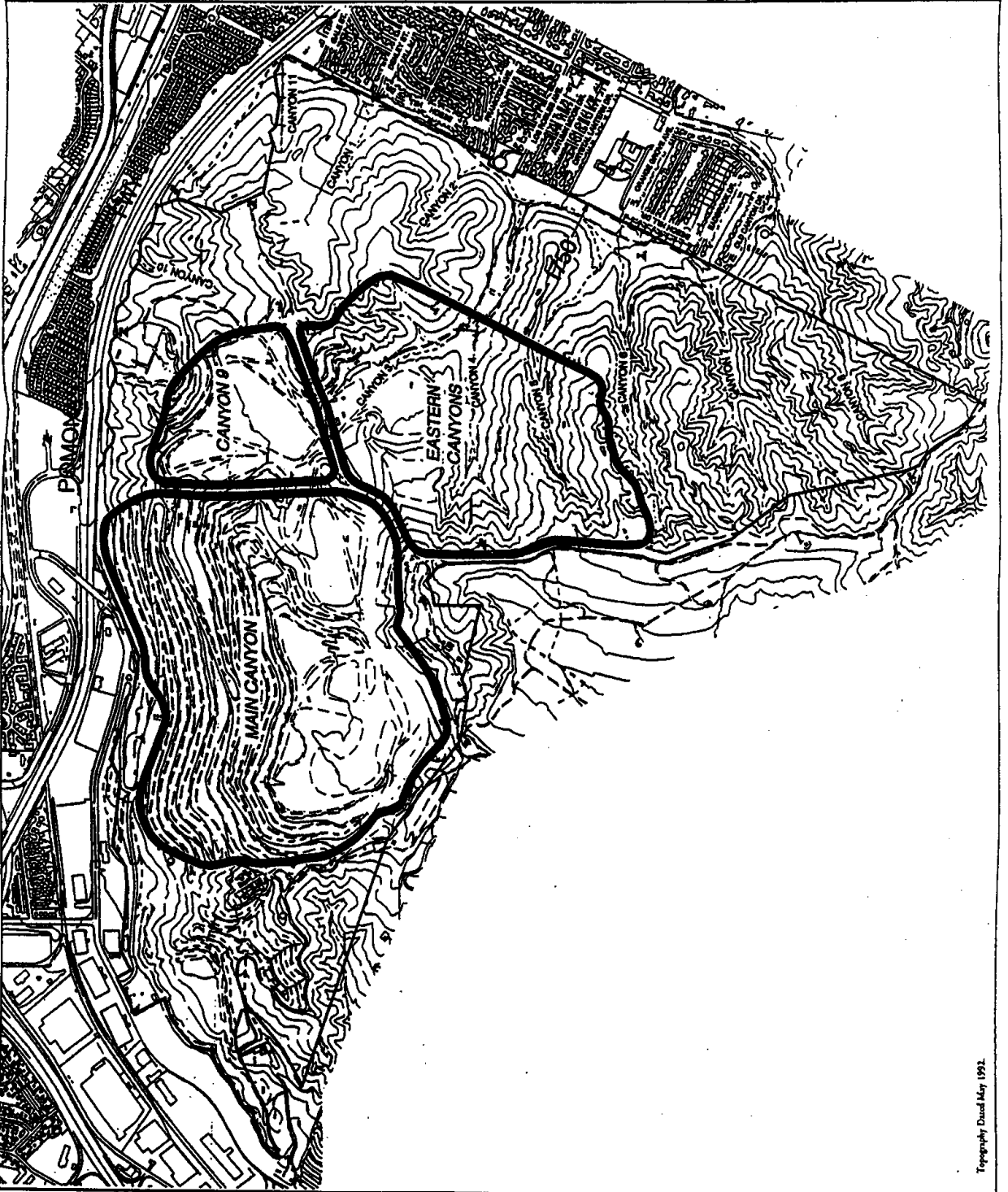
1998 WATER QUALITY MONITORING ANNUAL REPORT
FOR THE PUENTE HILLS LANDFILL

1.0 INTRODUCTION

The County Sanitation Districts of Los Angeles County (Sanitation Districts) own and operate the Puente Hills Landfill as a Class III municipal solid waste disposal facility. The site is located in unincorporated Los Angeles County, southeast of the intersection of the Pomona (SR-60) and San Gabriel River (I-605) freeways, as depicted in Exhibit 1. The site address is 2800 Workman Mill Road, Whittier, California. As shown in Exhibit 2, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons.

The Sanitation Districts operate the Puente Hills Landfill in accordance with permits, Waste Discharge Requirements (WDRs) and Monitoring and Reporting Programs (MRPs), issued by the Regional Water Quality Control Board, Los Angeles Region (RWQCB). The Puente Hills Landfill is currently subject to the following WDRs: (1) Order No. 93-062 which applies to all active municipal solid waste disposal sites in the Los Angeles Region; (2) Order Nos. 90-046 and 91-035 which apply to the Main Canyon and Canyon 9 of the Puente Hills Landfill; and (3) Order Nos. 93-070 and 94-103 which apply to the Eastern Canyons expansion area of the Puente Hills Landfill. Groundwater monitoring requirements are specified in MRP No. 2294 for the Main Canyon and Canyon 9, most recently revised on October 7, 1998; and MRP No. 7336 for the Eastern Canyon expansion area, most recently revised on October 8, 1998.

This annual report is prepared to comply with Section 13B(2) of RWQCB Order No. 93-062. Included in this report is site information, waste disposal information, facility changes, all water quality monitoring data collected in 1998 and a discussion of these data. The report also includes a graphical presentation of the groundwater quality data collected during the period from 1994 to 1998.



115118 Property Boundary

Site Topography and Identified Site Areas

EXHIBIT 2



2.0 SITE INFORMATION

2.1 GENERAL INFORMATION

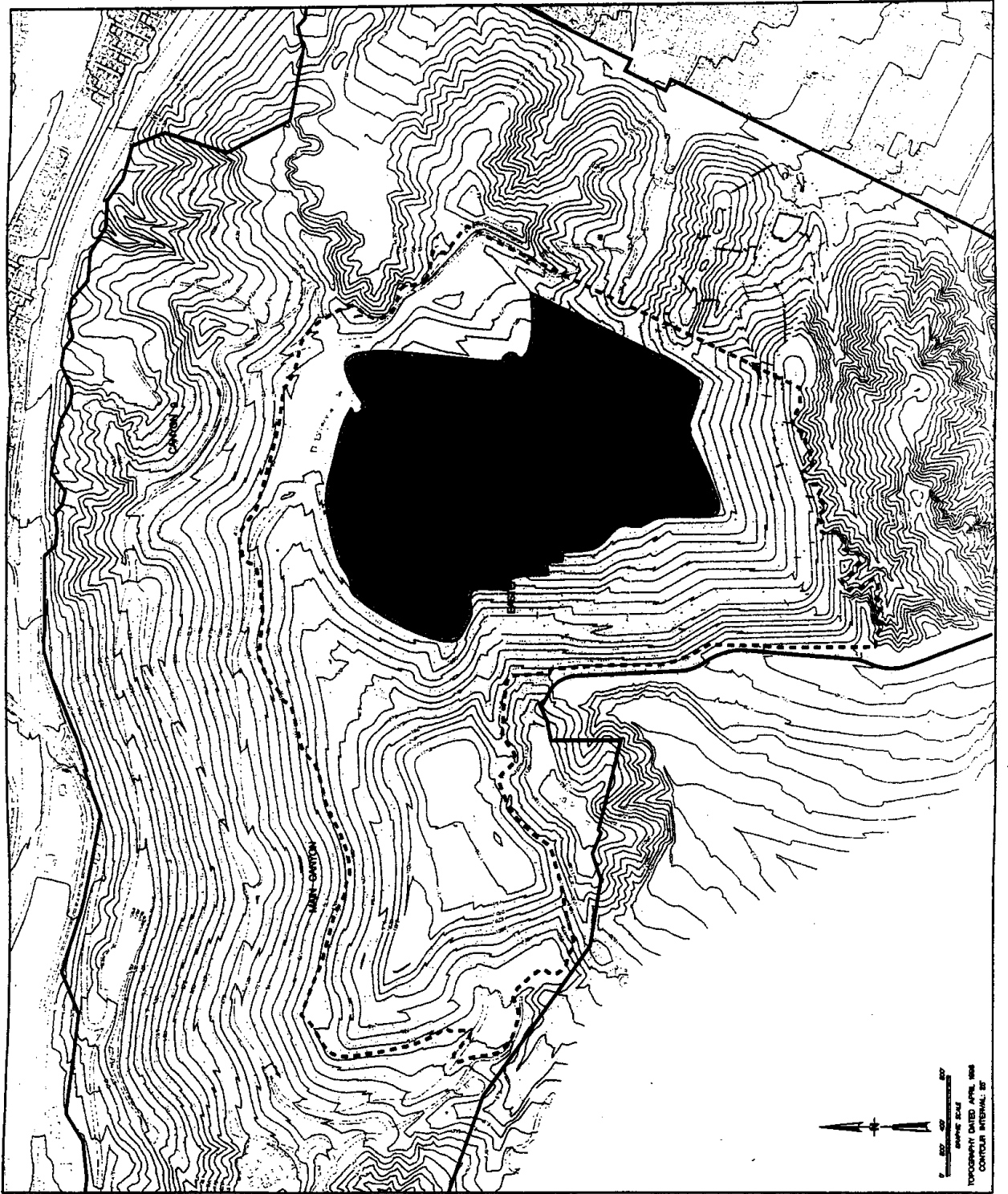
The Puente Hills Landfill is located immediately east of the San Gabriel River Freeway (I-605) and immediately south of the Pomona Freeway (SR-60) on Workman Mill Road (refer to Exhibit 1). The principal land acquisition for what is now known as the Puente Hills Landfill was completed in 1970 with the Sanitation Districts' purchase of a 1,214 acre parcel of the Pellissier Ranch. This portion of the Pellissier Ranch included a landfill operation that began in 1957 by the San Jose Development Company. At the time of the 1970 purchase by the Sanitation Districts, approximately six million tons of waste had been placed on the property. Since June 1970, the Sanitation Districts have remained the sole owner and operator of the Puente Hills Landfill. In May 1981, an additional 151 acres of land along the north side of the site was purchased bringing the site acreage to its present 1,365 acres. The Main Canyon is the location of the initial refuse operations which began in 1957. Refuse operations for Canyon 9 began in 1990. In July 1995, refuse operations were expanded into the Eastern Canyons.

The placement of refuse at the site is pursuant to the Conditional Use Permit (CUP) issued by the Los Angeles County Regional Planning. Exhibit 3 shows the current permitted landfill operation boundaries under CUP 92-250(4) and the 1998 disposal areas. The Puente Hills Landfill received approximately 3.7 million tons of solid waste in 1998. The 1998 average daily disposal rate was approximately 11,903 tons. Table 1 summarizes the monthly solid waste disposal rate. As of December 31, 1998, approximately 87.2 million tons of refuse have been deposited since the Sanitation Districts began landfilling in 1970. The Sanitation Districts estimate that as of December 31, 1998, approximately 18.9 million tons of capacity remain at the Puente Hills Landfill under the current CUP. CUP 92-250(4) expires on November 1, 2003, at which time approximately 10 years of additional capacity will remain.

2.2 GEOLOGY AND HYDROGEOLOGY

This section describes the regional geologic and hydrogeologic setting in the vicinity of the Puente Hills Landfill, and geologic and hydrogeologic conditions at the site. The discussion is primarily based on information found in the following reports.

- LeRoy Crandall and Associates, *Report of Geologic and Hydrogeologic Investigation, Puente Hills Landfill Site*, October 1981
- ENVIRON Corporation, *Hydrogeologic Investigation along Subsurface Barrier Systems, Puente Hills Landfill*, July 1996
- Dames & Moore, *Puente Hills Landfill Geotechnical Investigation and Hydrogeological Study, Phase 2 and Phases 3 through 5 Expansion Areas*, January 1997
- IT Corporation, *Detection and Evaluation Monitoring Programs for the Main Canyon at Puente Hills Landfill*, March 1998



LEGEND



-  PROPERTY LINE
-  PERMITTED LANDFILL OPERATIONS LIMIT
-  1988 DISPOSAL AREAS

EXHIBIT 3

PERMITTED FILL AND
1988 DISPOSAL AREAS

PUEBLO HILLS LANDFILL
SANITATION DISTRICTS

TABLE 1
1998 SOLID WASTE DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Nonhazardous Waste (Tons)	Inert Waste (Tons)	Total (Tons)
January	309,045	33	309,078
February	286,876	27	286,903
March	313,410	100	313,510
April	314,590	81	314,671
May	306,570	72	306,642
June	314,181	58	314,239
July	325,280	43	325,323
August	303,975	90	304,065
September	308,660	36	308,696
October	309,802	28	309,830
November	290,830	83	290,913
December	305,948	53	306,001
Total	3,689,167	704	3,689,871

Note: Nonhazardous waste includes dewatered biosolids and water treatment sludge.

2.2.1 Regional Geologic Setting

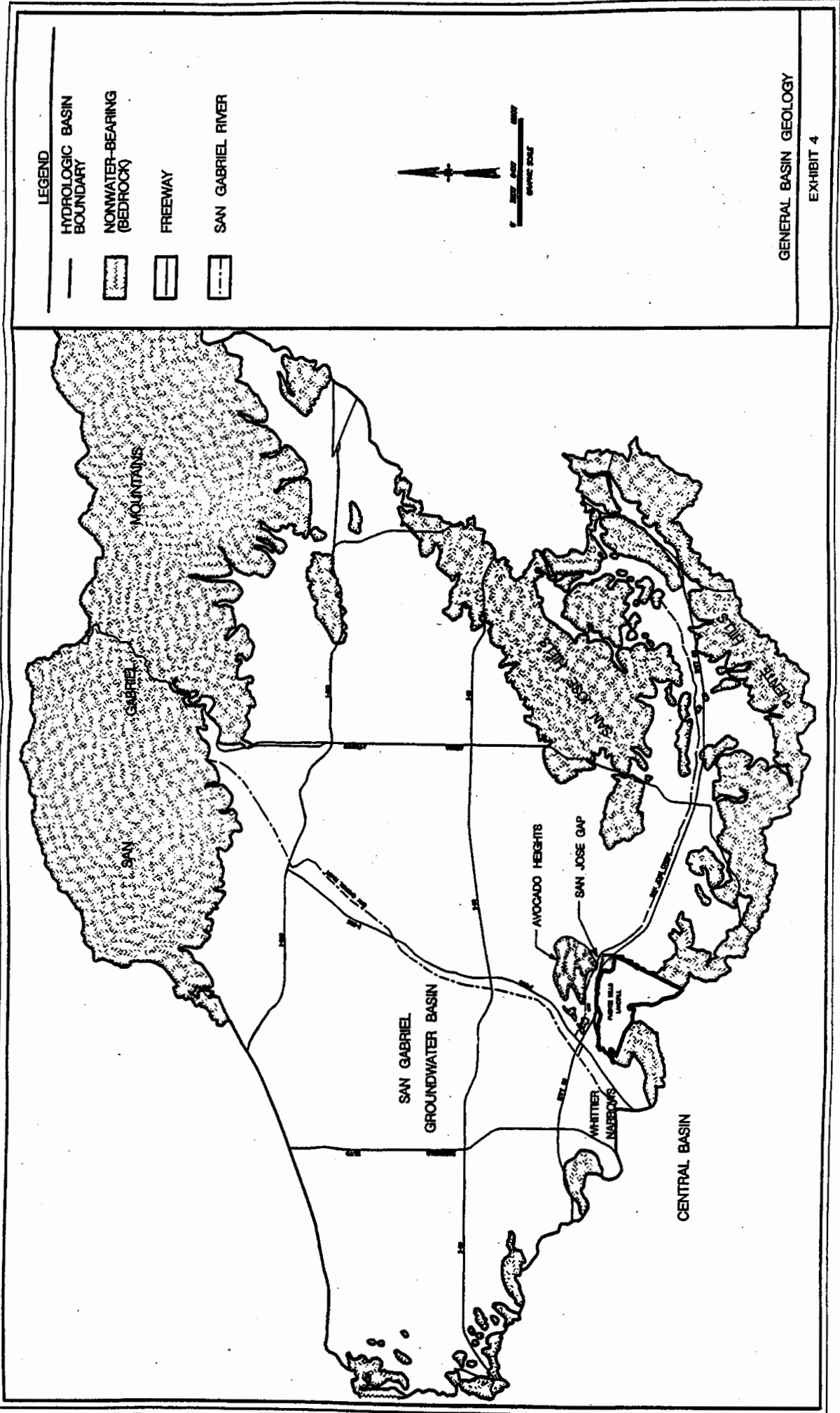
The Puente Hills, together with the San Jose Hills, are a topographic extension of the Santa Ana Mountains in the northern end of the Peninsular Ranges geomorphic province. The Puente Hills are underlain by a sequence of upper Cenozoic sedimentary and volcanic rocks, which in turn overlie a basement of Mesozoic plutonic and metamorphic rocks. Exposed in the hills are marine sedimentary rocks of the La Vida, Soquel, Yorba, and Sycamore Canyon members of the Miocene Puente Formation and Repetto and Pico Formations. The Pico Formation is the dominant geologic unit in the Main Canyon and Canyon 9. The Repetto Formation is the dominant geologic unit in the Eastern Canyons.

Bedrock structure in the Puente Hills Landfill area is dominated by the north-dipping, northwest-trending Whittier-Elsinore Fault Zone located approximately two miles south of the Puente Hills Landfill. The western portion of the Puente Hills contains two principal northwest-trending anticlinoria. Bedrock exposed at the Main Canyon area is situated along the north-dipping limb of the northern anticlinorium. Several outcrops of the Pico Formation bedrock occur to the north of the Puente Hills Landfill in an area known as the Avocado Heights. The area between Avocado Heights and the site has been referred to as the San Jose Gap. The historical San Jose Creek flowed through the San Jose Gap and deposited alluvial material on the stream bed. Exhibit 4 shows the location of Avocado Heights and San Jose Gap.

2.2.2 Regional Hydrogeology

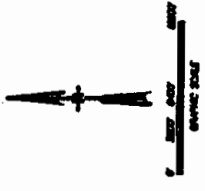
The Puente Hills Landfill is located on the northern tip of the western Puente Hills, which are part of the Santa Ana Mountains. The western Puente Hills are bounded to the north by flood plain deposits (including San Jose Creek and the San Gabriel Groundwater Basin); to the west by the Whittier Narrows and the San Gabriel River areas; and to the southwest by the Central Basin. It is a major barrier to groundwater flow and separate the San Gabriel Groundwater Basin from the Central Basin. The rocks or geologic units of the western Puente Hills area, which include the Puente Hills Landfill, are considered non-water bearing by the Department of Water Resources because they do not contain or store groundwater in economically recoverable quantities. Natural groundwater found in the western Puente Hills contains high levels of minerals (as measured by total dissolved solids) and metals. Because of the poor natural water quality and limited quantities, this groundwater is not considered to be a suitable drinking water supply. These characteristics make the groundwater found at the Puente Hills Landfill very different from that in the adjacent groundwater basins.

The San Gabriel Groundwater Basin lies beneath approximately 170 square miles of the San Gabriel Valley and is the primary drinking water source for more than one million people in the Los Angeles County. It consists of very permeable sands and gravel originating from the San Gabriel Mountains which are capable of transmitting groundwater at high rates. Recharge to the San Gabriel Groundwater Basin occurs by percolation of rainfall and stream flow, principally from the San Gabriel River, Rio Hondo, and San Jose Creek. Artificial recharge also takes place in the San Gabriel Groundwater Basin. San Gabriel Groundwater Basin discharge occurs by groundwater



LEGEND

- HYDROLOGIC BASIN BOUNDARY
- ▨ NONWATER-BEARING (BEDROCK)
- == FREEWAY
- - - SAN GABRIEL RIVER



pumping and outflow at the Whittier Narrows area at the southwest corner of the basin. Through the Whittier Narrows gap and San Gabriel River the groundwater from the San Gabriel Groundwater Basin drains into the Central Basin. Exhibit 5 is a July 1997 groundwater elevation contour map which depicts groundwater flow directions in the portion of the San Gabriel Groundwater Basin close to the Puente Hills Landfill. As indicated on Exhibit 5, a major pumping area is located approximately one and a half miles to the northeast, or hydraulically upgradient, of the Puente Hills Landfill.

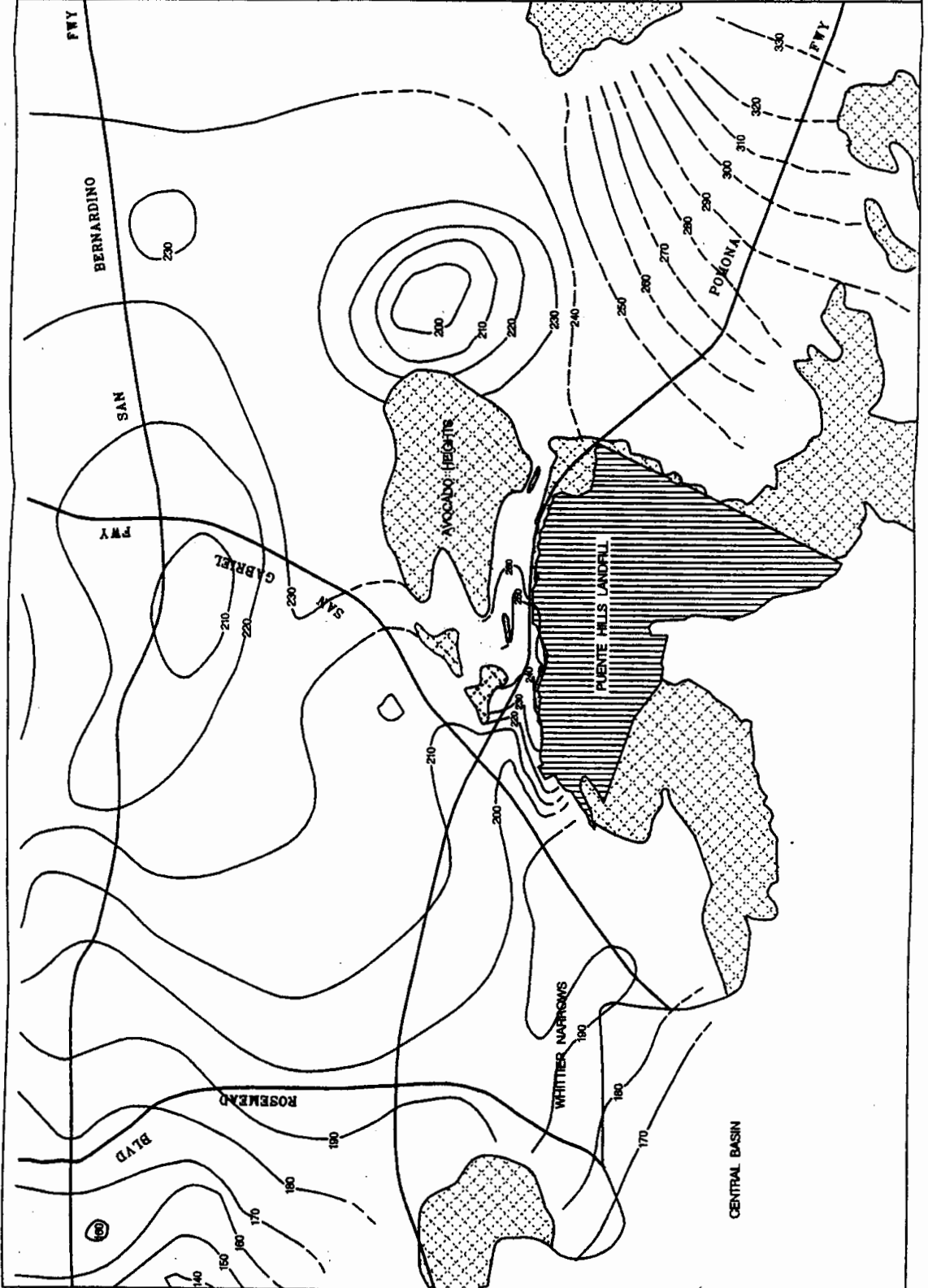
Regional groundwater contamination by volatile organic compounds (VOCs) prompted the United States Environmental Protection Agency (EPA) to place the entire San Gabriel Valley on the National Priorities List (NPL) in 1984. The NPL identifies the highest priority hazardous waste sites in the United States for investigation and cleanup. Sources of the groundwater contamination, according to the EPA, include industries engaged in metal cleaning, coating and manufacturing, chemical product manufacturing, plastics, aerosols, electric component manufacturing, printing, rubber manufacturing, die casting and engineering. The most commonly found VOCs in the basin groundwater are tetrachloroethylene (PCE) and trichloroethylene (TCE). Other VOCs such as 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethylene, and 1,2-dichloroethylene have also been found. Exhibit 6 depicts groundwater contamination in the San Gabriel Groundwater Basin as determined by the EPA.

The low permeability bedrock of Avocado Heights provides a natural barrier for any onsite groundwater at the Puente Hills Landfill to flow into the San Gabriel Groundwater Basin to the north. The most significant groundwater system near the Main Canyon is in the San Jose Gap between Avocado Heights and the landfill. The San Jose Gap consists of a veneer of 50 to 60 feet of alluvial sediments within the historical San Jose Creek. Exhibit 7 shows the extent of saturated alluvial sediments that is greater than 10 feet thick in the San Jose Gap. As shown in this exhibit, groundwater in this system flows in a westerly direction towards Whittier Narrows.

2.2.3 Site Geology

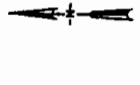
As described above, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons. Prior to landfilling activities, several canyons oriented toward the north, existed in the Main Canyon and Canyon 9 areas as shown in Exhibit 8. Similarly, several east trending canyons existed in the Eastern Canyons area prior to landfilling as shown in Exhibit 9.

The landfill site is underlain by a thick sequence of north-northwest dipping sedimentary marine bedrock units. Exhibits 10 and 11 show the general geologic conditions of the entire site and Eastern Canyons area, respectively. Unconsolidated surficial deposits which can be found overlying bedrock units at the site include artificial fill, alluvium, colluvium, and landslides which typically occur on north facing slopes due to the predominant north dipping bedrock. The distribution of surficial deposits has been modified as a result of grading operations associated with landfill development. Within the Eastern Canyons and Canyon 9 areas, surficial deposits and underlying



LEGEND

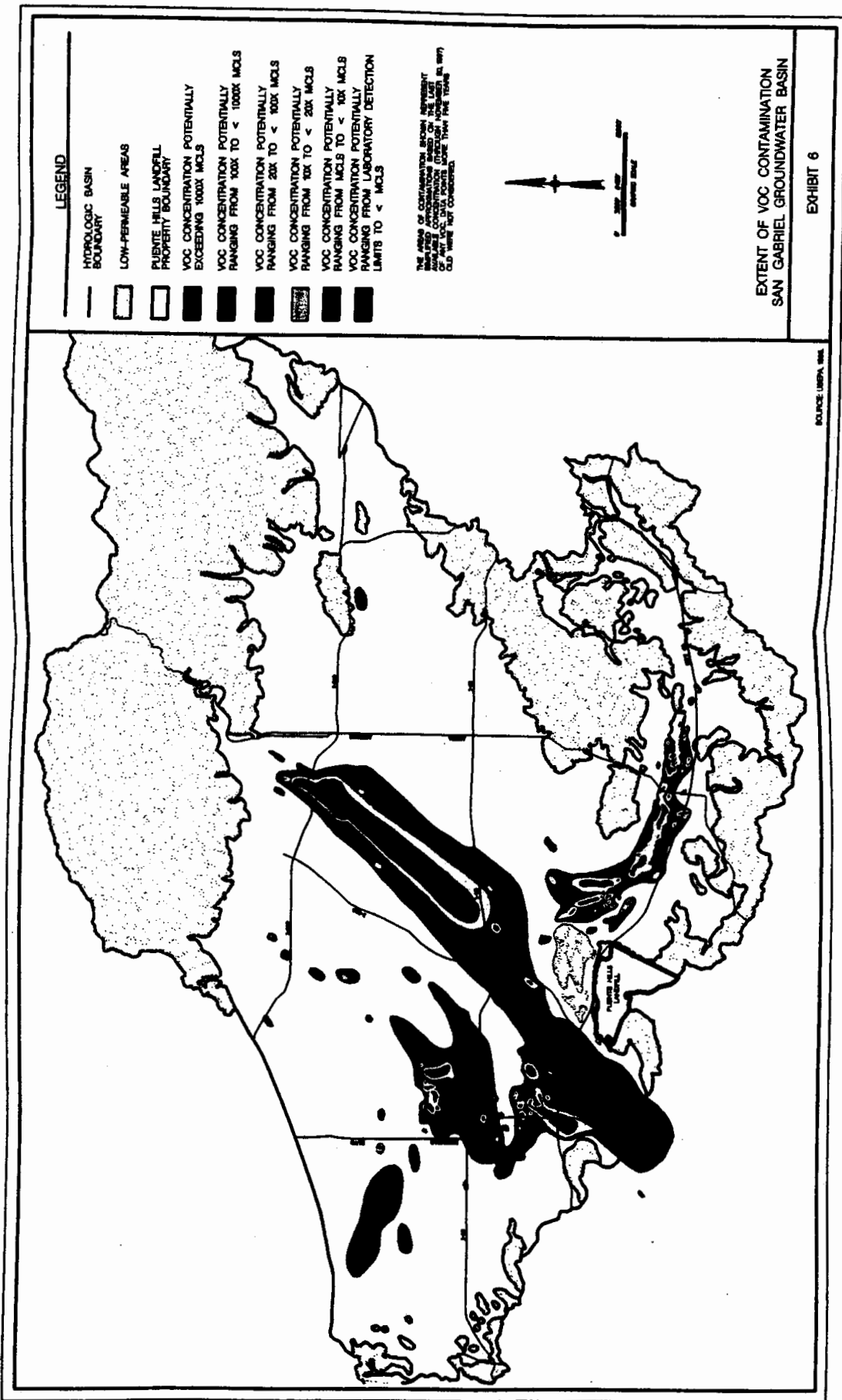
- HYDROLOGIC BASIN BOUNDARY
- GROUNDWATER CONTOUR (DASHED WHERE APPROXIMATE)
- [Hatched Box] NON-PERMEABLE AREAS (BEDROCK)
- [Dotted Box] PUENTE HILLS LANDFILL PROPERTY BOUNDARY

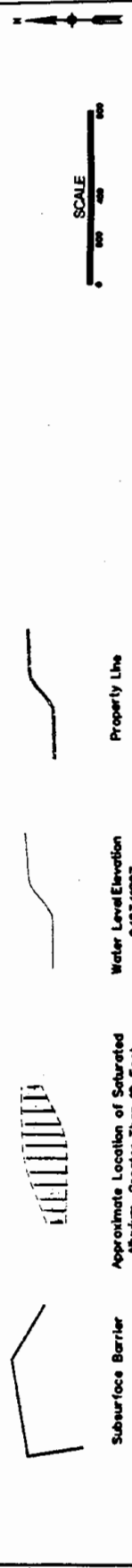
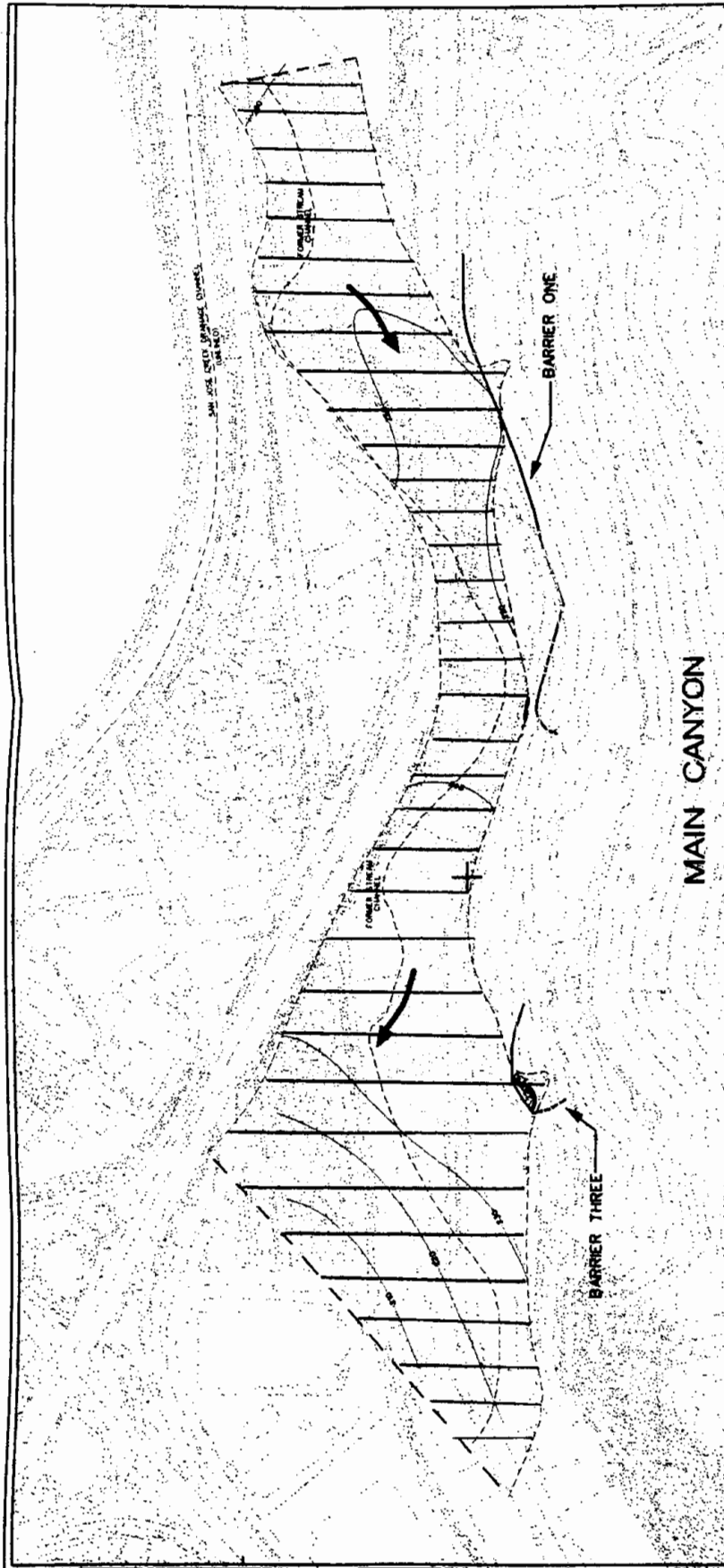


PUENTE HILLS LANDFILL,
COUNTY SANITATION DISTRICTS OF L.A. COUNTY
WHITTIER, CA.

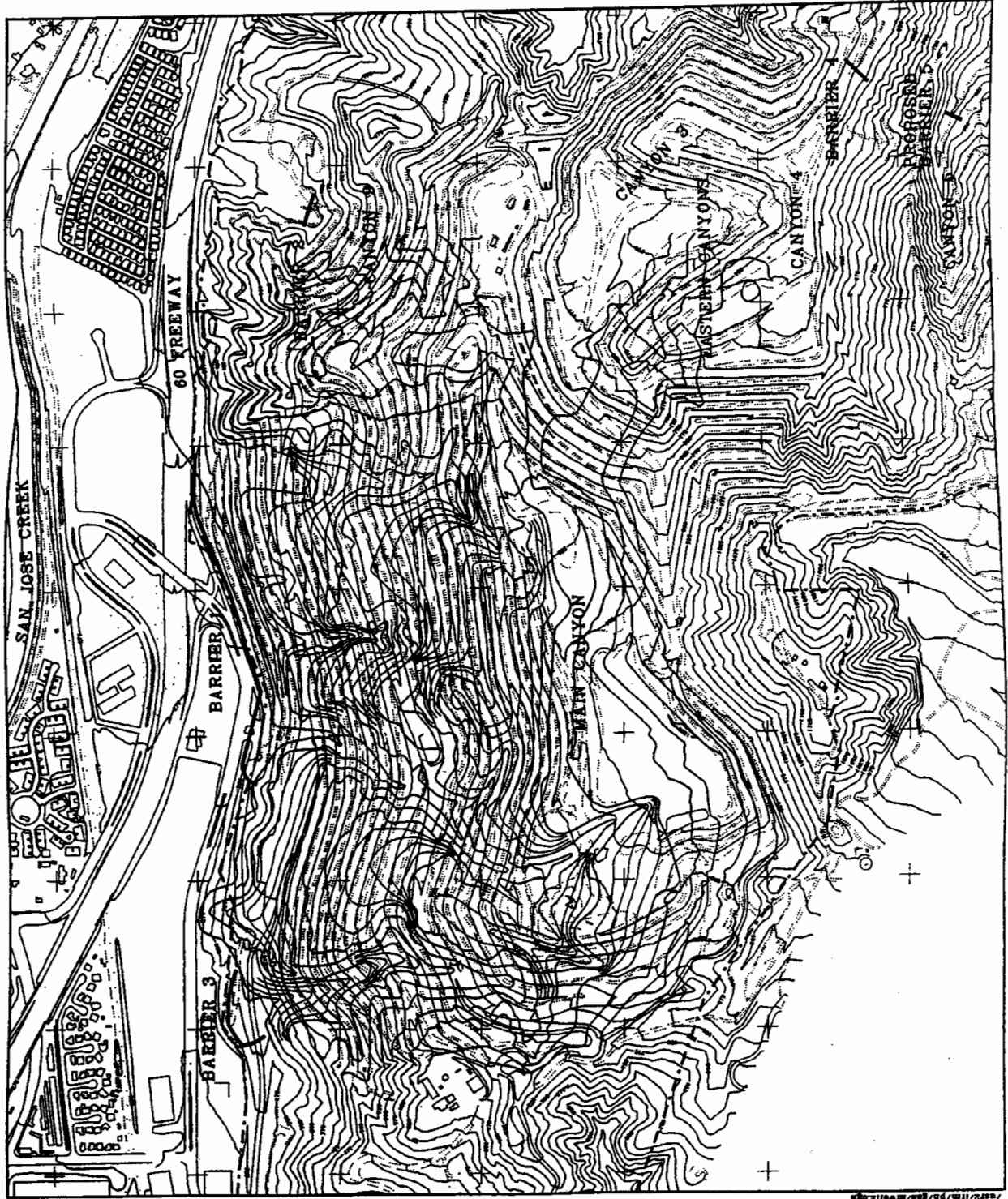
EXHIBIT 5

**MAIN SAN GABRIEL BASIN
GROUNDWATER CONTOURS
JULY 1997**





GROUNDWATER FLOW PATH
 IN THE SAN JOSE GAP
EXHIBIT 7



LEGEND

--- PROPERTY LINE

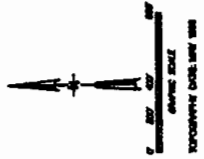


EXHIBIT 8

**MAIN CANYON AND CANYON 9
TOPOGRAPHY PRIOR TO EXCAVATION**

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

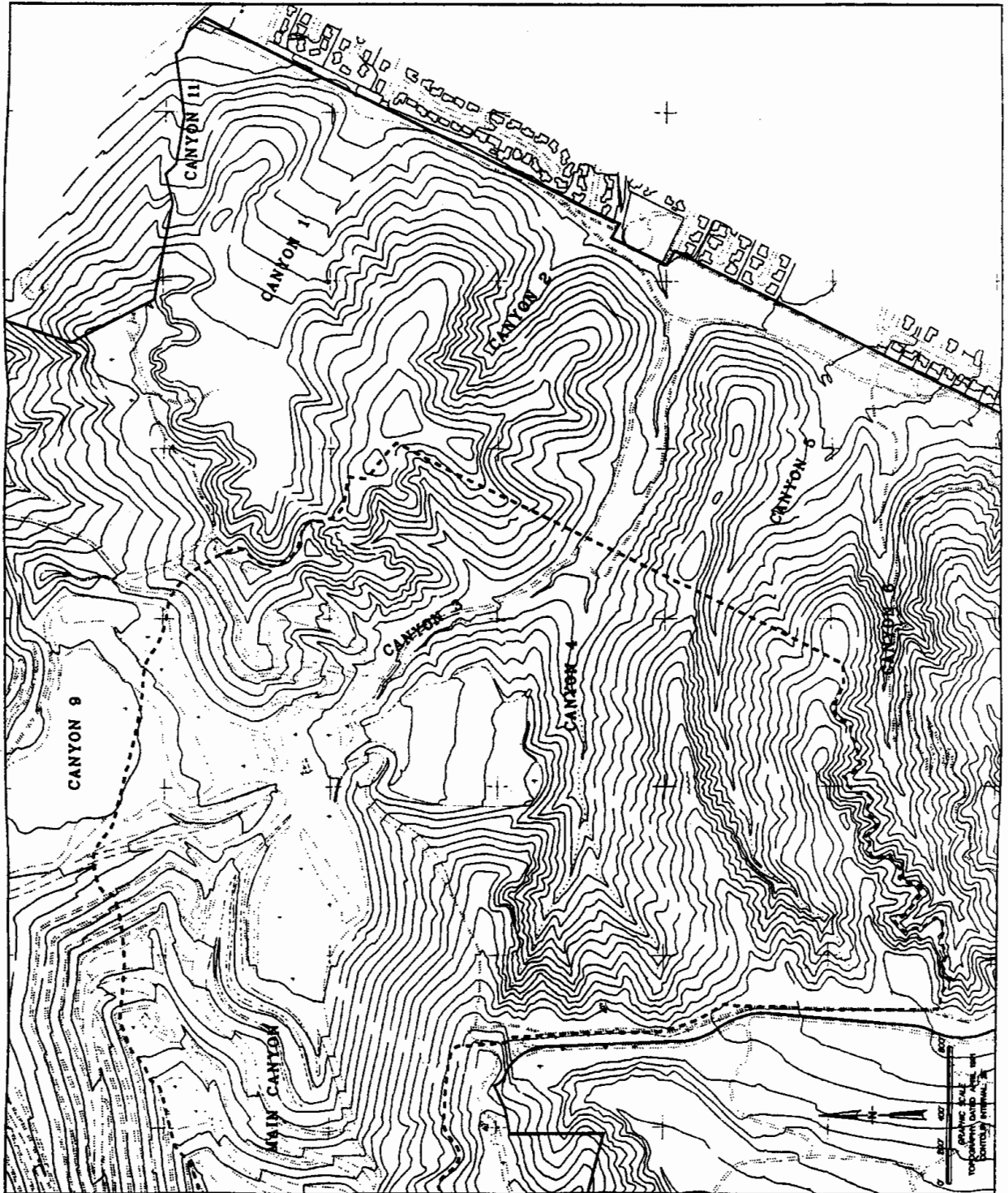
LEGEND

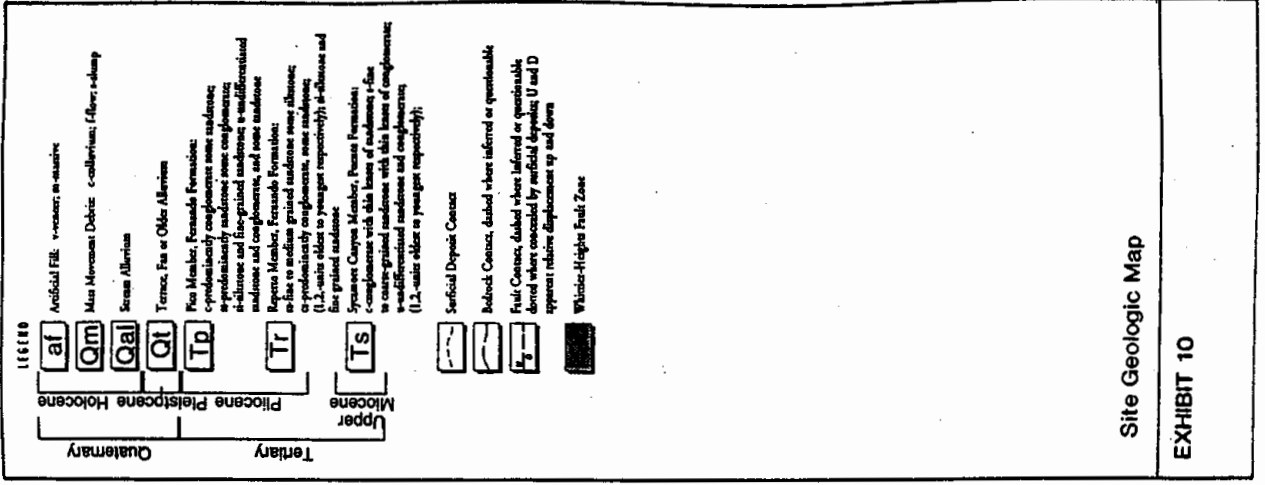
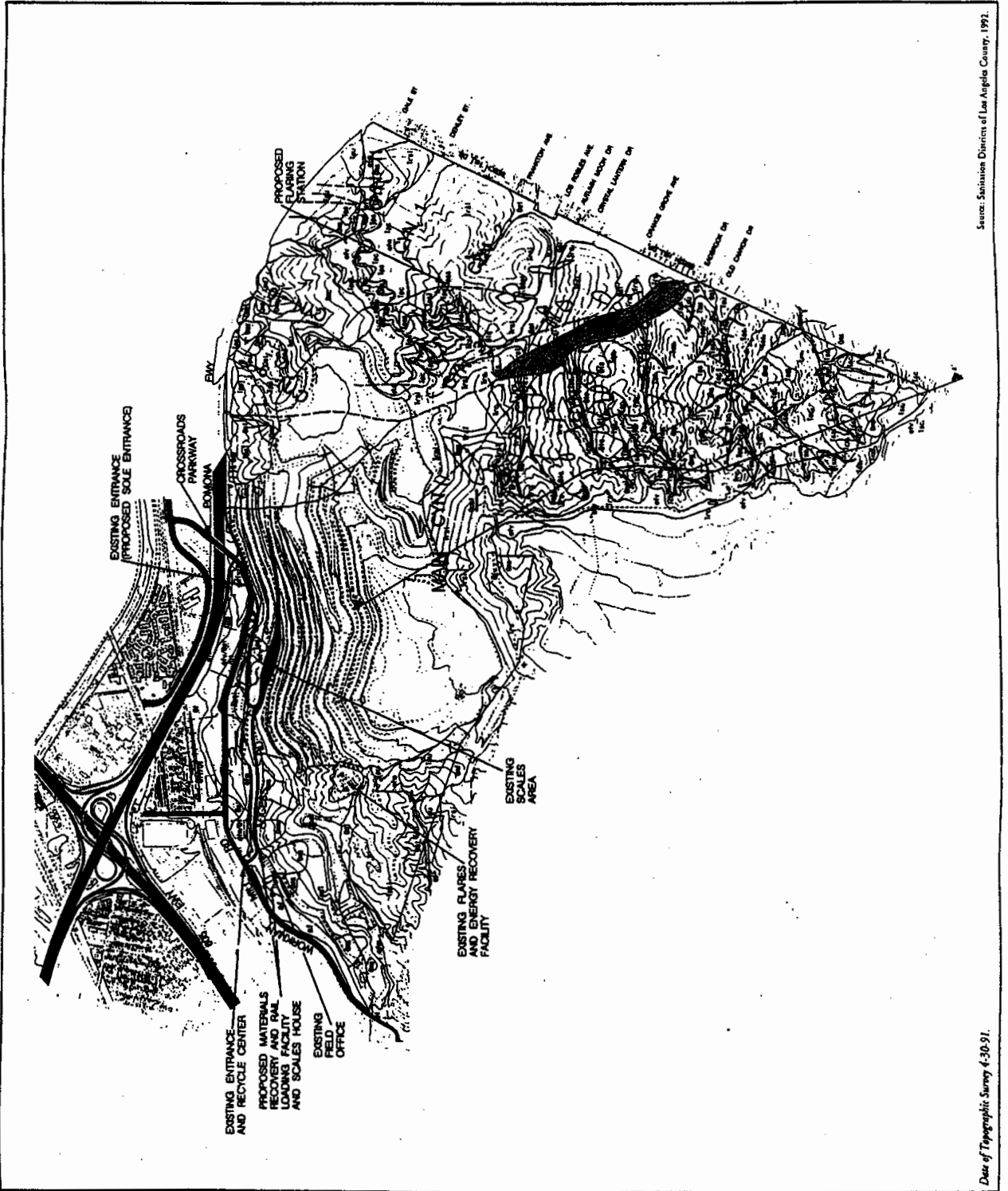
- PROPERTY LINE
- PERMITTED LANDFILL OPERATIONS AREA

EXHIBIT 9

EASTERN CANYONS TOPOGRAPHY
PRIOR TO EXCAVATION

PUEBLO HILLS LANDFILL
SANITATION DISTRICTS





Site Geologic Map

EXHIBIT 10

EXHIBIT 11
 [Illegible text]

JAMES A. MOORE

[Illegible title]

[Illegible text block containing various symbols and their descriptions]



bedrock have been excavated to provide a suitable foundation for the construction of the underdrain and composite liner containment systems: Narrow alluvial channels outside the landfill's footprint remain generally unaltered.

From oldest to youngest, the bedrock units found at the site consist of the Sycamore Canyon member of the Puente Formation, and the Repetto and Pico members of the Fernando Formation. The Sycamore Canyon member outcrops in the southern portion of the Eastern Canyons and includes three subunits which are designated as: lower conglomerate (Tsc₁), siltstone and claystone with minor sandstone interbeds (Tss), and upper conglomerate (Tsc₂). The Repetto member outcrops in the central portion of the Eastern Canyons and underlies the southern portions of Canyon 9 and the Main Canyon. The Repetto member includes three subunits: a lower conglomerate unit (Trc₁), a siltstone unit (Trsi), and an upper conglomerate unit (Trc₂). Within the Trsi subunit, there are two small subunits (Trss₁ and Trss₂) that have distinct sandstone beds. The Pico member occurs at the surface in the northern portion of the site and underlies landfill material in the northern portion of the Main Canyon and Canyon 9. Stratigraphically, the Pico Formation bedrock consists of, from top to bottom, five subunits: upper siltstone (Tpsi_u), undifferentiated conglomerate and sandstone (Tpu), lower siltstone (Tpsi_l), sandstone (Tps), and basal conglomerate (Tpc). A small block of Pico member sandstone has also been mapped in the central portion of the Eastern Canyons area within the Whittier Heights fault zone. The Pico member in the Eastern Canyons area, where exposed, has been mapped as an undifferentiated subunit.

Bedrock units have been displaced by the Whittier Heights fault zone that transects the eastern portion of the property and is the major structure feature of the site. The northwest-trending Whittier Heights Fault is a normal fault with the east side downthrown. Maximum vertical displacement on the fault is 3,800 feet. There has been no recent movement (within the last 11,000 years) on the fault within the site boundary. Secondary and apparently less continuous faulting is found elsewhere throughout the area on similar, generally north-south trends. As-built mapping in the northern portion of the Eastern Canyons demonstrates that the main strand of the Whittier Heights zone is a narrow trace of slickensided clay gouge where Repetto member siltstone is on both sides of the fault. This trace widens southward into several splays in the ridge between Canyons 4 and 5, where it apparently incorporates slivers of the Pico member of the Fernando Formation between juxtaposed upper and lower portions of the Repetto member of the Fernando Formation. Investigations performed by the Sanitation Districts' consultants indicate that portions of the Whittier Heights fault zone may impede groundwater flow in the expansion area.

2.2.4 Site Hydrogeology

Groundwater flow regimes at the site have been characterized by Levine Fricke (1994), Earth Tech (1995), ENVIRON Corporation (1996), IT Corporation (1996), Dames and Moore (1997), and IT Corporation (1998). Results obtained from these studies have been used to update the hydrogeologic description of the site previously contained in Geotechnical Consultants (1987) and LeRoy Crandall (1981). As mentioned earlier, although the groundwater system found at the Puente Hills Landfill can hardly be characterized as "aquifers" due to its low yield, the term "aquifer" is used in the following discussion to conform with the terminologies in Subtitle D and in Title 27, California Code of Regulations.

2.2.4.1 Main Canyon

A detailed discussion of the groundwater flow regime in the Main Canyon is included in *Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill, Whittier California* (ENVIRON Corporation, July 1996) and *Detection and Monitoring Programs for the Main Canyon at Puente Hills Landfill* (IT Corporation, March 1998). The following section summarizes the key findings of these reports.

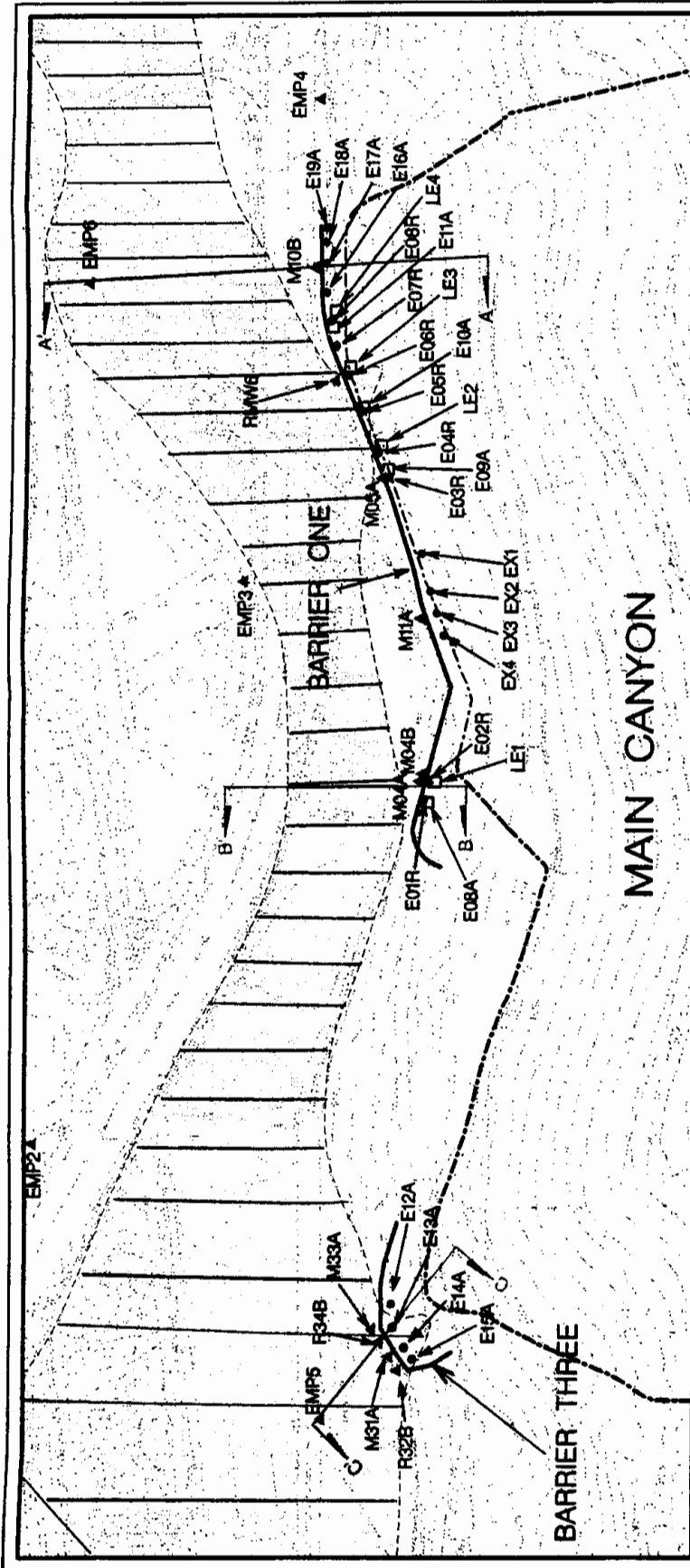
The Main Canyon portion of the Puente Hills Landfill consists of four original canyons that are oriented toward the north. The Sanitation Districts installed two cement bentonite subsurface barriers (Barriers 1 and 3) along the north site boundary to sever all historic drainage in the alluvium. Exhibit 8 shows the original topography of the Main Canyon and locations of Barriers 1 and 3. The area between Barriers 1 and 3 is a low permeability bedrock ridge and is therefore not a significant groundwater flow pathway.

Upgradient of each barrier, the Sanitation Districts have installed extraction wells to collect groundwater that builds up against the barriers. Extraction wells are designed to have overlapping zones of influence in areas where potential migration pathways have been identified and are operated to create hydraulic low points. Together, the passive barrier and active extraction wells form a groundwater containment feature that effectively controls any offsite migration of groundwater. Groundwater monitoring wells have been installed downgradient of Barriers 1 and 3 to monitor groundwater quality. Exhibit 12 shows the locations of groundwater extraction wells and monitoring wells downgradient of the Main Canyon at Barriers 1 and 3.

Barrier 1 was constructed in 1980. Currently, the Sanitation Districts operate a total of 16 extraction wells at Barrier 1. In 1998, eight of the original extraction wells were replaced with new wells to reduce maintenance and ensure optimal performance. Typically, the combined total production from these 16 wells is approximately 13 gallons per minute (gpm). The highest flow from a single well is usually about three (3) gpm. This relatively low yield is characteristic of the uppermost aquifer system within the Main Canyon. In comparison, a single production well in the San Gabriel Groundwater Basin typically yields between 700 to 2,500 gpm. Monitoring wells immediately downgradient of Barrier 1 include M04A, M04B, M05A, RMW6, M10B, and M11A.

Barrier 3 was constructed in 1993. Upgradient of Barrier 3 are four extraction wells that produce a combined total flow of approximately 13 gpm. Again, these wells are low yielding in comparison to the production wells in the San Gabriel Groundwater Basin. Four monitoring wells, M31A, R32B, M33A, and R34B are located immediately downgradient of Barrier 3.

In the Main Canyon area, the uppermost aquifer is usually in alluvium or weathered bedrock at Barriers 1 and 3 except for the eastern Barrier 1 area. In the eastern Barrier 1 area, the uppermost aquifer is in the undifferentiated conglomerate subunit (Tpu). Groundwater is present at greater depth below the uppermost aquifer in the Main Canyon, but there are no water quality concerns associated with this deeper groundwater. Water quality results obtained during the ENVIRON Corporation (1996) study showed that the deeper groundwater is not affected by the landfill. This is because the deeper groundwater is usually separated from the groundwater in the uppermost



APPROXIMATE LOCATION OF SATURATED ALLUVIUM GREATER THAN 10 FEET

SCALE
0 200 400 600

LEGEND:

- CROSS-SECTIONAL LINE
- LIMIT OF CURRENT FILL AREA: MAIN CANYON
- SUBSURFACE BARRIER
- PROPERTY LINE
- EXISTING EXTRACTION WELL
- EXISTING MONITORING WELL
- ABANDONED EXTRACTION WELL

EXHIBIT 12

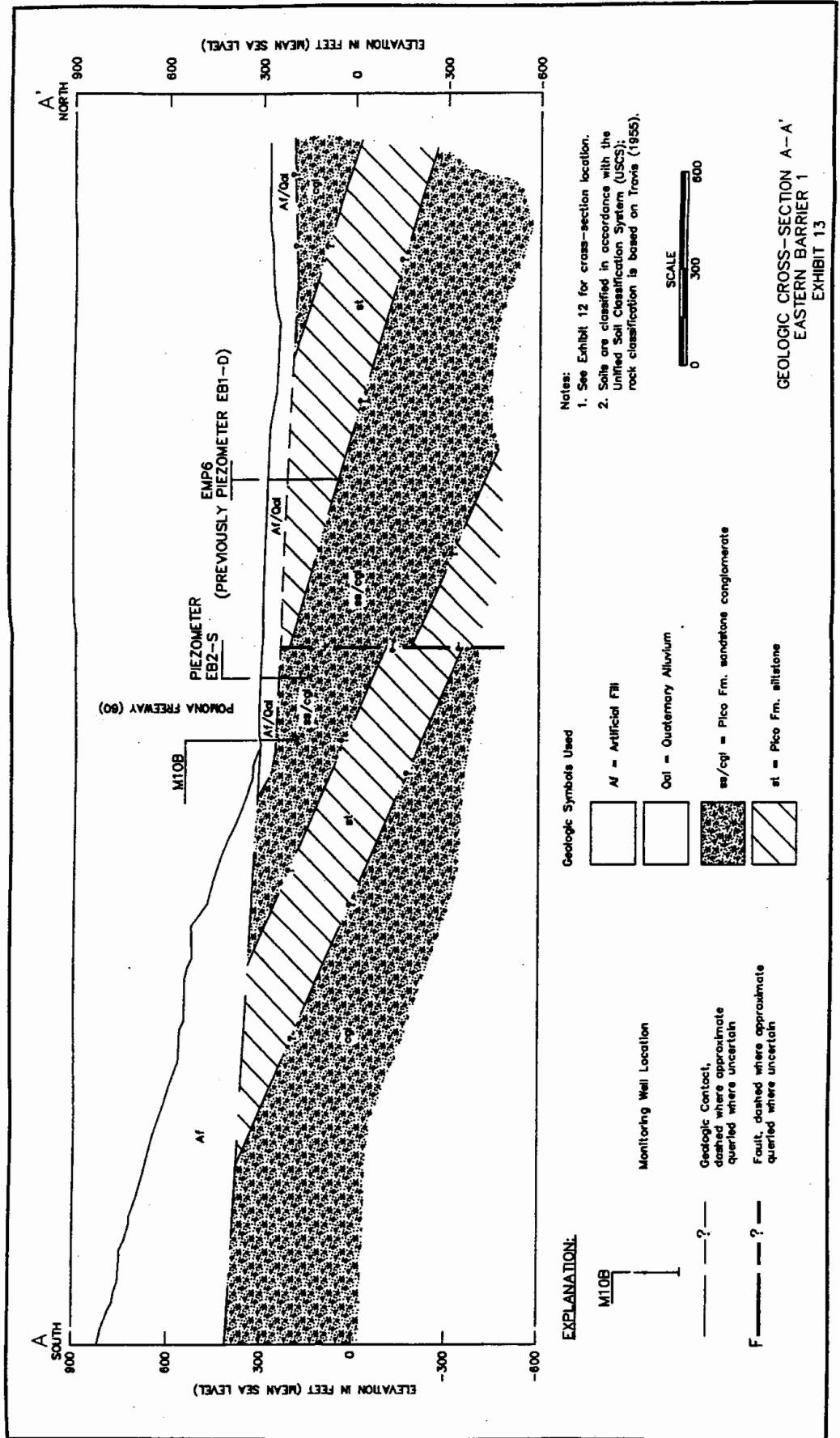
SUBSURFACE BARRIERS, EXTRACTION WELLS, AND MONITORING WELLS

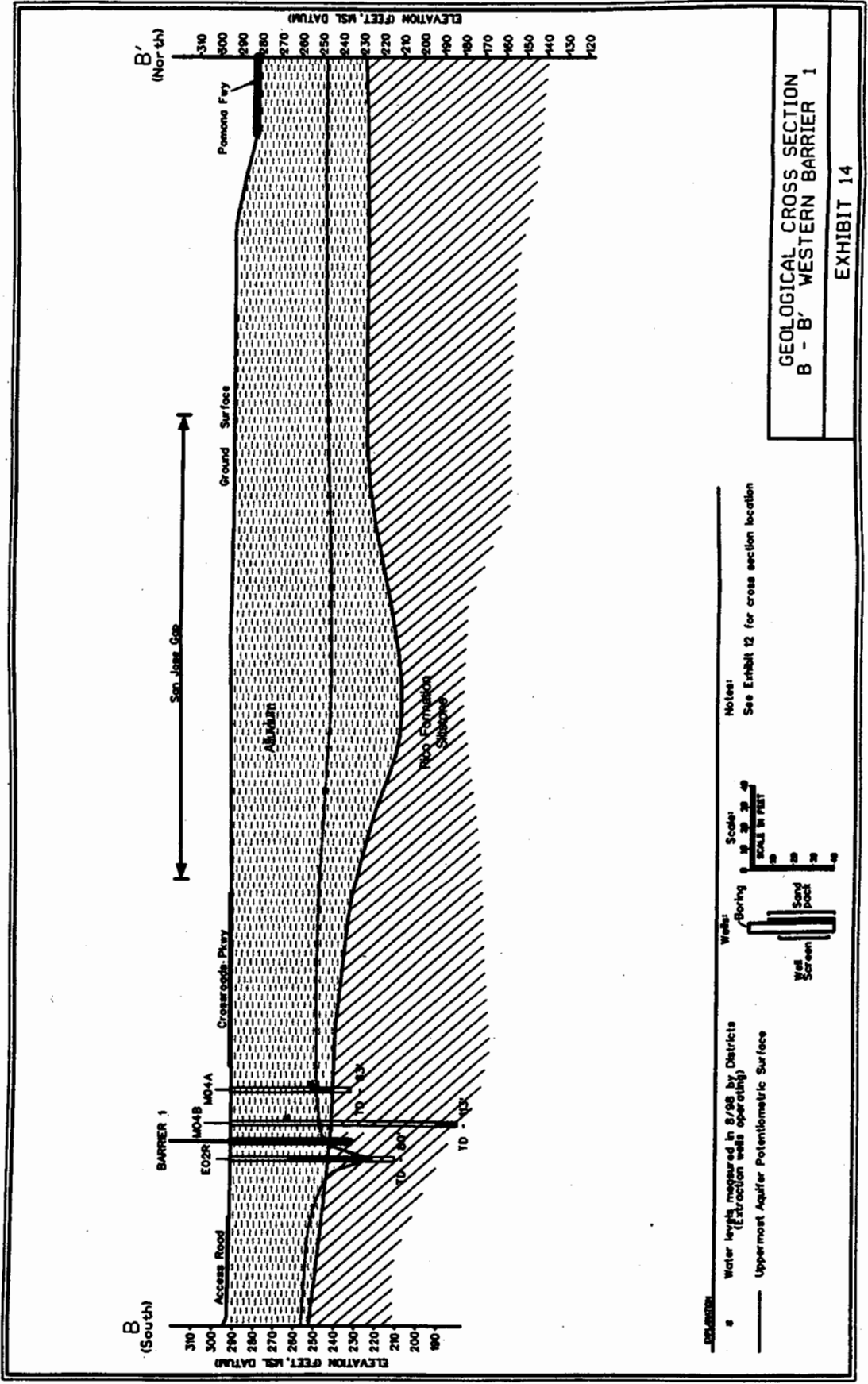
aquifer by low permeability Pico Formation siltstone. Therefore in the Main Canyon area, only groundwater in the uppermost aquifer, which is the closest to refuse, represents a water quality concern and needs to be contained and controlled.

The potentially important pathways for landfill affected groundwater in the uppermost aquifer to migrate offsite can be examined with three cross-sections constructed from the landfill to north. The three cross-sections, shown as Exhibits 13, 14, and 15, represent typical cross-sections through the eastern Barrier 1 area, western Barrier 1 area, and Barrier 3 area, respectively (refer to Exhibit 12). Between the eastern Barrier 1 and western Barrier 1 areas, there is not a significant uppermost aquifer (ENVIRON, 1996).

In the eastern Barrier 1 area, the uppermost aquifer occurs in sandstone and conglomerate of the undifferentiated subunit approximately 50 feet from ground surface. The hydraulic conductivity of the aquifer ranges from 1.1×10^{-4} to 1.8×10^{-3} centimeters per second (cm/sec). Transmissivity ranges from 857 to 5,400 gallons per day per foot (gpd/ft). This aquifer is confined below by the lower siltstone subunit (Tpsi) which was encountered at approximately 220 feet below ground surface. ENVIRON and IT Corporation both concluded from their studies that an upward hydraulic gradient exists in the uppermost aquifer, i.e., groundwater in the conglomerate unit tends to rise up to the overlying alluvium. As indicated in Exhibit 13, the alluvium represents a potential pathway for groundwater in the uppermost aquifer to migrate offsite into the San Jose Gap immediately north of the site. IT Corporation estimated, based on water elevation data and hydraulic conductivity of the alluvial materials in the historical stream bed, the velocity of this groundwater flow in the channel immediately north of eastern Barrier 1 ranges from 0.6 to 19 feet per year. As for the travel velocity of VOCs, IT Corporation estimated that it is less than one tenth the groundwater flow velocity. For example, IT Corporation estimated the travel velocity of TCE in the channel north of eastern Barrier 1 to range from 0.05 to 1.6 feet per year. The slower velocity of VOC movement than groundwater is because VOCs will be attenuated by natural processes such as adsorption by soil particles. Any landfill effect to groundwater in the San Jose Gap will be observed by monitoring well EMP5 which is located hydraulically downgradient of this area.

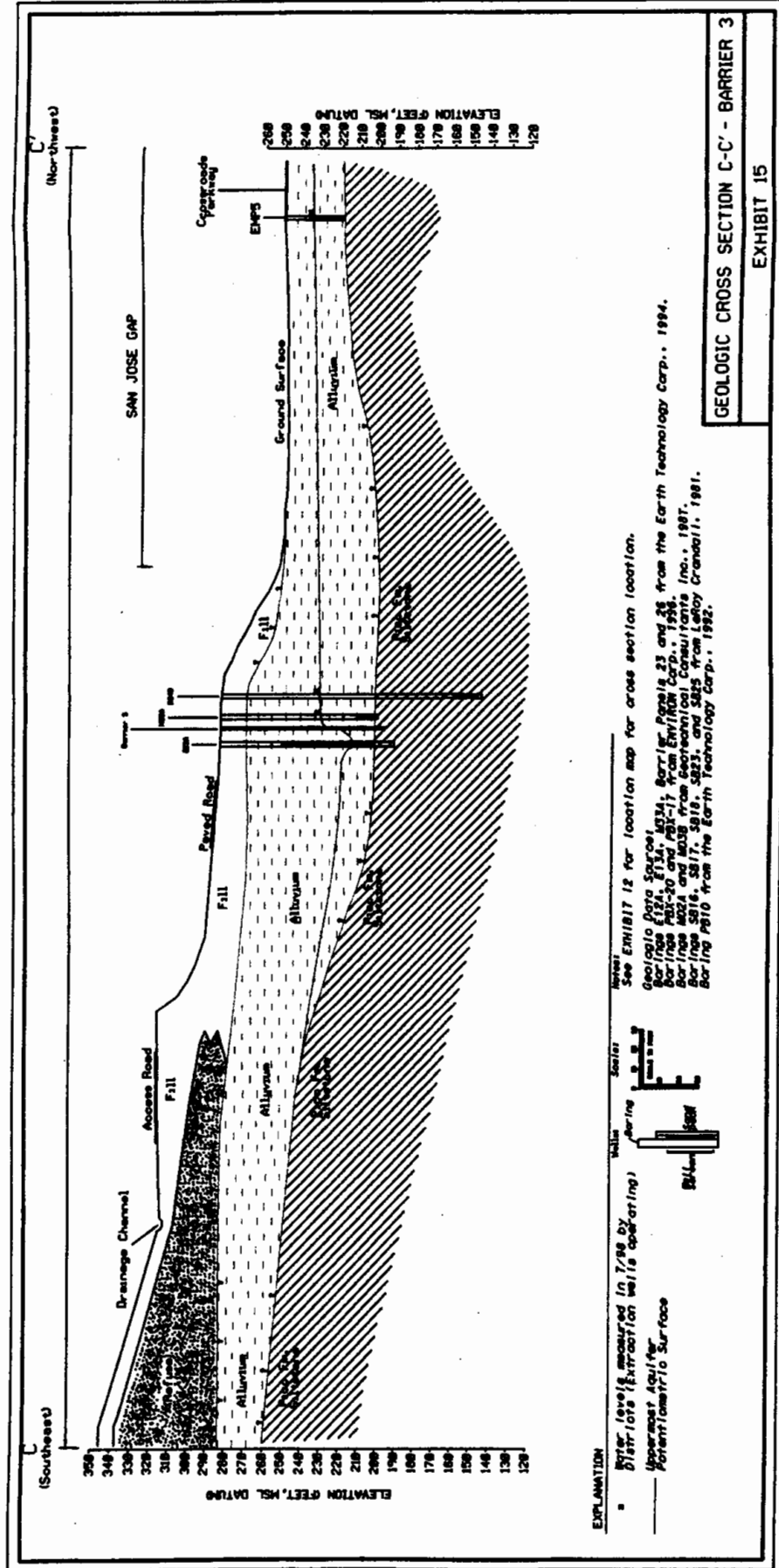
A second potential pathway for offsite groundwater migration in the eastern Barrier 1 area is through the conglomerate unit that dips toward the north. In this case groundwater may migrate offsite through the conglomerate/sandstone unit that dips to the north. The Sanitation Districts have been controlling this conglomerate/sandstone pathway by the operation of seven groundwater extraction wells (LE3, LE4, E11A, E16A, E17A, E18A, and E19A). As mentioned above, three of these extraction wells (LE3, LE4, and E11A) were replaced in the third quarter, 1998 by new extraction wells (E06R, E07R, and E08R) for maintenance reasons. Pumping test results (IT Corporation, 1997) indicated that operation of the extraction system creates hydraulic low points along eastern Barrier 1 and results in groundwater flow toward the landfill. Therefore, groundwater flow through this potential pathway has been adequately controlled.





**GEOLOGICAL CROSS SECTION
B - B' WESTERN BARRIER 1**

EXHIBIT 14



As part of the hydrogeologic study conducted for the Main Canyon area, IT Corporation installed two temporary piezometers EB2-S and EB1-D in 1997 to evaluate the groundwater in the conglomerate/sandstone subunits north of the site (refer to Exhibit 13 for the locations of EB2-S and EB1-D). Water quality data collected from these piezometers showed that there was no landfill effect at these locations (refer to the *Puente Hills Landfill Main Canyon Final Evaluation Monitoring Program* report submitted to the RWQCB on September 1998). Because of its close proximity to the Pomona Freeway and associated traffic related concerns, piezometer EB2-S had to be abandoned in October 1997. The Sanitation Districts established piezometer EB1-D as a permanent evaluation monitoring well to monitor any potential landfill effect to groundwater that migrates offsite north of the Barrier 1 area through the conglomerate/sandstone subunits. Piezometer EB1-D was renamed monitoring well EMP6, and the groundwater monitoring of EMP6 began in the fourth quarter of 1998.

Exhibit 14 represents a north-south cross-section in the western Barrier 1 area where the upper siltstone subunit (Tpsi_u) underlies alluvium and fill. The uppermost aquifer, approximately 40 feet from ground surface, occurs in alluvium and weathered siltstone under unconfined conditions. The mean hydraulic conductivity for the water bearing material is 6.3×10^{-4} (cm/sec) and the average transmissivity is approximately 500 gpd/ft. The uppermost aquifer is confined below by unweathered siltstone which acts as an aquitard to groundwater flow. The hydraulic conductivity of the unweathered siltstone is on the order of 10^{-7} cm/sec. As shown in this cross-section, Barrier 1, with a hydraulic conductivity value less than 10^{-6} cm/sec, was constructed into the unweathered siltstone to retard groundwater flow in the uppermost aquifer. Extraction wells LE1 and E08A were installed upgradient of the barrier to collect groundwater that may be affected by the landfill. As previously mentioned, these extraction wells were replaced in 1998 by two new extraction wells, E01R and E02R. Based on pumping test results conducted in 1995, ENVIRON concluded the barrier and extraction system are effective in controlling offsite migration of landfill affected groundwater.

Groundwater downgradient of Barrier 1 is connected to the alluvial groundwater system in the historical San Jose Creek stream bed, as shown in Exhibit 14. Groundwater in this portion of the stream bed continues to move westerly towards Whittier Narrows at an estimated velocity of 1.4 to 67 feet per year. The corresponding travel velocity for TCE was estimated by IT Corporation to range from 0.12 to 5.6 feet per year. Any landfill effect to groundwater quality from this area is observed by monitoring well EMP5 which is located hydraulically downgradient.

Exhibit 15 is a cross-section through the Barrier 3 area. The uppermost aquifer at Barrier 3 occurs in the sand and silty sand alluvium under confined conditions. The uppermost aquifer is approximately 50 feet from ground surface and has a mean hydraulic conductivity of 7.7×10^{-3} cm/sec. It is confined above by alluvial silts and clays and below by Pico Formation siltstone (Tpsi_u). Tests conducted by ENVIRON show the hydraulic conductivity values for both of these materials are very low (in the 10^{-6} cm/sec range). Pumping tests conducted by ENVIRON showed that the barrier and groundwater extraction system are effective in controlling landfill affected groundwater from migrating offsite.

Similar to western Barrier 1, groundwater downgradient of Barrier 3 is connected to the alluvial system in the historical San Jose Creek stream bed which continues to move towards Whittier Narrows to the west. In this portion of the channel, IT Corporation estimated the groundwater flow velocity ranges from 8.1 to 81 feet per year. The travel velocity for TCE was estimated to range from 0.68 to 6.8 feet per year. Any landfill effect to groundwater quality from this area is observed by monitoring well EMP5 which is located hydraulically downgradient.

2.2.4.2 Canyon 9

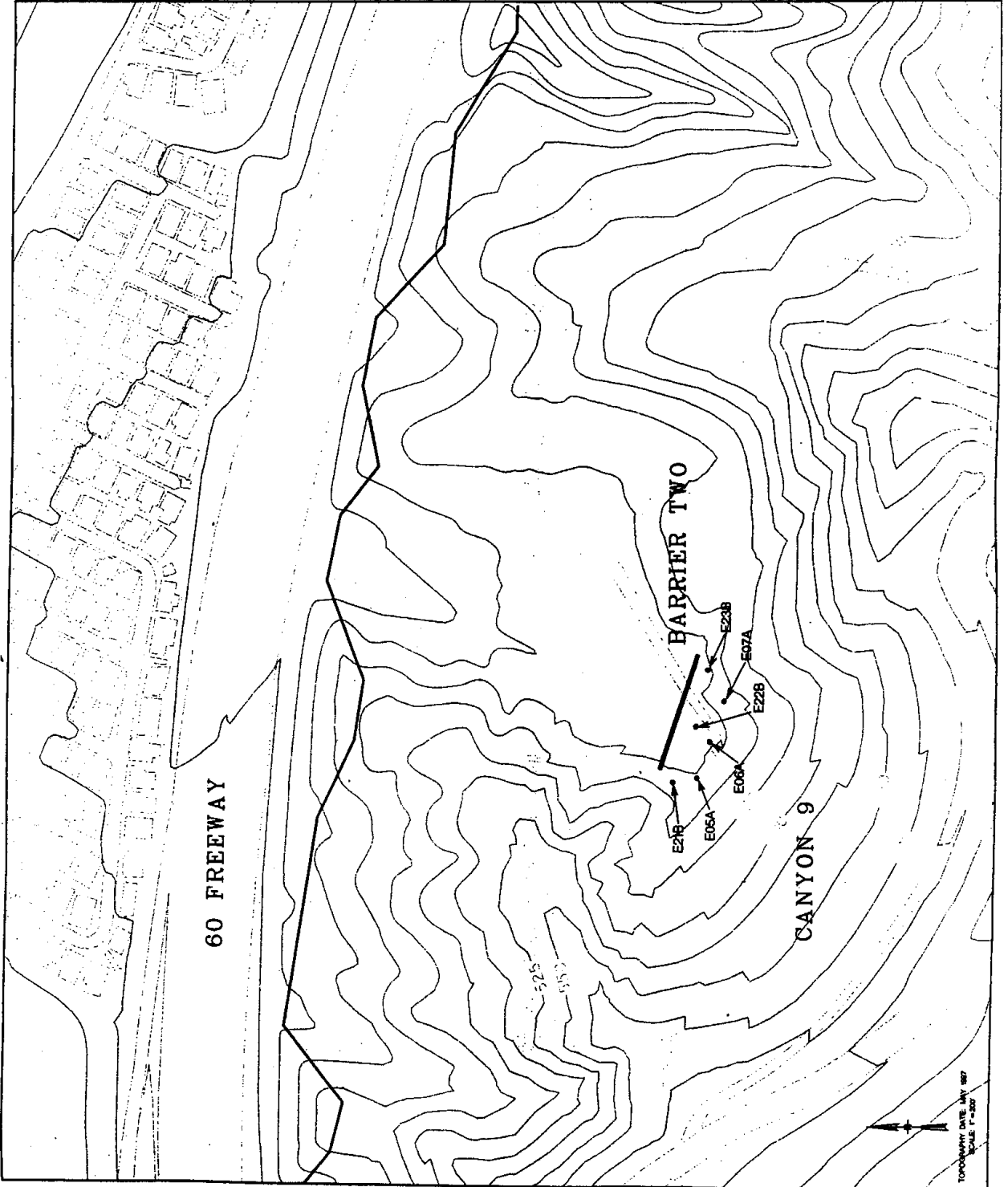
A detailed discussion of the groundwater flow regime for Canyon 9 is included in *Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill, Whittier California* (ENVIRON Corporation, July 1996). Alluvial materials that formed in the original Canyon 9 area have the potential for groundwater outflow (see Exhibit 8 for topography prior to excavation). Although no significant alluvial groundwater occurs in the Canyon 9 area, Barrier 2 was installed to sever potential alluvial flow in the historic drainage in this area. Barrier 2 is equipped with six groundwater extraction wells to remove water from behind the barrier. Exhibit 16 shows the location of Barrier 2 and the extraction wells upgradient of this barrier.

The Canyon 9 area is underlain by unconsolidated fill, alluvium, and Pico Formation siltstone, sandstone, and conglomerate. The uppermost aquifer occurs in sandstone and conglomeratic sandstone units under confined or semiconfined conditions. The groundwater flow direction in Canyon 9 is toward the northeast. The uppermost aquifer has a mean hydraulic conductivity of 1.9×10^{-4} cm/sec and an average transmissivity of 60 gpd/ft. The uppermost aquifer is confined above and below by Pico Formation siltstone, which acts as an aquitard to groundwater flow in this area. The Pico Formation siltstone has a hydraulic conductivity less than 4.9×10^{-6} cm/sec.

2.2.4.3 Eastern Canyons Area

During 1996, Dames & Moore conducted an extensive hydrogeologic study in the Eastern Canyons area. This study determined that, in general, groundwater encountered in the Eastern Canyons area flows in a pattern which mimics surface topography. Water level elevation data collected for this area fit this pattern, which shows groundwater flowing from ridges towards canyons. Thus, most rainfall which infiltrates to the bedrock across the Eastern Canyons will subsequently flow toward and discharge to canyon alluvium. Some groundwater may flow toward canyons but remain within bedrock units beneath canyon alluvium as it flows downgradient.

As described earlier, a number of canyons existed in the Eastern Canyons area prior to grading modifications and landfill development (Exhibit 9). Before landfilling activities commenced in Canyons 3 and 4, the Sanitation Districts installed subsurface Barrier 4 to control alluvial groundwater flow. Barrier 4 is equipped with three groundwater extraction wells that remove water from behind the barrier. As landfill development proceeds to the south, subsurface Barrier 5 was installed in 1998 to control potential alluvial groundwater flow in Canyon 5. Exhibit 17 shows the locations of Barrier 4 and Barrier 5.



LEGEND




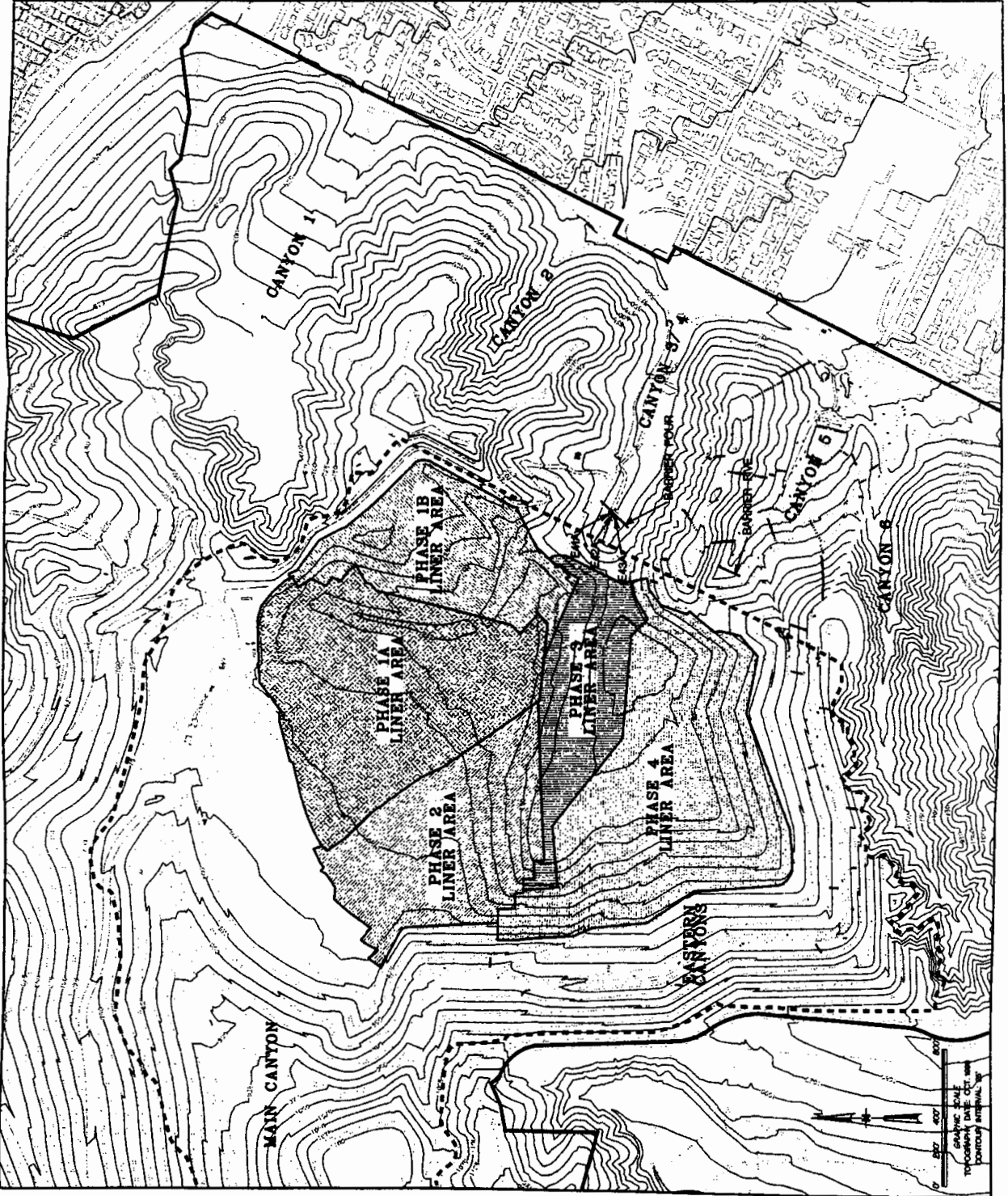
-  PROPERTY LINE
-  EXISTING SUBSURFACE BARRIER
-  MONITORING WELL

EXHIBIT 16

**CANYON 9
EXISTING SUBSURFACE BARRIER
AND EXTRACTION WELL SYSTEM**

PUENTE HILLS, LANDELL
SANITATION DISTRICTS

TOPOGRAPHY DATE: MAY 1987
SCALE: 1"=200'



LEGEND




-  PROPERTY LINE
-  PERMITTED LANDFILL OPERATION AREA
-  EXTRACTION WELL

EXHIBIT 17

**EASTERN CANYONS LANDFILL AREA
EXISTING SUBSURFACE BARRIERS
AND EXTRACTION WELL SYSTEMS**

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

Barrier 4

Levine-Fricke (1994) and Earth Tech (1995) determined that this area is underlain by artificial fill, alluvium, and bedrock of the Repetto member of the Fernando Formation. The Repetto member of the Fernando Formation consists predominantly of siltstone. The uppermost aquifer occurs in alluvium and weathered bedrock under unconfined conditions. The thickness of the alluvium at the confluence of Canyons 3 and 4 near Barrier 4 is approximately 40 feet. The depth of the weathered bedrock near Barrier 4 ranges from 4 to 22 feet. Levine-Fricke and Earth Tech have obtained values of hydraulic conductivity for the alluvium and weathered bedrock in Canyons 3 and 4 based on slug tests and pumping tests. Based on slug test results, these values vary from approximately 10^{-3} to 10^{-6} cm/sec with a geometric mean value of 4×10^{-4} cm/sec. If only the pumping test data are used, which are usually more reliable than slug test data to represent the characteristics of the water bearing zones, the geometric mean value of hydraulic conductivity for the Canyons 3 and 4 alluvium/weathered bedrock is 3.6×10^{-3} cm/sec. The geometric mean of the combined slug and pumping test data for alluvium/weathered bedrock in Canyons 3 and 4 is 1.3×10^{-3} cm/sec. The alluvium/weathered bedrock near Barrier 4 is underlain by Repetto member siltstone. Slug testing results indicate that the Repetto member siltstone has a geometric mean hydraulic conductivity of 1.5×10^{-6} cm/sec.

Barrier 5

IT Corporation (1996) determined that this area is underlain by alluvium, landslide deposits, and Sycamore Canyon member sandstone and siltstone. The uppermost aquifer occurred under unconfined conditions within the landslide deposits and the weathered horizon of the Sycamore Canyon bedrock underlying the alluvium. In the vicinity of Barrier 5, the alluvium and landslide deposits are approximately 20 feet thick. The depth of weathered bedrock in this area ranges from 25 to 40 feet. IT Corporation, Geotechnical Consultants, Inc., and Hazen (1994) have obtained values of hydraulic conductivity for the alluvium and weathered bedrock in Canyons 5. The hydraulic conductivity for Canyon 5 alluvium is only available from one well screened in silty clay and located near the mouth of the canyon. The relatively low value of 1.7×10^{-6} cm/sec reported for one slug test may not be representative for alluvium overall. Due to the limited saturated thickness in Canyon 5 alluvium, it is not feasible to perform aquifer testing of the alluvium near Barrier 5. Therefore, most hydraulic conductivity data for Canyon 5 are representative of underlying weathered bedrock. The geometric mean value for slug and pumping tests in the weathered bedrock is 4.7×10^{-5} cm/sec. The alluvium/weathered bedrock near Barrier 5 is underlain by Sycamore Canyon member sandstone and siltstone. Slug testing results indicate that the Sycamore Canyon member sandstone and siltstone has a geometric mean hydraulic conductivity of 4.8×10^{-6} cm/sec.

2.3 WATER QUALITY PROTECTION SYSTEMS

The water quality protection systems currently in place at the Puente Hills Landfill include five cement bentonite subsurface barrier and groundwater extraction systems, and two composite liner systems. The purpose for the water quality protection systems is to mitigate the potential for any landfill affected groundwater to migrate offsite. The water protection systems for each of the landfill areas are discussed below.

Main Canyon

The groundwater protection systems currently installed at the Main Canyon include Barriers 1 and 3 and their corresponding extraction systems. The locations of the subsurface barriers is shown in Exhibit 12. Subsurface Barrier 1 was installed in 1980 by Bencor Corporation of America. The Sanitation Districts commissioned LeRoy Crandall and Associates to develop design depths for the barrier system and to perform third party construction quality assurance (CQA) for the installation of the barrier. The barrier was designed and installed into bedrock to cut off alluvial pathways which could serve as a potential conduit for migration from the landfill. The design hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. A total of sixteen extraction wells have been installed to remove canyon water that collects upgradient of Barrier 1. The design and construction of Barrier 1 was approved by the RWQCB and the State Water Resources Control Board under a Federal Clean Water Grant. In 1998, eight of the original Barrier 1 extraction wells were replaced with new wells to reduce maintenance and ensure optimal performance.

Subsurface Barrier 3 was installed in 1993 by Foster Wheeler Environmental Services. The Sanitation Districts retained the Earth Technology Corporation to perform third party construction quality assurance for the installation of the barrier. The barrier was installed at least five feet into unweathered bedrock to cut off potential alluvial and weathered bedrock pathways. The hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. Barrier 3 is equipped with four extraction wells to remove water that collects upgradient of the barrier.

Canyon 9

The groundwater protection systems currently installed at Canyon 9 include Barrier 2 with its corresponding extraction system and a composite liner system. The locations of the subsurface barrier is shown in Exhibit 16. Subsurface Barrier 2 was installed in 1988 by Case International. The Sanitation Districts commissioned Geofon Incorporated to perform third party construction quality assurance for the barrier installation. The barrier was designed and installed at least five feet into unweathered bedrock to cut off potential alluvial and weathered bedrock pathways. Six extraction wells have been installed upgradient of Barrier 2. Three of the extraction wells are screened in the alluvium and have observed no water since installation in 1988. The other three extraction wells are screened in the bedrock formation. These bedrock extraction wells were installed in August of 1998, and groundwater extraction from the wells began in October 1998.

A composite liner system was installed in the Canyon 9 area in 1989 and 1990 prior to refuse placement in Canyon 9. The Canyon 9 composite liner system consists of the following components: subdrain, clay liner (minimum one foot thick with a hydraulic conductivity of less than 1×10^{-6} cm/sec), synthetic liner (80 mil high density polyethylene), liquid collection and removal system (LCRS), geotextile filter, and protective soil layer. These components, together, effectively prevent landfill affected liquid from entering the underlying strata. All components of the Canyon 9 composite liner system were subjected to rigorous quality assurance tests to ensure that all materials used met the design criteria and specifications.

Eastern Canyons

The groundwater protection systems currently installed at the Eastern Canyons include Barrier 4 and its corresponding extraction system, Barrier 5, and a composite liner system. The locations of these systems are shown in Exhibit 17. Subsurface Barrier 4 was installed in 1995 by Clarke Contracting Corporation. The Sanitation Districts commissioned Earth Tech, Inc. to perform geologic observation and construction quality assurance services for the installation of the barrier. The barrier was designed and installed at least five feet into unweathered bedrock to cut off potential alluvial and weathered bedrock pathways. Barrier 4 is equipped with three extraction wells to remove water that collects upgradient the barrier.

Subsurface Barrier 5 was installed in late 1998 by Wiley Construction Company. The Sanitation Districts commissioned Knollwood Associates to perform geologic observation and construction quality assurance services for the installation of the barrier. The barrier was designed and installed at least five feet into unweathered bedrock to cut off potential alluvial and weathered bedrock pathways. No groundwater has been observed in the alluvium. The installation of one extraction well screened in both alluvium and bedrock upgradient of Barrier 5 is scheduled to be completed in early 1999.

The composite liner system for the Eastern Canyons area is being installed in phases. The existing liner areas for the Eastern Canyons area are shown in Exhibit 17 and include Phase 1A, Phase 1B, Phase 2, Phase 3, and Phase 4. The installation of the Phase 4 liner was completed in 1998. The design specifications for the Eastern Canyons composite liner system exceed the Subtitle D requirements described in RWQCB Order No. 93-062. The Eastern Canyons composite liner system consists of the following components: subdrain, clay liner (minimum two foot thick with a hydraulic conductivity of less than 1×10^{-7} cm/sec), synthetic liner (80 mil high density polyethylene), LCRS, geotextile filter, and protective soil layer. The design specifications for each phase of the liner system were approved by the RWQCB prior to construction. The construction quality assurance for each phase of the liner system was performed by an independent consultant. The RWQCB inspected and approved each liner system before waste placement.

3.0 COMPLIANCE RECORD

RWQCB Order No. 93-062, §13(B)(2)(c) requires a comprehensive discussion of the compliance record, and of any corrective actions taken or planned which may be needed to bring the discharger into full compliance with the landfill's waste discharge requirements. As discussed in Section 1.0, operations at the Puente Hills Landfill follow the conditions specified in various waste discharge requirements and monitoring and reporting programs issued by the RWQCB. In 1998, the Sanitation Districts were in full compliance with these conditions. This section discusses the Sanitation Districts' compliance with these operating conditions.

The requirements in various permits issued by the RWQCB that are applicable to the operations of the Puente Hills Landfill during 1998 can be summarized into three major categories: landfill operations, water quality monitoring and response program, and containment systems. The Sanitation Districts' compliance with these conditions in 1998 is discussed below:

3.1 LANDFILL OPERATIONS

During 1998, the Puente Hills Landfill accepted nonhazardous solid wastes, inert solid wastes, biosolids, water treatment sludge, and treated municipal solid waste incinerator ash. The site did not accept any of the unacceptable wastes specified in WDR Order Nos. 90-046, 91-035, or 93-070. The minimum solids-to-liquids ratio of 5:1 by weight, as specified in the WDRs, was always maintained in 1998. In fact, the typical solids-to-liquids ratio at the Puente Hills Landfill during 1998 was over 85:1.

Landfill gas condensate is collected at the Puente Hills Landfill, treated, and discharged to the sewer system pursuant to an industrial waste discharge permit for the site. Liquid collected from the Canyon 9 LCRS and the Eastern Canyons LCRS is also discharged to the sewer system pursuant to the permit. In 1998, the quality of the discharged wastewater met the discharge requirements specified in the permit. No LCRS liquid or condensate was reused on site in 1998.

Extracted groundwater is collected from underdrain systems installed beneath the Canyon 9 and Eastern Canyons protection liner systems and from groundwater extraction wells located upgradient of Subsurface Barriers 1, 2, 3, and 4. The underdrains are installed at least five feet below the liner to prevent groundwater from rising up to the liner. The Eastern Canyons underdrain also includes horizontal drains located along the slopes of the landfill under the liner. The horizontal drains are used to dewater the cut slopes to ensure stability. The groundwater from the Eastern Canyons underdrain and Barrier 4 extraction system is either used for dust control (no treatment required) or discharged to the sanitary sewer. In 1998, the reused water met the onsite water reuse requirements specified in Provision E of WDR Order No. 93-070. The groundwater from the Canyon 9 underdrain and Barriers 1, 2, and 3 extraction systems was discharged to the sewer system. In 1998, the quality of any discharged groundwater to the sewer system met the discharge requirements specified in the industrial waste discharge permit.

The Sanitation Districts operate the Puente Hills Landfill in accordance with all other requirements for disposal site operations set forth in WDR Order Nos. 90-046, 91-035, and 93-070. A periodic waste-load checking program has been implemented at the landfill to ensure that unauthorized hazardous materials are not disposed of at the landfill. The Sanitation Districts adequately cover all waste at the end of each operating day. The County of Los Angeles Department of Health Services conducts a solid waste facility inspection of the Puente Hills Landfill on a monthly basis. The California Integrated Waste Management Board and the RWQCB also conduct periodic inspections of the site. All Federal, State, County and City sanitary health codes, rules, regulations, and ordinances pertinent to the disposal of wastes at the landfill are complied with in the operation and maintenance of the landfill.

Surface water drainage controls are installed at the landfill to adequately divert rainfall runoff away from the site to prevent ponding over the waste-filled areas of the landfill and control the potential for cover erosion. Any surface water that leaves the site is permitted by a National Pollutant Discharge Elimination System (NPDES) permit. Pursuant to the NPDES, a Storm Water Pollution Prevention Plan (SWPPP) was developed to prevent surface water runoff from being affected from industrial activities at the site such as earth moving, refuse disposal, equipment maintenance, storage of chemicals, fuels, and recovered hazardous materials, operation and maintenance of various environmental control systems, and energy facility operations. The SWPPP includes a description of surface water and flow control facilities, storage and use of industrial materials, best management practices to protect surface water quality, a storm water runoff monitoring program, and a list of the personnel responsible for implementing the SWPPP.

3.2 WATER QUALITY MONITORING AND RESPONSE PROGRAM

The Sanitation Districts submitted *Puente Hills Landfill Water Quality Monitoring System Report for Compliance with RWQCB Order No. 93-062* (herein referred to as the Subtitle D Report) to the RWQCB on August 9, 1994. This report includes a complete water quality monitoring program for the Puente Hills Landfill. It presents, for both groundwater and surface water monitoring, the detection monitoring systems, monitoring parameters, constituents of concern, monitoring and reporting frequency, sampling and analysis plans (including both field and laboratory quality assurance and quality control program), statistical methods for data analysis, and concentration limits developed for all monitoring parameters and constituents of concern (if available data allowed the calculations of these limits). The water quality monitoring program was amended based on the Sanitation Districts' discussion with the RWQCB staff on November 7, 1994. Two letters dated November 21, 1994 (one on Laboratory Analyses and Reporting of Water Quality and Ash Sampling Results, the other on Water Quality Monitoring and Reporting Program) documented the meeting discussion. The Sanitation Districts have been implementing the program described in the Subtitle D Report since the fourth quarter of 1994 for the Main Canyon and Canyon 9 areas of the Puente Hills Landfill. Quarterly monitoring reports were submitted to the RWQCB in 1998 to present detailed water quality monitoring activities and monitoring results at the Puente Hills Landfill. Each quarterly report includes waste disposal information, results from the waste load checking programs, sludge and treated ash analysis results, descriptions of water and

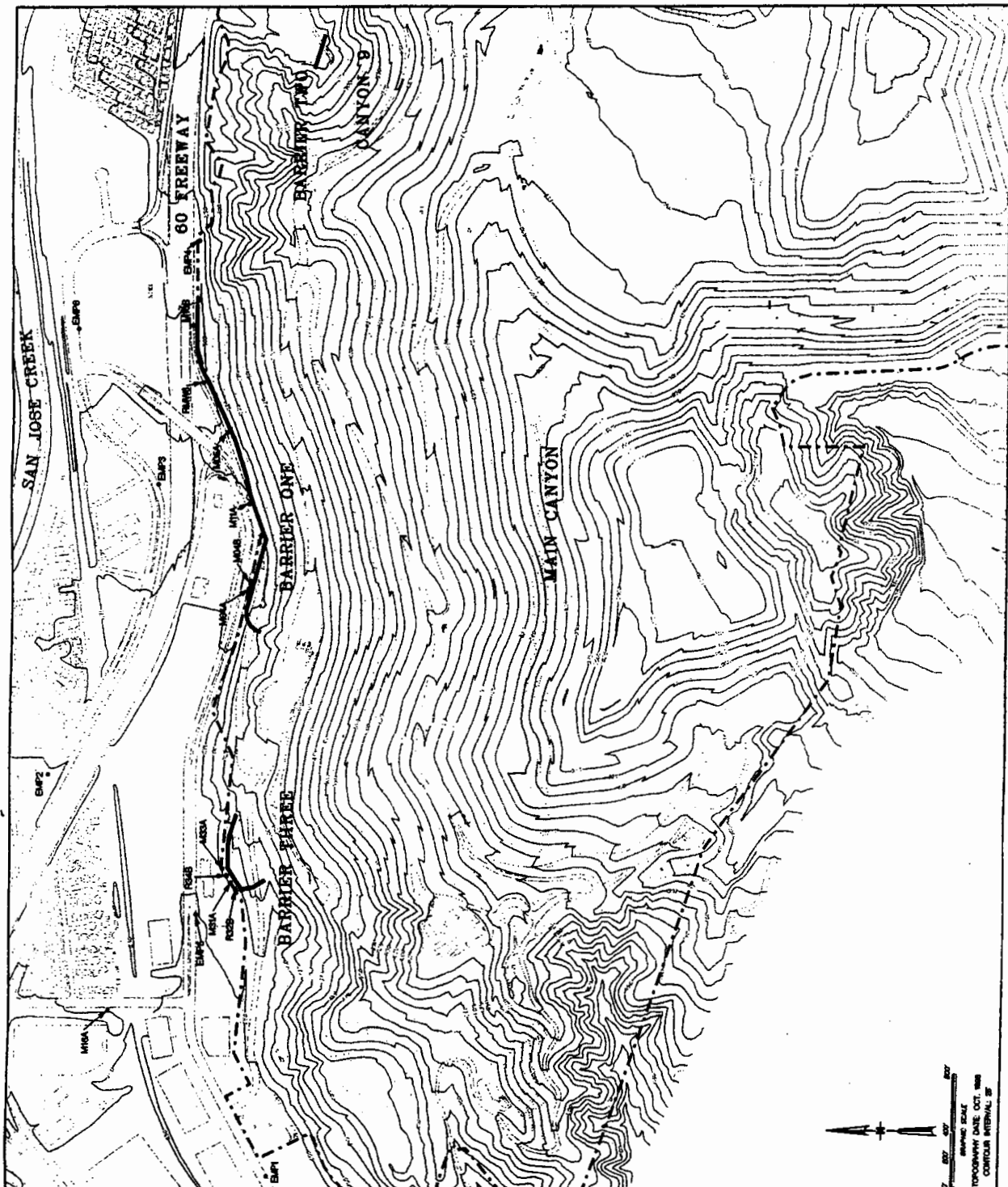
wastewater management, groundwater monitoring data including sampling information, surface water monitoring data, if any, and a discussion of water quality monitoring results. Also included in the report as an appendix are all laboratory analysis results and quality assurance/quality control information required by Order No. 93-062, § 13(A).

Main Canyon

For the Main Canyon area of the landfill, there have been several modifications to the water quality monitoring program since 1994 as a result of volatile organic compound (VOC) detections in groundwater downgradient of Barriers 1 and 3. The Sanitation Districts submitted *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program* to the RWQCB on November 15, 1996. The report proposed revised groundwater detection and evaluation monitoring programs for the Main Canyon and Canyon 9, as required by the State Water Resources Control Board's Order No. WQ 96-10. For the Main Canyon area, the Sanitation Districts proposed an evaluation monitoring system that included seven existing monitoring wells (RMW6, M31A, R32B, M33A, R34B, EMP5 and M16A) and nine new monitoring wells (M04A, M04B, M05A, M10B, M11A, EMP1, EMP2, EMP3, and EMP4). The locations of the monitoring wells for the Main Canyon are shown in Exhibit 18. The RWQCB approved the evaluation monitoring program for the Main Canyon and the installation of the proposed new monitoring wells on December 30, 1996. During the third quarter of 1997, the Sanitation Districts installed new monitoring wells M04A, M04B, M05A, M10B, M11A, EMP1, EMP2, EMP3, and EMP4. Routine monitoring of these new wells began in the third quarter of 1997. Details about the installation of the new monitoring wells are included in *Detection and Evaluation Monitoring Programs for the Main Canyon at Puente Hills Landfill* (IT Corporation, March 1998) submitted to the RWQCB on April 10, 1998.

On September 30, 1998, the Sanitation Districts submitted *Puente Hills Landfill Main Canyon Final Evaluation Monitoring Program* to the RWQCB. This report was prepared to update the evaluation monitoring program based on the results obtained from the monitoring wells and piezometers installed by IT Corporation. This report included a detailed discussion of the regional and site geology and hydrogeology at and near the Puente Hills Landfill Main Canyon and of the nature and extent of VOCs in the groundwater. It also presented the final evaluation monitoring program (EMP) proposed for the Main Canyon. The proposed final EMP kept all of the existing monitoring wells except for M16A (because M16A was found to be affected by contamination from the San Gabriel Groundwater Basin) and added one additional monitoring well, EMP6. The locations of these monitoring wells are shown in Exhibit 18. The RWQCB approved the final EMP on October 7, 1998; and the Sanitation Districts began implementing the final EMP in the fourth quarter of 1998.

After the final EMP was approved, the Sanitation Districts prepared the *Puente Hills Landfill Main Canyon Draft Engineering Feasibility Study and Amended Report of Waste Discharge for Corrective Action Program* report in December 1998 pursuant to Title 27, California Code of Regulation. The proposed Corrective Action Program (CAP) was based on the following groundwater quality findings obtained from the EMP:



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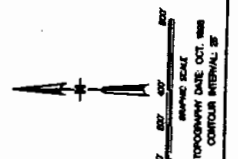
-  PROPERTY LINE
-  MONITORING WELL
-  EXISTING SUBSURFACE BARRIER

EXHIBIT 18

**GROUNDWATER QUALITY
MONITORING LOCATIONS FOR THE
MAIN CANYON LANDFILL AREA**

PUEBLO HILLS LANDFILL
SANITATION DISTRICTS



- The landfill is located on non-water bearing bedrock that yields insignificant amounts of groundwater;
- Groundwater found at the site has naturally poor quality and is not suitable for drinking;
- VOCs represent the only water quality concern;
- The source of the VOCs is landfill gas contact with water, not leachate. The levels of VOCs in onsite groundwater range from below the maximum contaminant levels (MCLs) for drinking water to less than ten times the MCLs.
- The vertical extent of VOCs affected groundwater is up to 120 feet in the eastern Barrier 1 area, 70 feet in the western Barrier 1 area, and 80 feet at Barrier 3;
- There are two offsite areas where VOCs are found in groundwater: (1) the area immediately north of the eastern Barrier 1 area, and (2) the portion of the historical San Jose Creek stream bed between western Barrier 1 and offsite monitoring well EMP5;
- The lateral extent of VOCs for the area north of eastern Barrier 1 less than 200 feet from the property line. The total VOC level in groundwater is approximately 30 $\mu\text{g/L}$ (or parts per billion) with no VOCs detected at levels as high as four times their MCLs;
- Well EMP5 is about 350 feet from Barrier 3 and represents the downgradient edge of landfill affected groundwater. It is at least 2,000 feet from the nearest production well. Only one VOC is occasionally detected at levels below 1 $\mu\text{g/L}$;
- The Puente Hills Landfill has not impaired any beneficial uses of groundwater.

On December 7, 1998, the Sanitation Districts announced a public workshop and public comment period for the proposed CAP for the Puente Hills Landfill Main Canyon. A copy of the notice was published in the December 7, 1998 edition of the San Gabriel Valley Tribune. The Sanitation Districts placed copies of the *Puente Hills Landfill Main Canyon Draft Engineering Feasibility Study and Amended Report of Waste Discharge for Corrective Action Program* report at two local libraries (Hacienda Heights Public Library in Hacienda Heights and Sunkist Public Library in La Puente) from December 7, 1998 to January 7, 1999 for review by the public. On December 17, 1998 the Sanitation Districts held a public workshop at its Joint Administration Office in Whittier and presented information regarding groundwater quality conditions at the site and the proposed CAP. The proposed CAP consists of the following components:

- continued operation of two existing subsurface barrier and groundwater extraction systems (i.e., Barriers 1 and 3) to control groundwater affected by the Main Canyon area of the landfill;
- continued operation and maintenance of the existing landfill gas collection system to control landfill gas;
- the use of natural attenuation for remediating offsite areas where low levels of VOCs are found in the groundwater;
- installation of up to ten new gas extraction wells in the Main Canyon area to provide additional landfill gas control and to minimize its contact with the groundwater; and
- conducting a monitoring program to ensure the landfill continues to have no adverse effect on the beneficial uses of groundwater.

On January 11, 1999, the Sanitation Districts submitted the *Puente Hills Landfill Main Canyon Final Engineering Feasibility Study and Amended Report of Waste Discharge for Corrective Action Program* report to the RWQCB. In an appendix of this report, the Sanitation Districts included all comments on the CAP received during the public review period and the Sanitation Districts' responses to these comments.

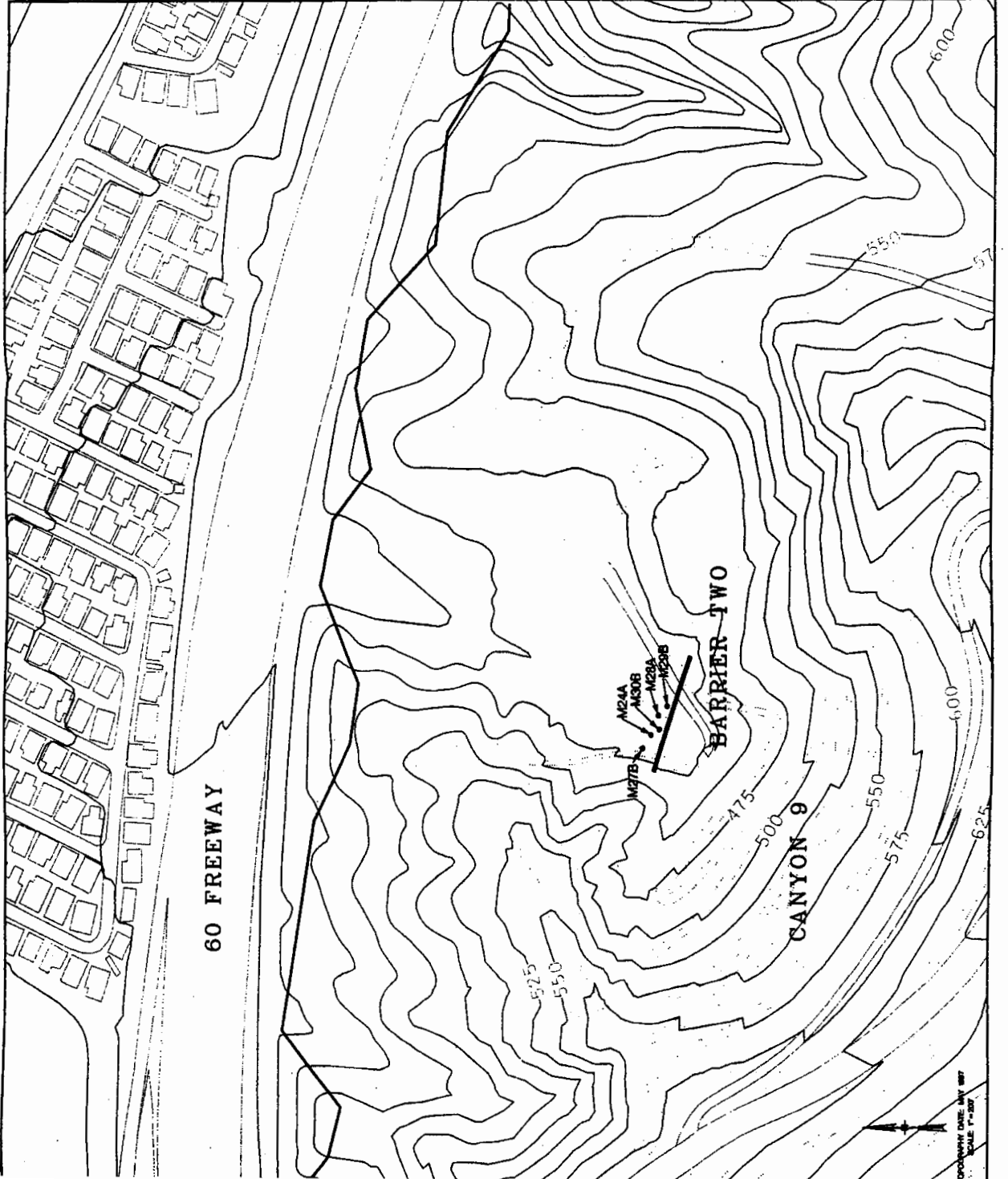
Canyon 9

For the Canyon 9 portion of the landfill, the Sanitation Districts proposed in 1996 a revised detection monitoring program in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*. The proposed detection monitoring program is under review. Therefore, the Sanitation Districts continued to monitor the three compliance monitoring wells, M24A, M27B, and M29B, in 1998 according to the program proposed in the Subtitle D Report. The locations of the monitoring wells for Canyon 9 are shown in Exhibit 19.

Eastern Canyons

For the Eastern Canyons area, the Sanitation Districts continued to monitor detection monitoring wells M41A, M42A, and M43A downgradient of Barrier 4 in 1998. In February 1998, the Sanitation Districts submitted *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* to the RWQCB. This report proposed the detection monitoring program for the entire Eastern Canyons area of the Puente Hills Landfill including areas currently monitored by wells M41A, M42A, and M43A. An additional bedrock monitoring well M47B was proposed in the Canyon 3 and 4 area. For Canyon 5, the Sanitation Districts proposed to install an alluvial monitoring well M51A and a bedrock monitoring well M52B downgradient of the proposed Barrier 5. The locations of the monitoring wells for the Eastern Canyons are shown in Exhibit 20. On April 21, 1998, the Sanitation Districts received approval from the RWQCB to install bedrock groundwater monitoring well M47B in Canyons 3 and 4. M47B was installed in July 1998, and the first groundwater sample from this monitoring well was collected in the third quarter of 1998. On October 7, 1998, the RWQCB approved the proposed detection monitoring program contained in the *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* report including the installation of alluvial monitoring well M51A and bedrock monitoring well M52B in Canyon 5. The Sanitation Districts will install these wells in 1999 after Subsurface Barrier 5 and storm channel improvements in Canyon 5 are completed.

During 1998, the Sanitation Districts monitored three piezometers, DM23, S16, and S6, which were located adjacent to proposed monitoring wells M47B, M51A, and M52B, respectively. The locations of these piezometers are shown in Exhibit 20. The purpose of monitoring these piezometers was to collect background water quality data until monitoring wells M47B, M51A, and M52B are installed. The monitoring data collected from these piezometers in 1998 was submitted to the RWQCB as part of the quarterly reports. In July 1998, the Sanitation Districts abandoned



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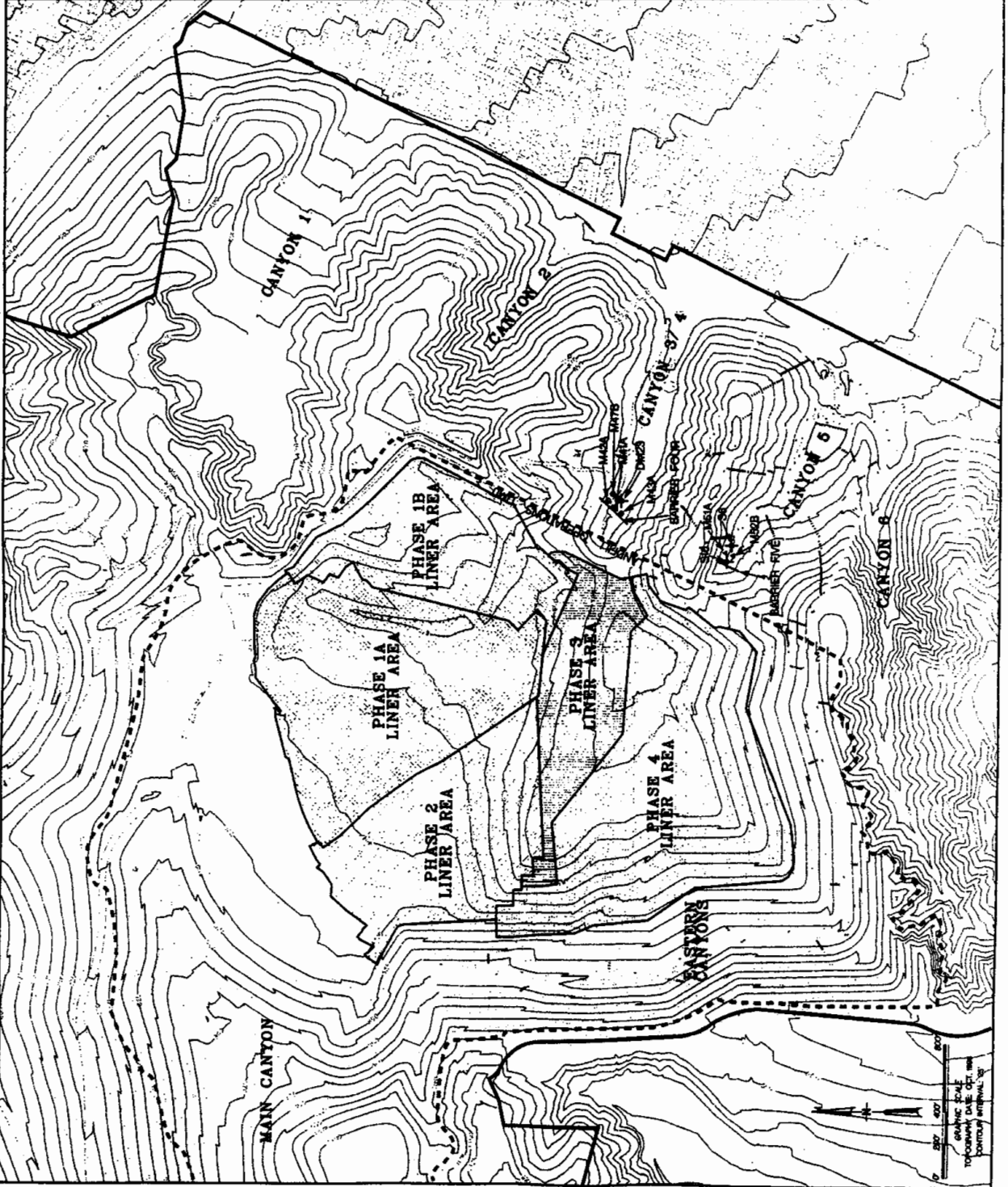
-  PROPERTY LINE
-  MONITORING WELL
-  EXISTING SUBSURFACE BARRIER

EXHIBIT 19

**GROUNDWATER QUALITY
MONITORING LOCATIONS FOR THE
CANYON 9 AREA**

FUENTE HILLS LANDFILL
SANITATION DISTRICTS



LEGEND

- PROPERTY LINE
- - - PERMITTED LANDFILL OPERATION AREA
- BARRIER 4 MONITORING WELL
- PROPOSED BARRIER 5 MONITORING WELLS
- + ABANDONED PIEZOMETERS

EXHIBIT 20

GROUND WATER QUALITY MONITORING LOCATIONS FOR THE EASTERN CANYONS LANDFILL AREA

PUEBLO HILLS LANDFILL SANITATION DISTRICTS

piezometer DM23 while installing monitoring well M47B. In August 1998, piezometers S16 and S6 were abandoned to make room for the installation of Subsurface Barrier 5 and storm channel improvements in Canyon 5.

Surface Water Monitoring

The Puente Hills Landfill drainage system consists of graded benches, drainage channels, debris basins, and downdrains. The surface water drainage system minimizes surface water infiltration, ponding, and slope erosion by providing a means for rainfall runoff to be diverted from the front face and top deck of the landfill and channeled into desilting basins, and eventually, into storm drains. The surface water drainage system is depicted on Exhibit 21. In 1998, the drainage system functioned effectively as designed.

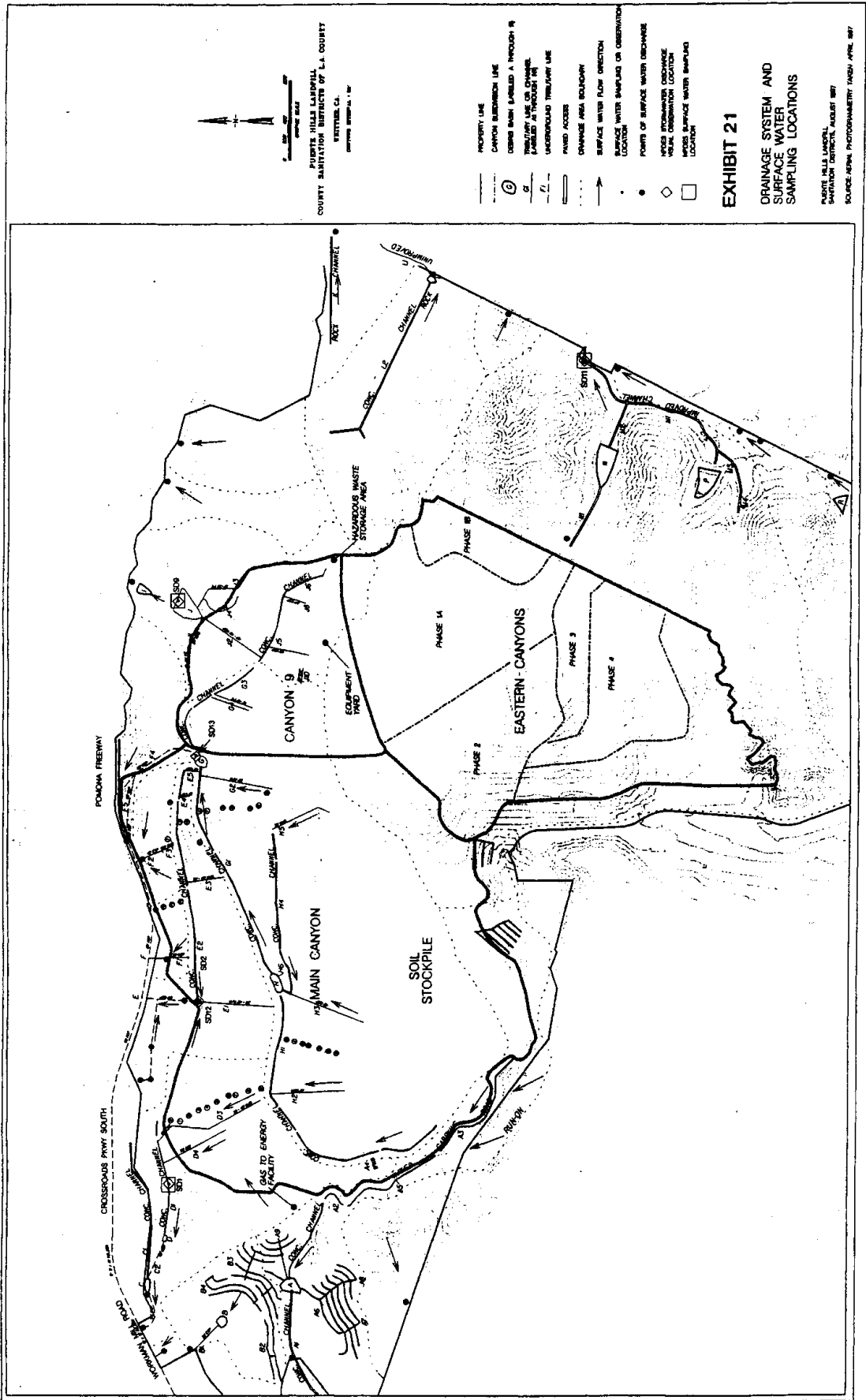
In 1992, the Sanitation Districts prepared a Storm Water Pollution Prevention Plan (SWPPP) for the Puente Hills Landfill pursuant to the California General Permit requirements for compliance with the National Pollutant Discharge Elimination System (NPDES) rules. The SWPPP calls for the use of best management practices to minimize the potential for runoff contamination by landfill operations. To fulfill the requirements of the General Permit and to determine the effectiveness of the SWPPP, the Sanitation Districts developed a runoff monitoring program in December 1992. The implementation of this program began in 1993 and continued during 1998. The NPDES permit was revised on April 17, 1997. Pursuant to the revised NPDES permit, the Sanitation Districts updated the SWPPP on August 1, 1997.

Surface water monitoring at Puente Hills Landfill follows the requirements in the NPDES permit. This program was approved by the RWQCB on May 22, 1997, following its review of *Request for Change in Surface Water Monitoring Requirements at Calabasas, Puente Hills, Scholl Canyon, and Spadra Landfills*, submitted by the Sanitation Districts on February 18, 1997.

3.3 CONTAINMENT SYSTEMS

During 1998, the Sanitation Districts completed the design and installation of the Phase 4 liner system for the Eastern Canyons area (shown in Exhibit 20). The following technical design plans were submitted to the RWQCB for the Phase 4 liner system before construction: .

- 1) "Special Provisions for Construction of Puente Hills Landfill Composite Liner System - Phase 4", dated February 1998;
- 2) "Puente Hills Landfill, Composite Liner System - Phase 4" (Drawing No. 69D-g-104), dated February 1998;
- 3) "Geosynthetics Quality Assurance Manual for Construction of Puente Hills Landfill Composite Liner System - Phase 4", dated February 1998;
- 4) "Geotechnical Report, Canyon 5 Berm and Front Face Stability Analyses", dated February 1998;



- 5) "Geotechnical Report, Horizontal Drain Pilot Program and Temporary Drain Program - Phase 3 Cut Slope - Puente Hills Landfill", by Dames & Moore Group dated October 7, 1997;
- 6) "Special Provisions for Construction of Puente Hills Landfill Phase 4 Slope Dewatering System", dated November, 1997; and
- 7) "Puente Hills Landfill - Slope Dewatering System - Phase 4" (Drawing No. 69D-g-103), dated November 1997;

The RWQCB reviewed these documents and gave their final approval for the technical design plans for the Phase 4 liner system in a letter dated August 18, 1998. Construction of the Phase 4 liner system took place from May 4, 1998 to December 3, 1998. Construction quality assurance services for the Phase 4 liner system were performed by the Sanitation Districts' consultant Advanced Earth Sciences, Inc. The final construction quality assurance report for the Phase 4 liner was completed on March 5, 1999.

4.0 WATER QUALITY MONITORING PROGRAMS

Water quality monitoring programs implemented at the Puente Hills Landfill during 1998 include groundwater monitoring, monitoring of liquid collection and removal systems (LCRS) of the Canyon 9 and Eastern Canyons liner systems, monitoring of reused water, and monitoring of dewatered biosolids, water treatment sludge, and treated incinerator ash disposed of at the landfill. No surface water monitoring samples were collected in 1998. Although several storms occurred during this period which did generate runoff, these events did not meet the runoff sampling conditions specified in the NPDES permit. Runoff either began after scheduled facility hours such as evenings or weekends, or the runoff occurred within three working days of a previous storm water discharge.

4.1 GROUNDWATER

At the Puente Hills Landfill, different groundwater monitoring programs are implemented in different operating areas. Groundwater monitoring is also conducted in offsite areas to comply with the evaluation monitoring program requirements. For each area, geologic and hydrogeologic conditions and existing water quality conditions determine the appropriate monitoring programs. These programs are described below by areas.

Main Canyon

The groundwater monitoring system for the Main Canyon includes wells downgradient of Barrier 1 and Barrier 3 (refer to Exhibit 18 for locations). The monitoring system at Barrier 1 includes seven wells, M04A, M04B, M05A, RMW6, M10B, M11A, and EMP4. No landfill effect has been observed at monitoring wells M04B, M11A, and EMP4 since monitoring began. Prior to the fourth quarter of 1998, the monitoring program for the Barrier 1 wells followed the program proposed by the Sanitation Districts in *Revised Detection and Evaluation Monitoring Programs, Puente Hills Landfill - Main Canyon and Canyon 9* which was approved by the RWQCB on December 30, 1996. Monitoring wells M04B and M11A were tested quarterly for metal surrogates (pH, total dissolved solids, sulfate, chloride, and nitrate) and Appendix I VOCs (the VOCs contained in Appendix I to Title 40, Code of Federal Regulations, Part 258). For the first and second quarters of 1998, wells M04B and M11A were also tested for other general parameters (conductivity, boron, total and soluble iron, total organic halogen, fluoride, oil and grease, and manganese), water chemistry parameters (calcium and magnesium hardness, sodium, potassium, and total and bicarbonate alkalinity), organic matter parameters (soluble BOD, soluble COD, total organic carbon, and ammonia nitrogen), and metals and inorganics (cyanide, sulfide, and seventeen heavy metals listed in Appendix I to Title 40, Code of Federal Regulations, Part 258). The purpose of this sampling was to collect background information at these monitoring wells. Monitoring wells M04A, M05A, RMW6, M10B, and EMP4 were tested quarterly for metal surrogates, water chemistry parameters, organic matter parameters, and Appendix I VOCs. During the third quarter of 1998, monitoring wells M04A, M05A, RMW6, M10B, and EMP4 were analyzed for all "constituents of concern" including all parameters listed in WDR Order No. 91-046 and constituents listed in Appendix II to Title 40, Code of Federal Regulations, Part 258 (or Appendix II constituents).

Beginning in the fourth quarter of 1998, the monitoring program for the Barrier 1 wells followed the program proposed by the Sanitation Districts in *Puente Hills Landfill Main Canyon Final Evaluation Monitoring Program* report which was approved by the RWQCB on October 7, 1998. Wells not affected by the landfill, M04B, M11A, and EMP4, were tested for metal surrogates and Appendix I VOCs. Wells affected by the landfill, M04A, M05A, RMW6, and M10B, were analyzed for metal surrogates, water chemistry parameters, organic matter parameters, and Appendix I VOCs.

Barrier 3 monitoring system includes four wells, M31A, R32B, M33A, and R34B. No landfill effect has been observed at monitoring wells R32B and R34B since monitoring began. Monitoring wells R32B and R34B are completed in the Pico Formation siltstone, and monitoring wells M31A and M33A are completed in alluvium overlying the Pico Formation bedrock.

During 1998, monitoring wells R32B and R34B were tested on a quarterly basis for the five metal surrogates and the Appendix I VOCs. For the first, second, and fourth quarters of 1998, wells M31A and M33A were tested for metal surrogates, water chemistry parameters, organic matter parameters, and Appendix I VOCs. For the third quarter of 1998, M31A and M33A were tested for the comprehensive list of all constituents of concern.

Canyon 9

Based on the Subtitle D Report, the compliance monitoring wells for the Canyon 9 area are M24A, M27B, M28A, M29B, and M30B (refer to Exhibit 19). No landfill effect has been observed at these monitoring wells since monitoring began. These wells are situated in alluvium and bedrock of the Pico Formation at the mouth of Canyon 9. Insufficient water for sampling purposes has been observed in alluvial monitoring wells M28A and M30B since their installation. In *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*, submitted to the RWQCB on November 15, 1996, the Sanitation Districts proposed to revise the groundwater detection monitoring program for the Canyon 9 monitoring wells. It was proposed that only two existing monitoring wells, M27B and M29B, be routinely monitored because they are screened in the uppermost aquifer or water bearing zone connected to the uppermost aquifer. The revised detection monitoring program was based on recommendations by ENVIRON Corporation in their July 1996 *Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill* report. The RWQCB has not approved this proposed detection monitoring program. Therefore, the Sanitation Districts continued to monitor wells M24A, M27B, and M29B for 1998. During 1998, these wells were tested on a quarterly basis for metal surrogates and the Appendix I VOCs.

Eastern Canyons

The current groundwater monitoring system for the Eastern Canyons area includes wells M41A, M42A, M43A, and M47B. No landfill effect has been observed at these monitoring wells since monitoring began. Monitoring wells M41A, M42A, and M43A monitor the uppermost aquifer, which is in the alluvium, downgradient of Barrier 4; while monitoring well M47B monitors the bedrock formation downgradient of Barrier 4. The locations of these monitoring wells are shown

in Exhibit 20. The monitoring program for the Eastern Canyons wells follows the program proposed by the Sanitation Districts in *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program*, which was approved by the RWQCB on October 8, 1998. During 1998, monitoring wells M41A, M42A, and M43A were tested quarterly for all general parameters, seven metals including iron (both total and filtered), one inorganic (cyanide), and the Appendix I VOCs.

The Sanitation Districts began monitoring M47B in the third quarter of 1998. The first groundwater sample was analyzed for all constituents of concern. In the fourth quarter of 1998, the groundwater sample from monitoring well M47B was tested for all general parameters, metals, inorganics, and Appendix I VOCs.

Three piezometers located in the Eastern Canyons area, S6, S16, and DM23, were also monitored during 1998. Piezometer DM23 is located in Canyons 3 and 4 downgradient of Barrier 4 and is completed in the bedrock formation. Piezometers S6 and S16 are located in Canyon 5 downgradient of Barrier 5. Piezometer S6 is completed in the bedrock formation, and piezometer S16 is completed in the alluvium. The locations of the piezometers are shown in Exhibit 20. Groundwater samples from piezometer DM23 were collected in the first and second quarters of 1998, prior to abandonment. Groundwater samples from piezometers S6 and S16 were collected during the second and third quarters of 1998, prior to abandonment. Heavy rainfall made access to piezometers S6 and S16 unavailable and sampling impossible during the first quarter of 1998. The groundwater samples from the piezometers were analyzed for all general parameters, metals, inorganics, and Appendix I VOCs.

Offsite Monitoring Wells

Prior to the fourth quarter of 1998, five monitoring wells, EMP1, EMP2, EMP3, EMP5, and M16A, located offsite of the Main Canyon (refer to Exhibit 18 for locations) were monitored pursuant to the program described in *Revised Detection and Evaluation Monitoring Programs, Puente Hills Landfill - Main Canyon and Canyon 9*. Offsite monitoring wells EMP1, EMP2, EMP3, EMP5, and M16A were tested quarterly for metal surrogates, water chemistry parameters, organic matter parameters, and Appendix I VOCs. In addition, during the third quarter of 1998, these offsite wells were monitored for all constituents of concern.

Beginning in the fourth quarter of 1998, the monitoring program for the offsite monitoring wells followed the program described in *Puente Hills Landfill Main Canyon Final Evaluation Monitoring Program* which was approved by the RWQCB on October 7, 1998. As part of this program, offsite monitoring well EMP6 was added to the monitoring system and monitoring well M16A was removed. For the fourth quarter of 1998, offsite wells not affected by the landfill, EMP1, EMP2, EMP3, and EMP6, were tested for metal surrogates and Appendix I VOCs. One offsite well that has been affected by the landfill, EMP5, was analyzed for metal surrogates, water chemistry parameters, organic matter parameters, and Appendix I VOCs.

4.2 LIQUID COLLECTION AND REMOVAL SYSTEM (LCRS)

Liquid collection and removal systems (LCRS) were installed as part of the composite liner systems for Canyon 9 and the Eastern Canyons areas of the Puente Hills Landfill. Water collected from both LCRS is discharged to the sewer system pursuant to an industrial waste discharge permit. The monthly LCRS collection rates for the Canyon 9 and Eastern Canyons LCRS are presented in Table 2. These systems functioned effectively in 1998. High flow rates to the Eastern Canyons LCRS during the winter months were due to rainfall. During the installation of the Phase 4 liner, uncovered bench drains allowed rainwater to bypass the storm runoff system and enter the Eastern Canyons LCRS.

The Canyon 9 LCRS and the Eastern Canyons LCRS were sampled in April and October of 1998 pursuant to RWQCB Order No. 93-062. The samples were analyzed for all constituents of concern. The purpose of this sampling is to determine the lists of constituents of concern for monitoring wells downgradient of the Canyon 9 and Eastern Canyons expansion areas, respectively. The results of these constituents of concern scans were reported to the RWQCB in the Constituents of Concern Reports submitted in August 1998 and February 1999.

The Eastern Canyons LCRS was also sampled in January and July of 1998 in accordance with the monitoring program in *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* which was approved by the RWQCB on October 8, 1998. These samples were analyzed for general parameters, all metals and inorganics, and Appendix I VOCs. The results of these samples were reported to the RWQCB in the 1998 water quality quarterly monitoring reports submitted to the RWQCB.

4.3 REUSED WATER

At the Puente Hills Landfill, groundwater is collected upgradient of each barrier through a system of extraction wells. The extraction volumes at each barrier during 1998 are summarized in Table 2. Table 2 also includes the extraction volumes for liquids collected from the Eastern Canyons drain system for 1998. The Eastern Canyons drain system includes the underdrain system beneath the liner on the floor and horizontal drains located along the side slopes. The purpose of the horizontal drains is to reduce hydrostatic pore pressure within the subgrade of the slopes in order to improve slope stability. All extracted groundwater was discharged to a sanitary sewer pursuant to an industrial waste discharge permit except for portions of the groundwater from the Barrier 4 extraction system and the Eastern Canyons drain system which was reused for dust control, pursuant to the RWQCB's July 18, 1995 canyon water reuse approval letter.

During 1998, approximately 5,914,023 gallons of water collected from the Barrier 4 extraction wells and Eastern Canyons drain system was reused for dust control at the Puente Hills Landfill. The reuse water was analyzed quarterly for general parameters, water chemistry parameters (major anions and cations), organic matter parameters, metals, VOCs, and base neutral/acid extractable compound (BNAs). In addition, the reuse water was analyzed annually for gross alpha radioactivity and gross beta radioactivity.

TABLE 2
1998 LCRS FLOW RATES AND CANYON WATER EXTRACTION RATES
PUENTE HILLS LANDFILL

Month	Canyon 9 LCRS (gallons)	Eastern Canyons LCRS (gallons)	Barrier 1 (gallons)	Barrier 2 (gallons)	Barrier 3 (gallons)	Barrier 4 (gallons)	Eastern Canyons Drain System (gallons)
January	41,626	193,865 ⁽¹⁾	330,971		511,461	42,730	822,711
February	50,516	437,810 ⁽¹⁾	426,749		494,241	65,172	906,261
March	34,925	167,503 ⁽¹⁾	521,479		594,939	129,753	745,188
April	30,653	74,114	495,901		581,474	142,290	1,417,737
May	30,914	37,723	555,028		587,371	251,396	2,655,735 ⁽³⁾
June	28,235	6,952	500,833		551,902	135,973	2,280,694 ⁽³⁾
July	27,297	7,463	466,678		520,519	87,869	2,027,391
August	25,262	7,591	419,868		557,004	68,684	1,848,601
September	21,243	6,723	512,953		537,602	65,641	1,582,432
October	21,863	5,977	722,121	19,417 ⁽²⁾	546,064	48,055	1,615,610
November	21,923	89,436 ⁽¹⁾	681,654	34,296	533,487	41,635	1,468,109
December	21,795	39,099 ⁽¹⁾	682,904	33,846	533,470	39,941	1,437,461
Total	356,252	1,226,838	6,317,139	87,559	6,549,534	1,119,139	18,807,930

- (1) The increase in water volumes collected from the Eastern Canyons LCRS during the months of January, February, March, November, and December 1998 were a result of rainfall events.
- (2) Groundwater extraction from Subsurface Barrier 2 extraction wells began in October 1998.
- (3) The increase in water volumes from the Eastern Canyons Drain System in May and June of 1998 was a result of connecting 281 horizontal drains into the Eastern Canyons Drain System.

4.4 DEWATERED BIOSOLIDS AND TREATED INCINERATOR ASH

The dewatered biosolids disposed of at the landfill originates at the Sanitation Districts' Joint Water Pollution Control Plant located in Carson, California and the Valencia Water Reclamation Plant located in Valencia, California. Summaries of the monthly average biosolids percent solids content and tons disposed are presented in Table 3. Two different types of analyses are performed on a regular basis: a quarterly modified citrate extract procedure for metals analyses, and a semi-annual analysis for pesticides and VOCs. Monitoring performed during 1998 indicated no exceedances of Title 22 criteria for the identification of hazardous wastes for those analyses required in MRP Nos. 2294 and 7336, Section II (C). Results of biosolids analyses have been separately reported to the RWQCB in quarterly monitoring reports and are not included in this annual report.

Treated incinerator ash from Commerce Refuse to Energy Facility (Commerce) and the Southeast Resources Recovery Facility (SERRF) located in Long Beach was disposed at the Puente Hills Landfill during 1998. Summaries of the monthly treated ash disposal rate are presented in Table 4. All incinerator ash accepted at the Puente Hills Landfill during 1998 was treated by a solidification/stabilization process. This process forms a concrete or aggregate like material which is used as road base at the Puente Hills Landfill. Ash treated by this process has been classified as a nonhazardous waste by the California Department of Toxic Substances Control.

In accordance with MRP No. 7336, the treated ash from Commerce and SERRF was analyzed by the Waste Extraction Test (WET) with citrate buffer and deionized water extraction on a quarterly basis. These results and disposal summaries have been separately submitted to RWQCB in quarterly monitoring reports and are not included in this annual report.

TABLE 3
1998 BIOSOLIDS DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Joint Water Pollution Control Plant Biosolids		Valencia Water Reclamation Plant Biosolids	
	Tonnages	Solids Content ⁽¹⁾ (%)	Tonnages	Solids Content ⁽¹⁾ (%)
January	6,022	26.6	0	
February	6,643	27.4	1,198	26.9
March	6,826	26.3	1,597	26.9
April	5,230	26.8	1,520	28.4
May	3,555	26.8	806	28.4
June	4,374	26.9	0	
July	3,881	26.4	0	
August	3,083	26.2	0	
September	3,565	25.8	0	
October	3,939	26.3	242	25.7
November	2,992	27.0	1,439	25.5
December	2,135	25.9	1,243	25.7
Total	52,245		8,044	

(1) The solids content was based on a monthly average.

TABLE 4
1998 TREATED INCINERATOR ASH DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Tonnages
January	15,905
February	10,282
March	14,091
April	14,853
May	12,912
June	16,930
July	17,673
August	16,928
September	15,823
October	14,394
November	14,405
December	17,277
Total	181,473

5.0 WATER QUALITY MONITORING RESULTS

This section discusses all water quality monitoring results obtained for 1998. All monitoring data presented in this annual report have previously been submitted to the RWQCB in quarterly monitoring reports and the semi-annual constituents of concern monitoring reports for the LCRS liquid.

5.1 MONITORING DATA SUMMARY

Water quality monitoring results for 1998 are presented in the Appendix (Tables A.1 through A.9) of this report. The Appendix includes, in tabular form, the data collected from each monitoring facility. In addition, graphs presenting five years of data for each constituent at each groundwater monitoring well are included pursuant to the requirement in Order No. 93-062. Graphs were prepared for constituents which were analyzed for during 1998 for all onsite and offsite monitoring wells. If there were no detections of a particular constituent at a particular well during 1998, the graph was not plotted unless the constituent was detected at or above the detection limit in at least two monitoring periods since 1994. The tabulated and graphed data are grouped as follows:

- Barrier 1 downgradient monitoring wells (M04A, M04B, M05A, RMW6, M10B, M11A, and EMP4);
- Barrier 2 downgradient monitoring wells (M24A, M27B, and M29B; M28A and M30B were dry in 1998);
- Barrier 3 downgradient monitoring wells (M31A, R32B, M33A, and R34B);
- Barrier 4 downgradient monitoring wells (M41A, M42A, M43A, and M47B);
- Offsite monitoring wells (EMP1, EMP2, EMP3, EMP5, EMP6, and M16A);
- Eastern Canyons piezometers (S6, S16, and DM23);
- Liquid collection and removal systems (LCRS for Canyon 9 and LCS2 for the Eastern Canyons);
- Reused water (REUS); and
- Equipment and trip blanks (BLNK or EQIP).

A computer diskette containing all monitoring results collected in 1998 is included with the transmittal of this report to the RWQCB. The data are in the Microsoft® Excel Office 97 format. Incomplete analyses were the result of insufficient sample volume. Laboratory analyses, including laboratory methods and method detection limits (MDL), followed the program outlined in the Subtitle D Report and two Sanitation Districts' transmittals to the RWQCB on September 22, 1994 and November 21, 1994 regarding this issue. Changes in the method detection limits are a result of matrix interference. All laboratory analyses were conducted at laboratories certified by the California Department of Health Services Environmental Laboratory Accreditation Program for such analyses. Laboratory analyses follow the methods approved by the United States Environmental Protection Agency. The QA/QC data are not included in this annual monitoring report but were previously provided in quarterly monitoring or constituents of concern reports.

5.2 GROUNDWATER MONITORING RESULTS

The groundwater monitoring results for 1998 are discussed in this section. The discussion is organized in the following order: Main Canyon, Canyon 9, Eastern Canyons, and offsite wells. Data are analyzed to identify statistical outliers which may be due to sampling anomalies or laboratory errors. Outliers are included in this report and are presented in tabular and graphical data summary, but are excluded from further evaluation or statistical analyses.

5.2.1 Main Canyon

The groundwater monitoring system in the Main Canyon includes monitoring wells downgradient of Barrier 1 and Barrier 3. Barrier 1 monitoring wells include wells which have not been affected by the landfill (M04B, M11A, and EMP4) and wells which have been affected by the landfill (M04A, M05A, RMW6, and M10B). Similarly, Barrier 3 monitoring wells include wells which have not been affected by the landfill (R32B and R34B) and wells which have been affected by the landfill (M31A and M33A). These wells were monitored according to the evaluation monitoring program proposed in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*. On January 11, 1999, the Sanitation Districts proposed a corrective action program for the Main Canyon area in the *Puente Hills Landfill Main Canyon Final Engineering Feasibility Study and Amended Report of Waste Discharge for Corrective Action Program* to the RWQCB. Included in this report is a water quality monitoring program proposed for the corrective action program. The RWQCB is currently reviewing this report.

Barrier 1 Monitoring Wells

For 1998, Barrier 1 wells not affected by the landfill (M04B, M11A, and EMP4) continued to show no landfill effect. Monitoring results for the naturally occurring compounds at these wells were consistent with past monitoring data. There were no detections of any anthropogenic compounds (VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds) at these monitoring wells.

At M04A, M05A, RMW6, and M10B, low levels of VOCs were detected in 1998. The detected VOCs, during 1998, included tetrachloroethylene, trichloroethylene, cis-1,2-dichloroethylene, vinyl chloride, 1,1-dichloroethane, 1,2-dichloroethane, p-dichlorobenzene, chlorobenzene, and chloroform. The most frequently detected VOCs include vinyl chloride, cis-1,2-dichloroethylene, trichloroethylene, and 1,2-dichloroethane. The concentrations of typical leachate indicator parameters, such as soluble biochemical oxygen demand (BOD), soluble chemical oxygen demand (COD), total organic carbon (TOC), ammonia nitrogen, and nitrate nitrogen, however, were either not detected or detected at background levels (see *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*, approved by the RWQCB on December 30, 1996). For example, soluble COD concentrations are typically below 20 mg/L, and TOC concentrations below 10 mg/L. During 1998, heavy metals were either not detected at these wells or detected below their maximum contaminant levels (MCLs) for drinking water. No base neutral/acid extractable compounds (BNAs) were detected at these wells except for one phthalate at RMW6. Diethylhexyl phthalate was detected once at RMW6 in the third quarter of 1998.

Phthalates are widely used plasticizers and are common laboratory contaminants. Therefore, the detection of this compound is not indicative of a landfill effect. During 1998, no pesticides, herbicides, or organophosphorus compounds were detected at these monitoring wells. These results show that low levels of VOCs represent the only landfill effect on water quality.

Of the 63 VOCs that have been tested, only nine were detected in 1998 at the four Barrier 1 monitoring wells discussed above. These VOCs as well as their highest levels observed in 1998 (in terms of times of MCLs) are shown in Table 5. The highest VOC levels are found at well M10B. Among the detected VOCs at M10B, cis-1,2-dichloroethylene had the highest concentrations at approximately ten times of its MCL. At M04A and M05A, vinyl chloride was detected at eight times of its MCL.

**TABLE 5
PUENTE HILLS LANDFILL MAIN CANYON
1998 VOLATILE ORGANIC COMPOUNDS LEVELS
IN BARRIER 1 MONITORING WELLS**

Volatile Organic Compounds	MCL (µg/L)	M04A	M05A	RMW6	M10B
Tetrachloroethylene	5	ND	ND	ND	1 x MCL
Trichloroethylene	5	1 x MCL	ND	<MCL	1 x MCL
cis-1,2-Dichloroethylene	6	3 x MCL	ND	3 x MCL	10 x MCL
Vinyl Chloride	0.5	8 x MCL	8 x MCL	2 x MCL	4 x MCL
1,1-Dichloroethane	5	ND	ND	<MCL	1 x MCL
1,2-Dichloroethane	0.5	<MCL	ND	2 x MCL	2 x MCL
p-Dichlorobenzene	5	ND	ND	<MCL	<MCL
Chlorobenzene	70	ND	ND	<MCL	ND
Chloroform	100	ND	ND	ND	<MCL

Notes:

“ND” stands for “no detections”, i.e., the concentrations are below the laboratory method detection limits (MDLs). The concentrations reported represent the highest concentrations observed during 1998.

Barrier 3 Monitoring Wells

For 1998, Barrier 3 wells not affected by the landfill (R32B and R34B) continued to show no landfill effect. Monitoring wells R32B and R34B were tested for metal surrogate parameters (pH, nitrate, chloride, sulfate, and total dissolved solids) and Appendix I VOCs. Monitoring results for the metal surrogates at these wells were consistent with past monitoring data. There were no detections any VOCs at these monitoring wells. There have been no historic water quality concerns

related to other general parameters, water chemistry parameters, organic matter parameters, and metals and inorganics at Barrier 3 monitoring wells R32B and R34B. Therefore, these compounds were not analyzed at these wells in 1998.

At M31A and M33A, low levels of VOCs were detected in 1998 indicating a landfill effect at these wells. The detected VOCs, during 1998, include trichloroethylene, cis-1,2-dichloroethylene, vinyl chloride, and 1,2-dichloroethane. These VOCs as well as their highest levels observed in 1998 (in terms of times of MCLs) are shown in Table 6. Only vinyl chloride and 1,2-dichloroethane at M33A were detected at levels slightly above their MCL; the other VOCs were either not detected or detected at levels below their respective MCL. The concentrations of typical leachate indicator parameters, such as soluble BOD, soluble COD, TOC, ammonia nitrogen, and nitrate nitrogen, however, are typically either not detected or detected at background levels. During 1998, heavy metals were either not detected or detected below their MCLs for drinking water. No BNAs, pesticides, herbicides, or organophosphorus compounds were detected at these monitoring wells in 1998. These results show that very low levels of VOCs represent the only landfill effect on water quality.

TABLE 6
PUENTE HILLS LANDFILL MAIN CANYON
1998 VOLATILE ORGANIC COMPOUNDS LEVELS
IN BARRIER 1 MONITORING WELLS

Volatile Organic Compounds	MCL (µg/L)	M31A	M33A
Trichloroethylene	5	<MCL	ND
cis-1,2-Dichloroethylene	6	<MCL	<MCL
Vinyl Chloride	0.5	ND	1 x MCL
1,2-Dichloroethane	0.5	ND	2 x MCL

Notes:

“ND” stands for “no detections”, i.e., the concentrations are below the laboratory method detection limits (MDLs). The concentrations reported represent the highest concentrations observed during 1998.

5.2.2 Canyon 9

The groundwater monitoring system at Canyon 9 includes monitoring wells M24A, M27B, M28A, M29B, and M30A, all downgradient of Barrier 2. Only wells M24A, M27B, and M29B had sufficient groundwater for sampling purposes during 1998. The other wells were practically dry, consistent with past observations. The monitoring wells at Canyon 9 have not detected any landfill effect. During 1998, only metal surrogates and VOCs were analyzed because there are no other historic water quality concerns related to the other natural occurring compounds, BNAs, pesticides, herbicides, or organophosphorus compounds.

During 1998, monitoring results for the metal surrogates at monitoring wells M24A, M27B, and M29B were consistent with past monitoring data. There were no detections of any VOCs at these monitoring wells. Based on these results, there continues to be no landfill effect at Canyon 9 monitoring wells M24A, M27B, and M29B.

5.2.3 Eastern Canyons

The Eastern Canyons groundwater monitoring system includes monitoring wells M41A, M42A, M43A, and M47B, all downgradient of Barrier 4. The Sanitation Districts began to monitor wells M41A, M42A, and M43A in July 1995 and began monitoring M47B in October 1998. The monitoring wells for the Eastern Canyons have not detected any landfill effect, such as VOCs or high concentrations of soluble BOD, soluble COD, TOC, or ammonia nitrogen. Therefore, the wells are monitored as part of a detection monitoring program.

The Sanitation Districts' proposal for characterizing background water quality for the Eastern Canyons was included in *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program*, submitted to the RWQCB in February 1998. The Sanitation Districts have collected a significant amount of background water quality data for the Eastern Canyons area. An analysis of these data shows that the natural groundwater quality for the Eastern Canyons area varies spatially between the up-canyon and down-canyon locations. Therefore, the Sanitation Districts decided not to use upgradient wells to obtain background water quality. Instead, an intra-well comparison procedure, which uses historical monitoring data collected from unaffected monitoring wells to represent background water quality, is proposed to evaluate monitoring data. Proposed concentration limits, calculated using historical intra-well water quality data, for monitoring wells M41A, M42A, and M43A were included in the report. The RWQCB approved the report and proposed statistical analysis plan on October 8, 1998.

Groundwater results obtained during 1998 for monitoring wells M41A, M42A, and M43A were compared to the concentration limits for these wells. There were no exceedances of the concentration limits at these monitoring wells during 1998 except for nitrate nitrogen at all three monitoring wells. Although several of the nitrate nitrogen concentrations exceeded the limits, the exceedances appeared to be random, and the detected concentrations of nitrate nitrogen were all lower than those observed from samples collected from the three wells in July 1995 prior to waste placement in the Eastern Canyons area. Therefore, these nitrate nitrogen exceedances are not a landfill effect. The Sanitation Districts will review all nitrate nitrogen data collected from monitoring wells M41A, M42A, and M43A and determine concentration limits based on this review.

During 1998, all detected soluble metals from M41A, M42A, and M43A were below the MCL for drinking water. No VOCs were detected at these wells in 1998. There have been no historic water quality concerns related to the BNAs, pesticides, herbicides, or organophosphorus compounds. Therefore, these compounds were not analyzed at these wells in 1998.

The Sanitation Districts began sampling M47B in the third quarter of 1998. All detected soluble metals from M47B were below the MCL for drinking water. This indicates that metals are not a water quality concern for these monitoring wells. There have been no detections of VOCs,

BNAs, pesticides, herbicides, or organophosphorus compounds at M47B except for one phthalate. Diethylhexyl phthalate was detected in the third quarter at M47B at a concentrations of 47 ug/l and 9 ug/l (duplicate samples). Phthalates are widely used plasticizers and are common laboratory contaminants. Therefore, the detection of this compound is not considered to be related to the landfill.

The Sanitation Districts also sampled, in 1998, three temporary piezometers (DM23, S6, and S16) located in the Eastern Canyons area downgradient of Barriers 3 and 4 and Barrier 5 (refer to Exhibit 20). The results for the samples collected from these piezometers are presented in Table A.6. All soluble metals detected at these piezometers were below the MCL for drinking water. No VOCs were detected at these piezometers except for vinyl chloride. The vinyl chloride concentrations at DM23 were 0.3 ug/l and <0.3 ug/l (duplicate samples) during the first quarter, and 0.3 ug/l during the second quarter. The detected levels were below the practical quantitation limit (1.5 ug/l) for this compound. Both detections of vinyl chloride were at the detection limit which is below the MCL for drinking water. Because no other VOCs or elevated levels of leachate indicators such as soluble BOD, soluble COD, or total organic carbon were present in these samples, the Sanitation Districts do not believe the detections of this compound to be a result of a landfill effect. Because vinyl chloride has never been previously detected in the Eastern Canyons LCRS, the detections of this compound may be from a source not related to the landfill. Piezometer DM23 was a temporary piezometer installed by Dames and Moore in December 1995. It had a polyvinyl chloride (PVC) casing which is made using vinyl chloride, and the PVC casing may be the source for the vinyl chloride detections.

5.2.4 Offsite Monitoring Wells

Offsite monitoring wells include wells which have not been affected by the landfill (EMP1, EMP2, EMP3, and EMP6) and one well which has been affected by the landfill (EMP5). The offsite monitoring wells are currently part of the evaluation monitoring program for the Puente Hills Landfill Main Canyon area. During 1998, the Sanitation Districts also collected groundwater samples from offsite monitoring well M16A. This well was affected by industrial sources not related to the Puente Hills Landfill. Therefore, the monitoring of this well was discontinued beginning in the fourth quarter of 1998.

For 1998, offsite monitoring wells not affected by the landfill (EMP1, EMP2, EMP3, and EMP6) continued to show no landfill effect. Monitoring results for the naturally occurring compounds at these wells were consistent with past monitoring data. There were no detections any anthropogenic compounds (VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds) at these monitoring wells.

At EMP5, low levels of one VOC, 1,2-dichloroethane, were detected in 1998 indicating a landfill effect at this well. None of the 1,2-dichloroethane detections at EMP5 exceeded the MCL level. At monitoring well EMP1, which is located to the west and hydraulically downgradient of EMP5, 1,2-dichloroethane was not detected. This indicates that the extent of landfill effect on groundwater is limited to EMP5. Groundwater flowing toward the Whittier Narrows beyond EMP5 is not affected by the Puente Hills Landfill. During 1998, the concentrations of typical leachate

indicator parameters, such as soluble BOD, soluble COD, TOC, ammonia nitrogen, and nitrate nitrogen, at EMP5 were either not detected or detected at background levels. Heavy metals at EMP5 were either not detected or detected below their MCLs for drinking water. No BNAs, pesticides, herbicides, or organophosphorus compounds were detected at EMP5 in 1998. These results show that VOCs represent the only water quality concern at EMP5.

During 1998, four VOCs, chloroform, 1,1-dichloroethene, tetrachloroethylene, and 1,1-dichloroethane were detected at monitoring well M16A. Two of these VOCs, 1,1-dichloroethene and tetrachloroethylene, are common San Gabriel Groundwater Basin contaminants associated with industrial activities. The compound 1,1-dichloroethane is a degradation product for 1,1,1-trichloroethane, which has been previously detected at M16A. Chloroform and 1,1-dichloroethene are rarely detected at onsite groundwater monitoring wells at the Puente Hills Landfill. Elevated levels of nitrate nitrogen, a common San Gabriel Valley Basin contaminant, was also detected at M16A. These monitoring results indicate that groundwater at M16A is not affected by the Puente Hills Landfill, but is affected by industrial activities in the San Gabriel Groundwater Basin. Because M16A is affected by the San Gabriel Groundwater Basin contamination and not the Puente Hills Landfill, the Sanitation Districts proposed and the RWQCB approved to exclude this well from the final evaluation monitoring program.

5.3 LCRS MONITORING RESULTS

Liquids in the Canyon 9 LCRS and the Eastern Canyons LCRS were sampled in April and October of 1998 pursuant to RWQCB Order No. 93-062. In addition, the Eastern Canyons LCRS was sampled in January and July of 1998 in accordance with a letter dated March 4, 1997 from the RWQCB to the Sanitation Districts approving a revised groundwater monitoring program for the Eastern Canyons area. Table A.7 summarizes the LCRS water monitoring results.

During 1998, all general parameters except oil and grease were detected at the Canyon 9 LCRS. Metals and inorganics detected at the Canyon 9 LCRS include total and soluble arsenic, total and soluble barium, soluble copper, soluble mercury, total and soluble nickel, total and soluble zinc, and total cyanide. VOCs detected at the Canyon 9 LCRS include trichloroethylene, vinyl chloride, o-dichlorobenzene, p-dichlorobenzene, 1,1-dichloroethane, benzene, toluene, o-xylene, acetone, cis-1,2-dichloroethylene, and m+p-xylene. BNAs detected at the Canyon 9 LCRS include diethylhexyl phthalate and naphthalene. The compound diethylhexyl phthalate is a widely used plasticizer and is a common laboratory contaminant. Therefore, the detection of this compound is not considered to be related to the landfill. No pesticides, herbicides, or organophosphorus compounds were detected at the Canyon 9 LCRS during 1998.

During 1998, all general parameters except BOD (both total and soluble), and oil and grease were detected at the Eastern Canyons LCRS. Metals and inorganics detected at the Eastern Canyons LCRS include total and soluble arsenic, total and soluble barium, total cadmium, total chromium, total cobalt, total and soluble copper, total lead, total mercury, total and soluble selenium, total and soluble zinc, and total and soluble antimony. VOCs detected at the Eastern Canyons LCRS include methylene chloride, tetrachloroethylene, 1,1-dichloroethane, and cis-1,2-dichloroethylene. Only one BNA, diethylhexyl phthalate, was detected at the Eastern Canyons LCRS. As mentioned above, it

is a common laboratory contaminant and its detection is not indicative of a landfill effect. No pesticides, herbicides, or organophosphorus compounds were detected at the Eastern Canyons LCRS during 1998.

5.4 REUSED WATER MONITORING RESULTS

The reused water in the Eastern Canyons was sampled pursuant to Monitoring and Reporting Program No. 7336, Section V. Table A.8 summarizes the reused water monitoring results. During 1998, the reused water met the onsite water reuse requirements specified in Provision E of Waste Discharge Requirements Order No. 93-070.

APPENDIX
WATER QUALITY MONITORING DATA
PUENTE HILLS LANDFILL, 1998

TABLE A.1
WATER QUALITY DATA
BARRIER 1 MONITORING WELLS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ53112 03/25/98	WELL M04A SJ55819 06/01/98	WELL M04A SJ59708 09/09/98	WELL M04A SJ59709 09/09/98	WELL M04A SJ63557 12/10/98	WELL M04A SJ63558 12/10/98
FIELD PARAMETERS							
DEPTH TO WATER	FT	41.26	41.16	41.26	41.16	41.69	41.69
DEPTH TO BOTTOM	FT	60.02	59.86	60.02	60.02	59.93	59.93
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	7	15	20	20	20	20
FIELD WATER TEMPERATURE	DEG C	19.29	22.72	22.01	22.01	17.53	17.53
FIELD PH	PH	6.38	6.24	6.44	6.44	6.18	6.18
FIELD CONDUCTIVITY	UMHOS/CM	1116	3217	2541	2541	3184	3184
FIELD DISSOLVED O2	MG/L	0.64	0.25	0.38	0.38	0.65	0.65
FIELD DISSOLVED CO2	MG/L	186	611	319	319	679	679
GENERAL							
PH	PH	6.70	6.83	6.79 C	6.79 C	7.08	7.07
CONDUCTIVITY	UMHOS/CM	684	2716	2820 D	2820 D	2698	2900
TOTAL DISSOLVED SOLIDS	MG/L			2328	2328		
TOTAL HARDNESS	MG/L CaCO3			1182 E	1349 E		
TOTAL CYANIDE	MG/L CN			<0.005	<0.005		
BORON	MG/L B			0.88	0.94		
ANIONS							
NITRATE NITROGEN	MG/L N	0.29	< 0.05 B	0.07	0.06	< 0.05	< 0.05
SULFATE	MG/L SO4	220	1220 B	982 B	1030	1220	1250
CHLORIDE	MG/L CL	38.7	171 B	179 B	182 B	187 B	187 B
TOTAL ALKALINITY	MG/L CaCO3	254	605	501	522	585	592
BICARBONATE ALKALINITY	MG/L CaCO3	254	605	501	522	585	592
TOTAL SULFIDE	MG/L S			< 0.1 C	< 0.1		
FLUORIDE	MG/L F			0.80	0.83		
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3	222	894	668 B	736 B	864	911
MAGNESIUM-HARDNESS	MG/L CaCO3	97.5	799	542 B	618 B	770	811
SODIUM	MG/L NA	30.8	174	171	177	191	200
POTASSIUM	MG/L K	6.8	12.6	16.0	16.1	12.9	13.0
IRON	MG/L FE			4.70 B	5.94 B		
MANGANESE	MG/L MN			1.23	1.40		
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	0.2	0.9	1.2	1.4	1.6	1.6

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-AVERAGE OF DUPS D-DUP & SPIKE E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ53112 03/25/98	WELL M04A SJ55819 06/01/98	WELL M04A SJ59708 09/09/98	WELL M04A SJ59709 09/09/98	WELL M04A SJ63557 12/10/98	WELL M04A SJ63558 12/10/98
MG/L O	< 2	< 2	< 2	2 D <	2	<	2 D <
MG/L O	< 2	< 2	< 2	14	16	<	2
MG/L O	15	10	17	16	14		14
MG/L C	5.89	4.35	8.45	7.62	5.91		6.10
MG/L EXTRAC	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0		< 3.0
MG/L			56 B	49 B			

ORGANIC MATTER

TOTAL BOD	MG/L O	< 2	< 2	2 D <	2	<	2 D <	2
SOLUBLE BOD	MG/L O	< 2	< 2	14	16	<	2	
TOTAL COD	MG/L O	15	10	17	16		14	
SOLUBLE COD	MG/L O	5.89	4.35	8.45	7.62		5.91	
TOTAL ORGANIC CARBON	MG/L C	< 3.0	< 3.0	< 3.0	< 3.0		< 3.0	
OIL & GREASE	MG/L	< 3.0	< 3.0	< 3.0	< 3.0		< 3.0	
TOTAL ORGANIC HALOGEN (TOX)	UG/L			56 B	49 B			

METALS

ARSENIC	MG/L AS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0242
BARIUM	MG/L BA	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.10
CADMIUM	MG/L CD	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
MERCURY	MG/L HG	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.03
SELENIUM	MG/L SE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02
ANTIMONY	MG/L SB	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BERYLLIUM	MG/L BE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.025
THALLIUM	MG/L TL	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2, 4, 5-T	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DINOSER	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
THIONAZIN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIMETHOATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DISULFOTON	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL PARATHION	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL PARATHION	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PHORATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP' - DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP' - DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP' - DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A - AMENDED TEST RESULT B - AVERAGE C - AVERAGE OF DUPS D - DUP & SPIKE E - CALCULATED VALUE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A 03/25/98	WELL M04A SJ55819 06/01/98	WELL M04A SJ59708 09/09/98	WELL M04A SJ59709 09/09/98	WELL M04A SJ63557 12/10/98	WELL M04A SJ63558 12/10/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	<	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<	<
DELDRIN	UG/L	<	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<	<
METHOXYCYCLOR	UG/L	<	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<
AROCFLOR 1242	UG/L	<	<	<	<	<	<
AROCFLOR 1254	UG/L	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<
AROCFLOR 1016	UG/L	<	<	<	<	<	<
AROCFLOR 1221	UG/L	<	<	<	<	<	<
AROCFLOR 1232	UG/L	<	<	<	<	<	<
AROCFLOR 1248	UG/L	<	<	<	<	<	<
AROCFLOR 1260	UG/L	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
2,2-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-AVERAGE OF DUPS D-DUP & SPIKE E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ53112 03/25/98	WELL M04A SJ55819 06/01/98	WELL M04A SJ59708 09/09/98	WELL M04A SJ59709 09/09/98	WELL M04A SJ63557 12/10/98	WELL M04A SJ63558 12/10/98
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	1	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	1	1	<	1
METHYL METHACRYLATE	UG/L	<	<	10	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	5	<	<	<
METHYLENE CHLORIDE	UG/L	<	1	1	1	<	1
CHLOROFORM	UG/L	<	<	1	<	<	<
1,1-TRICHLOROETHANE	UG/L	<	<	1	<	<	<
CARBON TETRACHLORIDE	UG/L	<	0.3	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	1	2	3	4	4
TETRACHLOROETHYLENE	UG/L	<	1	1	1	<	1
BROMDICHLOROMETHANE	UG/L	<	1	1	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	1	1	<	1
BROMOFORM	UG/L	<	1	1	1	<	1
CHLOROBENZENE	UG/L	<	1	1	1	<	1
VINYL CHLORIDE	UG/L	<	0.7	1	2	3	3
O-DICHLOROBENZENE	UG/L	<	1	1	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	1	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	1	1	<	1
1,1-DICHLOROETHANE	UG/L	<	1	1	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	0.5	0.5	0.5	0.5
BENZENE	UG/L	<	1	1	1	<	1
TOLUENE	UG/L	<	1	1	1	<	1
ETHYL BENZENE	UG/L	<	10	10	10	<	10
VINYL ACETATE	UG/L	<	1	1	1	<	1
O-XYLENE	UG/L	<	1	1	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	1	1	<	1
BROMOMETHANE	UG/L	<	1	1	1	<	1
CHLOROETHANE	UG/L	<	1	1	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	1	1	<	1
CHLOROMETHANE	UG/L	<	1	1	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	1	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	0.5	0.5	0.5	0.5
ACROLEIN	UG/L	<	10	10	10	<	10
ACRYLONITRILE	UG/L	<	10	10	10	<	10
ACETONITRILE	UG/L	<	20	20	20	<	20
FREON 12 (CCL2F2)	UG/L	<	1	1	1	<	1
FREON 11 (CCL3F)	UG/L	<	1	1	1	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-AVERAGE OF DUPS D-DUP & SPIKE E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ53112 03/25/98	WELL M04A SJ55819 06/01/98	WELL M04A SJ59708 09/09/98	WELL M04A SJ59709 09/09/98	WELL M04A SJ63557 12/10/98	WELL M04A SJ63558 12/10/98
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VOLATILE ORGANIC COMPOUNDS

1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	4	19	13	14	16	18
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	5 A	5 A	5	5	5	5

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROENZILATE	UG/L	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE

C-AVERAGE OF DUPS

D-DUP & SPIKE

E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ53112 03/25/98	WELL M04A SJ55819 06/01/98	WELL M04A SJ59708 09/09/98	WELL M04A SJ59709 09/09/98	WELL M04A SJ63557 12/10/98	WELL M04A SJ63558 12/10/98
ACID-BASE NEUTRAL EXTRACTABLE							
M-NITROANILINE	UG/L	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<
PROPANAMIDE	UG/L	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<
O,O,O-TRITHYLPHOSPHOROTH	UG/L	<	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<
BENZIDINE	UG/L	<	<	<	<	<	<
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	<	<
BENZO(A)PYRENE	UG/L	<	<	<	<	<	<
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	<	<
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	<	<
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	<	<
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	<	<
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	<	<
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<
4-BROMOPHENYL PHTHALATE	UG/L	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<
4-CHLOROPHENYLETHYL ETHER	UG/L	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-AVERAGE OF DUPS D-DUP & SPIKE E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A
SJ53112		SJ55819	SJ59708	SJ59709	SJ63557	SJ63558	
03/25/98		06/01/98	09/09/98	09/09/98	12/10/98	12/10/98	

ACID-BASE NEUTRAL EXTRACTABLE	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
DI-N-BUTYL PHTHALATE	<	<	<	<	<	<	<
2,4-DINITROTOLUENE	<	<	<	<	<	<	<
2,6-DINITROTOLUENE	<	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	<	<	<	<	<	<	<
FLUORANTHENE	<	<	<	<	<	<	<
FLUORENE	<	<	<	<	<	<	<
HEXACHLOROBENZENE	<	<	<	<	<	<	<
HEXACHLOROBUTADIENE	<	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	<	<	<	<	<	<	<
HEXACHLOROETHANE	<	<	<	<	<	<	<
INDENO(1,2,3-C,D) PYRENE	<	<	<	<	<	<	<
ISOPHORONE	<	<	<	<	<	<	<
NAPHTHALENE	<	<	<	<	<	<	<
NITROBENZENE	<	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	<	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	<	<	<	<	<	<	<
PHENANTHRENE	<	<	<	<	<	<	<
PYRENE	<	<	<	<	<	<	<
2-CHLOROPHENOL	<	<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	<	<	<	<	<	<	<
2,4-DICHLOROPHENOL	<	<	<	<	<	<	<
2,4-DIMETHYLPHENOL	<	<	<	<	<	<	<
2,4-DINITROPHENOL	<	<	<	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	<	<	<	<	<	<	<
2-NITROPHENOL	<	<	<	<	<	<	<
4-NITROPHENOL	<	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	<	<	<	<	<	<	<
PENTACHLOROPHENOL	<	<	<	<	<	<	<
PHENOL	<	<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	<	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	<	<	<	<	<	<	<
O-CRESOL	<	<	<	<	<	<	<
M+P CRESOL	<	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-AVERAGE OF DUPS D-DUP & SPIKE E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M04A SJ59706 09/09/98	WEFI M04A SJ59707 09/09/98
CATIONS			
IRON	MG/L	4.84 A	5.72 A
MANGANESE	MG/L	1.28	1.36
METALS			
ARSENIC	MG/L	.0197	.0234
BARIUM	MG/L	0.11	0.09
CADMIUM	MG/L	<0.003	<0.003
TOTAL CHROMIUM	MG/L	<0.01	<0.01
COBALT	MG/L	<0.01	<0.01
COPPER	MG/L	<0.01	<0.01
LEAD	MG/L	<0.02	<0.02
MERCURY	MG/L	<.0001	<.0001
NICKEL	MG/L	0.02	0.03
SELENIUM	MG/L	<.0010	<.0010
SILVER	MG/L	<0.01	<0.01
ZINC	MG/L	0.02	0.02
ANTIMONY	MG/L	<.0005	<.0005
BERYLLIUM	MG/L	<.0025	<.0025
THALLIUM	MG/L	<0.001	<0.001
TIN	MG/L	<0.06	<0.06
VANADIUM	MG/L	<0.05	<0.05

FOOTNOTES : A-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B 03/25/98	WELL M04B SJ55818 06/01/98	WELL M04B SJ59613 09/04/98	WELL M04B SJ59614 09/04/98	WELL M04B SJ64001 12/18/98	
FIELD PARAMETERS							
DEPTH TO WATER	FT	24.01	28.7	32.73	32.73	24.83	
DEPTH TO BOTTOM	FT	109.7	109.7	109.7	109.7	109.8	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	18	17	15	15	16	
FIELD WATER TEMPERATURE	DEG C	15.22	22.12	22.78	22.78	20.78	
FIELD PH	PH	7.19	6.97	7.01	7.01	6.89	
FIELD CONDUCTIVITY	UMHOS/CM	1863	1960	1887	1887	1940	
FIELD DISSOLVED O2	MG/L	0.5	0.29	0.26	0.26	0.2	
FIELD DISSOLVED CO2	MG/L	32	53				
GENERAL							
PH	PH	7.66	7.56	8.00	7.98		C
CONDUCTIVITY	UMHOS/CM	1919	1899				
TOTAL DISSOLVED SOLIDS	MG/L	1591	1521	1571	1576		C
TOTAL HARDNESS	MG/L CaCO3	998	962	A			
TOTAL CYANIDE	MG/L CN	<0.002	<0.002	D			
BORON	MG/L B	0.37	0.50				
ANIONS							
NITRATE	MG/L N	< 0.04	< 0.05	F	< 0.05	D	< 0.05
SULFATE	MG/L SO4	775	773	F	783	D	790
CHLORIDE	MG/L CL	64.9	64.4	F	64.8	D	67.3
TOTAL ALKALINITY	MG/L CaCO3	285	283				
BICARBONATE	MG/L CaCO3	285	283				
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1				
FLUORIDE	MG/L F	0.20	0.17				
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3	479	464	D			
MAGNESIUM-HARDNESS	MG/L CaCO3	519	498	D			
SODIUM	MG/L NA	84.6	87.2	D			
POTASSIUM	MG/L K	6.8	6.9	D			
IRON	MG/L FE	0.92	0.86	D			
MANGANESE	MG/L MN	0.12	0.12	D			
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	1.7	1.8				

FOOTNOTES : A-CALCULATED VALUE B-TEST NOT REQUIRED C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE OF DUPS
 F-AVERAGE G-DUP & SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B 03/25/98	WELL M04B SJ55818 06/01/98	WELL M04B SJ59613 09/04/98	WELL M04B SJ59614 09/04/98	WELL M04B SJ64001 12/18/98
WELL M04B						
SJ53111						
SJ55818						
SJ59613						
SJ59614						
SJ64001						
03/25/98						
06/01/98						
09/04/98						
09/04/98						
12/18/98						

ORGANIC MATTER

TOTAL BOD	MG/L	2	<	2	2	G
SOLUBLE BOD	MG/L	2	<	2	2	
TOTAL COD	MG/L	2	<	10	10	G
SOLUBLE COD	MG/L	3	<	10	10	
TOTAL ORGANIC CARBON	MG/L	0.782	<	0.656		
OIL & GREASE	MG/L	<	1	<	1	
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	1	B		

METALS

ARSENIC	MG/L	0.010	<	0.010		
BARIUM	MG/L	0.02	D	<	0.02	D
CADMIUM	MG/L	<	0.003	D	<	D
TOTAL CHROMIUM	MG/L	0.04	D	0.04	D	D
COBALT	MG/L	<	0.02	D	<	D
COPPER	MG/L	0.01	D	0.01	D	D
LEAD	MG/L	<	0.02	D	<	D
MERCURY	MG/L	0.001	<	0.001		
NICKEL	MG/L	0.02	D	<	0.02	D
SELENIUM	MG/L	0.010	<	0.010		
SILVER	MG/L	0.01	D	<	0.01	D
ZINC	MG/L	0.01	D	0.02		
ANTIMONY	MG/L	0.005	<	0.005		
BERYLLIUM	MG/L	<	0.025	<	0.025	
THALLIUM	MG/L	<	0.001	<	0.001	
TIN	MG/L	0.06	D	<	0.06	D
VANADIUM	MG/L	<	0.05	D	<	D

VOLATILE ORGANIC COMPOUNDS

BROMOCHLOROMETHANE	UG/L	1	<	0.01	1	<	0.01	1	<	0.01	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYL IODIDE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1	<	1	<	1	<	1
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROFORM	UG/L	<	1	<	1	<	1	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3

FOOTNOTES : A-CALCULATED VALUE B-TEST NOT REQUIRED C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE OF DUPS
 F-AVERAGE G-DUP & SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ53111 03/25/98	WELL M04B SJ55818 06/01/98	WELL M04B SJ59613 09/04/98	WELL M04B SJ59614 09/04/98	WELL M04B SJ64001 12/18/98
VOLATILE ORGANIC COMPOUNDS						
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<
VINYL CHLORIDE	UG/L	0.3	0.3	0.3	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5
BENZENE	UG/L	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<
VINYL ACETATE	UG/L	10	10	10	10	10
O-XYLENE	UG/L	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
BROMOETHANE	UG/L	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	10	10	10	10	10
ACRYLONITRILE	UG/L	<	<	<	<	<
FREON 11 (CCl3F)	UG/L	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01	0.01
ACETONE	UG/L	10	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
2-BUTANONE	UG/L	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<	<
STYRENE	UG/L	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<
CARBON DISULFIDE	UG/L	1	1	1	1	1
2-HEXANONE	UG/L	5	5	5	5	5

FOOTNOTES : A-CALCULATED VALUE B-TEST NOT REQUIRED C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE OF DUPS
 F-AVERAGE G-DUP & SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M04B SJ53110 03/25/98	WEFI M04B SJ55817 06/01/98
CATIONS			
IRON	MG/L FE	0.76	0.80
MANGANESE	MG/L MN	0.12	0.12
METALS			
ARSENIC	MG/L AS	< 0.010	< 0.010
BARIIUM	MG/L BA	0.02	0.01
CADMIUM	MG/L CD	< 0.003	0.012
TOTAL CHROMIUM	MG/L CR	< 0.04	< 0.04
COBALT	MG/L CO	< 0.02	< 0.02
COPPER	MG/L CU	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02
MERCURY	MG/L HG	< 0.001	< 0.001 A
NICKEL	MG/L NI	< 0.02	< 0.02
SELENIUM	MG/L SE	< 0.010	< 0.010
SILVER	MG/L AG	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.01	< 0.01
ANTIMONY	MG/L SB	< 0.005	< 0.005 A
BERYLLIUM	MG/L BE	< 0.025	< 0.025 A
THALLIUM	MG/L TL	< 0.001	< 0.001 A
TIN	MG/L SN	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ52357 03/06/98	WELL M05A SJ56291 06/11/98	WELL M05A SJ59855 09/11/98	WELL M05A SJ63560 12/10/98
FIELD PARAMETERS					
DEPTH TO WATER	FT	63.92	59.5	59.64	61.66
DEPTH TO BOTTOM	FT	76.64	76.69	76.58	76.65
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	18	20	18	21
FIELD WATER TEMPERATURE	DEG C	22.41	22.95	23.57	22.14
FIELD PH	PH	6.43	6.27	6.52	7.50
FIELD CONDUCTIVITY	UMHOS/CM	2429	2365	2291	2299
FIELD DISSOLVED O2	MG/L	0.14	0.44	0.25	0.48
FIELD DISSOLVED CO2	MG/L	187	276	168	19
GENERAL					
PH	PH	7.00	7.00	7.05	7.35
CONDUCTIVITY	UMHOS/CM	1424	1442	1467	1465
TOTAL DISSOLVED SOLIDS	MG/L			552	
TOTAL HARDNESS	MG/L CaCO3			<0.005	C
TOTAL CYANIDE	MG/L CN			0.37	
BORON	MG/L B				
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.04	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	300	335	327	316
CHLORIDE	MG/L CL	375	396	421	375
TOTAL ALKALINITY	MG/L CaCO3	287	293	317	344
BICARBONATE ALKALINITY	MG/L CaCO3	287	293	317	344
TOTAL SULFIDE	MG/L S			< 0.1	E
FLUORIDE	MG/L F			0.82	
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	257	292	290	305
MAGNESIUM-HARDNESS	MG/L CaCO3	219	247	251	258
SODIUM	MG/L NA	259	287	291	305
POTASSIUM	MG/L K	6.0	7.0	6.4	6.4
IRON	MG/L FE			0.21	C
MANGANESE	MG/L MN			1.18	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	0.2	< 0.1	0.20	< 0.1

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A	WELL M05A	WELL M05A	WELL M05A
SJ523357		SJ56291	SJ59855	SJ63560	
03/06/98		06/11/98	09/11/98	12/10/98	

CONSTITUENT	WELL M05A	WELL M05A	WELL M05A	WELL M05A
TOTAL BOD	6	11	7	4
SOLUBLE BOD			4	
TOTAL COD	30	32	33	28
SOLUBLE COD	8.72	8.70	9.38	9.52
TOTAL ORGANIC CARBON			C	
OIL & GREASE			< 3.0	
TOTAL ORGANIC HALOGEN (TOX)			320	B

CONSTITUENT	WELL M05A	WELL M05A	WELL M05A	WELL M05A
ARSENIC			.0026	C
BARIUM			0.04	C
CADMIUM			< 0.003	C
TOTAL CHROMIUM			0.04	C
COBALT			< 0.01	C
COPPER			< 0.01	C
LEAD			< 0.02	C
MERCURY			< 0.001	C
NICKEL			< 0.02	C
SELENIUM			< 0.010	C
SILVER			< 0.01	C
ZINC			0.02	C
ANTIMONY			< 0.005	C
BERYLLIUM			< 0.025	C
THALLIUM			< 0.001	C
TIN			< 0.06	C
VANADIUM			< 0.05	C

CONSTITUENT	WELL M05A	WELL M05A	WELL M05A	WELL M05A
2,4,5-T			< 0.05	
DINoseb			< 0.1	
THIONAZIN			< 1	
DIMETHOATE			< 1	
DISULFOTON			< 1	
METHYL PARATHION			< 1	
PHORATE			< 1	
PP'-DDE			< 0.01	
PP'-DDD			< 0.01	
PP'-DDT			< 0.01	

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ52357 03/06/98	WELL M05A SJ56291 06/11/98	WELL M05A SJ59855 09/11/98	WELL M05A SJ63560 12/10/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<
ALDRIN	UG/L	<	<	<	<
DIELDRIN	UG/L	<	<	<	<
ENDRIN	UG/L	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<
METHOXYCHLOR	UG/L	<	<	<	<
2,4-D(ACID)	UG/L	<	<	<	<
2,4,5-TP(SILVEX)	UG/L	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<
BETA-BHC	UG/L	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ52357 03/06/98	WELL M05A SJ56291 06/11/98	WELL M05A SJ59855 09/11/98	WELL M05A SJ63560 12/10/98
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<
BROMOFORM	UG/L	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<
1,2-DICHLOROETHANE	UG/L	0.3	0.5	0.3	0.5
BENZENE	UG/L	0.5	0.1	0.5	0.1
TOLUENE	UG/L	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<
VINYL ACETATE	UG/L	10	10	10	10
O-XYLENE	UG/L	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<
ACROLEIN	UG/L	<	<	<	<
ACRYLONITRILE	UG/L	10	10	10	10
ACETONITRILE	UG/L	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ52357 03/06/98	WELL M05A SJ56291 06/11/98	WELL M05A SJ59855 09/11/98	WELL M05A SJ63560 12/10/98
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5 A	< 5 A	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ52357 03/06/98	WELL M05A SJ56291 06/11/98	WELL M05A SJ59855 09/11/98	WELL M05A SJ63560 12/10/98
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	15
PENTACHLORONITROBENZENE	UG/L	<	<	<	1
PHENACETIN	UG/L	<	<	<	20
P-PHENYLENEDIAMINE	UG/L	<	<	<	1
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZENE	UG/L	<	<	<	1
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	5
SYM-TRINITROBENZENE	UG/L	<	<	<	1
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO(A)ANTHRACENE	UG/L	<	<	<	1
BENZO(A)PYRENE	UG/L	<	<	<	0.2
BENZO(B)FLUORANTHENE	UG/L	<	<	<	1
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	1
BENZO(K)FLUORANTHENE	UG/L	<	<	<	1
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	1
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	1
3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL
M05A	M05A	M05A	M05A
SJ52357	SJ56291	SJ59855	SJ63560
03/06/98	06/11/98	09/11/98	12/10/98

CONSTITUENT/WELL NO. UNITS

ACID-BASE NEUTRAL EXTRACTABLE

DI-N-BUTYL PHTHALATE	UG/L	<	1
2,4-DINITROTOLUENE	UG/L	<	1
2,6-DINITROTOLUENE	UG/L	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	1
FLUORANTHENE	UG/L	<	1
FLUORENE	UG/L	<	1
HEXACHLOROBENZENE	UG/L	<	1
HEXACHLOROBUTADIENE	UG/L	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5
HEXACHLOROETHANE	UG/L	<	1
INDENO(1,2,3-C,D)PYRENE	UG/L	<	1
ISOPHORONE	UG/L	<	1
NAPHTHALENE	UG/L	<	1
NITROBENZENE	UG/L	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1
PHENANTHRENE	UG/L	<	1
PYRENE	UG/L	<	1
2-CHLOROPHENOL	UG/L	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1
2,4-DICHLOROPHENOL	UG/L	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1
2,4-DINITROPHENOL	UG/L	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1
2-NITROPHENOL	UG/L	<	1
4-NITROPHENOL	UG/L	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1
PENTACHLOROPHENOL	UG/L	<	1
PHENOL	UG/L	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1
O-CRESOL	UG/L	<	1
M+P CRESOL	UG/L	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI
MOSA		SJ59854
		09/11/98
CATIONS		
IRON	MG/L FE	0.07
MANGANESE	MG/L MN	1.14
METALS		
ARSENIC	MG/L AS	.0019
BARIUM	MG/L BA	0.04
CADMIUM	MG/L CD	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	< 0.02
MERCURY	MG/L HG	<.0001 A
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	<.0010
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	0.02
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025
THALLIUM	MG/L TL	<0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6
FIELD PARAMETERS							
DEPTH TO WATER	FT	55.86	52.38	52.5	90.92	90.92	54.84
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	20	20	20	20	20
FIELD WATER TEMPERATURE	DEG C	21.95	22.12	22.46	22.46	22.46	21.28
FIELD PH	PH	6.56	6.43	6.56	6.56	6.56	7.33
FIELD CONDUCTIVITY	UMHOS/CM	2257	2222	2226	2226	2226	2136
FIELD DISSOLVED O2	MG/L	0.28	0.24	0.4	0.4	0.4	0.34
FIELD DISSOLVED CO2	MG/L	204	289	225	225	225	34
GENERAL							
PH	PH	7.19	7.05 C	7.03	6.99 C	6.95	7.18
CONDUCTIVITY	UMHOS/CM	1648	1604	1642 A	2380 A	2390	1693
TOTAL DISSOLVED SOLIDS	MG/L				1728	1730	
TOTAL HARDNESS	MG/L				998 E	1008 E	
TOTAL CYANIDE	MG/L CN				<0.005	<0.005	
BORON	MG/L B				0.83	0.87	
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.04	< 0.05 D	< 0.05 D	< 0.05 D	< 0.05	< 0.05
SULFATE	MG/L SO4	603	612 D	611 D	611 D	600	705
CHLORIDE	MG/L CL	132 A	151 D	150 D	228	227	118
TOTAL ALKALINITY	MG/L CACO3	423	443	442	466 A	479	417
BICARBONATE ALKALINITY	MG/L CACO3	423	443	442	466	479	417
TOTAL SULFIDE	MG/L S				< 0.1	< 0.1	
FLUORIDE	MG/L F				0.73	0.79	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	514	494	492	537	547	499 F
MAGNESIUM-HARDNESS	MG/L CACO3	461	457	449	461	461	465 F
SODIUM	MG/L NA	150	148	149	156	156	154 F
POTASSIUM	MG/L K	6.3	5.8	6.2	7.2	6.7	6.4 F
IRON	MG/L FE				0.06	0.08	
MANGANESE	MG/L MN				6.71	6.74	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	0.2	0.4	0.3	0.2	0.3	0.2

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE OF DUPS D-AVERAGE E-CALCULATED VALUE F-DUPLICATE SPIKE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6
SJ52307	SJ56094	SJ56095	SJ59898	SJ59899	SJ63561
03/05/98	06/08/98	06/08/98	09/14/98	09/14/98	12/10/98

UNITS

CONSTITUENT/WELL NO.

ORGANIC MATTER

TOTAL BOD	MG/L	O	<	2	<	2	A	<	2	<	2	<	2
SOLUBLE BOD	MG/L	O	<	2	<	17		<	18	A	<	2	
TOTAL COD	MG/L	O	<	11		13		<	14		<	10	
SOLUBLE COD	MG/L	O	<	3.85		6.12		<	6.17		<	3.33	
TOTAL ORGANIC CARBON	MG/L	C	<	4.24		4.21		<	4.0	F	<		
OIL & GREASE	MG/L		<	4.24		4.21		<	4.0	F	<		
TOTAL ORGANIC HALOGEN (TOX)	UG/L		<	72	D	72	D	<	51	D	<		

METALS

ARSENIC	MG/L	AS	<	0.010		<	0.010		<	0.010		<	0.010
BARIUM	MG/L	BA	<	0.04		<	0.04		<	0.04		<	0.04
CADMIUM	MG/L	CD	<	0.003		<	0.003		<	0.003		<	0.003
TOTAL CHROMIUM	MG/L	CR	<	0.01		<	0.01		<	0.01		<	0.01
COBALT	MG/L	CO	<	0.01		<	0.01		<	0.01		<	0.01
COPPER	MG/L	CU	<	0.01		<	0.01		<	0.01		<	0.01
LEAD	MG/L	PB	<	0.02		<	0.02		<	0.02		<	0.02
MERCURY	MG/L	HG	<	0.001		<	0.001		<	0.001		<	0.001
NICKEL	MG/L	NI	<	0.02		<	0.02		<	0.02		<	0.02
SELENIUM	MG/L	SE	<	0.010		<	0.010		<	0.010		<	0.010
SILVER	MG/L	AG	<	0.01		<	0.01		<	0.01		<	0.01
ZINC	MG/L	ZN	<	0.01		<	0.01		<	0.01		<	0.01
ANTIMONY	MG/L	SB	<	0.005		<	0.005		<	0.005		<	0.005
BERYLLIUM	MG/L	BE	<	0.025		<	0.025		<	0.025		<	0.025
THALLIUM	MG/L	TL	<	0.001		<	0.001		<	0.001		<	0.001
TIN	MG/L	SN	<	0.06		<	0.06		<	0.06		<	0.06
VANADIUM	MG/L	V	<	0.05		<	0.05		<	0.05		<	0.05

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-T	UG/L		<	0.05		<	0.05		<	0.05		<	0.05
DINoseb	UG/L		<	0.1		<	0.1		<	0.1		<	0.1
THIONAZIN	UG/L		<	1		<	1		<	1		<	1
DIMETHOATE	UG/L		<	1		<	1		<	1		<	1
DISULFOTON	UG/L		<	1		<	1		<	1		<	1
METHYL PARATHION	UG/L		<	1		<	1		<	1		<	1
ETHYL PARATHION	UG/L		<	1		<	1		<	1		<	1
PHORATE	UG/L		<	0.01		<	0.01		<	0.01		<	0.01
PP'-DDE	UG/L		<	0.01		<	0.01		<	0.01		<	0.01
PP'-DDD	UG/L		<	0.01		<	0.01		<	0.01		<	0.01
PP'-DDT	UG/L		<	0.01		<	0.01		<	0.01		<	0.01

FOOTNOTES : A-DUP & SPIKE
F-DUPLICATE SPIKE

B-AMENDED TEST RESULT

C-AVERAGE OF DUPS

D-AVERAGE

E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ52307 03/05/98	WELL RMW6 SJ56094 06/08/98	WELL RMW6 SJ56095 06/08/98	WELL RMW6 SJ59898 09/14/98	WELL RMW6 SJ59899 09/14/98	WELL RMW6 SJ63561 12/10/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2, 4-D (ACID)	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2, 4, 5-TP (SILVEX)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1, 2-DIBROMO-3-CHLOROPROPA	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
T-1, 4-DICHLORO-2-BUTENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1, 3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2, 2-DICHLOROPROPENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
1, 1-DICHLOROPROPENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
ISOBUTYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHACRYLONITRILE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE OF DUPS D-AVERAGE E-CALCULATED VALUE
F-DUPLICATE SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6
VOLATILE ORGANIC COMPOUNDS									
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
1,1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<
1,1-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE
F-DUPLICATE SPIKE

B-AMENDED TEST RESULT C-AVERAGE OF DUPS D-AVERAGE E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6
SJ52307	SJ56094	SJ56095	SJ59898	SJ59899	SJ63561		
03/05/98	06/08/98	06/08/98	09/14/98	09/14/98	12/10/98		

VOLATILE ORGANIC COMPOUNDS

1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	10	10	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	12	13	13	9	10	14
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	5 B	5 B	5 B	5	5	5

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE OF DUPS D-AVERAGE E-CALCULATED VALUE F-DUPLICATE SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ52307 03/05/98	WELL RMW6 SJ56094 06/08/98	WELL RMW6 SJ56095 06/08/98	WELL RMW6 SJ59898 09/14/98	WELL RMW6 SJ59899 09/14/98	WELL RMW6 SJ63561 12/10/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<
O,O,O-TRITHYLPHOSPHOROTH	UG/L	<	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<
BENZIDINE	UG/L	<	<	<	<	<	<
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	<	<
BENZO(A)PYRENE	UG/L	<	<	<	<	<	<
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	<	<
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	<	<
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	<	<
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	<	<
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	<	<
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE
 F-DUPLICATE SPIKE

E-CALCULATED VALUE

D-AVERAGE

C-AVERAGE OF DUPS

B-AMENDED TEST RESULT

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ52307 03/05/98	WELL RMW6 SJ56094 06/08/98	WELL RMW6 SJ56095 06/08/98	WELL RMW6 SJ59898 09/14/98	WELL RMW6 SJ59899 09/14/98	WELL RMW6 SJ63561 12/10/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<	<	<
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<	<
2-METHYL-4,6DINITROPHENOL	UG/L	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE F-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE OF DUPS D-AVERAGE E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI RMW6 SJ59896 09/14/98	WEFI RMW6 SJ59897 09/14/98
CATIONS			
IRON	MG/L FE	< 0.05	0.09
MANGANESE	MG/L MN	6.61	6.81
METALS			
ARSENIC	MG/L AS	< 0.010	< 0.010
BARIIUM	MG/L BA	0.04	0.04
CADMIUM	MG/L CD	< 0.003	< 0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02
MERCURY	MG/L HG	< 0.001	< 0.001
NICKEL	MG/L NI	< 0.02	< 0.02
SELENIUM	MG/L SE	< 0.010	< 0.010
SILVER	MG/L AG	< 0.01	< 0.01
ZINC	MG/L ZN	0.01	0.01
ANTIMONY	MG/L SB	< 0.005	< 0.005
BERYLLIUM	MG/L BE	< 0.025	< 0.025
THALLIUM	MG/L TL	< 0.001	< 0.001
TIN	MG/L SN	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ53107 03/25/98	WELL M10B SJ53108 03/25/98	WELL M10B SJ56099 06/08/98	WELL M10B SJ56100 06/08/98	WELL M10B SJ59713 09/09/98	WELL M10B SJ63297 12/04/98
FIELD PARAMETERS							
DEPTH TO WATER	FT	49.95	45.03	89.39	44.1	51.09	
DEPTH TO BOTTOM	FT	89.48	89.54	89.39	89.39	89.45	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	21	19	16	16	16	
FIELD WATER TEMPERATURE	DEG C	20.06	20.99	24.28	24.28	21.76	
FIELD PH	PH	6.39	6.35	6.48	6.48	6.41	
FIELD CONDUCTIVITY	UMHOS/CM	2423	2340	2351	2351	2330	
FIELD DISSOLVED O2	MG/L	1.01	0.97	0.39	0.39	0.82	
FIELD DISSOLVED CO2	MG/L	331	348	247	247	290	
GENERAL							
PH	PH	6.90	6.87	7.17	7.13	6.87	7.08
CONDUCTIVITY	UMHOS/CM					2360	
TOTAL DISSOLVED SOLIDS	MG/L	1884	1842 B	1852	1928 B	1874	1862
TOTAL HARDNESS	MG/L CaCO3					1051 E	
TOTAL CYANIDE	MG/L CN					<0.005	
BORON	MG/L B					0.58	
ANIONS							
NITRATE NITROGEN	MG/L N	0.07	0.06	0.32 D	0.34 D	0.60 D	0.19
SULFATE	MG/L SO4	870	870	836 D	833 D	840	844
CHLORIDE	MG/L CL	112	112	111 D	110 D	110	106
TOTAL ALKALINITY	MG/L CaCO3	463	462	444 B	440	425	424
BICARBONATE ALKALINITY	MG/L CaCO3	463	462	444	440	425	424
TOTAL SULFIDE	MG/L S					< 0.1	
FLUORIDE	MG/L F					0.98	
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3	589	612	587	584 C	582	567
MAGNESIUM-HARDNESS	MG/L CaCO3	527	523	510	502 C	469	523
SODIUM	MG/L NA	168	173	162	163 C	151	163
POTASSIUM	MG/L K	6.6	6.6	5.8	5.9 C	6.8	6.5
IRON	MG/L FE					0.83	
MANGANESE	MG/L MN					1.60	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	0.2	0.1	0.3	0.3	0.40	0.2

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	WELL M10B	WELL M10B	WELL M10B	WELL M10B	WELL M10B	WELL M10B	UNITS
ORGANIC MATTER							
TOTAL BOD							MG/L
SOLUBLE BOD							O
TOTAL COD							MG/L
SOLUBLE COD							O
TOTAL ORGANIC CARBON							MG/L
OIL & GREASE							C
TOTAL ORGANIC HALOGEN (TOX)							UG/L
							EXTRAC
METALS							
ARSENIC							MG/L
BARIUM							AS
CADMIUM							MG/L
TOTAL CHROMIUM							BA
COBALT							MG/L
COPPER							CD
LEAD							MG/L
MERCURY							CR
NICKEL							CO
SELENIUM							MG/L
SILVER							PB
ZINC							HG
ANTIMONY							MG/L
BERYLLIUM							NI
THALLIUM							MG/L
TIN							SE
VANADIUM							MG/L
							AG
							ZN
							SB
							BE
							Tl
							MG/L
							SN
							V
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T							UG/L
DINOSEB							UG/L
THIONAZIN							UG/L
DIMETHOATE							UG/L
DISULFOTON							UG/L
METHYL PARATHION							UG/L
ETHYL PARATHION							UG/L
PHORATE							UG/L
PP'-DDE							UG/L
PP'-DDD							UG/L
PP'-DDT							UG/L

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ53107	WELL M10B SJ53108	WELL M10B SJ56099	WELL M10B SJ56100	WELL M10B SJ59713	WELL M10B SJ63297
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	<	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B		WELL M10B		WELL M10B		WELL M10B		D-AVERAGE	E-CALCULATED VALUE
		03/25/98	03/25/98	06/08/98	06/08/98	09/09/98	09/09/98	12/04/98			
VOLATILE ORGANIC COMPOUNDS											
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
1,1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYL METHACRYLATE	UG/L	<	1	<	1	<	1	<	1	<	1
ETHYL METHACRYLATE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROFORM	UG/L	<	1	<	1	<	1	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<	1	<	1	<	1
1,1-DICHLOROETHYLENE	UG/L	<	7	<	6	<	5	<	5	<	6
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
BROMOFORM	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1
VINYL CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1
O-DICHLOROBENZENE	UG/L	<	3	<	3	<	2	<	2	<	2
M-DICHLOROBENZENE	UG/L	<	5	<	4	<	4	<	4	<	3
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1
1,1-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	1	<	1	<	1	<	1	<	1
TOLUENE	UG/L	<	1	<	1	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	10	<	10	<	10	<	10	<	10
VINYL ACETATE	UG/L	<	1	<	1	<	1	<	1	<	1
O-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1
ACETONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1
FREON 12 (CCL2F2)	UG/L	<	1	<	1	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1	<	1	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ53107 03/25/98	WELL M10B SJ53108 03/25/98	WELL M10B SJ56099 06/08/98	WELL M10B SJ56100 06/08/98	WELL M10B SJ59713 09/09/98	WELL M10B SJ63297 12/04/98	D-AVERAGE	E-CALCULATED VALUE
VOLATILE ORGANIC COMPOUNDS									
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<	<
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	58	56	43	40	34	28		
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	<	<
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	<	<
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	<	<
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	<	<
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	<	<
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	<	<
2-HEXANONE	UG/L	5	5	5	5	5	5		
ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ53107 03/25/98	WELL M10B SJ53108 03/25/98	WELL M10B SJ56099 06/08/98	WELL M10B SJ56100 06/08/98	WELL M10B SJ59713 09/09/98	WELL M10B SJ63297 12/04/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L						
M-NITROANILINE	UG/L						
P-NITROANILINE	UG/L						
N-NITROSODI-N-BUTYLAMINE	UG/L						
N-NITROSODIETHYLAMINE	UG/L						
N-NITROSOMETHYLETHYLAMINE	UG/L						
N-NITROSOPIPERIDINE	UG/L						
N-NITROSOPYRROLIDINE	UG/L						
5-NITRO-O-TOLUIDINE	UG/L						
PENTACHLOROBENZENE	UG/L						
PENTACHLORONITROBENZENE	UG/L						
PHENACETIN	UG/L						
P-PHENYLENEDIAMINE	UG/L						
PRONAMIDE	UG/L						
SAFROLE	UG/L						
1,2,4,5-TETRACHLOROBENZENE	UG/L						
2,3,4,6-TETRACHLOROPHENOL	UG/L						
O-TOLUIDINE	UG/L						
O,O,O-TRIETHYLPHOSPHOROTH	UG/L						
SYM-TRINITROBENZENE	UG/L						
ACENAPHTHENE	UG/L						
ACENAPHTHYLENE	UG/L						
ANTHRACENE	UG/L						
BENZIDINE	UG/L						
BENZO (A) ANTHRACENE	UG/L						
BENZO (A) PYRENE	UG/L						
BENZO (B) FLUORANTHENE	UG/L						
BENZO (G, H, I) PERYLENE	UG/L						
BENZO (K) FLUORANTHENE	UG/L						
BIS (2-CL-ETHOXY) METHANE	UG/L						
BIS (2-CHLOROETHYL) ETHER	UG/L						
BIS (2-CL-ISOPROPYL) ETHER	UG/L						
DIETHYLHEXYL PHTHALATE	UG/L						
4-BROMOPHENYL PHENYLETHER	UG/L						
BUTYLBENZYL PHTHALATE	UG/L						
2-CHLORONAPHTHALENE	UG/L						
4-CHLOROPHENYLPHENYLETHER	UG/L						
CHRYSENE	UG/L						
DIBENZO (A, H) ANTHRACENE	UG/L						
3,3'-DICHLOROBENZIDINE	UG/L						
DIETHYL PHTHALATE	UG/L						
DIMETHYL PHTHALATE	UG/L						

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ53107 03/25/98	WELL M10B SJ53108 03/25/98	WELL M10B SJ56099 06/08/98	WELL M10B SJ56100 06/08/98	WELL M10B SJ59713 09/09/98	WELL M10B SJ63297 12/04/98
ACID-BASE NEUTRAL EXTRACTABLE							
DI-N-BUTYL PHTHALATE	UG/L						
2,4-DINITROTOLUENE	UG/L						
2,6-DINITROTOLUENE	UG/L						
DI-N-OCTYL PHTHALATE	UG/L						
FLUORANTHENE	UG/L						
FLUORENE	UG/L						
HEXACHLOROBENZENE	UG/L						
HEXACHLOROBUTADIENE	UG/L						
HEXACHLOROCYCLOPENTADIENE	UG/L						
HEXACHLOROETHANE	UG/L						
INDENO(1,2,3-C,D) PYRENE	UG/L						
ISOPHORONE	UG/L						
NAPHTHALENE	UG/L						
NITROBENZENE	UG/L						
N-NITROSODIMETHYLAMINE	UG/L						
N-NITROSODI-N-PROPYLAMINE	UG/L						
PHENANTHRENE	UG/L						
PYRENE	UG/L						
2-CHLOROPHENOL	UG/L						
1,2,4-TRICHLOROBENZENE	UG/L						
2,4-DICHLOROPHENOL	UG/L						
2,4-DIMETHYLPHENOL	UG/L						
2,4-DINITROPHENOL	UG/L						
2-METHYL-4,6DINITROPHENOL	UG/L						
4-NITROPHENOL	UG/L						
4-CHLORO-3-METHYLPHENOL	UG/L						
PENTACHLOROPHENOL	UG/L						
PHENOL	UG/L						
2,4,6-TRICHLOROPHENOL	UG/L						
N-NITROSODIPHENYLAMINE	UG/L						
O-CRESOL	UG/L						
M+P CRESOL	UG/L						

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M10B SJ59711 09/09/98
CATIONS		
IRON	MG/L FE	< 0.05
MANGANESE	MG/L MN	1.58
METALS		
ARSENIC	MG/L AS	< .0010
BARIIUM	MG/L BA	0.02
CADMIUM	MG/L CD	< 0.003
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	< 0.02
MERCURY	MG/L HG	< .0001
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	.0022
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	0.01
ANTIMONY	MG/L SB	< .0005
BERYLLIUM	MG/L BE	< .0025
THALLIUM	MG/L TL	< 0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ523359 03/06/98	WELL M11A SJ56098 06/08/98	WELL M11A SJ59856 09/11/98	WELL M11A SJ63902 12/16/98	WELL M11A SJ63903 12/16/98
FIELD PARAMETERS						
DEPTH TO WATER	FT	24.9	25.06	25.13	25.42	25.42
DEPTH TO BOTTOM	FT	45.46	45.46	45.4	45.49	45.49
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	18	18	17	14	14
FIELD WATER TEMPERATURE	DEG C	20.02	23.21	23.21	21.14	21.14
FIELD PH	PH	6.79	6.71	6.67	6.49	6.49
FIELD CONDUCTIVITY	UMHOS/CM	1771	1684	1643	1610	1610
FIELD DISSOLVED O2	MG/L	0.32	0.4	0.37	0.31	0.31
FIELD DISSOLVED CO2	MG/L	104	131		13	13
GENERAL						
PH	PH	7.31	7.35	7.26	7.21	7.23
CONDUCTIVITY	UMHOS/CM	1699	1713	1274	1302	1294
TOTAL DISSOLVED SOLIDS	MG/L	1300	1296			
TOTAL HARDNESS	MG/L CaCO3	901	835			
TOTAL CYANIDE	MG/L CN	<0.002	<0.002			
BORON	MG/L B	0.41	0.52			
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.04	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	620	528	562	560	564
CHLORIDE	MG/L CL	64.5	68.0	72.0	67.5	67.9
TOTAL ALKALINITY	MG/L CaCO3	365	383			
BICARBONATE ALKALINITY	MG/L CaCO3	365	383			
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1			
FLUORIDE	MG/L F	0.51	0.60			
CATIONS						
CALCIUM-HARDNESS	MG/L CaCO3	492	449			
MAGNESIUM-HARDNESS	MG/L CaCO3	409	386			
SODIUM	MG/L NA	80.9	75.2			
POTASSIUM	MG/L K	7.3	7.1			
IRON	MG/L FE	1.21	1.07			
MANGANESE	MG/L MN	0.16	0.13			
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	0.4	0.5			
FOOTNOTES :						
A-DUP & SPIKE				C-AVERAGE OF DUPS		E-AMENDED TEST RESULT
F-AVERAGE				D-CALCULATED VALUE		

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A	WELL M11A	WELL M11A	WELL M11A
ORGANIC MATTER					
TOTAL BOD	MG/L O	15	15	15	15
SOLUBLE BOD	MG/L O	8	8	8	8
TOTAL COD	MG/L O	39	39	39	39
SOLUBLE COD	MG/L O	22	22	22	22
TOTAL ORGANIC CARBON	MG/L C	6.59	6.59	6.59	6.59
OIL & GREASE	MG/L EXTRAC	< 1	< 1	< 1	< 1
METALS					
ARSENIC	MG/L AS	.0021	.0021	.0021	.0021
BARIUM	MG/L BA	0.02	0.02	0.02	0.02
CADMIUM	MG/L CD	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	<0.04	<0.01	<0.01	<0.01
COBALT	MG/L CO	<0.02	<0.02	<0.02	<0.02
COPPER	MG/L CU	<0.01	<0.01	<0.01	<0.01
LEAD	MG/L PB	<0.02	<0.02	<0.02	<0.02
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001
NICKEL	MG/L NI	<0.02	<0.02	<0.02	<0.02
SELENIUM	MG/L SE	<.0010	<.0010	<.0010	<.0010
SILVER	MG/L AG	<0.01	<0.01	<0.01	<0.01
ZINC	MG/L ZN	0.03	0.03	0.03	0.03
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0025	<.0025	<.0025	<.0025
THALLIUM	MG/L TL	<0.001	<0.001	<0.001	<0.001
TIN	MG/L SN	<0.06	<0.06	<0.06	<0.06
VANADIUM	MG/L V	<0.05	<0.05	<0.05	<0.05
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L	<0.01	<0.01	<0.01	<0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<0.01	<0.01	<0.01	<0.01
1-1,4-DICHLORO-2-BUTENE	UG/L	<0.01	<0.01	<0.01	<0.01
METHYL IODIDE	UG/L	<0.01	<0.01	<0.01	<0.01
METHYLENE BROMIDE	UG/L	<0.01	<0.01	<0.01	<0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	<0.01	<0.01	<0.01	<0.01
1,2,3-TRICHLOROPROPANE	UG/L	<0.01	<0.01	<0.01	<0.01
METHYLENE CHLORIDE	UG/L	<0.01	<0.01	<0.01	<0.01
CHLOROFORM	UG/L	<0.01	<0.01	<0.01	<0.01
1,1,1-TRICHLOROETHANE	UG/L	<0.01	<0.01	<0.01	<0.01
CARBON TETRACHLORIDE	UG/L	<0.01	<0.01	<0.01	<0.01
1,1-DICHLOROETHENE	UG/L	<0.01	<0.01	<0.01	<0.01

FOOTNOTES : A-DUP & SPIKE F-AVERAGE B-DUPLICATE SPIKE C-AVERAGE OF DUPS D-CALCULATED VALUE E-AMENDED TEST RESULT

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ52359 03/06/98	WELL M11A SJ56098 06/08/98	WELL M11A SJ59856 09/11/98	WELL M11A SJ63902 12/16/98	WELL M11A SJ63903 12/16/98
VOLATILE ORGANIC COMPOUNDS						
TRICHLOROETHYLENE	UG/L	<	1	<	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	<	1
BROMOFORM	UG/L	<	1	<	<	1
CHLOROFORM	UG/L	<	1	<	<	1
VINYL CHLORIDE	UG/L	0.3	0.3	<	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<
1,2-DICHLOROETHANE	UG/L	0.5	0.5	<	0.5	0.5
BENZENE	UG/L	<	<	<	<	<
TOLUENE	UG/L	<	1	<	<	1
ETHYL BENZENE	UG/L	<	10	<	<	10
VINYL ACETATE	UG/L	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	<	0.5	0.5
ACRYLONITRILE	UG/L	<	10	<	10	10
FREON 11 (CCl3F)	UG/L	<	1	<	1	1
1,2-DIBROMOETHANE	UG/L	<	0.01	<	0.01	0.01
ACETONE	UG/L	<	10	<	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
2-BUTANONE	UG/L	<	10	<	10	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	10
STYRENE	UG/L	<	1	<	1	1
M+P-XYLENE	UG/L	<	1	<	1	1
CARBON DISULFIDE	UG/L	<	1	<	1	1
2-HEXANONE	UG/L	5	5	<	5	5
		E	E			

FOOTNOTES : A-DUP & SPIKE F-AVERAGE B-DUPLICATE SPIKE C-AVERAGE OF DUPS D-CALCULATED VALUE E-AMENDED TEST RESULT

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M11A SJ52358 03/06/98	WEFI M11A SJ56097 06/08/98
CATIONS			
IRON	MG/L	0.98	A 0.35
MANGANESE	MG/L	0.15	A 0.13
METALS			
ARSENIC	MG/L	.0027	.0041
BARIUM	MG/L	0.02	0.02
CADMIUM	MG/L	<0.003	A <0.003
TOTAL CHROMIUM	MG/L	<0.04	A <0.01
COBALT	MG/L	<0.02	A <0.01
COPPER	MG/L	<0.01	A <0.01
LEAD	MG/L	<0.02	A <0.02
MERCURY	MG/L	<.0001	A <.0001
NICKEL	MG/L	<0.02	A <0.02
SELENIUM	MG/L	<.0010	SE <.0010
SILVER	MG/L	<0.01	A <0.01
ZINC	MG/L	0.02	A <0.01
ANTIMONY	MG/L	<.0005	<.0005
BERYLLIUM	MG/L	<.0025	<.0025
THALLIUM	MG/L	<0.001	<0.001 B
TIN	MG/L	<0.06	A <0.06
VANADIUM	MG/L	<0.05	A <0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ52609 03/13/98	WELL EMP4 SJ52610 03/13/98	WELL EMP4 SJ56292 06/11/98	WELL EMP4 SJ56293 06/11/98	WELL EMP4 SJ59670 09/08/98	WELL EMP4 SJ63901 12/16/98
FIELD PARAMETERS							
DEPTH TO WATER	FT	19.65	19.48	19.83	19.43	19.61	19.61
DEPTH TO BOTTOM	FT	183.8	183.8	183.8	183.9	183.8	183.8
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	20	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	20	20	17	20	20
FIELD WATER TEMPERATURE	DEG C	19.58	19.83	19.83	25.86	20.49	20.49
FIELD PH	PH	7.34	6.92	6.92	7.21	6.97	6.97
FIELD CONDUCTIVITY	UMHOS/CM	1760	1732	1732	1755	1634	1634
FIELD DISSOLVED O2	MG/L	0.18	0.09	0.09	0.07	0.24	0.24
FIELD DISSOLVED CO2	MG/L	0.30	0.81	0.81	0.33	0.33	0.33
GENERAL							
PH	PH	7.54 A	7.63	7.57	7.61 A	7.45 A	7.55
CONDUCTIVITY	UMHOS/CM	1196	1231	1220	1240 B	1233	1213
TOTAL DISSOLVED SOLIDS	MG/L						
TOTAL HARDNESS	MG/L						
TOTAL CYANIDE	MG/L CN						
BORON	MG/L B						
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.04	< 0.04	< 0.05 E	< 0.05 E	< 0.05	< 0.05
SULFATE	MG/L SO4	420 B	437	467	469 E	478 E	471
CHLORIDE	MG/L CL	84.3	84.3	80.8 E	77.5 E	79.3 E	76.1 E
TOTAL ALKALINITY	MG/L CACO3	372	364	382	374	307	307
BICARBONATE ALKALINITY	MG/L CACO3	372	364	370	364	307	307
TOTAL SULFIDE	MG/L S						
FLUORIDE	MG/L F					0.9	0.59
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	387 D	387	412	412	395	395
MAGNESIUM-HARDNESS	MG/L CACO3	270 D	269	279	272	272	272
SODIUM	MG/L NA	156 D	156	146	143	146	146
POTASSIUM	MG/L K	8.7 D	8.5	9.1	9.0	8.9	8.9
IRON	MG/L FE					2.35	2.35
MANGANESE	MG/L MN					0.38	0.38
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	0.1	0.1	< 0.1	0.2	0.40	0.40

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4
SJ52609		SJ52610	SJ56292	SJ56293	SJ59670	SJ63901	
03/13/98		03/13/98	06/11/98	06/11/98	09/08/98	12/16/98	
ORGANIC MATTER							
TOTAL BOD	MG/L	<	4	6	4	5	8
SOLUBLE BOD	MG/L	<	4	6	4	5	4
TOTAL COD	MG/L	<	6	4	4	10	10
SOLUBLE COD	MG/L	<	1.93	1.78	1.96	2.04	2.52
TOTAL ORGANIC CARBON	MG/L	<	1.93	1.78	1.96	2.04	2.52
OIL & GREASE	MG/L	<	1.93	1.78	1.96	2.04	2.52
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	1.93	1.78	1.96	2.04	2.52
METALS							
ARSENIC	MG/L	<	0.048	<	<	<	<
BARIUM	MG/L	<	0.02	<	<	<	<
CADMIUM	MG/L	<	0.003	<	<	<	<
TOTAL CHROMIUM	MG/L	<	0.10	<	<	<	<
COBALT	MG/L	<	0.01	<	<	<	<
COPPER	MG/L	<	0.01	<	<	<	<
LEAD	MG/L	<	0.02	<	<	<	<
MERCURY	MG/L	<	0.001	<	<	<	<
NICKEL	MG/L	<	0.02	<	<	<	<
SELENIUM	MG/L	<	0.010	<	<	<	<
SILVER	MG/L	<	0.01	<	<	<	<
ZINC	MG/L	<	0.14	<	<	<	<
ANTIMONY	MG/L	<	0.005	<	<	<	<
BERYLLIUM	MG/L	<	0.025	<	<	<	<
THALLIUM	MG/L	<	0.001	<	<	<	<
TIN	MG/L	<	0.06	<	<	<	<
VANADIUM	MG/L	<	0.05	<	<	<	<
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L	<	<	<	<	<	1
DINOSB	UG/L	<	<	<	<	<	2
THIONAZIN	UG/L	<	<	<	<	<	1
DIMETHOATE	UG/L	<	<	<	<	<	1
DISULFOTON	UG/L	<	<	<	<	<	1
METHYL PARATHION	UG/L	<	<	<	<	<	1
ETHYL PARATHION	UG/L	<	<	<	<	<	1
PHORATE	UG/L	<	<	<	<	<	1
PP'-DDE	UG/L	<	<	<	<	<	0.01
PP'-DDD	UG/L	<	<	<	<	<	0.01
PP'-DDT	UG/L	<	<	<	<	<	0.01

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 03/13/98	WELL EMP4 SJ52609 03/13/98	WELL EMP4 SJ52610 06/11/98	WELL EMP4 SJ56292 06/11/98	WELL EMP4 SJ56293 06/11/98	WELL EMP4 SJ59670 09/08/98	WELL EMP4 SJ63901 12/16/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
ALPHA-BHC	UG/L	<	<	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<	<	<
DELDRIN	UG/L	<	<	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS								
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ52609 03/13/98	WELL EMP4 SJ52610 03/13/98	WELL EMP4 SJ56292 06/11/98	WELL EMP4 SJ56293 06/11/98	WELL EMP4 SJ59670 09/08/98	WELL EMP4 SJ63901 12/16/98
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	10	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<
1,1,1-TRICHLORORIDE	UG/L	<	0.3	<	0.3	<	0.3
1,1-DICHLOROTHENE	UG/L	<	<	<	<	<	<
1,1-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	0.3	<	<	<	0.3
VINYL CHLORIDE	UG/L	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	0.3	<	0.3	<	<	0.3
1,2-DICHLOROETHANE	UG/L	0.5	<	0.5	<	<	0.5
BENZENE	UG/L	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<
ETHYL BENZENE	UG/L	10	<	10	<	<	10
VINYL ACETATE	UG/L	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	0.5	<	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	0.5	<	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	0.5	<	<	0.5
ACROLEIN	UG/L	<	<	<	<	<	<
ACRYLONITRILE	UG/L	10	<	10	<	<	10
ACETONITRILE	UG/L	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4
SJ52609	SJ52610	SJ56292	SJ56293	SJ59670	SJ63901
03/13/98	03/13/98	06/11/98	06/11/98	09/08/98	12/16/98

CONSTITUENT/WELL NO.	UNITS
1,2-DIBROMOETHANE	UG/L
ACETONE	UG/L
CIS-1,2-DICHLOROETHYLENE	UG/L
2-BUTANONE	UG/L
4-METHYL-2-PENTANONE	UG/L
STYRENE	UG/L
2,4,5-TRICHLOROPHENOL	UG/L
M+P-XYLENE	UG/L
CARBON DISULFIDE	UG/L
2-HEXANONE	UG/L

VOLATILE ORGANIC COMPOUNDS

1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<	<
3,3-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 03/13/98	WELL EMP4 03/13/98	WELL EMP4 06/11/98	WELL EMP4 06/11/98	WELL EMP4 09/08/98	WELL EMP4 12/16/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L						
M-NITROANILINE	UG/L						
P-NITROANILINE	UG/L						
N-NITRODI-N-BUTYLAMINE	UG/L						
N-NITROSODIETHYLAMINE	UG/L						
N-NITROSOMETHYLETHYLAMINE	UG/L						
N-NITROSOPIPERIDINE	UG/L						
N-NITROSOPYRROLIDINE	UG/L						
5-NITRO-O-TOLUIDINE	UG/L						
PENTACHLOROBENZENE	UG/L						
PENTACHLORONITROBENZENE	UG/L						
PHENACETIN	UG/L						
P-PHENYLENEDIAMINE	UG/L						
PRONAMIDE	UG/L						
SAFROLE	UG/L						
1,2,4,5-TETRACHLOROBENZEN	UG/L						
1,2,3,4,6-TETRACHLOROPHENOL	UG/L						
O-TOLUIDINE	UG/L						
O,O,O-TRIETHYLPHOSPHOROTH	UG/L						
SYM-TRINITROBENZENE	UG/L						
ACENAPHTHENE	UG/L						
ACENAPHTHYLENE	UG/L						
ANTHRACENE	UG/L						
BENZIDINE	UG/L						
BENZO (A) ANTHRACENE	UG/L						
BENZO (A) PYRENE	UG/L						
BENZO (B) FLUORANTHENE	UG/L						
BENZO (G,H,I) PERYLENE	UG/L						
BENZO (K) FLUORANTHENE	UG/L						
BIS (2-CL-ETHOXY) METHANE	UG/L						
BIS (2-CHLOROETHYL) ETHER	UG/L						
BIS (2-CL-ISOPROPYL) ETHER	UG/L						
DIETHYLHEXYL PHTHALATE	UG/L						
4-BROMOPHENYL PHENYLETHER	UG/L						
BUTYLBENZYL PHTHALATE	UG/L						
2-CHLORONAPHTHALENE	UG/L						
4-CHLOROPHENYLPHENYLETHER	UG/L						
CHRYSENE	UG/L						
DIBENZO (A,H) ANTHRACENE	UG/L						
3'-DICHLOROBENZIDINE	UG/L						
DIETHYL PHTHALATE	UG/L						
DIMETHYL PHTHALATE	UG/L						

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ52609 03/13/98	WELL EMP4 SJ52610 03/13/98	WELL EMP4 SJ56292 06/11/98	WELL EMP4 SJ56293 06/11/98	WELL EMP4 SJ59670 09/08/98	WELL EMP4 SJ63901 12/16/98
ACID-BASE NEUTRAL EXTRACTABLE							
DI-N-BUTYL PHTHALATE	UG/L						
2,4-DINITROTOLUENE	UG/L						
2,6-DINITROTOLUENE	UG/L						
DI-N-OCTYL PHTHALATE	UG/L						
FLUORANTHENE	UG/L						
FLUORENE	UG/L						
HEXACHLOROBENZENE	UG/L						
HEXACHLOROBUTADIENE	UG/L						
HEXACHLOROCYCLOPENTADIENE	UG/L						
HEXACHLOROETHANE	UG/L						
INDENO(1,2,3-C,D) PYRENE	UG/L						
ISOPHORONE	UG/L						
NAPHTHALENE	UG/L						
NITROBENZENE	UG/L						
N-NITROSODIMETHYLAMINE	UG/L						
N-NITROSODI-N-PROPYLAMINE	UG/L						
PHENANTHRENE	UG/L						
PYRENE	UG/L						
2-CHLOROPHENOL	UG/L						
1,2,4-TRICHLOROBENZENE	UG/L						
2,4-DICHLOROPHENOL	UG/L						
2,4-DIMETHYLPHENOL	UG/L						
2,4-DINITROPHENOL	UG/L						
2-METHYL-4,6-DINITROPHENOL	UG/L						
2-NITROPHENOL	UG/L						
4-NITROPHENOL	UG/L						
4-CHLORO-3-METHYLPHENOL	UG/L						
PENTACHLOROPHENOL	UG/L						
PHENOL	UG/L						
2,4,6-TRICHLOROPHENOL	UG/L						
N-NITROSODIPHENYLAMINE	UG/L						
O-CRESOL	UG/L						
M+P CRESOL	UG/L						

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEF1
 EMP4
 SJ59669
 09/08/98

CONSTITUENT/WELL NO. UNITS

CONSTITUENT	WELL NO.	UNITS	CONCENTRATION
CATIONS			
IRON		MG/L FE	0.58
MANGANESE		MG/L MN	0.38
METALS			
ARSENIC		MG/L AS	.0044
BARIUM		MG/L BA	0.01
CADMIUM		MG/L CD	<0.003
TOTAL CHROMIUM		MG/L CR	<0.01
COBALT		MG/L CO	<0.01
COPPER		MG/L CU	<0.01
LEAD		MG/L PB	<0.02
MERCURY		MG/L HG	<.0001
NICKEL		MG/L NI	<0.02
SELENIUM		MG/L SE	<.0010
SILVER		MG/L AG	<0.01
ZINC		MG/L ZN	<0.01
ANTIMONY		MG/L SB	<.0005
BERYLLIUM		MG/L BE	<.0025 A
THALLIUM		MG/L TL	<0.001 A
TIN		MG/L SN	<0.06
VANADIUM		MG/L V	<0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.2
WATER QUALITY DATA
BARRIER 2 MONITORING WELLS

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ52556 03/12/98	WELL M24A SJ56142 06/09/98	WELL M24A SJ56143 06/09/98	WELL M24A SJ59616 09/04/98	WELL M24A SJ63735 12/14/98	WELL M24A SJ63736 12/14/98
DEPTH TO WATER	FT	57.73	55.63	55.71	58.54	58.54	58.54
DEPTH TO BOTTOM	FT	85.08	85.05	85.0	85.08	85.08	85.08
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	17	21	19	18	18	18
FIELD WATER TEMPERATURE	DEG C	20.94	20.67	21.36	20.41	20.41	20.41
FIELD PH	PH	6.56	6.53	6.72	7.72	7.72	7.72
FIELD CONDUCTIVITY	UMHOS/CM	1288	1009	1062	1621	1621	1621
FIELD DISSOLVED O2	MG/L	0.66	1.5	1.04	1.07	1.07	1.07

GENERAL

PH	7.06	7.24	7.24	7.65	7.18	7.21	7.21
TOTAL DISSOLVED SOLIDS	937 A	678	732	748	1343	1344	1344

ANIONS

NITRATE	0.04	0.17 C	0.18 C	0.08	0.05	<	0.05
SULFATE	360 A	238 C	238 C	274 C	672	670	670
CHLORIDE	16.0 A	20.9 C	20.9 C	21.2 C	13.9 C	14.0 C	14.0 C

VOLATILE ORGANIC COMPOUNDS

BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ52556 03/12/98	WELL M24A SJ56142 06/09/98	WELL M24A SJ56143 06/09/98	WELL M24A SJ59616 09/04/98	WELL M24A SJ63735 12/14/98	WELL M24A SJ63736 12/14/98
VOLATILE ORGANIC COMPOUNDS							
O-DICHLOROBENZENE	UG/L	1	1	1	1	1	1
P-DICHLOROBENZENE	UG/L	1	1	1	1	1	1
1,1-DICHLOROETHANE	UG/L	1	1	1	1	1	1
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5
BENZENE	UG/L	1	1	1	1	1	1
TOLUENE	UG/L	1	1	1	1	1	1
ETHYL BENZENE	UG/L	10	10	10	10	10	10
VINYL ACETATE	UG/L	1	1	1	1	1	1
O-XYLENE	UG/L	1	1	1	1	1	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	1	1	1	1	1	1
BROMOMETHANE	UG/L	1	1	1	1	1	1
CHLOROETHANE	UG/L	1	1	1	1	1	1
CHLOROMETHANE	UG/L	1	1	1	1	1	1
1,2-DICHLOROPROPANE	UG/L	1	1	1	1	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	10	10	10	10	10	10
ACRYLONITRILE	UG/L	1	1	1	1	1	1
FREON 11 (CCL3F)	UG/L	0.01	0.01	0.01	0.01	0.01	0.01
1,2-DIBROMOETHANE	UG/L	10	10	10	10	10	10
ACETONE	UG/L	1	1	1	1	1	1
CIS-1,2-DICHLOROETHYLENE	UG/L	10	10	10	10	10	10
2-BUTANONE	UG/L	10	10	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	1	1	1	1	1	1
STYRENE	UG/L	1	1	1	1	1	1
M+P-XYLENE	UG/L	1	1	1	1	1	1
CARBON DISULFIDE	UG/L	1	1	1	1	1	1
2-HEXANONE	UG/L	5	5	5	5	5	5

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ52557 03/12/98	WELL M27B SJ52558 03/12/98	WELL M27B SJ56144 06/09/98	WELL M27B SJ59617 09/04/98	WELL M27B SJ63737 12/14/98
FIELD PARAMETERS						
DEPTH TO WATER	FT	58.84	57.14	56.31	59.11	
DEPTH TO BOTTOM	FT	82.23	82.23	82.2	82.3	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	16	21	19	20	
FIELD WATER TEMPERATURE	DEG C	20.92	20.97	22.15	20.34	
FIELD PH	PH	6.5	6.39	6.57	7.7	
FIELD CONDUCTIVITY	UMHOS/CM	1587	1414	1515	1467	
FIELD DISSOLVED O2	MG/L	1.16	0.69	0.75	1.92	
GENERAL						
PH	PH	7.09	7.12	7.12	7.50	7.19
TOTAL DISSOLVED SOLIDS	MG/L	1280	1184	1068	1179	1176
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.04	< 0.04	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	540	525	472	553	531
CHLORIDE	MG/L CL	21.3	21.3	29.7	39.2	29.7
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROBENZENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ52557 03/12/98	WELL M27B SJ52558 03/12/98	WELL M27B SJ56144 06/09/98	WELL M27B SJ59617 09/04/98	WELL M27B SJ63737 12/14/98
VOLATILE ORGANIC COMPOUNDS						
O-DICHLOROBENZENE	UG/L	<	1	<	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	<	1
1,1-DICHLOROETHANE	UG/L	<	1	<	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
BENZENE	UG/L	<	1	<	1	1
TOLUENE	UG/L	<	1	<	1	1
ETHYL BENZENE	UG/L	<	10	<	10	10
VINYL ACETATE	UG/L	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	1
BROMOMETHANE	UG/L	<	1	<	1	1
CHLOROETHANE	UG/L	<	1	<	1	1
CHLOROMETHANE	UG/L	<	1	<	1	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	10	<	10	10
ACRYLONITRILE	UG/L	<	1	<	1	1
FREON 11 (CCL3F)	UG/L	<	0.01	<	0.01	0.01
1,2-DIBROMOETHANE	UG/L	<	10	<	10	10
ACETONE	UG/L	<	1	<	1	1
CIS-1,2-DICHLOROETHYLENE	UG/L	<	10	<	10	10
2-BUTANONE	UG/L	<	10	<	10	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	10
STYRENE	UG/L	<	1	<	1	1
M+P-XYLENE	UG/L	<	1	<	1	1
CARBON DISULFIDE	UG/L	<	1	<	1	1
2-HEXANONE	UG/L	<	5 A	<	5 A	5

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ52466 03/11/98	WELL M29B SJ52467 03/11/98	WELL M29B SJ55941 06/03/98	WELL M29B SJ55942 06/03/98	WELL M29B SJ59576 09/03/98	WELL M29B SJ63799 12/15/98	WELL M29B SJ63800 12/15/98
FIELD PARAMETERS								
DEPTH TO WATER	FT	58.29	55.2	55.2	55.2	55.54	64.68	
DEPTH TO BOTTOM	FT	100.4	100.5	100.5	100.4	100.4	100.5	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	16	21	21	17	17	19	
FIELD WATER TEMPERATURE	DEG C	23.14	20.75	20.75	30.24	30.24	21.6	
FIELD PH	PH	6.98	6.73	6.73	6.84	6.84	6.39	
FIELD CONDUCTIVITY	UMHOS/CM	981	1004	1004	998	998	928	
FIELD DISSOLVED O2	MG/L	1.36	0.72	0.72	0.9	0.9	2.09	
GENERAL								
PH	PH	7.33 A	7.26	7.40 A	7.41	7.33	7.36	7.35
TOTAL DISSOLVED SOLIDS	MG/L	670	664	681	681	701	681	672
ANIONS								
NITRATE	MG/L N	< 0.04	0.04	< 0.05 C	< 0.05 C	< 0.05 C	0.12 D	< 0.05
SULFATE	MG/L SO4	242	236	229 C	229 C	235	208 D	209
CHLORIDE	MG/L CL	24.0	24.0	22.9 C	22.4 C	22.7 C	21.4 D	21.1 C
VOLATILE ORGANIC COMPOUNDS								
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROETHYLENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ52466 03/11/98	WELL M29B SJ52467 03/11/98	WELL M29B SJ55941 06/03/98	WELL M29B SJ55942 06/03/98	WELL M29B SJ59576 09/03/98	WELL M29B SJ63799 12/15/98	WELL M29B SJ63800 12/15/98
VOLATILE ORGANIC COMPOUNDS								
O-DICHLOROBENZENE	UG/L	<	1	1	1	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	1	1	1	<	1
1,1-DICHLOROETHANE	UG/L	<	1	1	1	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	1	1	1	<	1
1,2-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3	0.3	0.3	0.3
BENZENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOLUENE	UG/L	<	1	1	1	1	<	1
ETHYL BENZENE	UG/L	<	1	1	1	1	<	1
VINYL ACETATE	UG/L	10	10	10	10	10	10	10
O-XYLENE	UG/L	<	1	1	1	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	1	1	1	<	1
BROMOMETHANE	UG/L	<	1	1	1	1	<	1
CHLOROETHANE	UG/L	<	1	1	1	1	<	1
CHLOROMETHANE	UG/L	<	1	1	1	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	1	1	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	1	1	1	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
ACRYLONITRILE	UG/L	10	10	10	10	10	10	10
FREON 11 (CCL3F)	UG/L	<	1	1	1	1	<	1
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ACETONE	UG/L	10	10	10	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	1	1	1	<	1
2-BUTANONE	UG/L	10	10	10	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10	10	10	10
STYRENE	UG/L	<	1	1	1	1	<	1
M+P-XYLENE	UG/L	<	1	1	1	1	<	1
CARBON DISULFIDE	UG/L	<	1	1	1	1	<	1
2-HEXANONE	UG/L	5	5	5	5	5	5	5

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE

TABLE A.3
WATER QUALITY DATA
BARRIER 3 MONITORING WELLS

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ52564 03/12/98	WELL M31A SJ56146 06/09/98	WELL M31A SJ59816 09/10/98	WELL M31A SJ63302 12/04/98	WELL M31A SJ63303 12/04/98
FIELD PARAMETERS						
DEPTH TO WATER	FT	46.87	46.74	47.36	47.53	47.53
DEPTH TO BOTTOM	FT	76.33	76.36	76.39	76.42	76.42
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	14	19	16	20	20
FIELD WATER TEMPERATURE	DEG C	20.98	21.27	22.68	19.99	19.99
FIELD PH	PH	6.67	6.35	6.49	6.88	6.88
FIELD CONDUCTIVITY	UMHOS/CM	3164	3582	3643	3373	3373
FIELD DISSOLVED O2	MG/L	0.31	0.35	0.28	0.34	0.34
FIELD DISSOLVED CO2	MG/L	241	539	366	157	157
GENERAL						
PH	PH	6.99	6.98	6.94	6.97	6.94
CONDUCTIVITY	UMHOS/CM			3750	2970	2973
TOTAL DISSOLVED SOLIDS	MG/L	2456	3400	3290 A		
TOTAL HARDNESS	MG/L CaCO3			2130 E		
TOTAL CYANIDE	MG/L CN			<0.005		
BORON	MG/L B			0.71		
ANIONS						
NITRATE	MG/L N	0.07	0.37 C	0.44 C	0.74 D	0.42 C
SULFATE	MG/L SO4	970	1530 C	1610	1360 D	1320 C
CHLORIDE	MG/L CL	162	167 C	179	169 D	166
TOTAL ALKALINITY	MG/L CaCO3	643	687	645 E	677	676
BICARBONATE ALKALINITY	MG/L CaCO3	643	687	645 E	677	676
TOTAL SULFIDE	MG/L S			< 0.1		
FLUORIDE	MG/L F			0.74		
CATIONS						
CALCIUM-HARDNESS	MG/L CaCO3	824	1120	1140	1060	1080
MAGNESIUM-HARDNESS	MG/L CaCO3	741	980	992	901	922
SODIUM	MG/L NA	172	183	184	182	182
POTASSIUM	MG/L K	4.4	4.3	5.1	4.7	4.6
IRON	MG/L FE			< 0.05		
MANGANESE	MG/L MN			0.64		
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	0.10	< 0.1	< 0.1

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ52564 03/12/98	WELL M31A SJ56146 06/09/98	WELL M31A SJ59816 09/10/98	WELL M31A SJ63302 12/04/98	WELL M31A SJ63303 12/04/98
ORGANIC MATTER						
TOTAL BOD	MG/L O	<	2 A	<	2	<
SOLUBLE BOD	MG/L O	<	2 A	<	2	<
TOTAL COD	MG/L O	<	4	<	10	<
SOLUBLE COD	MG/L O	<	4	<	10	<
TOTAL ORGANIC CARBON	MG/L C	2.39	2.33 D	<	3.12	10 A
OIL & GREASE	MG/L	<	<	<	<	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	<	<	3.0	3.05
					14 C	
METALS						
ARSENIC	MG/L AS	<	<	<	<	<
BARIUM	MG/L BA	<	<	<	<	<
CADMIUM	MG/L CD	<	<	<	<	<
TOTAL CHROMIUM	MG/L CR	<	<	<	<	<
COBALT	MG/L CO	<	<	<	<	<
COPPER	MG/L CU	<	<	<	<	<
LEAD	MG/L PB	<	<	<	<	<
MERCURY	MG/L HG	<	<	<	<	<
NICKEL	MG/L NI	<	<	<	<	<
SELENIUM	MG/L SE	<	<	<	<	<
SILVER	MG/L AG	<	<	<	<	<
ZINC	MG/L ZN	<	<	<	<	<
ANTIMONY	MG/L SB	<	<	<	<	<
BERYLLIUM	MG/L BE	<	<	<	<	<
THALLIUM	MG/L TL	<	<	<	<	<
TIN	MG/L SN	<	<	<	<	<
VANADIUM	MG/L V	<	<	<	<	<
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L	<	<	<	0.05	<
DINoseb	UG/L	<	<	<	0.1	<
THIONAZIN	UG/L	<	<	<	1	<
DIMETHOATE	UG/L	<	<	<	1	<
DISULFOTON	UG/L	<	<	<	1	<
METHYL PARATHION	UG/L	<	<	<	1	<
ETHYL PARATHION	UG/L	<	<	<	1	<
PHORATE	UG/L	<	<	<	1	<
PP'-DDE	UG/L	<	<	<	0.01	<
PP'-DDD	UG/L	<	<	<	0.01	<
PP'-DDT	UG/L	<	<	<	0.01	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A	WELL M31A	WELL M31A	WELL M31A	WELL M31A
SJ52564		SJ55146	SJ59816	SJ63302	SJ63303	
03/12/98		06/09/98	09/10/98	12/04/98	12/04/98	

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	0.01			
LINDANE (GAMMA-BHC)	UG/L	<	0.01			
HEPTACHLOR	UG/L	<	0.01			
HEPTACHLOR EPOXIDE	UG/L	<	0.01			
ALDRIN	UG/L	<	0.01			
DIELDRIN	UG/L	<	0.01			
ENDRIN	UG/L	<	0.01			
TOXAPHENE	UG/L	<	0.5			
METHOXYCLOR	UG/L	<	0.01			
2,4-D (ACID)	UG/L	<	0.5			
2,4,5-TP (SILVEX)	UG/L	<	0.05			
AROCLOR 1242	UG/L	<	0.1			
AROCLOR 1254	UG/L	<	0.05			
BETA-BHC	UG/L	<	0.01			
DELTA-BHC	UG/L	<	0.01			
ENDOSULFAN I	UG/L	<	0.01			
ENDOSULFAN II	UG/L	<	0.01			
ENDOSULFAN SULFATE	UG/L	<	0.1			
ENDRIN ALDEHYDE	UG/L	<	0.01			
AROCLOR 1016	UG/L	<	0.1			
AROCLOR 1221	UG/L	<	0.1			
AROCLOR 1232	UG/L	<	0.1			
AROCLOR 1248	UG/L	<	0.1			
AROCLOR 1260	UG/L	<	0.1			
TECHNICAL CHLORDANE	UG/L	<	0.05			

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	1	<	1	<	1
BROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1
CHLOROPRENE	UG/L	<	0.01	<	0.01	<	0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	<	1	<	1
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1	<	1
1,3-DICHLOROPROPANE	UG/L	<	0.3	<	0.3	<	0.3
2,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1
1,1-DICHLOROPROPENE	UG/L	<	1	<	1	<	1
ISOBUTYL ALCOHOL	UG/L	<	10	<	10	<	10
METHACRYLONITRILE	UG/L	<	10	<	10	<	10
METHYL IODIDE	UG/L	<	1	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1	<	1
PROPIONITRILE	UG/L	<	10	<	10	<	10

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ52564 03/12/98	WELL M31A SJ56146 06/09/98	WELL M31A SJ59816 09/10/98	WELL M31A SJ63302 12/04/98	WELL M31A SJ63303 12/04/98
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	1
METHYL METHACRYLATE	UG/L	<	<	10	<	<
METHYL METHACRYLATE	UG/L	<	<	5	<	<
METHYLENE CHLORIDE	UG/L	<	1	<	1	1
CHLOROFORM	UG/L	<	1	<	1	1
1,1,1-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	0.3
CARBON TETRACHLORIDE	UG/L	<	<	0.3	<	<
1,1-DICHLOROETHENE	UG/L	<	1	<	1	1
TRICHLOROETHYLENE	UG/L	<	1	<	1	1
TETRACHLOROETHYLENE	UG/L	<	1	<	1	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	1
BROMOFORM	UG/L	<	1	<	1	1
CHLOROETHENE	UG/L	<	0.3	<	0.3	0.3
VINYL CHLORIDE	UG/L	<	1	<	1	1
O-DICHLOROBENZENE	UG/L	<	<	1	<	<
M-DICHLOROBENZENE	UG/L	<	1	<	1	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	1
1,1-DICHLOROETHANE	UG/L	<	1	<	1	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
BENZENE	UG/L	<	1	<	1	1
TOLUENE	UG/L	<	1	<	1	1
ETHYL BENZENE	UG/L	<	10	<	10	10
VINYL ACETATE	UG/L	<	<	1	<	<
O-XYLENE	UG/L	<	1	<	1	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	1
BROMOMETHANE	UG/L	<	1	<	1	1
CHLOROETHANE	UG/L	<	1	<	1	1
2-CHLOROETHYL VINYL ETHER	UG/L	<	1	<	1	1
CHLOROMETHANE	UG/L	<	1	<	1	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
ACROLEIN	UG/L	<	10	<	10	10
ACRYLONITRILE	UG/L	<	10	<	10	10
ACETONITRILE	UG/L	<	20	<	20	20
FREON 12 (CCL2F2)	UG/L	<	1	<	1	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	1

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ52564 03/12/98	WELL M31A SJ56146 06/09/98	WELL M31A SJ59816 09/10/98	WELL M31A SJ63302 12/04/98	WELL M31A SJ63303 12/04/98
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	3	4	5	3	3
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	5	5	5	5	5
		B	B	B	B	B
		120				
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<
4-AMINOBIHENYL	UG/L	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<
3-METHYLCOLANTHRENE	UG/L	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ52564 03/12/98	WELL M31A SJ56146 06/09/98	WELL M31A SJ59816 09/10/98	WELL M31A SJ63302 12/04/98	WELL M31A SJ63303 12/04/98
ACID-BASE NEUTRAL EXTRACTABLE						
M-NITROANILINE	UG/L					1
P-NITROANILINE	UG/L					1
N-NITROSDI-N-BUTYLAMINE	UG/L					1
N-NITROSODIETHYLAMINE	UG/L					1
N-NITROSOMETHYLETHYLAMINE	UG/L					1
N-NITROSOPIPERIDINE	UG/L					1
N-NITROSOPYRROLIDINE	UG/L					1
5-NITRO-O-TOLUIDINE	UG/L					1
PENTACHLOROBENZENE	UG/L					5
PENTACHLORONITROBENZENE	UG/L					1
PHENACETIN	UG/L					1
P-PHENYLENEDIAMINE	UG/L					20
PRONAMIDE	UG/L					1
SAFROLE	UG/L					1
1,2,4,5-TETRACHLOROBENZEN	UG/L					1
1,2,3,4,6-TETRACHLOROPHENOL	UG/L					1
O-TOLUIDINE	UG/L					1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L					1
SYM-TRINITROBENZENE	UG/L					5
ACENAPHTHENE	UG/L					1
ACENAPHTHYLENE	UG/L					1
ANTHRACENE	UG/L					1
BENZIDINE	UG/L					20
BENZO (A) ANTHRACENE	UG/L					1
BENZO (A) PYRENE	UG/L					0.2
BENZO (B) FLUORANTHENE	UG/L					1
BENZO (G. H. I.) PERYLENE	UG/L					1
BENZO (K) FLUORANTHENE	UG/L					1
BIS (2-CL-ETHOXY) METHANE	UG/L					1
BIS (2-CL-CHLOROETHYL) ETHER	UG/L					1
BIS (2-CL-ISOPROPYL) ETHER	UG/L					1
DIETHYLHEXYL PHTHALATE	UG/L					1
4-BROMOPHENYL PHENYLETHER	UG/L					1
BUTYLBENZYL PHTHALATE	UG/L					1
2-CHLORONAPHTHALENE	UG/L					1
4-CHLOROPHENYLPHENYLETHER	UG/L					1
CHRYSENE	UG/L					1
DIBENZO (A, H) ANTHRACENE	UG/L					1
3,3'-DICHLOROBENZIDINE	UG/L					1
DIETHYL PHTHALATE	UG/L					1
DIMETHYL PHTHALATE	UG/L					1

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ52564 03/12/98	WELL M31A SJ56146 06/09/98	WELL M31A SJ59816 09/10/98	WELL M31A SJ63302 12/04/98	WELL M31A SJ63303 12/04/98
ACID-BASE NEUTRAL EXTRACTABLE						
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<	<
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<
2-METHYL-4,6DINITROPHENOL	UG/L	<	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-DUPLICATE SPIKE E-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ52353 03/06/98	WELL R32B SJ52354 03/06/98	WELL R32B SJ55821 06/01/98	WELL R32B SJ59850 09/11/98	WELL R32B SJ63733 12/14/98
VOLATILE ORGANIC COMPOUNDS						
O-DICHLOROBENZENE	UG/L	<	1	<	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	<	1
1,1-DICHLOROETHANE	UG/L	<	1	<	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	<	1
1,2-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3	0.3
BENZENE	UG/L	0.5	0.5	0.5	0.5	0.5
TOLUENE	UG/L	<	1	<	<	1
ETHYL BENZENE	UG/L	<	1	<	<	1
VINYL ACETATE	UG/L	10	10	10	10	10
O-XYLENE	UG/L	<	1	<	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<	1
BROMOMETHANE	UG/L	<	1	<	<	1
CHLOROETHANE	UG/L	<	1	<	<	1
CHLOROMETHANE	UG/L	<	1	<	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5
ACRYLONITRILE	UG/L	10	10	10	10	10
FREON 11 (CCL3F)	UG/L	<	1	<	<	1
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01	0.01
ACETONE	UG/L	10	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<	1
2-BUTANONE	UG/L	10	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10	10
STYRENE	UG/L	<	1	<	<	1
M+P-XYLENE	UG/L	<	1	<	<	1
CARBON DISULFIDE	UG/L	<	1	<	<	1
2-HEXANONE	UG/L	5	5	5	5	5

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-DUP & SPIKE D-AMENDED TEST RESULT E-AVERAGE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ52565 03/12/98	WELL M33A SJ56147 06/09/98	WELL M33A SJ59817 09/10/98	WELL M33A SJ63304 12/04/98
FIELD PARAMETERS					
DEPTH TO WATER	FT	48.48	48.22	48.97	49.13
DEPTH TO BOTTOM	FT	80.95	80.98	81.02	81.02
PERCENT METHANE IN GAS	%CH4	0.8	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	14	21	19	19
FIELD WATER TEMPERATURE	DEG C	21.8	21.34	22.4	20.05
FIELD PH	PH	6.68	6.42	6.55	6.94
FIELD CONDUCTIVITY	UMHOS/CM	2679	2517	2543	2463
FIELD DISSOLVED O2	MG/L	0.42	0.32	0.33	0.36
FIELD DISSOLVED CO2	MG/L	239	428	312	129
GENERAL					
PH	PH	7.02	7.01	7.11	7.05
CONDUCTIVITY	UMHOS/CM	1874	1834	2470	1769
TOTAL DISSOLVED SOLIDS	MG/L			1789	
TOTAL HARDNESS	MG/L CaCO3			1078	
TOTAL CYANIDE	MG/L CN			< 0.005	
BORON	MG/L B			0.86	
ANIONS					
NITRATE NITROGEN	MG/L N	0.14	0.19	0.19	0.14
SULFATE	MG/L SO4	585	602	616	596
CHLORIDE	MG/L CL	173	171	178	167
TOTAL ALKALINITY	MG/L CaCO3	653	642	631	638
BICARBONATE ALKALINITY	MG/L CaCO3	653	642	631	638
TOTAL SULFIDE	MG/L S			< 0.1	
FLUORIDE	MG/L F			0.91	
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	624	594	572	589
MAGNESIUM-HARDNESS	MG/L CaCO3	543	535	506	519
SODIUM	MG/L NA	181	177	174	177
POTASSIUM	MG/L K	4.8	4.2	5.2	4.8
IRON	MG/L FE			< 0.05	
MANGANESE	MG/L MN			0.52	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	0.5	< 0.1	1.20	0.1

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A	WELL M33A	WELL M33A	WELL M33A
SJ52565	SJ56147	SJ59817	SJ63304		
03/12/98	06/09/98	09/10/98	12/04/98		

ORGANIC MATTER	MG/L	MG/L	MG/L	MG/L	MG/L
TOTAL BOD	<	2	<	2	<
SOLUBLE BOD	0				2
TOTAL COD	0			11	
SOLUBLE COD	0			10	13 A
TOTAL ORGANIC CARBON	4.03	4.00	4.42	4.40	
OIL & GREASE	4.03	4.00			
TOTAL ORGANIC HALOGEN (TOX)	MG/L	EXTRAC		3.0	
	UG/L			43	C

METALS	MG/L	MG/L	MG/L	MG/L	MG/L
ARSENIC	<	0.04	C		
BARIUM	<	0.003	C		
CADMIUM	<	0.01	C		
TOTAL CHROMIUM	<	0.01	C		
COBALT	<	0.01	C		
COPPER	<	0.02	C		
LEAD	<	0.001	C		
MERCURY	<	0.02	C		
NICKEL	<	0.01	C		
SELENIUM	<	0.010	C		
SILVER	<	0.01	C		
ZINC	<	0.01	C		
ANTIMONY	<	0.005	C		
BERYLLIUM	<	0.025	C		
THALLIUM	<	0.001	C		
TIN	<	0.06	C		
VANADIUM	<	0.05	C		

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS	UG/L	UG/L	UG/L	UG/L	UG/L
2,4,5-T	<	0.05			
DINOSER	<	0.1			
THIONAZIN	<	1			
DIMETHOATE	<	1			
DISULFOTON	<	1			
METHYL PARATHION	<	1			
ETHYL PARATHION	<	1			
PHORATE	<	1			
PP'-DDE	<	0.01			
PP'-DDD	<	0.01			
PP'-DDT	<	0.01			

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL
M33A	M33A	M33A	M33A
SJ52565	SJ56147	SJ59817	SJ63304
03/12/98	06/09/98	09/10/98	12/04/98

CONSTITUENT/WELL NO. UNITS

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	0.01				
LINDANE (GAMMA-BHC)	UG/L	<	0.01				
HEPTACHLOR	UG/L	<	0.01				
HEPTACHLOR EPOXIDE	UG/L	<	0.01				
ALDRIN	UG/L	<	0.01				
DELDRIN	UG/L	<	0.01				
ENDRIN	UG/L	<	0.01				
TOXAPHENE	UG/L	<	0.5				
METHOXYCLOR	UG/L	<	0.01				
2,4-D (ACID)	UG/L	<	0.5				
2,4,5-TP (SILVEX)	UG/L	<	0.05				
AROCLOR 1242	UG/L	<	0.1				
AROCLOR 1254	UG/L	<	0.05				
BETA-BHC	UG/L	<	0.01				
DELTA-BHC	UG/L	<	0.01				
ENDOSULFAN I	UG/L	<	0.01				
ENDOSULFAN II	UG/L	<	0.01				
ENDOSULFAN SULFATE	UG/L	<	0.01				
ENDRIN ALDEHYDE	UG/L	<	0.1				
AROCLOR 1016	UG/L	<	0.01				
AROCLOR 1221	UG/L	<	0.1				
AROCLOR 1232	UG/L	<	0.1				
AROCLOR 1248	UG/L	<	0.1				
AROCLOR 1260	UG/L	<	0.1				
TECHNICAL CHLORDANE	UG/L	<	0.05				

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	1	<	1	<	1
BROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1
CHLOROPRENE	UG/L	<	0.01	<	0.01	<	0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	<	1	<	1
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1	<	1
1,3-DICHLOROPROPANE	UG/L	<	0.3	<	0.3	<	0.3
2,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1
1,1-DICHLOROPROPENE	UG/L	<	1	<	1	<	1
ISOBUTYL ALCOHOL	UG/L	<	10	<	10	<	10
METHACRYLONITRILE	UG/L	<	10	<	10	<	10
METHYL IODIDE	UG/L	<	1	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1	<	1
PROPIONITRILE	UG/L	<	10	<	10	<	10

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ52565 03/12/98	WELL M33A SJ56147 06/09/98	WELL M33A SJ59817 09/10/98	WELL M33A SJ63104 12/04/98	A	B	C	D	E
VOLATILE ORGANIC COMPOUNDS										
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	<	<	1	<	1	<
1,2,3-TRICHLOROPROPANE	UG/L	1	1	<	<	<	1	<	1	<
METHYL METHACRYLATE	UG/L	<	<	<	<	5	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	1	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	1	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	1	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	1	<	<	<
1,1,1-TRICHLORIDE	UG/L	0.3	0.3	0.3	0.3	<	<	<	0.3	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<
1,1-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<
CHLOROETHYLENE	UG/L	0.3	0.3	<	<	<	<	<	0.3	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
1,1,1,2-TRICHLOROETHANE	UG/L	0.8	0.7	0.9	0.3	<	<	<	0.3	<
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	<	<	<	0.5	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	10	10	10	10	<	<	<	10	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	<	<	<	0.5	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	<	<	<	0.5	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	<	<	<	0.5	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	10	<	<	<	<	<	10	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ52565 03/12/98	WELL M33A SJ56147 06/09/98	WELL M33A SJ59817 09/10/98	WELL M33A SJ63304 12/04/98
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLORENE	UG/L	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ52565 03/12/98	WELL M33A SJ56147 06/09/98	WELL M33A SJ59817 09/10/98	WELL M33A SJ63304 12/04/98			
ACID-BASE NEUTRAL EXTRACTABLE								
M-NITROANILINE	UG/L	<	<	<	<	1		
P-NITROANILINE	UG/L	<	<	<	<	1		
N-NITRODI-N-BUTYLAMINE	UG/L	<	<	<	<	1		
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	1		
N-NITROSOMETHYLAMINE	UG/L	<	<	<	<	1		
N-NITROPIPERIDINE	UG/L	<	<	<	<	1		
N-NITROPIPERIDINE	UG/L	<	<	<	<	1		
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	1		
PENTACHLOROBENZENE	UG/L	<	<	<	<	1		
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	1		
PHENACETIN	UG/L	<	<	<	<	1		
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	20		
PRONAMIDE	UG/L	<	<	<	<	1		
SAFROLE	UG/L	<	<	<	<	1		
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	1		
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	1		
O-TOLUIDINE	UG/L	<	<	<	<	1		
O,O'-TRITHYLPHOSPHOROTH	UG/L	<	<	<	<	1		
SYM-TRINITROBENZENE	UG/L	<	<	<	<	15		
ACENAPHTHENE	UG/L	<	<	<	<	1		
ACENAPHTHYLENE	UG/L	<	<	<	<	1		
ANTHRACENE	UG/L	<	<	<	<	20		
BENZIDINE	UG/L	<	<	<	<	1		
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	0.2		
BENZO (A) PYRENE	UG/L	<	<	<	<	1		
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	1		
BENZO (G, H, I) PERYLENE	UG/L	<	<	<	<	1		
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	1		
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	1		
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	1		
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	1		
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	1		
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	1		
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	1		
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	1		
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	1		
CHRYSENE	UG/L	<	<	<	<	1		
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	1		
3,3'-DICHLOBENZAZINE	UG/L	<	<	<	<	1		
DIETHYL PHTHALATE	UG/L	<	<	<	<	1		
DIMETHYL PHTHALATE	UG/L	<	<	<	<	1		

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ52565 03/12/98	WELL M33A SJ56147 06/09/98	WELL M33A SJ59817 09/10/98	WELL M33A SJ63304 12/04/98
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ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<
FLUORENE	UG/L	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<
INDENO(1,2,3-C,D) PYRENE	UG/L	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<
PYRENE	UG/L	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<
PHENOL	UG/L	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<
O-CRESOL	UG/L	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ52355 03/06/98	WELL R34B SJ55822 06/01/98	WELL R34B SJ55823 06/01/98	WELL R34B SJ59851 09/11/98	WELL R34B SJ59852 09/11/98	WELL R34B SJ63732 12/14/98
VOLATILE ORGANIC COMPOUNDS							
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	0.3	0.5	0.3	0.5	0.3	0.5
BENZENE	UG/L	0.5	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<
ETHYL BENZENE	UG/L	10	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	10	10	10	10	10
ACRYLONITRILE	UG/L	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01	0.01	0.01
ACETONE	UG/L	10	10	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<
2-BUTANONE	UG/L	10	10	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10	10	10
STYRENE	UG/L	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<
2-HEXANONE	UG/L	5 A	5 A	5 A	5 A	5 A	5 A

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUP & SPIKE

TABLE A.4
WATER QUALITY DATA
BARRIER 4 MONITORING WELLS

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ52266 03/04/98	WELL M41A SJ55867 06/02/98	WELL M41A SJ59945 09/15/98	WELL M41A SJ63796 12/15/98
FIELD PARAMETERS					
DEPTH TO WATER	FT	22.21	25.42	37.42	42.98
DEPTH TO BOTTOM	FT	59.11	58.78	59.04	59.1
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	12	18	19	17
FIELD WATER TEMPERATURE	DEG C	20.24	22.54	22.14	21.07
FIELD PH	PH	6.86	6.78	6.87	6.72
FIELD CONDUCTIVITY	UMHOS/CM	3666	2477	2715	2722
FIELD DISSOLVED O2	MG/L	0.25	0.34	0.31	0.49
FIELD DISSOLVED CO2	MG/L	91	111		134
GENERAL					
PH	PH	7.36 A	7.29	7.61	7.38
CONDUCTIVITY	UMHOS/CM	3120	2490 D	2650	2730
TOTAL DISSOLVED SOLIDS	MG/L	2538	1840 D	2046 D	2208
TOTAL HARDNESS	MG/L CaCO3	1046 C	881 C	1059 C	931
TOTAL CYANIDE	MG/L CN	< 0.002	< 0.002	< 0.005	< 0.005
BORON	MG/L B	1.40	1.07	2.56	1.16
ANIONS					
NITRATE NITROGEN	MG/L N	1.38 B	1.68 F	5.42 F	2.42
SULFATE	MG/L SO4	1190	915 F	1060	1060
CHLORIDE	MG/L CL	112	85.9 F	78.1 F	90.0
TOTAL ALKALINITY	MG/L CaCO3	376	381	417	401
BICARBONATE ALKALINITY	MG/L CaCO3	376	381	417	401
FLUORIDE	MG/L F	0.74	0.93	1.11	1.05
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	544	457 B	507	492
MAGNESIUM-HARDNESS	MG/L CaCO3	502	424 B	552	510
SODIUM	MG/L NA	431	275 B	240	313
POTASSIUM	MG/L K	10.0	7.1 B	6.9	6.8
IRON	MG/L FE	< 0.05	0.39 B	0.40	0.92
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	0.30	< 0.1
SOLUBLE BOD	MG/L O	< 2.0	D < 2	< 2	< 0.2 D
SOLUBLE COD	MG/L O	5 D	D < 10	< 10	< 10

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE E-AMENDED TEST RESULT F-AVERAGE

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ52266 03/04/98	WELL M41A SJ55867 06/02/98	WELL M41A SJ59945 09/15/98	WELL M41A SJ63796 12/15/98
2.36	1.61	1.99	2.34		
< 20	12	7.8	4.8		
		F	F		

ORGANIC MATTER

TOTAL ORGANIC CARBON	MG/L C	1.99	2.34	B
TOTAL ORGANIC HALOGEN (TOX)	UG/L	7.8	4.8	F

METALS

ARSENIC	MG/L AS	.0015	.0012	.0015
BARIUM	MG/L BA	0.02	0.02	< 0.01
COBALT	MG/L CO	< 0.02	< 0.01	< 0.01
SELENIUM	MG/L SE	< 0.010	.0060	.0035
ZINC	MG/L ZN	< 0.01	< 0.01	0.07
ANTIMONY	MG/L SB	.0005	<.0005	<.0005

VOLATILE ORGANIC COMPOUNDS

BROMOCHLOROMETHANE	UG/L	1	1	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
1,1,4-DICHLORO-2-BUTENE	UG/L	1	1	1	1
METHYL IODIDE	UG/L	1	1	1	1
METHYLENE BROMIDE	UG/L	1	1	1	1
1,1,1,2-TETRACHLOROETHANE	UG/L	1	1	1	1
1,2,3-TRICHLOROPROPANE	UG/L	1	1	1	1
METHYLENE CHLORIDE	UG/L	1	1	1	1
CHLOROFORM	UG/L	1	1	1	1
1,1,1-TRICHLOROETHANE	UG/L	1	1	1	1
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	1	1	1	1
TRICHLOROETHYLENE	UG/L	1	1	1	1
TETRACHLOROETHYLENE	UG/L	1	1	1	1
BROMODICHLOROMETHANE	UG/L	1	1	1	1
DIBROMOCHLOROMETHANE	UG/L	1	1	1	1
BROMOFORM	UG/L	1	1	1	1
CHLOROBENZENE	UG/L	1	1	1	1
VINYL CHLORIDE	UG/L	0.3	0.3	0.3	0.3
O-DICHLOROBENZENE	UG/L	1	1	1	1
P-DICHLOROBENZENE	UG/L	1	1	1	1
1,1,1,2-TRICHLOROETHANE	UG/L	1	1	1	1
1,2-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3
BENZENE	UG/L	0.5	0.5	0.5	0.5
TOLUENE	UG/L	1	1	1	1
ETHYL BENZENE	UG/L	1	1	1	1

FOOTNOTES : A-AVERAGE OF DUPS
F-AVERAGE

B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE E-AMENDED TEST RESULT

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ52266 03/04/98	WELL M41A SJ55867 06/02/98	WELL M41A SJ59945 09/15/98	WELL M41A SJ63796 12/15/98
VOLATILE ORGANIC COMPOUNDS					
VINYL ACETATE	UG/L	<	<	<	<
O-XYLENE	UG/L	10	10	10	10
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
ACRYLONITRILE	UG/L	10	10	10	10
FREON 11 (CCL3F)	UG/L	<	<	<	<
1,2-DIBROMOETHANE	UG/L	0.01	0.01	0.01	0.01
ACETONE	UG/L	10	10	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<
2-BUTANONE	UG/L	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10
STYRENE	UG/L	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<
CARBON DISULFIDE	UG/L	1	1	1	1
2-HEXANONE	UG/L	5	5	5	5

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-DUP & SPIKE E-AMENDED TEST RESULT F-AVERAGE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M41A SJ52264 03/04/98	WEFI M41A SJ55865 06/02/98	WEFI M41A SJ59943 09/15/98	WEFI M41A SJ63794 12/15/98
CATIONS					
IRON	MG/L FE	< 0.05	0.22	< 0.05	0.14
METALS					
ARSENIC	MG/L AS	.0014	.0015	.0011	.0014
BARIUM	MG/L BA	0.02	0.02	0.02	< 0.01
COBALT	MG/L CO	< 0.02	< 0.02	< 0.01	< 0.01
SELENIUM	MG/L SE	<.0010	.0023	.0061	.0035
ZINC	MG/L ZN	< 0.01	0.02	0.01	0.02
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005	<.0005

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ52267 03/04/98	WELL M42A SJ55859 06/02/98	WELL M42A SJ55860 06/02/98	WELL M42A SJ59946 09/15/98	WELL M42A SJ63898 12/16/98
FIELD PARAMETERS						
DEPTH TO WATER	FT	23.66	25.88	37.23	40.12	40.12
DEPTH TO BOTTOM	FT	57.41	57.4	57.4	57.35	57.35
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	12	19	18	19	19
FIELD WATER TEMPERATURE	DEG C	21.38	21.17	21.56	22.38	22.38
FIELD PH	PH	6.85	6.67	6.73	6.73	6.73
FIELD CONDUCTIVITY	UMHOS/CM	4491	4373	4230	4154	4154
FIELD DISSOLVED O2	MG/L	0.47	0.49	0.26	0.54	0.54
FIELD DISSOLVED CO2	MG/L	0.76	119	108	109	109
GENERAL						
PH	PH	7.20	7.29 C	7.29	7.86	7.42 C
CONDUCTIVITY	UMHOS/CM	4290	4140	4140	4210	4160
TOTAL DISSOLVED SOLIDS	MG/L	3704	3516	3500	3504	3518 F
TOTAL HARDNESS	MG/L CaCO3	1506 A	1533 A	1483 A	1257 A	650 A
TOTAL CYANIDE	MG/L CN	< 0.002	< 0.002 E	< 0.002	< 0.005	< 0.005
BORON	MG/L B	1.65	1.49	1.44	1.53	1.68
ANIONS						
NITRATE NITROGEN	MG/L N	0.31	0.59 D	0.13 D	0.36	0.17
SULFATE	MG/L SO4	2090	2000 D	2010 D	1990 D	1980
CHLORIDE	MG/L CL	152	152 D	155 D	172 D	168 D
TOTAL ALKALINITY	MG/L CaCO3	308	317 F	316	330	333
BICARBONATE ALKALINITY	MG/L CaCO3	308	317	316	330	333
FLUORIDE	MG/L F	0.65	0.66	0.65	0.66	0.65
CATIONS						
CALCIUM-HARDNESS	MG/L CaCO3	839	866	829	689 E	360
MAGNESIUM-HARDNESS	MG/L CaCO3	667	667	654	568 E	290
SODIUM	MG/L NA	536	495	521	523 E	296
POTASSIUM	MG/L K	13.6	13.6	12.6	10.9 E	11.2
IRON	MG/L FE	0.18	0.11	0.07	0.15 E	0.23
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	2.90	< 0.1
SOLUBLE BOD	MG/L O	< 2	< 2 F	< 2	< 2	< 2 F
SOLUBLE COD	MG/L O	< 3	< 10	< 10	< 10	< 10

FOOTNOTES : A-CALCULATED VALUE B-AMENDED TEST RESULT C-AVERAGE OF DUPS D-AVERAGE E-DUPLICATE SPIKE
 F-DUP & SPIKE G-CHECK NOTES TO USER H-10% RULE EXCEEDED

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ52267 03/04/98	WELL M42A SJ55859 06/02/98	WELL M42A SJ55860 06/02/98	WELL M42A SJ59946 09/15/98	WELL M42A SJ63898 12/16/98
ORGANIC MATTER						
TOTAL ORGANIC CARBON	MG/L C	2.31	2.02	1.97	2.45	2.29
TOTAL ORGANIC HALOGEN (TOX)	UG/L	< 20	13 G	12 D	11 H	8.5 D
METALS						
ARSENIC	MG/L AS	.0013	.0021	.0028	.0029	.0027
BARIUM	MG/L BA	0.02	0.02	0.02	0.02	0.02
COBALT	MG/L CO	< 0.02	< 0.02	< 0.02	< 0.01	< 0.01
SELENIUM	MG/L SE	< 0.010	< 0.010	< 0.010	.0010	< 0.010
ZINC	MG/L ZN	0.02	0.02	0.02	< 0.01	< 0.01
ANTIMONY	MG/L SB	.0005	< .0005	< .0005	.0006	.0006
VOLATILE ORGANIC COMPOUNDS						
BROMOCHLOROMETHANE	UG/L	1	1	1	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.3	0.3	0.3	0.3	0.3
VINYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DICHLOROETHANE	UG/L	< 0.5	0.5	0.5	0.5	0.5
BENZENE	UG/L	< 0.5	0.5	0.5	0.5	0.5
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-CALCULATED VALUE B-AMENDED TEST RESULT C-AVERAGE OF DUPS D-AVERAGE E-DUPLICATE SPIKE
F-DUP & SPIKE G-CHECK NOTES TO USER H-10% RULE EXCEEDED

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A	WELL M42A	WELL M42A	WELL M42A	WELL M42A
SJ52267		SJ55859	SJ55860	SJ59946	SJ63898	
03/04/98		06/02/98	06/02/98	09/15/98	12/16/98	

VOLATILE ORGANIC COMPOUNDS

VINYL ACETATE	UG/L	<	10	<	10	<	10	<	10	<	10
O-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	10	<	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01
1,2-DIBROMOETHANE	UG/L	<	10	<	10	<	10	<	10	<	10
ACETONE	UG/L	<	1	<	1	<	1	<	1	<	1
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5 B	<	5 B	<	5 B	<	5 B	<	5 B

FOOTNOTES : A-CALCULATED VALUE F-DUP & SPIKE

B-AMENDED TEST RESULT G-CHECK NOTES TO USER

C-AVERAGE OF DUPS H-10% RULE EXCEEDED

D-AVERAGE E-DUPLICATE SPIKE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M42A SJ52265 03/04/98	WEFI M42A SJ55857 06/02/98	WEFI M42A SJ55858 06/02/98	WEFI M42A SJ59944 09/15/98	WEFI M42A SJ63896 12/16/98
CATIONS						
IRON	MG/L FE	< 0.05	< 0.05	0.06	< 0.05	< 0.05
METALS						
ARSENIC	MG/L AS	.0012	.0022	.0028	.0029	.0026
BARIIUM	MG/L BA	0.02	0.02	0.02	0.01	0.01
COBALT	MG/L CO	< 0.02	< 0.02	< 0.02	< 0.01	< 0.01
SELENIUM	MG/L SE	< .0010	.0010	< .0010	.0010	< .0010
ZINC	MG/L ZN	0.02	0.02	0.02	< 0.01	< 0.01
ANTIMONY	MG/L SB	.0005	< .0005	< .0005	< .0006	.0006

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A
		01/06/98	01/07/98	03/04/98	03/04/98	06/02/98	09/15/98	09/15/98	12/16/98
FIELD PARAMETERS									
DEPTH TO WATER	FT	45.1	47.2	18.93	24.17	36.24	42.61		
DEPTH TO BOTTOM	FT	60.1	60.03	60.02	60.09	59.96	59.95		
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
PERCENT OXYGEN IN GAS	%O2	19	14	16	17	18	19		
FIELD WATER TEMPERATURE	DEG C	18.8	18.06	19.92	20.48	20.86	20.51		
FIELD PH	PH	6.97	6.98	6.81	6.78	6.86	6.7		
FIELD CONDUCTIVITY	UMHOS/CM	2193	1789	2269	1954	2139	2192		
FIELD DISSOLVED O2	MG/L	0.41	1.5	0.84	0.28	0.25	0.37		
FIELD DISSOLVED CO2	MG/L	70	63	105	115	101	146		
GENERAL									
PH									
CONDUCTIVITY	UMHOS/CM			7.24	7.28	7.45	7.74		
TOTAL DISSOLVED SOLIDS	MG/L	1723	1536	1649	1649	2040	1860		
TOTAL HARDNESS	MG/L	1248	1066	1070	1070	1529	1382		
TOTAL CYANIDE	MG/L CN	944	624	661	661	738	775		
BORON	MG/L B	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005		
ANIONS									
NITRATE NITROGEN	MG/L N	0.33	0.56	5.48	3.62	1.56	4.32		
SULFATE	MG/L SO4	860	735	510	490	713	611		
CHLORIDE	MG/L CL	58	52.7	41.1	34.9	52.9	43.8		
TOTAL ALKALINITY	MG/L CACO3	371	344	388	394	416	410		
BICARBONATE ALKALINITY	MG/L CACO3	371	344	388	394	416	410		
FLUORIDE	MG/L F	0.83	1.22	0.83	0.79	0.91	1.02		
CATIONS									
CALCIUM-HARDNESS	MG/L CACO3	412	372	473	315	352	365		
MAGNESIUM-HARDNESS	MG/L CACO3	366	313	471	346	385	410		
SODIUM	MG/L NA	292	204	180	143	220	166		
POTASSIUM	MG/L K	9.2	8.3	7.9	4.9	7.0	6.0		
IRON	MG/L FE			< 0.05	0.45	0.06	< 0.05		
ORGANIC MATTER									
AMMONIA NITROGEN									
SOLUBLE BOD	MG/L N	< 0.7	< 0.7	< 0.1	< 0.1	< 0.1	< 0.1		
SOLUBLE COD	MG/L O	9	8	2	2	2	2		

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-CALCULATED VALUE D-AMENDED TEST RESULT E-AVERAGE F-AVERAGE OF DUPS

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	WELL M43A		WELL M43A		WELL M43A		WELL M43A		WELL M43A	
	01/06/98	01/07/98	03/04/98	03/04/98	06/02/98	09/15/98	09/15/98	09/15/98	09/15/98	12/16/98
UNITS	2.90	3.38	2.22	1.79	1.95	2.28	2.29	2.35	2.28	8.1 E
MG/L	< 20	< 20	< 20	0.03 B	0.03 B	0.03	0.01	0.01	0.03	0.03 B
UG/L	< 20	< 20	< 20	0.02 B	0.02 B	0.01	0.01	0.01	0.01	0.01 B
ORGANIC MATTER										
TOTAL ORGANIC CARBON	2.90	3.38	2.22	1.79	1.95	2.28	2.29	2.35	2.28	8.1 E
TOTAL ORGANIC HALOGEN (TOX)	< 20	< 20	< 20	0.03 B	0.03 B	0.03	0.01	0.01	0.03	0.03 B
METALS										
ARSENIC	< 0.010	< 0.010	< 0.010	< 0.010	0.025	0.017	0.011	0.020	0.017	0.008
BARIIUM	< 0.05 E	< 0.03 B	< 0.03 B	< 0.03 B	0.03	0.03	0.04	0.03 B	0.03	0.03 B
COBALT	< 0.02	< 0.02 B	< 0.02 B	< 0.02 B	< 0.02	< 0.01	< 0.01	< 0.01 B	< 0.01	< 0.01 B
SELENIUM	0.041	0.049	0.025	0.049	0.025	0.033	0.042	0.023	0.033	0.023
ZINC	< 0.01	< 0.01 B	< 0.01 B	< 0.01 B	< 0.01	< 0.01	< 0.01	< 0.01 B	< 0.01	< 0.01 B
ANTIMONY	0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	0.0006	0.0005	0.0008	0.0006	0.0008
VOLATILE ORGANIC COMPOUNDS										
BROMOCHLOROMETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T,1,4-DICHLORO-2-BUTENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-TETRACHLOROETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2,3-TRICHLOROPROPANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-TRICHLOROETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TRICHLOROETHYLENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TETRACHLOROETHYLENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMODICHLOROMETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BROMOFORM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROBENZENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
VINYL CHLORIDE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
O-DICHLOROBENZENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
P-DICHLOROBENZENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-TRICHLOROETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-DICHLOROETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BENZENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOLUENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ETHYL BENZENE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-DUP & SPIKE F-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-AMENDED TEST RESULT E-AVERAGE

TABLE A.4
WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A
		SJ50064	SJ50138	SJ52271	SJ52272	SJ55868	SJ59940	SJ59941	SJ63899
		01/06/98	01/07/98	03/04/98	03/04/98	06/02/98	09/15/98	09/15/98	12/16/98
VOLATILE ORGANIC COMPOUNDS									
VINYL ACETATE	UG/L	<	10	<	10	<	10	<	10
O-XYLENE	UG/L	<	1	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
ACRYLONITRILE	UG/L	<	10	<	10	<	10	<	10
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1	<	1
1,2-DIBROMOETHANE	UG/L	<	0.01	<	0.01	<	0.01	<	0.01
ACETONE	UG/L	<	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5	D	5	D	5	D	5

FOOTNOTES : A-DUP & SPIKE F-AVERAGE OF DUPS B-DUPLICATE SPIKE C-CALCULATED VALUE D-AMENDED TEST RESULT E-AVERAGE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M43A SJ52269 03/04/98	WEFI M43A SJ52270 03/04/98	WEFI M43A SJ55866 06/02/98	WEFI M43A SJ59938 09/15/98	WEFI M43A SJ59939 09/15/98	WEFI M43A SJ63897 12/16/98
CATIONS							
IRON	MG/L FE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
METALS							
ARSENIC	MG/L AS	.0010	.0010	.0010	.0018	<.0010	.0018
BARIIUM	MG/L BA	0.05	0.06	0.04	0.03	0.03	0.02
COBALT	MG/L CO	< 0.02	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01
SELENIUM	MG/L SE	.0038	.0039	.0044	.0035	.0052	.0023
ZINC	MG/L ZN	0.01	0.01	0.01	< 0.01	< 0.01	< 0.01
ANTIMONY	MG/L SB	.0005	.0005	<.0005	.0006	<.0005	.0008

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ59674 09/08/98	WELL M47B SJ59675 09/08/98	WELL M47B SJ63797 12/15/98
FIELD PARAMETERS				
DEPTH TO WATER	FT	95.68		72.75
DEPTH TO BOTTOM	FT	129.4		129.5
PERCENT METHANE IN GAS	%CH4	< 0.1		< 0.1
PERCENT OXYGEN IN GAS	%O2	20		16
FIELD WATER TEMPERATURE	DEG C	25.65		22.22
FIELD PH	PH	7.98		7.82
FIELD CONDUCTIVITY	UMHOS/CM	5001		5288
FIELD DISSOLVED O2	MG/L	0.96		0.42
FIELD DISSOLVED CO2	MG/L	8		
GENERAL				
PH	PH	8.24	8.18	8.33
CONDUCTIVITY	UMHOS/CM	4840	4750	5310
TOTAL DISSOLVED SOLIDS	MG/L	3458	3374	3810
TOTAL HARDNESS	MG/L CaCO3	134	119	101
TOTAL CYANIDE	MG/L CN	<0.005	<0.005	<0.005
BORON	MG/L B	3.66	3.71	3.84
ANIONS				
NITRATE	MG/L N	0.38	0.77	< 0.05
SULFATE	MG/L SO4	1650	1590	1820
CHLORIDE	MG/L CL	326	325	321
TOTAL ALKALINITY	MG/L CaCO3	455	453	486
BICARBONATE ALKALINITY	MG/L CaCO3	423	451	474
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	1.66	1.73	1.86
CATIONS				
CALCIUM-HARDNESS	MG/L CaCO3	68.2	58.9	46.9
MAGNESIUM-HARDNESS	MG/L CaCO3	66.3	60.5	51.5
SODIUM	MG/L NA	1140	1140	1220
POTASSIUM	MG/L K	9.5	10.0	7.4
IRON	MG/L FE	0.46	0.24	0.21
MANGANESE	MG/L MN	0.04	0.04	0.03
ORGANIC MATTER				
AMMONIA NITROGEN	MG/L N	2.5	2.6	3.1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ59674 09/08/98	WELL M47B SJ59675 09/08/98	WELL M47B SJ63797 12/15/98
ORGANIC MATTER				
TOTAL BOD	MG/L O	<	9	7
SOLUBLE BOD	MG/L O	<	2 C	2
TOTAL COD	MG/L O	17 C	16	16
SOLUBLE COD	MG/L O	18	17	22
TOTAL ORGANIC CARBON	MG/L C	5.08	5.17	6.46
OIL & GREASE	MG/L C	4.0	4.0 E	4.0
TOTAL ORGANIC HALOGEN (TOX)	UG/L	15 D	22 D	8.1 E
METALS				
ARSENIC	MG/L AS	.0071	.0071	.0078
BARIUM	MG/L BA	0.02	0.02	< 0.01 E
CADMIUM	MG/L CD	< 0.003	< 0.003	< 0.003 E
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01 E
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01 E
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02 E
LEAD	MG/L PB	< 0.001	< 0.001	< 0.001 E
MERCURY	MG/L HG	< 0.04	0.03	0.02 E
NICKEL	MG/L NI	< 0.010	< 0.010	< 0.010 E
SELENIUM	MG/L SE	< 0.01	< 0.01	< 0.01 E
SILVER	MG/L AG	0.01	0.01	0.02 E
ZINC	MG/L ZN	0.013	.0014	<.0005
ANTIMONY	MG/L SB	< 0.025	< 0.025	< 0.025
BERYLLIUM	MG/L BE	< 0.001	< 0.001	0.002
THALLIUM	MG/L TL	< 0.06	< 0.06	< 0.06 E
TIN	MG/L SN	< 0.05	< 0.05	< 0.05 E
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05 E
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
2,4,5-T	UG/L	< 0.05	< 0.05	< 0.05
DINoseb	UG/L	< 0.1	< 0.1	< 0.1
THIONAZIN	UG/L	< 1	< 1	< 1
DIMETHOATE	UG/L	< 1	< 1	< 1
DISULFOTON	UG/L	< 1	< 1	< 1
METHYL PARATHION	UG/L	< 1	< 1	< 1
ETHYL PARATHION	UG/L	< 1	< 1	< 1
PHORATE	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ59674 09/08/98	WELL M47B M47B SJ59675 09/08/98	WELL M47B M47B SJ63797 12/15/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.5	< 0.5	< 0.5
2,4,5-TP (SILVEX)	UG/L	< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS				
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.3	< 0.3	< 0.3
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ59674 09/08/98	WELL M47B SJ59675 09/08/98	WELL M47B SJ63797 12/15/98
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<
1,2,3-TRICHLOROPROPANE	UG/L	<	10	<
METHYL METHACRYLATE	UG/L	<	15	<
METHYLENE CHLORIDE	UG/L	<	1	<
CHLOROFORM	UG/L	<	1	<
1,1,1-TRICHLOROETHANE	UG/L	<	0.3	<
CARBON TETRACHLORIDE	UG/L	<	1	<
1,1-DICHLOROETHENE	UG/L	<	1	<
TRICHLOROETHYLENE	UG/L	<	1	<
TETRACHLOROETHYLENE	UG/L	<	1	<
BROMODICHLOROMETHANE	UG/L	<	1	<
DIBROMOCHLOROMETHANE	UG/L	<	1	<
BROMOFORM	UG/L	<	1	<
CHLOROBENZENE	UG/L	<	0.3	<
VINYL CHLORIDE	UG/L	<	1	<
O-DICHLOROBENZENE	UG/L	<	1	<
M-DICHLOROBENZENE	UG/L	<	1	<
P-DICHLOROBENZENE	UG/L	<	1	<
1,1-DICHLOROETHANE	UG/L	<	1	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<
1,2-DICHLOROETHANE	UG/L	<	0.5	<
BENZENE	UG/L	<	1	<
TOLUENE	UG/L	<	10	<
ETHYL BENZENE	UG/L	<	1	<
VINYL ACETATE	UG/L	<	10	<
O-XYLENE	UG/L	<	1	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<
BROMOMETHANE	UG/L	<	1	<
CHLOROETHANE	UG/L	<	1	<
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<
CHLOROMETHANE	UG/L	<	1	<
1,2-DICHLOROPROPANE	UG/L	<	1	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<
ACROLEIN	UG/L	<	10	<
ACRYLONITRILE	UG/L	<	10	<
ACETONITRILE	UG/L	<	20	<
FREON 12 (CCL2F2)	UG/L	<	1	<
FREON 11 (CCL3F)	UG/L	<	1	<

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ59674 09/08/98	WELL M47B SJ59675 09/08/98	WELL M47B SJ63797 12/15/98
VOLATILE ORGANIC COMPOUNDS				
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1
2-HEXANONE	UG/L	5	5	5
				CS2
				C6H12O
ACID-BASE NEUTRAL EXTRACTABLE				
ACETOPHENONE	UG/L	<	<	1
2-ACETYLAMINOFLOURENE	UG/L	<	<	1
4-AMINOBIHENYL	UG/L	<	<	1
BENZYL ALCOHOL	UG/L	<	<	1
P-CHLOROANILINE	UG/L	<	<	1
CHLOROENZILATE	UG/L	<	<	1
DIALATE	UG/L	<	<	1
DIBENZOFURAN	UG/L	<	<	1
2, 6-DICHLOROPHENOL	UG/L	<	<	1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	1
7, 12-DIMETHYLBENZ(A) ANTHR	UG/L	10	10	10
3, 3'-DIMETHYLBENZIDINE	UG/L	<	<	1
M-DINITROBENZENE	UG/L	<	<	1
DIPHENYLAMINE	UG/L	<	<	1
ETHYL METHANESULFONATE	UG/L	<	<	1
FAMPHUR	UG/L	<	<	1
HEXACHLOROPROPENE	UG/L	5	5	5
ISODRIN	UG/L	<	<	1
ISOSAFROLE	UG/L	<	<	1
KEPONE	UG/L	<	<	1
METHAFYRILENE	UG/L	10	10	10
3-METHYLCHOLANTHRENE	UG/L	<	<	1
METHYL METHANESULFONATE	UG/L	<	<	1
2-METHYLNAPHTHALENE	UG/L	<	<	1
1, 4-NAPHTHOQUINONE	UG/L	<	<	1
1-NAPHTHYLAMINE	UG/L	<	<	1
2-NAPHTHYLAMINE	UG/L	<	<	1
O-NITROANILINE	UG/L	<	<	1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ59674 09/08/98	WELL M47B SJ59675 09/08/98	WELL M47B SJ63797 12/15/98
ACID-BASE NEUTRAL EXTRACTABLE				
M-NITROANILINE	UG/L	<	<	1
P-NITROANILINE	UG/L	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	5
PENTACHLORONITROBENZENE	UG/L	<	<	1
PHENACETIN	UG/L	20	<	20
P-PHENYLENEDIAMINE	UG/L	<	<	1
PRONAMIDE	UG/L	<	<	1
SAFROLE	UG/L	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	1
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	1
O-TOLUIDINE	UG/L	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	5
SYM-TRINITROBENZENE	UG/L	<	<	1
ACENAPHTHENE	UG/L	<	<	1
ACENAPHTHYLENE	UG/L	<	<	1
ANTHRACENE	UG/L	<	<	1
BENZIDINE	UG/L	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	1
BENZO (A) PYRENE	UG/L	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	1
BENZO (G. H. I.) PERYLENE	UG/L	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	1
BIS (2-CL-CHLOROETHYL) ETHER	UG/L	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	47	<	19
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	1
CHRYSENE	UG/L	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ59674 09/08/98	WELL M47B M47B SJ59675 09/08/98	WELL M47B M47B SJ63797 12/15/98
ACID-BASE				
NEUTRAL				
EXTRACTABLE				
DI-N-BUTYL PHTHALATE	UG/L	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	1
FLUORANTHENE	UG/L	<	<	1
FLUORENE	UG/L	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	5
HEXACHLOROETHANE	UG/L	<	<	1
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	1
ISOPHORONE	UG/L	<	<	1
NAPHTHALENE	UG/L	<	<	1
NITROBENZENE	UG/L	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	1
PHENANTHRENE	UG/L	<	<	1
PYRENE	UG/L	<	<	1
2-CHLOROPHENOL	UG/L	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	1
2-NITROPHENOL	UG/L	<	<	1
4-NITROPHENOL	UG/L	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	1
PHENOL	UG/L	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	1
O-CRESOL	UG/L	<	<	1
M+P CRESOL	UG/L	<	<	1

FOOTNOTES : A-AVERAGE B-CALCULATED VALUE C-DUP & SPIKE D-10% RULE EXCEEDED E-DUPLICATE SPIKE

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M41A SJ52264 03/04/98	WEFI M41A SJ55865 06/02/98	WEFI M41A SJ59943 09/15/98	WEFI M41A SJ63794 12/15/98
CATIONS					
IRON	MG/L FE	< 0.05	0.22	< 0.05	0.14
METALS					
ARSENIC	MG/L AS	.0014	.0015	.0011	.0014
BARIUM	MG/L BA	0.02	0.02	0.02	< 0.01
COBALT	MG/L CO	< 0.02	< 0.02	< 0.01	< 0.01
SELENIUM	MG/L SE	<.0010	.0023	.0061	.0035
ZINC	MG/L ZN	< 0.01	0.02	0.01	0.02
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005	<.0005

TABLE A.5
WATER QUALITY DATA
OFFSITE MONITORING WELLS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI
FIELD PARAMETERS							
DEPTH TO WATER	FT	15.12	15.02	15.35	15.74		
DEPTH TO BOTTOM	FT	33.98	33.98	33.94	34.01		
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1		
PERCENT OXYGEN IN GAS	%O2	20	19	16	19		
FIELD WATER TEMPERATURE	DEG C	20.85	21.7	21.81	20.9		
FIELD PH	PH	6.62	6.42	6.5	5.98		
FIELD CONDUCTIVITY	UMHOS/CM	2281	1910	1942	1978		
FIELD DISSOLVED O2	MG/L	0.43	0.21	0.09	2.17		
FIELD DISSOLVED CO2	MG/L	277	438	445			
GENERAL							
PH	PH	7.14	6.99	7.05	6.97		
CONDUCTIVITY	UMHOS/CM	1502	1846	2030 A	2020		
TOTAL DISSOLVED SOLIDS	MG/L			1349	1334		
TOTAL HARDNESS	MG/L			826 E	845 E		
TOTAL CYANIDE	MG/L CN			<0.005	<0.005		
BORON	MG/L B			0.67	0.70		
ANIONS							
NITRATE NITROGEN	MG/L N	0.19	4.07 C	2.36 C	2.66 D		
SULFATE	MG/L SO4	400	287 C	284 C	265		
CHLORIDE	MG/L CL	134	91.6 C	106 C	95.1 D		
TOTAL ALKALINITY	MG/L CACO3	657	657	802	797		
BICARBONATE ALKALINITY	MG/L CACO3	657	657	802	797		
TOTAL SULFIDE	MG/L S			< 0.1	< 0.1		
FLUORIDE	MG/L F			0.67	0.63		
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	589 C	517	547	559		
MAGNESIUM-HARDNESS	MG/L CACO3	311 C	261	279	286		
SODIUM	MG/L NA	174 C	137	153	154		
POTASSIUM	MG/L K	3.7 C	4.8	5.3	5.2		
IRON	MG/L FE			0.15	0.10		
MANGANESE	MG/L MN			0.63	0.63		
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1		

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI
ORGANIC MATTER							
TOTAL BOD	MG/L O	<	2 A	<	2	A	<
SOLUBLE BOD	MG/L O	<	2	<	2	<	2
TOTAL COD	MG/L O	<	9	<	10	<	10
SOLUBLE COD	MG/L C	3.76	3.69	<	10	11	11
TOTAL ORGANIC CARBON	MG/L C	3.76	3.69	<	4.27	C	4.41
OIL & GREASE	MG/L EXTRAC	<	4.0	<	4.0	<	3.0
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	46	D	46	D	14
METALS							
ARSENIC	MG/L AS	.0020	.0019	<	0.10	<	0.10
BARIUM	MG/L BA	<	0.10	<	0.003	<	0.003
CADMIUM	MG/L CD	<	0.01	<	0.01	<	0.01
TOTAL CHROMIUM	MG/L CR	<	0.01	<	0.01	<	0.01
COBALT	MG/L CO	<	0.01	<	0.01	<	0.01
COPPER	MG/L CU	<	0.02	<	0.02	<	0.02
LEAD	MG/L PB	<	0.001	<	0.001	<	0.001
MERCURY	MG/L HG	<	0.02	<	0.02	<	0.02
NICKEL	MG/L NI	.0021	.0022	<	0.01	<	0.01
SELENIUM	MG/L SE	<	0.01	<	0.01	<	0.01
SILVER	MG/L AG	<	0.09	<	0.09	<	0.09
ZINC	MG/L ZN	.0006	.0006	<	0.025	<	0.025
ANTIMONY	MG/L SB	<	0.001	<	0.001	<	0.001
BERYLLIUM	MG/L BE	<	0.06	<	0.06	<	0.06
THALLIUM	MG/L TL	<	0.05	<	0.05	<	0.05
TIN	MG/L SN	<	0.05	<	0.05	<	0.05
VANADIUM	MG/L V	<	0.05	<	0.05	<	0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L	<	0.05	<	0.1	<	0.05
DINoseb	UG/L	<	0.1	<	0.1	<	0.1
THIONAZIN	UG/L	<	1	<	1	<	1
DIMETHOATE	UG/L	<	1	<	1	<	1
DISULFOTON	UG/L	<	1	<	1	<	1
METHYL PARATHION	UG/L	<	1	<	1	<	1
ETHYL PARATHION	UG/L	<	1	<	1	<	1
PHORATE	UG/L	<	0.01	<	0.01	<	0.01
PP'-DDE	UG/L	<	0.01	<	0.01	<	0.01
PP'-DDD	UG/L	<	0.01	<	0.01	<	0.01
PP'-DDT	UG/L	<	0.01	<	0.01	<	0.01

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1
SJ52304	UG/L	SJ52305	SJ55957	SJ59811	SJ59812	SJ63801
03/05/98		03/05/98	06/03/98	09/10/98	09/10/98	12/15/98

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4,5-TP (SILVEX)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1242	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1221	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1232	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1248	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1260	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 1	< 1	< 1	< 1	< 1
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-DICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-DICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-DICHLOROPROPENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1
VOLATILE ORGANIC COMPOUNDS									
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
1,1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1
VOLATILE ORGANIC COMPOUNDS							
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE							
ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<
4-AMINOBI PHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROANILINE	UG/L	<	<	<	<	<	<
DIALATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3, 3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI
SJ52304		SJ52304	SJ52305	SJ59811	SJ59812	SJ63801		
03/05/98		03/05/98	06/03/98	09/10/98	09/10/98	12/15/98		

ACID-BASE NEUTRAL EXTRACTABLE	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
M-NITROANILINE	<	<	<	<	<	<	<	<
P-NITROANILINE	<	<	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	<	<	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	<	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	<	<	<	<	<	<	<	<
N-NITROSOPYRIDINE	<	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	<	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	<	<	<	<	<	<	<	<
PENTACHLOROBENZENE	5	5	5	5	5	5	5	5
PENTACHLORONITROBENZENE	20	20	20	20	20	20	20	20
PHENACETIN	<	<	<	<	<	<	<	<
P-PHENYLENEDIAMINE	<	<	<	<	<	<	<	<
PROMAMIDE	<	<	<	<	<	<	<	<
SAFROLE	<	<	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	<	<	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	<	<	<	<	<	<	<	<
O-TOLUIDINE	<	<	<	<	<	<	<	<
O,O,O-TRIETHYLPHOSPHOROTH	5	5	5	5	5	5	5	5
SYM-TRINITROBENZENE	<	<	<	<	<	<	<	<
ACENAPHTHENE	<	<	<	<	<	<	<	<
ACENAPHTHYLENE	<	<	<	<	<	<	<	<
ANTHRACENE	<	<	<	<	<	<	<	<
BENZIDINE	<	<	<	<	<	<	<	<
BENZO(A)ANTHRACENE	<	<	<	<	<	<	<	<
BENZO(A)PYRENE	<	<	<	<	<	<	<	<
BENZO(B)FLUORANTHENE	<	<	<	<	<	<	<	<
BENZO(G,H,I)PERYLENE	<	<	<	<	<	<	<	<
BENZO(K)FLUORANTHENE	<	<	<	<	<	<	<	<
BIS(2-CL-ETHOXY)METHANE	<	<	<	<	<	<	<	<
BIS(2-CL-OROETHYL)ETHER	<	<	<	<	<	<	<	<
BIS(2-CL-ISOPROPYL)ETHER	<	<	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	<	<	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	<	<	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	<	<	<	<	<	<	<	<
2-CHLORONAPHTHALENE	<	<	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	<	<	<	<	<	<	<	<
CHRYSENE	<	<	<	<	<	<	<	<
DIBENZO(A,H)ANTHRACENE	<	<	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	<	<	<	<	<	<	<	<
DIETHYL PHTHALATE	<	<	<	<	<	<	<	<
DIMETHYL PHTHALATE	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-AVERAGE E-CALCULATED VALUE

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPI SJ52304 03/05/98	WELL EMPI SJ52305 03/05/98	WELL EMPI SJ55957 06/03/98	WELL EMPI SJ59811 09/10/98	WELL EMPI SJ59812 09/10/98	WELL EMPI SJ63801 12/15/98
ACID-BASE NEUTRAL EXTRACTABLE							
DI-N-BUTYL PHTHALATE	UG/L						
2,4-DINITROTOLUENE	UG/L						
2,6-DINITROTOLUENE	UG/L						
DI-N-OCTYL PHTHALATE	UG/L						
FLUORANTHENE	UG/L						
FLUORENE	UG/L						
HEXACHLOROBENZENE	UG/L						
HEXACHLOROBUTADIENE	UG/L						
HEXACHLOROCYCLOPENTADIENE	UG/L						
HEXACHLOROETHANE	UG/L						
INDENO(1,2,3-C,D)PYRENE	UG/L						
ISOPHORONE	UG/L						
NAPHTHALENE	UG/L						
NITROBENZENE	UG/L						
N-NITROSODIMETHYLAMINE	UG/L						
N-NITROSODI-N-PROPYLAMINE	UG/L						
PHENANTHRENE	UG/L						
PYRENE	UG/L						
2-CHLOROPHENOL	UG/L						
1,2,4-TRICHLOROBENZENE	UG/L						
2,4-DICHLOROPHENOL	UG/L						
2,4-DIMETHYLPHENOL	UG/L						
2,4-DINITROPHENOL	UG/L						
2-METHYL-4,6-DINITROPHENOL	UG/L						
2-NITROPHENOL	UG/L						
4-NITROPHENOL	UG/L						
4-CHLORO-3-METHYLPHENOL	UG/L						
PENTACHLOROPHENOL	UG/L						
PHENOL	UG/L						
2,4,6-TRICHLOROPHENOL	UG/L						
N-NITROSODIPHENYLAMINE	UG/L						
O-CRESOL	UG/L						
M+P CRESOL	UG/L						

FOOTNOTES : A-DUP & SPIKE

B-AMENDED TEST RESULT

C-DUPLICATE SPIKE

D-AVERAGE

E-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP1 SJ59809 09/10/98	WEFI EMP1 SJ59810 09/10/98
CATIONS			
IRON	MG/L FE	< 0.05	< 0.05
MANGANESE	MG/L MN	0.63	0.64
METALS			
ARSENIC	MG/L AS	.0019	.0019
BARIIUM	MG/L BA	0.10	0.10
CADMIUM	MG/L CD	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	< 0.02	< 0.02
SELENIUM	MG/L SE	.0024	.0022
SILVER	MG/L AG	< 0.01	< 0.01
ZINC	MG/L ZN	0.08	0.08
ANTIMONY	MG/L SB	.0005	.0005
BERYLLIUM	MG/L BE	<.0025	<.0025
THALLIUM	MG/L TL	<0.001	<0.001
TIN	MG/L SN	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL
EMP2	EMP2	EMP2	EMP2
SJ52621	SJ56288	SJ59714	SJ63998
03/13/98	06/11/98	09/09/98	12/18/98

UNITS

FIELD PARAMETERS

DEPTH TO WATER	30.44	29.52	29.85	30.2
FT	229.6	229.6	229.7	227.9
PERCENT METHANE IN GAS	< 0.1	< 0.1	< 0.1	< 0.1
%CH4	20	18	20	21
PERCENT OXYGEN IN GAS	19.66	20.71	22.17	20.08
%O2	6.59	6.54	6.65	6.89
FIELD WATER TEMPERATURE	1039	1082	1080	1028
PH	0.33	0.32	0.2	0.32
FIELD CONDUCTIVITY	81	97	83	
UMHOS/CM				
FIELD DISSOLVED O2				
MG/L				
FIELD DISSOLVED CO2				
MG/L				

GENERAL

PH	7.33	7.22	7.12	7.37
UMHOS/CM			1097	
CONDUCTIVITY	602	623	653	673
TOTAL DISSOLVED SOLIDS			194	D
MG/L			<0.005	
TOTAL HARDNESS			0.36	
MG/L				
TOTAL CYANIDE				
MG/L				
BORON				
MG/L				

ANIONS

NITRATE NITROGEN	< 0.04	< 0.05	C	< 0.05	E
MG/L	101	120	C	142	150
SULFATE	136	129	C	146	130
MG/L	179	192	A	210	
CHLORIDE	179	192		210	
MG/L				< 0.1	
TOTAL ALKALINITY				0.75	
MG/L					
BICARBONATE ALKALINITY					
MG/L					
TOTAL SULFIDE					
MG/L					
FLUORIDE					
MG/L					

CATIONS

CALCIUM-HARDNESS	90.6	107		116	E
MG/L	75.3	77.4		77.8	E
MAGNESIUM-HARDNESS	153	149		146	E
MG/L	4.3	4.5		4.7	E
SODIUM				0.19	E
POTASSIUM				0.16	E
MG/L					
IRON					
MG/L					
MANGANESE					
MG/L					

ORGANIC MATTER

AMMONIA NITROGEN	0.2	0.4	0.80	
MG/L				

FOOTNOTES : A-DUP & SPIKE
F-AVERAGE OF DUPS

B-AMENDED TEST RESULT C-AVERAGE

D-CALCULATED VALUE

E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL EMP2	WELL EMP2	WELL EMP2	WELL EMP2
SJ52621	SJ56288	SJ59714	SJ63998
03/13/98	06/11/98	09/09/98	12/18/98

CONSTITUENT/WELL NO. UNITS

ORGANIC MATTER

 TOTAL BOD MG/L O < 2 < 2 A < 2
 SOLUBLE BOD MG/L O < 10
 TOTAL COD MG/L O < 10
 SOLUBLE COD MG/L O < 2.99
 TOTAL ORGANIC CARBON MG/L C < 3.0
 OIL & GREASE MG/L EXTRAC < 7.2 E
 TOTAL ORGANIC HALOGEN (TOX UG/L

METALS

 ARSENIC MG/L AS .0012 E
 BARIUM MG/L BA 0.01 E
 CADMIUM MG/L CD < 0.003 E
 TOTAL CHROMIUM MG/L CR < 0.01 E
 COBALT MG/L CO < 0.01 E
 COPPER MG/L CU < 0.01 E
 LEAD MG/L PB < 0.02 E
 MERCURY MG/L HG < .0001 E
 NICKEL MG/L NI < 0.02 E
 SELENIUM MG/L SE < .0010 E
 SILVER MG/L AG < 0.01 E
 ZINC MG/L ZN 0.04 E
 ANTIMONY MG/L SB < .0005 E
 BERYLLIUM MG/L BE < .0025 E
 THALLIUM MG/L TL < 0.001 E
 TIN MG/L SN < 0.06 E
 VANADIUM MG/L V < 0.05 E

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

 2,4,5-T UG/L < 0.05
 DINOSEB UG/L < 0.1
 THIONAZIN UG/L < 1
 DIMETHOATE UG/L < 1
 DISULFOTON UG/L < 1
 METHYL PARATHION UG/L < 1
 ETHYL PARATHION UG/L < 1
 PHORATE UG/L < 0.01
 PP'-DDE UG/L < 0.01
 PP'-DDD UG/L < 0.01
 PP'-DDT UG/L < 0.01

FOOTNOTES : A-DUP & SPIKE F-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ52621 03/13/98	WELL EMP2 SJ56288 06/11/98	WELL EMP2 SJ59714 09/09/98	WELL EMP2 SJ63998 12/18/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<
ALDRIN	UG/L	<	<	<	<
DIELDRIN	UG/L	<	<	<	<
ENDRIN	UG/L	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<
2,4-D(ACID)	UG/L	<	<	<	<
2,4,5-TP(SILVEX)	UG/L	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<
BETA-BHC	UG/L	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<

FOOTNOTES : A-DUP & SPIKE F-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL EMP2	WELL EMP2	WELL EMP2	WELL EMP2
SJ52621	SJ56288	SJ59714	SJ63998
03/13/98	06/11/98	09/09/98	12/18/98

UNITS

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT/WELL NO.	WELL EMP2	WELL EMP2	WELL EMP2	WELL EMP2	WELL EMP2
1, 1, 2-TETRACHLOROETHANE	<	<	<	<	<
1, 2, 3-TRICHLOROPROPANE	<	<	<	<	<
METHYL METHACRYLATE	<	<	<	<	<
ETHYL METHACRYLATE	<	<	<	<	<
METHYLENE CHLORIDE	<	<	<	<	<
CHLOROFORM	<	<	<	<	<
1, 1, 1-TRICHLOROETHANE	<	<	<	<	<
CARBON TETRACHLORIDE	<	<	<	<	<
1, 1-DICHLOROETHENE	<	<	<	<	<
TRICHLOROETHYLENE	<	<	<	<	<
TETRACHLOROETHYLENE	<	<	<	<	<
BROMODICHLOROMETHANE	<	<	<	<	<
DIBROMOCHLOROMETHANE	<	<	<	<	<
BROMOFORM	<	<	<	<	<
CHLOROBENZENE	<	<	<	<	<
VINYL CHLORIDE	<	<	<	<	<
O-DICHLOROBENZENE	<	<	<	<	<
M-DICHLOROBENZENE	<	<	<	<	<
P-DICHLOROBENZENE	<	<	<	<	<
1, 1-DICHLOROETHANE	<	<	<	<	<
1, 1, 2-TRICHLOROETHANE	<	<	<	<	<
1, 2-DICHLOROETHANE	<	<	<	<	<
BENZENE	<	<	<	<	<
TOLUENE	<	<	<	<	<
ETHYL BENZENE	<	<	<	<	<
VINYL ACETATE	<	<	<	<	<
O-XYLENE	<	<	<	<	<
TRANS-1, 2-DICHLOROETHYLENE	<	<	<	<	<
BROMOETHANE	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	<	<	<	<	<
CHLOROMETHANE	<	<	<	<	<
1, 2-DICHLOROPROPANE	<	<	<	<	<
CIS-1, 3-DICHLOROPROPENE	<	<	<	<	<
TRANS-1, 3-DICHLOROPROPENE	<	<	<	<	<
1, 1, 2, 2-TETRACHLOROETHANE	<	<	<	<	<
ACROLEIN	<	<	<	<	<
ACRYLONITRILE	<	<	<	<	<
ACETONITRILE	<	<	<	<	<
FREON 12 (CCL2F2)	<	<	<	<	<
FREON 11 (CCL3F)	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE F-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ52621 03/13/98	WELL EMP2 SJ56288 06/11/98	WELL EMP2 SJ59714 09/09/98	WELL EMP2 SJ63998 12/18/98
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	5 B	5 B	5	5

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	10	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	5	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	10	<
METHAPYRILENE	UG/L	<	<	20	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-DUPLICATE SPIKE F-AVERAGE OF DUPS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ52621 03/13/98	WELL EMP2 SJ56288 06/11/98	WELL EMP2 SJ59714 09/09/98	WELL EMP2 SJ63998 12/18/98
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	5
PENTACHLORONITROBENZENE	UG/L	<	<	<	1
PHENACETIN	UG/L	<	<	<	20
P-PHENYLENEDIAMINE	UG/L	<	<	<	1
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
1,2,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G, H, I) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLURANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CL-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYL BENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-DUPLICATE SPIKE
F-AVERAGE OF DUPS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2	WELL EMP2	WELL EMP2	WELL EMP2
DI-N-BUTYL PHTHALATE	UG/L	SJ52621	SJ56288	SJ59714	SJ63998
2,4-DINITROTOLUENE	UG/L	03/13/98	06/11/98	09/09/98	12/18/98
2,6-DINITROTOLUENE	UG/L	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<
FLUORENE	UG/L	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<
PYRENE	UG/L	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<
PHENOL	UG/L	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<
O-CRESOL	UG/L	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<

FOOTNOTES : A-DUP & SPIKE F-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	VALUES
CATIONS		
IRON	MG/L FE	0.18
MANGANESE	MG/L MN	0.15
METALS		
ARSENIC	MG/L AS	.0014
BARIUM	MG/L BA	0.01
CADMIUM	MG/L CD	<0.003
TOTAL CHROMIUM	MG/L CR	<0.01
COBALT	MG/L CO	<0.01
COPPER	MG/L CU	<0.01
LEAD	MG/L PB	<0.02
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	<0.02
SELENIUM	MG/L SE	.0027
SILVER	MG/L AG	<0.01
ZINC	MG/L ZN	<0.01
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025 A
THALLIUM	MG/L TL	<0.001 A
TIN	MG/L SN	<0.06
VANADIUM	MG/L V	<0.05

FOOTNOTES : A-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ52622 03/13/98	WELL EMP3 SJ56289 06/11/98	WELL EMP3 SJ59902 09/14/98	WELL EMP3 SJ63999 12/18/98
FIELD PARAMETERS					
DEPTH TO WATER	FT	13.22	11.81	11.64	12.95
DEPTH TO BOTTOM	FT	198.5	198.6	198.5	198.5
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	18	19	21
FIELD WATER TEMPERATURE	DEG C	21.78	21.09	23.44	20.61
FIELD PH	PH	7.46	7.37	7.48	7.68
FIELD CONDUCTIVITY	UMHOS/CM	2864	2937	2714	2676
FIELD DISSOLVED O2	MG/L	0.11	0.19	< 0.01	0.19
FIELD DISSOLVED CO2	MG/L	7	9	7	7
GENERAL					
PH	PH	7.90	7.89	7.77	7.87
CONDUCTIVITY	UMHOS/CM			2880	
TOTAL DISSOLVED SOLIDS	MG/L	2036	1970	2033	2066
TOTAL HARDNESS	MG/L CaCO3			446	D
TOTAL CYANIDE	MG/L CN			< 0.005	
BORON	MG/L B			0.50	
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.04	A	< 0.05	C
SULFATE	MG/L SO4	985	1060	1100	< 0.05
CHLORIDE	MG/L CL	192	198	210	1180
TOTAL ALKALINITY	MG/L CaCO3	115	116	115	198
BICARBONATE ALKALINITY	MG/L CaCO3	115	116	115	
TOTAL SULFIDE	MG/L S			< 0.1	
FLUORIDE	MG/L F			0.57	
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	262	280	265	A
MAGNESIUM-HARDNESS	MG/L CaCO3	183	190	181	A
SODIUM	MG/L NA	481	466	476	A
POTASSIUM	MG/L K	4.9	5.0	5.1	A
IRON	MG/L FE			0.18	A
MANGANESE	MG/L MN			0.05	A
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	0.7	0.7	1.00	

FOOTNOTES : A- DUPLICATE SPIKE B- AMENDED TEST RESULT C- AVERAGE D- CALCULATED VALUE E- 10% RULE EXCEEDED
 F- DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ52622 03/13/98	WELL EMP3 SJ56289 06/11/98	WELL EMP3 SJ59902 09/14/98	WELL EMP3 SJ63999 12/18/98

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ52622 03/13/98	WELL EMP3 SJ56289 06/11/98	WELL EMP3 SJ59902 09/14/98	WELL EMP3 SJ63999 12/18/98
ORGANIC MATTER					
TOTAL BOD	MG/L O	<	2	<	2
SOLUBLE BOD	MG/L O	<	<	<	2
TOTAL COD	MG/L O	<	2	<	10
SOLUBLE COD	MG/L O	<	<	<	10
TOTAL ORGANIC CARBON	MG/L C	1.05 A	0.990	<	1.22
OIL & GREASE	MG/L EXTRAC			<	4.0
TOTAL ORGANIC HALOGEN (TOX)	UG/L				9.0 E
METALS					
ARSENIC	MG/L AS			.0018	A
BARIIUM	MG/L BA			<0.003	A
CADMIUM	MG/L CD			<0.01	A
TOTAL CHROMIUM	MG/L CR			<0.01	A
COBALT	MG/L CO			<0.01	A
COPPER	MG/L CU			<0.01	A
LEAD	MG/L PB			<0.02	A
MERCURY	MG/L HG			<.0001	A
NICKEL	MG/L NI			<0.02	A
SELENIUM	MG/L SE			<.0010	A
SILVER	MG/L AG			<0.01	A
ZINC	MG/L ZN			0.04	A
ANTIMONY	MG/L SB			<.0005	A
BERYLLIUM	MG/L BE			<.0001	A
THALLIUM	MG/L TL			<0.06	A
TIN	MG/L SN			<0.05	A
VANADIUM	MG/L V			<0.05	A
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L			<0.05	
DINOSB	UG/L			<0.1	
THIONAZIN	UG/L			<1	
DIMETHOATE	UG/L			<1	
DISULFOTON	UG/L			<1	
METHYL PARATHION	UG/L			<1	
ETHYL PARATHION	UG/L			<1	
PHORATE	UG/L			<0.01	
PP'-DDE	UG/L			<0.01	
PP'-DDD	UG/L			<0.01	
PP'-DDT	UG/L			<0.01	

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ52622 03/13/98	WELL EMP3 SJ56289 06/11/98	WELL EMP3 SJ59902 09/14/98	WELL EMP3 SJ63999 12/18/98
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D(ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP(SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1242	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1250	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 1	< 1	< 1	< 1
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 10	< 10	< 10	< 10
1,1-DICHLOROPROPENE	UG/L	< 10	< 10	< 10	< 10
ISOBUTYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1
METHACRYLONITRILE	UG/L	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED F-DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ52622 03/13/98	WELL EMP3 SJ56289 06/11/98	WELL EMP3 SJ59902 09/14/98	WELL EMP3 SJ63999 12/18/98
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	1	1	1	1
1,2,3-TRICHLOROPROPANE	UG/L	1	1	1	1
METHYL METHACRYLATE	UG/L	<	<	10	<
ETHYL METHACRYLATE	UG/L	<	<	5	<
METHYLENE CHLORIDE	UG/L	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<
1,1-DICHLOROETHENE	UG/L	0.3	0.3	0.3	0.3
TRICHLOROETHYLENE	UG/L	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<
BROMOFORM	UG/L	<	<	<	<
CHLOROETHENE	UG/L	<	<	<	<
VINYL CHLORIDE	UG/L	0.3	0.3	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<
1,1-DICHLOROETHANE	UG/L	1	1	1	1
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<
1,2-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3
BENZENE	UG/L	0.5	0.5	0.5	0.5
TOLUENE	UG/L	<	<	<	<
ETHYL BENZENE	UG/L	1	1	1	1
VINYL ACETATE	UG/L	10	10	10	10
O-XYLENE	UG/L	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<
2-CHLOROETHYL VINYL ETHER	UG/L	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	0.5	0.5
ACROLEIN	UG/L	<	<	10	10
ACRYLONITRILE	UG/L	<	<	10	10
ACETONITRILE	UG/L	<	<	20	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED
F-DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3	WELL EMP3	WELL EMP3	WELL EMP3
		SJ52622	SJ56289	SJ59902	SJ63999
		03/13/98	06/11/98	09/14/98	12/18/98

VOLATILE ORGANIC COMPOUNDS

1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	10	10	10	10
CIS-1, 2-DICHLOROETHYLENE	UG/L	1	1	1	1
2-BUTANONE	UG/L	10	10	10	10
4-METHYL-2-PENTANONE	UG/L	10	10	10	10
STYRENE	UG/L	1	1	1	1
2, 4, 5-TRICHLOROPHENOL	UG/L	1	1	1	1
M+P-XYLENE	UG/L	1	1	1	1
CARBON DISULFIDE	UG/L	5	5	5	5
2-HEXANONE	UG/L	5	5	5	5

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFUORENE	UG/L	<	<	<	<
4-AMINOBIHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	10	10	10	10
3, 3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	10	10	10	10
METHAPYRILENE	UG/L	20	20	20	20
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE
F-DUP & SPIKE

B-AMENDED TEST RESULT C-AVERAGE D-CALCULATED VALUE E-10% RULE EXCEEDED

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ52622 03/13/98	WELL EMP3 SJ56289 06/11/98	WELL EMP3 SJ59902 09/14/98	WELL EMP3 SJ63999 12/18/98
ACID-BASE NEUTRAL EXTRACTABLE		<	<	<	1
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPYRIDINE	UG/L	<	<	<	1
N-NITROOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	5
PENTACHLORONITROBENZENE	UG/L	<	<	<	1
PHENACETIN	UG/L	<	<	<	20
P-PHENYLENEDIAMINE	UG/L	<	<	<	1
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O-O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	5
SYM-TRINITROBENZENE	UG/L	<	<	<	1
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G.H.I.) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A- DUPLICATE SPIKE F-DUP & SPIKE B- AMENDED TEST RESULT C- AVERAGE D- CALCULATED VALUE E- 10% RULE EXCEEDED

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL EMP3	WELL EMP3	WELL EMP3	WELL EMP3
SJ52622	SJ56289	SJ59902	SJ63999
03/13/98	06/11/98	09/14/98	12/18/98

CONSTITUENT/WELL NO. UNITS

ACID-BASE NEUTRAL EXTRACTABLE

DI-N-BUTYL PHTHALATE	UG/L	<	1
2,4-DINITROTOLUENE	UG/L	<	1
2,6-DINITROTOLUENE	UG/L	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	1
FLUORANTHENE	UG/L	<	1
FLUORENE	UG/L	<	1
HEXACHLOROBENZENE	UG/L	<	1
HEXACHLOROBUTADIENE	UG/L	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	15
HEXACHLOROETHANE	UG/L	<	1
INDENO(1,2,3-C,D) PYRENE	UG/L	<	1
ISOPHORONE	UG/L	<	1
NAPHTHALENE	UG/L	<	1
NITROBENZENE	UG/L	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1
PHENANTHRENE	UG/L	<	1
PYRENE	UG/L	<	1
2-CHLOROPHENOL	UG/L	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1
2,4-DICHLOROPHENOL	UG/L	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1
2,4-DINITROPHENOL	UG/L	<	6
2-METHYL-4,6DINITROPHENOL	UG/L	<	1
2-NITROPHENOL	UG/L	<	1
4-NITROPHENOL	UG/L	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1
PENTACHLOROPHENOL	UG/L	<	1
PHENOL	UG/L	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1
O-CRESOL	UG/L	<	1
M+P CRESOL	UG/L	<	1

FOOTNOTES : A-DUPLICATE SPIKE
F-DUP & SPIKE

B-AMENDED TEST RESULT C-AVERAGE

D-CALCULATED VALUE

E-10% RULE EXCEEDED

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP3 SJ59901 09/14/98
CATIONS		
IRON	MG/L FE	0.17
MANGANESE	MG/L MN	0.05
METALS		
ARSENIC	MG/L AS	.0018
BARIUM	MG/L BA	< 0.01
CADMIUM	MG/L CD	< 0.003
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	< 0.02
MERCURY	MG/L HG	< .0001
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	< .0010
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	< 0.01
ANTIMONY	MG/L SB	< .0005
BERYLLIUM	MG/L BE	< .0025
THALLIUM	MG/L TL	< 0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 03/11/98	WELL EMP5 06/03/98	WELL EMP5 09/03/98	WELL EMP5 09/03/98	WELL EMP5 09/03/98	WELL EMP5 12/04/98
FIELD PARAMETERS							
DEPTH TO WATER	FT	13.87	13.61	14.17	14.55		
DEPTH TO BOTTOM	FT	28.21	28.27	28.21	28.13		
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1		
PERCENT OXYGEN IN GAS	%O2	6	18	11	21		
FIELD WATER TEMPERATURE	DEG C	22.41	21.1	23.54	20.24		
FIELD PH	PH	6.64	6.4	6.52	6.38		
FIELD CONDUCTIVITY	UMHOS/CM	1838	2347	2612	2605		
FIELD DISSOLVED O2	MG/L	1.38	1.51	1.38	0.19		
FIELD DISSOLVED CO2	MG/L	222	500	377	525		
GENERAL							
PH	PH	6.94	6.96	7.06	7.00		
CONDUCTIVITY	UMHOS/CM			2360	2630		
TOTAL DISSOLVED SOLIDS	MG/L	1306	1688	1870 B	1938		1918
TOTAL HARDNESS	MG/L CaCO3			1192 A	1197 A		
TOTAL CYANIDE	MG/L CN		< 0.005	< 0.005	< 0.005		
BORON	MG/L B		1.06	1.10			
ANIONS							
NITRATE	MG/L N	0.81	0.11 E	0.05 E	0.05		< 0.05
SULFATE	MG/L SO4	400	491 E	606	601		586
CHLORIDE	MG/L CL	112	154 E	192	191		190
TOTAL ALKALINITY	MG/L CaCO3	552	716	712	719		718
BICARBONATE ALKALINITY	MG/L CaCO3	552 A	716	712	719		718
TOTAL SULFIDE	MG/L S		< 0.1	< 0.1	< 0.1		
FLUORIDE	MG/L F		0.61	0.61	0.61		
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3	467 D	604 D	694	699		719
MAGNESIUM-HARDNESS	MG/L CaCO3	314 D	432 D	498	498		490
SODIUM	MG/L NA	135 D	171 D	189	184		184
POTASSIUM	MG/L K	5.2 D	3.0 D	4.6	4.4		4.3
IRON	MG/L FE		0.14 E	0.05 E	0.05 E		
MANGANESE	MG/L MN		0.38	0.36	0.36		
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPS 03/11/98	WELL EMPS 06/03/98	WELL EMPS 09/03/98	WELL EMPS 09/03/98	WELL EMPS 09/03/98	WELL EMPS 12/04/98
ORGANIC MATTER							
TOTAL BOD	MG/L O	<	2 B	<	2	<	2
SOLUBLE BOD	MG/L O	<	2	<	2	<	2
TOTAL COD	MG/L O	13	11	11	11	10	19
SOLUBLE COD	MG/L C	3.04	2.97	4.35	4.45	4.45	4.86
TOTAL ORGANIC CARBON	MG/L C	3.04	2.97	4.35	4.45	4.45	4.86
OIL & GREASE	MG/L	<	<	<	<	<	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	35 E	<	35 E	<	35 E
METALS							
ARSENIC	MG/L AS	<	<	.0044	.0043	<	<
BARIUM	MG/L BA	<	<	0.05	0.05	<	<
CADMIUM	MG/L CD	<	<	<0.003	<0.003	<	<
TOTAL CHROMIUM	MG/L CR	<	<	<0.01	<0.01	<	<
COBALT	MG/L CO	<	<	<0.01	<0.01	<	<
COPPER	MG/L CU	<	<	<0.01	<0.01	<	<
LEAD	MG/L PB	<	<	<0.02	<0.02	<	<
MERCURY	MG/L HG	<	<	.0001	.0001	<	<
NICKEL	MG/L NI	<	<	0.02	0.02	<	<
SELENIUM	MG/L SE	<	<	<0.010	<0.010	<	<
SILVER	MG/L AG	<	<	0.01	0.01	<	<
ZINC	MG/L ZN	<	<	0.04	0.03	<	<
ANTIMONY	MG/L SB	<	<	.0005	.0005	<	<
BERYLLIUM	MG/L BE	<	<	<0.025	<0.025	<	<
THALLIUM	MG/L TL	<	<	<0.001	<0.001	<	<
TIN	MG/L SN	<	<	0.06	0.06	<	<
VANADIUM	MG/L V	<	<	0.05	0.05	<	<
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L	<	<	0.25	0.25	<	<
DINoseb	UG/L	<	<	0.5	0.5	<	<
THIONAZIN	UG/L	<	<	1	1	<	<
DIMETHOATE	UG/L	<	<	1	1	<	<
DISULFOTON	UG/L	<	<	1	1	<	<
METHYL PARATHION	UG/L	<	<	1	1	<	<
ETHYL PARATHION	UG/L	<	<	1	1	<	<
PHORATE	UG/L	<	<	0.01	0.01	<	<
PP'-DDE	UG/L	<	<	0.01	0.01	<	<
PP'-DDD	UG/L	<	<	0.01	0.01	<	<
PP'-DDT	UG/L	<	<	0.01	0.01	<	<

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ52468 03/11/98	WELL EMP5 SJ55958 06/03/98	WELL EMP5 SJ59580 09/03/98	WELL EMP5 SJ59581 09/03/98	WELL EMP5 SJ63296 12/04/98
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2,4,5-TP (SILVEX)	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPS SJ52468 03/11/98	WELL EMPS SJ55958 06/03/98	WELL EMPS SJ59580 09/03/98	WELL EMPS SJ59581 09/03/98	WELL EMPS SJ63296 12/04/98
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	1
1,1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	1
METHYL METHACRYLATE	UG/L	<	<	<	10	<
ETHYL METHACRYLATE	UG/L	<	<	<	5	<
METHYLENE CHLORIDE	UG/L	<	1	<	1	1
CHLOROFORM	UG/L	<	1	<	1	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	1	1
1,1-DICHLOROETHYLENE	UG/L	<	1	<	1	1
TETRACHLOROETHYLENE	UG/L	<	1	<	1	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	1
BROMOFORM	UG/L	<	1	<	1	1
CHLOROBENZENE	UG/L	<	0.3	<	1	0.3
VINYL CHLORIDE	UG/L	<	1	<	0.3	1
O-DICHLOROBENZENE	UG/L	<	1	<	1	1
M-DICHLOROBENZENE	UG/L	<	1	<	1	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	1
1,1,1-DICHLOROETHANE	UG/L	<	1	<	1	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.5	0.5
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
BENZENE	UG/L	<	1	<	1	1
TOLUENE	UG/L	<	1	<	1	1
ETHYL BENZENE	UG/L	<	10	<	10	10
VINYL ACETATE	UG/L	<	1	<	1	1
O-XYLENE	UG/L	<	1	<	1	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	1
BROMOMETHANE	UG/L	<	1	<	1	1
CHLOROETHANE	UG/L	<	1	<	1	1
2-CHLOROETHYL VINYL ETHER	UG/L	<	1	<	1	1
CHLOROMETHANE	UG/L	<	1	<	1	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
ACROLEIN	UG/L	<	10	<	10	10
ACRYLONITRILE	UG/L	<	10	<	10	10
ACETONITRILE	UG/L	<	20	<	20	20
FREON 12 (CCL2F2)	UG/L	<	1	<	1	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	1

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ52468 03/11/98	WELL EMP5 SJ55958 06/03/98	WELL EMP5 SJ59580 09/03/98	WELL EMP5 SJ59581 09/03/98	WELL EMP5 SJ63296 12/04/98
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VOLATILE ORGANIC COMPOUNDS

1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 5	< 5	< 5	< 5	< 5
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<	<
2-ACETYLAMINOFUORENE	UG/L	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<
DIALIATE	UG/L	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ52468 03/11/98	WELL EMP5 SJ55958 06/03/98	WELL EMP5 SJ59580 09/03/98	WELL EMP5 SJ59581 09/03/98	WELL EMP5 SJ63296 12/04/98
ACID-BASE NEUTRAL EXTRACTABLE						
M-NITROANILINE	UG/L	<	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	5
PHENACETIN	UG/L	<	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	20
PROMAMIDE	UG/L	<	<	<	<	1
SAFROLE	UG/L	<	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	1
BENZIDINE	UG/L	<	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	1
BENZO (G.H.I.) PERYLENE	UG/L	<	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	1
CHRYSENE	UG/L	<	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	<	1

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ52468 03/11/98	WELL EMP5 SJ55958 06/03/98	WELL EMP5 SJ59580 09/03/98	WELL EMP5 SJ59581 09/03/98	WELL EMP5 SJ63296 12/04/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L					
DI-N-BUTYL PHTHALATE	UG/L					
2,4-DINITROTOLUENE	UG/L					
2,6-DINITROTOLUENE	UG/L					
DI-N-OCTYL PHTHALATE	UG/L					
FLUORANTHENE	UG/L					
FLUORENE	UG/L					
HEXACHLOROBENZENE	UG/L					
HEXACHLOROBUTADIENE	UG/L					
HEXACHLOROCYCLOPENTADIENE	UG/L					
HEXACHLOROETHANE	UG/L					
INDENO (1,2,3-C,D) PYRENE	UG/L					
ISOPHORONE	UG/L					
NAPHTHALENE	UG/L					
NITROBENZENE	UG/L					
N-NITROSODIMETHYLAMINE	UG/L					
N-NITROSODI-N-PROPYLAMINE	UG/L					
PHENANTHRENE	UG/L					
PYRENE	UG/L					
2-CHLOROPHENOL	UG/L					
1,2,4-TRICHLOROBENZENE	UG/L					
2,4-DICHLOROPHENOL	UG/L					
2,4-DIMETHYLPHENOL	UG/L					
2,4-DINITROPHENOL	UG/L					
2-METHYL-4,6-DINITROPHENOL	UG/L					
2-NITROPHENOL	UG/L					
4-NITROPHENOL	UG/L					
4-CHLORO-3-METHYLPHENOL	UG/L					
PENTACHLOROPHENOL	UG/L					
PHENOL	UG/L					
2,4,6-TRICHLOROPHENOL	UG/L					
N-NITROSODIPHENYLAMINE	UG/L					
O-CRESOL	UG/L					
M+P CRESOL	UG/L					

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AMENDED TEST RESULT D-DUPLICATE SPIKE E-AVERAGE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMPS SJ59578 09/03/98	WEFI EMPS SJ59579 09/03/98
CATIONS			
IRON	MG/L	0.08	0.05
MANGANESE	MG/L	0.36	0.36
METALS			
ARSENIC	MG/L	.0054	.0043
BARIUM	MG/L	0.05	0.05
CADMIUM	MG/L	<0.003	<0.003
TOTAL CHROMIUM	MG/L	<0.01	<0.01
COBALT	MG/L	<0.01	<0.01
COPPER	MG/L	<0.01	<0.01
LEAD	MG/L	<0.02	<0.02
MERCURY	MG/L	.0001	<.0001
NICKEL	MG/L	<0.02	<0.02
SELENIUM	MG/L	<.0010	<.0010
SILVER	MG/L	<0.01	<0.01
ZINC	MG/L	0.04	0.04
ANTIMONY	MG/L	<.0005	<.0005
BERYLLIUM	MG/L	<.0005	B <.0025
THALLIUM	MG/L	<0.001	B <0.001
TIN	MG/L	<0.06	<0.06
VANADIUM	MG/L	<0.05	<0.05

FOOTNOTES : A-AVERAGE B-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6	WELL EMP6
SJ64002		SJ64003	
12/18/98		12/18/98	
FIELD PARAMETERS			
DEPTH TO WATER	FT	25.32	
DEPTH TO BOTTOM	FT	227.4	
PERCENT METHANE IN GAS	%CH4	< 0.1	
PERCENT OXYGEN IN GAS	%O2	17	
FIELD WATER TEMPERATURE	DEG C	20.25	
FIELD PH	PH	6.96	
FIELD CONDUCTIVITY	UMHOS/CM	1364	
FIELD DISSOLVED O2	MG/L	0.18	
GENERAL			
PH	PH	7.54	7.64
TOTAL DISSOLVED SOLIDS	MG/L	930	916
ANIONS			
NITRATE	MG/L N	< 0.05	< 0.05
NITROGEN	MG/L N	350	356
SULFATE	MG/L SO4	90.3 A	91.6 A
CHLORIDE	MG/L CL		
VOLATILE ORGANIC COMPOUNDS			
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01
1,1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01
1,1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.01	< 0.01
1,1-DICHLOROETHENE	UG/L	< 0.01	< 0.01
TRICHLOROETHYLENE	UG/L	< 0.01	< 0.01
TETRACHLOROETHYLENE	UG/L	< 0.01	< 0.01
BROMODICHLOROMETHANE	UG/L	< 0.01	< 0.01
DIBROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01
BROMOFORM	UG/L	< 0.01	< 0.01
CHLOROBENZENE	UG/L	< 0.01	< 0.01
VINYL CHLORIDE	UG/L	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6 SJ64002 12/18/98	WELL EMP6 SJ64003 12/18/98
VOLATILE ORGANIC COMPOUNDS			
O-DICHLOROBENZENE	UG/L	<	<
P-DICHLOROBENZENE	UG/L	<	<
1,1-DICHLOROETHANE	UG/L	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<
1,2-DICHLOROETHANE	UG/L	0.3	0.3
BENZENE	UG/L	0.5	0.5
TOLUENE	UG/L	<	<
ETHYL BENZENE	UG/L	<	<
VINYL ACETATE	UG/L	10	10
O-XYLENE	UG/L	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<
BROMOMETHANE	UG/L	<	<
CHLOROETHANE	UG/L	<	<
CHLOROMETHANE	UG/L	<	<
1,2-DICHLOROPROPANE	UG/L	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<
ACRYLONITRILE	UG/L	<	<
FREON 11 (CCL3F)	UG/L	<	<
1,2-DIBROMOETHANE	UG/L	0.01	0.01
ACETONE	UG/L	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<
2-BUTANONE	UG/L	10	10
4-METHYL-2-PENTANONE	UG/L	<	<
STYRENE	UG/L	10	10
M+P-XYLENE	UG/L	<	<
CARBON DISULFIDE	UG/L	<	<
2-HEXANONE	UG/L	5	5

FOOTNOTES : A-AVERAGE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ52308 03/05/98	WELL M16A SJ55943 06/03/98	WELL M16A SJ59575 09/03/98
FIELD PARAMETERS				
DEPTH TO WATER	FT	40.63	39.52	41.52
DEPTH TO BOTTOM	FT	85.17	85.12	85.15
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	21	19
FIELD WATER TEMPERATURE	DEG C	20.61	20.87	23.31
FIELD PH	PH	6.72	6.24	6.36
FIELD CONDUCTIVITY	UMHOS/CM	1398	1658	1652
FIELD DISSOLVED O2	MG/L	4.05	2.71	1.85
FIELD DISSOLVED CO2	MG/L	93	534	398
GENERAL				
PH	PH	7.33 A	6.94	7.13
CONDUCTIVITY	UMHOS/CM			1700 D
TOTAL DISSOLVED SOLIDS	MG/L	874	1093	1130
TOTAL HARDNESS	MG/L CaCO3			806 F
TOTAL CYANIDE	MG/L CN			<0.005
BORON	MG/L B			0.56
ANIONS				
NITRATE	MG/L N	10.8	36.6 C	41.4 E
SULFATE	MG/L SO4	224	190 C	219 E
CHLORIDE	MG/L CL	110	54.0 C	50.0 E
TOTAL ALKALINITY	MG/L CaCO3	277	529 D	519
BICARBONATE ALKALINITY	MG/L CaCO3	277	529	519
TOTAL SULFIDE	MG/L S			< 0.1 A
FLUORIDE	MG/L F			0.20
CATIONS				
CALCIUM-HARDNESS	MG/L CaCO3	382	579	569 E
MAGNESIUM-HARDNESS	MG/L CaCO3	157	236	237 E
SODIUM	MG/L NA	95.0	66.7	72.4 E
POTASSIUM	MG/L K	3.7	4.1	4.9 E
IRON	MG/L FE			< 0.05 E
MANGANESE	MG/L MN			<0.003 E
ORGANIC MATTER				
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	0.10

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-DUP & SPIKE E-DUPLICATE SPIKE F-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL	WELL	WELL
M16A	M16A	M16A
SJ52308	SJ55943	SJ59575
03/05/98	06/03/98	09/03/98

CONSTITUENT/WELL NO.	UNITS
TOTAL BOD	MG/L O
SOLUBLE BOD	MG/L O
TOTAL COD	MG/L O
SOLUBLE COD	MG/L O
TOTAL ORGANIC CARBON	MG/L C
OIL & GREASE	MG/L C
TOTAL ORGANIC HALOGEN (TOX)	UG/L EXTRAC

ORGANIC MATTER

TOTAL BOD	MG/L O	<	2	<	2	D
SOLUBLE BOD	MG/L O	<	2	<	2	D
TOTAL COD	MG/L O	<	10	<	10	D
SOLUBLE COD	MG/L O	<	10	<	10	D
TOTAL ORGANIC CARBON	MG/L C	<	2.03	<	2.03	E
OIL & GREASE	MG/L C	<	3.0	<	3.0	E
TOTAL ORGANIC HALOGEN (TOX)	UG/L EXTRAC	<	19	<	19	C

METALS

ARSENIC	MG/L AS	<	.0038	<	.0038	E
BARIUM	MG/L BA	<	0.08	<	0.08	E
CADMIUM	MG/L CD	<	<0.003	<	<0.003	E
TOTAL CHROMIUM	MG/L CR	<	<0.01	<	<0.01	E
COBALT	MG/L CO	<	<0.01	<	<0.01	E
COPPER	MG/L CU	<	<0.01	<	<0.01	E
LEAD	MG/L PB	<	<0.02	<	<0.02	E
MERCURY	MG/L HG	<	<.0001	<	<.0001	E
NICKEL	MG/L NI	<	<0.02	<	<0.02	E
SELENIUM	MG/L SE	<	.0305	<	.0305	E
SILVER	MG/L AG	<	<0.01	<	<0.01	E
ZINC	MG/L ZN	<	<0.01	<	<0.01	E
ANTIMONY	MG/L SB	<	<.0005	<	<.0005	E
BERYLLIUM	MG/L BE	<	<.0025	<	<.0025	E
THALLIUM	MG/L TL	<	<0.001	<	<0.001	E
TIN	MG/L SN	<	<0.06	<	<0.06	E
VANADIUM	MG/L V	<	<0.05	<	<0.05	E

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-T	UG/L	<	0.05	<	0.05	E
DINOSB	UG/L	<	<0.1	<	<0.1	E
THIONAZIN	UG/L	<	1	<	1	E
DIMETHOATE	UG/L	<	1	<	1	E
DISULFOTON	UG/L	<	1	<	1	E
METHYL PARATHION	UG/L	<	1	<	1	E
ETHYL PARATHION	UG/L	<	1	<	1	E
PHORATE	UG/L	<	1	<	1	E
PP'-DDE	UG/L	<	0.01	<	0.01	E
PP'-DDD	UG/L	<	0.01	<	0.01	E
PP'-DDT	UG/L	<	0.01	<	0.01	E

FOOTNOTES : A-AVERAGE OF DUPS
F-CALCULATED VALUE

B-AMENDED TEST RESULT

D-DUP & SPIKE

E-DUPLICATE SPIKE

C-AVERAGE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ52308 03/05/98	WELL M16A SJ55943 06/03/98	WELL M16A SJ59575 09/03/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS				
ALPHA-BHC	UG/L	<	<	< 0.01
LINDANE (GAMMA-BHC)	UG/L	<	<	< 0.01
HEPTACHLOR	UG/L	<	<	< 0.01
HEPTACHLOR EPOXIDE	UG/L	<	<	< 0.01
ALDRIN	UG/L	<	<	< 0.01
DIELDRIN	UG/L	<	<	< 0.01
ENDRIN	UG/L	<	<	< 0.5
TOXAPHENE	UG/L	<	<	< 0.01
METHOXYCLOR	UG/L	<	<	< 0.5
2,4-D(ACID)	UG/L	<	<	< 0.05
2,4,5-TP(SILVEX)	UG/L	<	<	< 0.1
AROCLOR 1242	UG/L	<	<	< 0.05
AROCLOR 1254	UG/L	<	<	< 0.01
BETA-BHC	UG/L	<	<	< 0.01
DELTA-BHC	UG/L	<	<	< 0.01
ENDOSULFAN I	UG/L	<	<	< 0.01
ENDOSULFAN II	UG/L	<	<	< 0.01
ENDOSULFAN SULFATE	UG/L	<	<	< 0.1
ENDRIN ALDEHYDE	UG/L	<	<	< 0.01
AROCLOR 1016	UG/L	<	<	< 0.1
AROCLOR 1221	UG/L	<	<	< 0.1
AROCLOR 1232	UG/L	<	<	< 0.1
AROCLOR 1248	UG/L	<	<	< 0.1
AROCLOR 1260	UG/L	<	<	< 0.1
TECHNICAL CHLORDANE	UG/L	<	<	< 0.05
VOLATILE ORGANIC COMPOUNDS				
ALLYL CHLORIDE	UG/L	<	<	< 1
BROMOCHLOROMETHANE	UG/L	<	<	< 1
CHLOROPRENE	UG/L	<	<	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	< 1
1,3-DICHLOROPROPANE	UG/L	<	<	< 0.3
2,2-DICHLOROPROPANE	UG/L	<	<	< 1
1,1-DICHLOROPROPENE	UG/L	<	<	< 1
ISOBUTYL ALCOHOL	UG/L	<	<	< 10
METHACRYLONITRILE	UG/L	<	<	< 10
METHYL IODIDE	UG/L	<	<	< 1
METHYLENE BROMIDE	UG/L	<	<	< 1
PROPIONITRILE	UG/L	<	<	< 10
FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-DUP & SPIKE E-DUPLICATE SPIKE F-CALCULATED VALUE				

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL M16A M16A M16A
SJ52308 SJ55943 SJ59575
03/05/98 06/03/98 09/03/98

CONSTITUENT/WELL NO. UNITS

VOLATILE ORGANIC COMPOUNDS

1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1
METHYL METHACRYLATE	UG/L	<	1	<	1	<	10
ETHYL METHACRYLATE	UG/L	<	1	<	1	<	5
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1
CHLOROFORM	UG/L	<	1	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3
CARBON TETRACHLORIDE	UG/L	<	1	<	1	<	3
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	1	<	11
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1
BROMOFORM	UG/L	<	1	<	1	<	1
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3
VINYL CHLORIDE	UG/L	<	1	<	1	<	1
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	2
1,1-DICHLOROETHANE	UG/L	<	1	<	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	1	<	1	<	1
TOLUENE	UG/L	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	1	<	1	<	1
VINYL ACETATE	UG/L	<	10	<	10	<	10
O-XYLENE	UG/L	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1
2-CHLOROETHYL VINYL ETHER	UG/L	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	1	<	1	<	1
ACETONITRILE	UG/L	<	1	<	1	<	10
FREON 12 (CCL2F2)	UG/L	<	1	<	1	<	20
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-DUP & SPIKE E-DUPLICATE SPIKE F-CALCULATED VALUE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ52308 03/05/98	WELL M16A SJ55943 06/03/98	WELL M16A SJ59575 09/03/98	B-AMENDED TEST RESULT	C-AVERAGE	D-DUP & SPIKE	E-DUPLICATE SPIKE
VOLATILE ORGANIC COMPOUNDS								
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	<	0.01		
ACETONE	UG/L	< 10	< 10	< 10	<	10		
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	<	1		
2-BUTANONE	UG/L	< 10	< 10	< 10	<	10		
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	<	10		
STYRENE	UG/L	< 1	< 1	< 1	<	1		
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	<	1		
M+P-XYLENE	UG/L	< 1	< 1	< 1	<	1		
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	<	1		
2-HEXANONE	UG/L	5 B	5 B	5 B	<	5		
		CS2						
		C6H12O						
ACID-BASE NEUTRAL EXTRACTABLE								
ACETOPHENONE	UG/L	<	<	<	<	1		
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<	1		
4-AMINOBIPHENYL	UG/L	<	<	<	<	1		
BENZYL ALCOHOL	UG/L	<	<	<	<	1		
P-CHLOROANILINE	UG/L	<	<	<	<	1		
CHLOROANILINE	UG/L	<	<	<	<	1		
DIALLATE	UG/L	<	<	<	<	1		
DIBENZOFURAN	UG/L	<	<	<	<	1		
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<	1		
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	1		
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	10		
3, 3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	1		
M-DINITROBENZENE	UG/L	<	<	<	<	1		
DIPHENYLAMINE	UG/L	<	<	<	<	1		
ETHYL METHANESULFONATE	UG/L	<	<	<	<	1		
FAMPHUR	UG/L	<	<	<	<	1		
HEXACHLOROPROPENE	UG/L	<	<	<	<	5		
ISODRIN	UG/L	<	<	<	<	1		
ISOSAFROLE	UG/L	<	<	<	<	1		
KEPONE	UG/L	<	<	<	<	10		
METHAPYRILENE	UG/L	<	<	<	<	20		
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	1		
METHYL METHANESULFONATE	UG/L	<	<	<	<	1		
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	1		
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<	1		
1-NAPHTHYLAMINE	UG/L	<	<	<	<	1		
2-NAPHTHYLAMINE	UG/L	<	<	<	<	1		
O-NITROANILINE	UG/L	<	<	<	<	1		

FOOTNOTES : A-AVERAGE OF DUPS
F-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M16A SJ52308 03/05/98	WELL M16A SJ55943 06/03/98	WELL M16A SJ59575 09/03/98	
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	5
PENTACHLORONITROBENZENE	UG/L	<	<	<	5
PHENACETIN	UG/L	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	20
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G,H,I) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	3
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A,H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-AVERAGE D-DUP & SPIKE E-DUPLICATE SPIKE F-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL M16A SJ52308 03/05/98
 WELL M16A SJ55943 06/03/98
 WELL M16A SJ59575 09/03/98

CONSTITUENT/WELL NO.	UNITS	TEST RESULT	C-AVERAGE	D-DUP & SPIKE	E-DUPLICATE SPIKE
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L	<	<		
2,4-DINITROTOLUENE	UG/L	<	<		
2,6-DINITROTOLUENE	UG/L	<	<		
Di-N-OCTYL PHTHALATE	UG/L	<	<		
FLUORANTHENE	UG/L	<	<		
FLUORENE	UG/L	<	<		
HEXACHLOROBENZENE	UG/L	<	<		
HEXACHLOROBUTADIENE	UG/L	<	<		
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<		
HEXACHLOROETHANE	UG/L	<	<		
INDENO(1,2,3-C,D) PYRENE	UG/L	<	<		
ISOPHORONE	UG/L	<	<		
NAPHTHALENE	UG/L	<	<		
NITROBENZENE	UG/L	<	<		
N-NITROSODIMETHYLAMINE	UG/L	<	<		
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<		
PHENANTHRENE	UG/L	<	<		
PYRENE	UG/L	<	<		
2-CHLOROPHENOL	UG/L	<	<		
1,2,4-TRICHLOROBENZENE	UG/L	<	<		
2,4-DICHLOROPHENOL	UG/L	<	<		
2,4-DIMETHYLPHENOL	UG/L	<	<		
2,4-DINITROPHENOL	UG/L	<	<		
2-METHYL-4,6DINITROPHENOL	UG/L	<	<		
2-NITROPHENOL	UG/L	<	<		
4-NITROPHENOL	UG/L	<	<		
4-CHLORO-3-METHYLPHENOL	UG/L	<	<		
PENTACHLOROPHENOL	UG/L	<	<		
PHENOL	UG/L	<	<		
2,4,6-TRICHLOROPHENOL	UG/L	<	<		
N-NITROSODIPHENYLAMINE	UG/L	<	<		
O-CRESOL	UG/L	<	<		
M+P CRESOL	UG/L	<	<		

FOOTNOTES : A-AVERAGE OF DUPS
 F-CALCULATED VALUE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFI
 M16A
 SJ59574
 09/03/98

CONSTITUENT/WELL NO.	UNITS	
CATIONS		
IRON	MG/L FE	< 0.05
MANGANESE	MG/L MN	< 0.003
METALS		
ARSENIC	MG/L AS	.0034
BARIUM	MG/L BA	0.08
CADMIUM	MG/L CD	< 0.003
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	< 0.02
MERCURY	MG/L HG	.0001
NICKEL	MG/L NI	0.02
SELENIUM	MG/L SE	.0304
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	< 0.01
ANTIMONY	MG/L SB	< 0.005
BERYLLIUM	MG/L BE	< 0.005
THALLIUM	MG/L TL	< 0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

TABLE A.6
WATER QUALITY DATA
EASTERN CANYONS PIEZOMETERS

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS

PUENTE HILLS LANDFILL

FIELD PARAMETERS	UNITS	PIEZ S6		PIEZ S6 (F)		PIEZ S6		PIEZ S6 (F)	
		04/27/98	04/27/98	04/27/98	04/27/98	06/04/98	06/04/98	06/04/98	06/04/98
DEPTH TO WATER	FT	7.54	7.74	150.9	153.8	< 0.1	< 0.1	< 0.1	< 0.1
DEPTH TO BOTTOM	FT	< 0.1	< 0.1	21	20	19.63	22.16	8.4	2069
PERCENT METHANE IN GAS	%CH4	23.07	19.63	8.18	8.4	2004	2069	< 0.01	6
PERCENT OXYGEN IN GAS	%O2	8.66	8.18	0.27	0.27	10	10		
FIELD WATER TEMPERATURE	DEG C	2069	2004						
FIELD PH	PH	0.15	0.15						
FIELD CONDUCTIVITY	UMHOS/CM	3	3						
FIELD DISSOLVED O2	MG/L								
FIELD DISSOLVED CO2	MG/L								
GENERAL									
PH	PH	8.60 B	8.60	2020	2030	1264	1240	1295 C	30.5 F
CONDUCTIVITY	UMHOS/CM	2020	2010	17.8	18.3	0.002	0.002	< 0.005	3.74
TOTAL DISSOLVED SOLIDS	MG/L	17.8	18.3						
TOTAL HARDNESS	MG/L CaCO3	0.002	0.002						
TOTAL CYANIDE	MG/L CN	3.89	3.82						
BORON	MG/L B								
ANIONS									
NITRATE	MG/L N	< 0.05 A	< 0.04						
NITROGEN	MG/L SO4	17.2	17.0						
SULFATE	MG/L CL	161	161						
CHLORIDE	MG/L CaCO3	870 C	868						
TOTAL ALKALINITY	MG/L CaCO3	870	868						
BICARBONATE ALKALINITY	MG/L S	< 0.1	< 0.1						
TOTAL SULFIDE	MG/L F	2.72	2.73						
FLUORIDE									
CATIONS									
CALCIUM-HARDNESS	MG/L CaCO3	9.2	9.7 A						
MAGNESIUM-HARDNESS	MG/L CaCO3	8.6	8.6 A						
SODIUM	MG/L Na	520	509 A						
POTASSIUM	MG/L K	2.6	2.5 A						
IRON	MG/L FE	0.17	0.17 A	0.05	0.08	0.05	0.05	0.05	0.07
MANGANESE	MG/L MN	< 0.01	< 0.01 A	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	1.1	0.9						

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AMENDED TEST RESULT E-AVERAGE F-CALCULATED VALUE

TABLE A.6
 WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS
 PUENTE HILLS LANDFILL

CONSTITUENT/ WELL NO.	UNITS	PIEZ S6 04/27/98	PIEZ S6 04/27/98	PIEZ S6(F) 04/27/98	PIEZ S6 06/04/98	PIEZ S6(F) 06/04/98	PIEZ S6 07/24/98
ORGANIC MATTER							
TOTAL BOD	MG/L O	4 C	6				
SOLUBLE BOD	MG/L O	2	4				
TOTAL COD	MG/L O	40	40				
SOLUBLE COD	MG/L O	40	39				
TOTAL ORGANIC CARBON	MG/L C	10.3	10.5				
OIL & GREASE	MG/L	< 1	< 1				
TOTAL ORGANIC HALOGEN (TOX)	UG/L	< 20	< 20				
METALS							
ARSENIC	MG/L AS	.0073	.0073	.0069	.0066	.0092	.0054
BARIUM	MG/L BA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CADMIUM	MG/L CD	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
TOTAL CHROMIUM	MG/L CR	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
COBALT	MG/L CO	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
COPPER	MG/L CU	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
MERCURY	MG/L HG	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L SE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
ANTIMONY	MG/L SB	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BERYLLIUM	MG/L BE	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
THALLIUM	MG/L TL	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-TRICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHYLENE CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROFORM	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-TRICHLOROETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AMENDED TEST RESULT E-AVERAGE F-CALCULATED VALUE G-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ S6 SJ54396 04/27/98	PIEZ S6 (F) SJ54397 04/27/98	PIEZ S6 (F) SJ54394 04/27/98	PIEZ S6 (F) SJ54395 04/27/98	PIEZ S6 (F) SJ56010 06/04/98	PIEZ S6 (F) SJ56008 06/04/98	PIEZ S6 (F) SJ57880 07/24/98	PIEZ S6 (F) SJ57877 07/24/98
VOLATILE ORGANIC COMPOUNDS									
1,1-DICHLOROETHENE	UG/L	<	1	<	<	<	<	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	<	<	<	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	<	<	<	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	<	<	<	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	<	<	<	<	1
BROMOFORM	UG/L	<	1	<	<	<	<	<	1
CHLOROBENZENE	UG/L	<	1	<	<	<	<	<	1
VINYL CHLORIDE	UG/L	<	0.3	<	<	0.3	<	<	0.3
O-DICHLOROBENZENE	UG/L	<	1	<	<	<	<	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	<	<	<	<	1
1,1-DICHLOROETHANE	UG/L	<	1	<	<	<	<	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	<	<	<	<	1
1,2-DICHLOROETHANE	UG/L	<	0.3	<	<	0.3	<	<	0.3
BENZENE	UG/L	<	0.5	<	<	0.5	<	<	0.5
TOLUENE	UG/L	<	1	<	<	<	<	<	1
ETHYL BENZENE	UG/L	<	1	<	<	<	<	<	1
VINYL ACETATE	UG/L	<	10	<	<	10	<	<	10
O-XYLENE	UG/L	<	1	<	<	<	<	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<	<	<	<	1
BROMOMETHANE	UG/L	<	1	<	<	<	<	<	1
CHLOROETHANE	UG/L	<	1	<	<	<	<	<	1
CHLOROMETHANE	UG/L	<	1	<	<	<	<	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	<	<	<	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	<	0.5	<	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	<	0.5	<	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	<	0.5	<	<	0.5
ACRYLONITRILE	UG/L	<	10	<	<	10	<	<	10
FREON 11 (CCL3F)	UG/L	<	1	<	<	1	<	<	1
1,2-DIBROMOETHANE	UG/L	<	0.01	<	<	0.01	<	<	0.01
ACETONE	UG/L	<	10	<	<	10	<	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<	1	<	<	1
2-BUTANONE	UG/L	<	10	<	<	10	<	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	<	10	<	<	10
STYRENE	UG/L	<	1	<	<	1	<	<	1
M+P-XYLENE	UG/L	<	1	<	<	1	<	<	1
CARBON DISULFIDE	UG/L	<	1	<	<	1	<	<	1
2-HEXANONE	UG/L	<	5	<	<	5	<	<	5

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AMENDED TEST RESULT E-AVERAGE
F-CALCULATED VALUE G-10% RULE EXCEEDED

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ S16 04/28/98	PIEZ S16(F) 04/28/98	PIEZ S16 06/04/98	PIEZ S16(F) 06/04/98	PIEZ S16 07/24/98	PIEZ S16(F) 07/24/98	PIEZ S16 07/24/98	PIEZ S16(F) 07/24/98
FIELD PARAMETERS									
DEPTH TO WATER	FT	19.06	20.47	21.09					
DEPTH TO BOTTOM	FT	40.37	40.48	40.41					
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1					
PERCENT OXYGEN IN GAS	%O2	21	14	15					
FIELD WATER TEMPERATURE	DEG C	23.91	21.88	19.95					
FIELD PH	PH	6.96	6.44	6.61					
FIELD CONDUCTIVITY	UMHOS/CM	5040	5202	5155					
FIELD DISSOLVED O2	MG/L	2.06	1.37	0.25					
FIELD DISSOLVED CO2	MG/L	100	328	227					
GENERAL									
PH	PH	7.14 C	7.01 C	7.30					
CONDUCTIVITY	UMHOS/CM	5020	5090	5080					
TOTAL DISSOLVED SOLIDS	MG/L	4760	4840 D	4810					
TOTAL HARDNESS	MG/L CaCO3	1760	2400 G	2450 G					
TOTAL CYANIDE	MG/L CN	< 0.002	< 0.002	< 0.005					
BORON	MG/L B	1.08	1.18	1.06					
ANIONS									
NITRATE	MG/L N	3.26	2.86 F	2.30 F					
SULFATE	MG/L SO4	2620	2570 F	2630 F					
CHLORIDE	MG/L CL	196	199 F	204 F					
TOTAL ALKALINITY	MG/L CaCO3	518	515	528					
BICARBONATE ALKALINITY	MG/L CaCO3	518	515	528					
TOTAL SULFIDE	MG/L S	< 0.1 C	< 0.1 C	< 0.1					
FLUORIDE	MG/L F	1.02	0.97	0.97					
CATIONS									
CALCIUM-HARDNESS	MG/L CaCO3	380	1010	1040					
MAGNESIUM-HARDNESS	MG/L CaCO3	1380	1390	1410					
SODIUM	MG/L NA	480	482	513					
POTASSIUM	MG/L K	18.4	17.8	18.0					
IRON	MG/L FE	< 0.05	0.20	0.05					
MANGANESE	MG/L MN	0.01	0.09	0.12					
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1					

FOOTNOTES : A-DUPLICATE SPIKE B-INTERFERENCE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
 F-AVERAGE G-CALCULATED VALUE H-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ S16 (F) 04/28/98	PIEZ S16 04/28/98	PIEZ S16 (F) 06/04/98	PIEZ S16 06/04/98	PIEZ S16 (F) 07/24/98	PIEZ S16 07/24/98	PIEZ S16 (F) 07/24/98	PIEZ S16 07/24/98
ORGANIC MATTER									
TOTAL BOD	MG/L O	<	2 D	<	2 D	<	2	<	2
SOLUBLE BOD	MG/L O	<	2	<	11 D	<	11	<	12 D
TOTAL COD	MG/L O	13	13	11	10	10	10	11	11 D
SOLUBLE COD	MG/L O	13	13	11	10	10	10	11	11 D
TOTAL ORGANIC CARBON	MG/L C	3.61	3.57	3.48	3.48	4.22	4.22	4.22	4.22
OIL & GREASE	MG/L	1	1	1	1	3.0	3.0	3.0	3.0 F
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	20	18 F	15 A	1	1	1	16 F
METALS									
ARSENIC	MG/L AS	<	.0010	<	.0013	<	.0016	<	.0010
BARIUM	MG/L BA	<	0.02	<	0.02	<	0.02	<	0.02
CADMIUM	MG/L CD	<	0.003	<	0.003	<	0.003	<	0.003
TOTAL CHROMIUM	MG/L CR	<	0.04	<	0.01	<	0.01	<	0.01
COBALT	MG/L CO	<	0.02	<	0.01	<	0.01	<	0.01
COPPER	MG/L CU	<	0.01	<	0.01	<	0.01	<	0.01
LEAD	MG/L PB	<	0.02	<	0.02	<	0.02	<	0.02
MERCURY	MG/L HG	<	0.001	<	0.001	<	0.001	<	0.001
NICKEL	MG/L NI	<	0.02	<	0.02	<	0.02	<	0.02
SELENIUM	MG/L SE	<	.0143	<	.0110	<	.0065	<	.0059
SILVER	MG/L AG	<	0.01	<	0.01	<	0.01	<	0.01
ZINC	MG/L ZN	<	0.01	<	0.02	<	0.01	<	0.01
ANTIMONY	MG/L SB	<	.0005	<	.0005	<	.0005	<	.0005
BERYLLIUM	MG/L BE	<	.0025	<	.0025	<	.0025	<	.0025
THALLIUM	MG/L TL	<	.0001	<	.0001	<	.0001	<	.0001
TIN	MG/L SN	<	0.06	<	0.06	<	0.06	<	0.06
VANADIUM	MG/L V	<	0.05	<	0.05	<	0.05	<	0.05
VOLATILE ORGANIC COMPOUNDS									
BROMOCHLOROMETHANE	UG/L	1	1	1	1	1	1	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.01	<	0.01	<	0.01	<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1	<	1	<	1
METHYL IODIDE	UG/L	<	1	<	1	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1	<	1	<	1
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1	<	1
CHLOROFORM	UG/L	<	1	<	1	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3

FOOTNOTES : A-DUPLICATE SPIKE B-INTERFERENCE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE G-CALCULATED VALUE H-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ SJ54434 04/28/98	PIEZ S16(F) SJ54433 04/28/98	PIEZ S16 SJ56005 06/04/98	PIEZ S16(F) SJ56006 06/04/98	PIEZ S16(F) SJ56003 06/04/98	PIEZ S16(F) SJ56004 06/04/98	PIEZ S16 SJ57881 07/24/98	PIEZ S16 SJ57882 07/24/98	PIEZ S16(F) SJ57878 07/24/98	PIEZ S16(F) SJ57879 07/24/98
VOLATILE ORGANIC COMPOUNDS											
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	0.3	<	<	0.3	<	<	<	0.3	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	0.3	<	<	0.3	<	<	<	0.3	<	<
1,2-DICHLOROETHANE	UG/L	0.5	<	<	0.5	<	<	<	0.5	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	10	<	<	10	<	<	<	10	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	<	<	0.5	<	<	<	0.5	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	<	<	0.5	<	<	<	0.5	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	<	0.5	<	<	<	0.5	<	<
ACRYLONITRILE	UG/L	10	<	<	10	<	<	<	10	<	<
FREON 11	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	0.01	<	<	0.01	<	<	<	0.01	<	<
ACETONE	UG/L	10	<	<	10	<	<	<	10	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	10	<	<	10	<	<	<	10	<	<
4-METHYL-2-PENTANONE	UG/L	10	<	<	10	<	<	<	10	<	<
STYRENE	UG/L	<	<	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	1	<	<	1	<	<	<	1	<	<
CARBON DISULFIDE	UG/L	1	<	<	1	<	<	<	1	<	<
2-HEXANONE	UG/L	5	<	<	5	<	<	<	5	<	<
		E			E				E		

FOOTNOTES : A-DUPLICATE SPIKE B-INTERFERENCE C-AVERAGE OF DUPS D-DUP & SPIKE E-AMENDED TEST RESULT
F-AVERAGE G-CALCULATED VALUE H-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ DM23 SJ53227 03/27/98	PIEZ DM23 (F) SJ53225 03/27/98	PIEZ DM23 (F) SJ53226 03/27/98	PIEZ DM23 (F) SJ56011 06/04/98	PIEZ DM23 (F) SJ56009 06/04/98
FIELD PARAMETERS						
DEPTH TO WATER	FT	19.45			21.09	
DEPTH TO BOTTOM	FT	145			145	
PERCENT METHANE IN GAS	%CH4	< 0.1			< 0.1	
PERCENT OXYGEN IN GAS	%O2	18			20	
FIELD WATER TEMPERATURE	DEG C	18.51			20.52	
FIELD PH	PH	8.06			7.97	
FIELD CONDUCTIVITY	UMHOS/CM	4736			4527	
FIELD DISSOLVED O2	MG/L	0.33			0.19	
FIELD DISSOLVED CO2	MG/L	8			10	
GENERAL						
PH	PH	8.40	8.39		8.36	
CONDUCTIVITY	UMHOS/CM	4640 B	4630		4630	
TOTAL DISSOLVED SOLIDS	MG/L	3276	3288		3220	
TOTAL HARDNESS	MG/L CaCO3	58.6	57.1		56.5 E	
TOTAL CYANIDE	MG/L CN	<0.002	<0.002		<0.002	
BORON	MG/L B	2.88	2.86		3.34	
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.04 A	< 0.04		< 0.05 D	
SULFATE	MG/L SO4	1520	1500		1520 D	
CHLORIDE	MG/L CL	227	226		226 D	
TOTAL ALKALINITY	MG/L CaCO3	545	544		539	
BICARBONATE ALKALINITY	MG/L CaCO3	545	512		519	
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1		< 0.1	
FLUORIDE	MG/L F	1.83	1.86		1.88	
CATIONS						
CALCIUM-HARDNESS	MG/L CaCO3	26.5	26.2 A		25.2 A	
MAGNESIUM-HARDNESS	MG/L CaCO3	32.1	30.9 A		31.3 A	
SODIUM	MG/L NA	1080	1040 A		1060 A	
POTASSIUM	MG/L K	4.2	4.2 A		4.1 A	
IRON	MG/L FE	0.06	< 0.05 A	< 0.05	0.04 A	0.06
MANGANESE	MG/L MN	0.02	0.02 A	0.02	0.02 A	0.02
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	3.1	3.0		2.9	

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE C-AMENDED TEST RESULT D-AVERAGE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ DM23 SJ53227 03/27/98	PIEZ DM23 SJ53228 03/27/98	PIEZ DM23 (F) SJ53225 03/27/98	PIEZ DM23 (F) SJ53226 03/27/98	PIEZ DM23 SJ56011 06/04/98	PIEZ DM23 (F) SJ56009 06/04/98
ORGANIC MATTER							
TOTAL BOD	MG/L O	<	2	<	<	2	<
SOLUBLE BOD	MG/L O	<	2	<	<	2	<
TOTAL COD	MG/L O	14	14	14	14	15	15
SOLUBLE COD	MG/L O	14	14	14	14	15	15
TOTAL ORGANIC CARBON	MG/L C	4.49	4.53	4.49	4.49	4.87	4.87
OIL & GREASE	MG/L	1.6	2.2	1.6	1.6	1.0 A	1.0 A
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	20	<	<	19	19 F
METALS							
ARSENIC	MG/L AS	.0099	.0098	.0102	.0098	.0149	.0147
BARIUM	MG/L BA	<0.003	<0.003	<0.003	<0.003	0.01 A	0.01
CADMIUM	MG/L CD	<0.04	<0.04	<0.04	<0.04	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	<0.02	<0.02	<0.02	<0.02	0.01 A	0.01
COBALT	MG/L CO	<0.01	<0.01	<0.01	<0.01	0.01 A	0.01
COPPER	MG/L CU	<0.02	<0.02	<0.02	<0.02	0.01 A	0.01
LEAD	MG/L PB	<0.001	<0.001	<0.001	<0.001	0.02 A	0.02
MERCURY	MG/L HG	<0.02	<0.02	<0.02	<0.02	0.001	0.001
NICKEL	MG/L NI	<0.010	<0.010	<0.010	<0.010	0.02 A	0.02
SELENIUM	MG/L SE	<0.01	<0.01	<0.01	<0.01	0.010	0.010
SILVER	MG/L AG	0.01	0.01	0.01	0.01	0.01 A	0.01
ZINC	MG/L ZN	0.005	0.005	0.005	0.005	0.01 A	0.01
ANTIMONY	MG/L SB	<0.0025	<0.0025	<0.0025	<0.0025	0.005	0.005
BERYLLIUM	MG/L BE	<0.001	<0.001	<0.001	<0.001	0.0025	0.0025
THALLIUM	MG/L TL	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
TIN	MG/L SN	<0.005	<0.005	<0.005	<0.005	0.05 A	0.05
VANADIUM	MG/L V	<0.05	<0.05	<0.05	<0.05	0.05 A	0.05
VOLATILE ORGANIC COMPOUNDS							
BROMOCHLOROMETHANE	UG/L	1	1	1	1	1	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<
1,1,1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	0.3	0.3

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE C-AMENDED TEST RESULT D-AVERAGE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.6
WATER QUALITY DATA - EASTERN CANYONS PIEZOMETERS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	PIEZ DM23 SJ53227 03/27/98	PIEZ DM23 SJ53228 03/27/98	PIEZ DM23 (F) SJ53225 03/27/98	PIEZ DM23 (F) SJ53226 03/27/98	PIEZ DM23 SJ56011 06/04/98	PIEZ DM23 (F) SJ56009 06/04/98
VOLATILE ORGANIC COMPOUNDS							
1,1-DICHLOROETHENE	UG/L	<	1	<	<	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	<	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	<	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	<	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	<	<	1
BROMOFORM	UG/L	<	1	<	<	<	1
CHLOROBENZENE	UG/L	<	1	<	<	<	1
VINYL CHLORIDE	UG/L	0.3	0.3	<	<	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	1	<	<	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	<	<	1
1,1-DICHLOROETHANE	UG/L	<	1	<	<	<	1
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	<	<	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	<	<	0.5	0.5
BENZENE	UG/L	<	1	<	<	<	1
TOLUENE	UG/L	<	1	<	<	<	1
ETHYL BENZENE	UG/L	<	1	<	<	<	1
VINYL ACETATE	UG/L	10	10	<	<	10	10
O-XYLENE	UG/L	<	1	<	<	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<	<	1
BROMOMETHANE	UG/L	<	1	<	<	<	1
CHLOROETHANE	UG/L	<	1	<	<	<	1
CHLOROMETHANE	UG/L	<	1	<	<	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	<	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	<	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	<	<	0.5	0.5
ACRYLONITRILE	UG/L	10	10	<	<	10	10
FREON 11 (CCL3F)	UG/L	<	1	<	<	<	1
1,2-DIBROMOETHANE	UG/L	0.01	0.01	<	<	0.01	0.01
ACETONE	UG/L	10	10	<	<	10	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	<	<	1
2-BUTANONE	UG/L	<	10	<	<	10	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	<	10	10
STYRENE	UG/L	<	1	<	<	<	1
M+P-XYLENE	UG/L	<	1	<	<	<	1
CARBON DISULFIDE	UG/L	<	1	<	<	<	1
2-HEXANONE	UG/L	5	5	<	<	5	5

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE C-AMENDED TEST RESULT D-AVERAGE E-CALCULATED VALUE
F-10% RULE EXCEEDED

TABLE A.7
WATER QUALITY DATA
LIQUID COLLECTION AND REMOVAL SYSTEMS

TABLE A.7
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS SJ53961 04/15/98	CNYN 9 LCRS SJ53963 04/15/98	CNYN 9 LCRS(F) SJ61220 10/15/98	CNYN 9 LCRS SJ61222 10/15/98
GENERAL					
PH	UMHOS/CM	6.99 B	7.41		
CONDUCTIVITY	MG/L	8520	8210		
TOTAL DISSOLVED SOLIDS	MG/L	8026 C	7032 C		
TOTAL HARDNESS	MG/L	4120 D	3330		
TOTAL CYANIDE	MG/L	0.008	<0.005		
BORON	MG/L	3.73	3.89		
ANIONS					
NITRATE NITROGEN	MG/L	0.19	< 0.05		
SULFATE	MG/L	3020	2890		
CHLORIDE	MG/L	950	1020 F		
TOTAL ALKALINITY	MG/L	989	1110		
BICARBONATE ALKALINITY	MG/L	989	1110		
TOTAL SULFIDE	MG/L	< 0.1	< 0.1		
FLUORIDE	MG/L	0.88	0.75		
CATIONS					
CALCIUM-HARDNESS	MG/L	1410	1520 A		
MAGNESIUM-HARDNESS	MG/L	2710	1600 A		
SODIUM	MG/L	874	937 A		
POTASSIUM	MG/L	23.2	18.7 A		
IRON	MG/L	5.37	5.95 A		
MANGANESE	MG/L	6.87	7.59		
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L	6.1	8.3		
TOTAL BOD	MG/L	8	6		
SOLUBLE BOD	MG/L	6	2		
TOTAL COD	MG/L	154	159		
SOLUBLE COD	MG/L	156	160		
TOTAL ORGANIC CARBON	MG/L	52.0	54.8		
OIL & GREASE	MG/L	< 1	< 3.0		
TOTAL ORGANIC HALOGEN (TOX)	UG/L	153	280 G		
METALS					
ARSENIC	MG/L	0.042	0.034		
BARIUM	MG/L	0.06	0.07		

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-CALCULATED VALUE E-INTERFERENCE
 F-AVERAGE G-10% RULE EXCEEDED

TABLE A.7
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9		CNYN 9		CNYN 9	
		LCRS (F)	LCRS	LCRS (F)	LCRS	LCRS (F)	LCRS
METALS							
CADMIUM	MG/L CD	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	A
TOTAL CHROMIUM	MG/L CR	< 0.04	< 0.04	< 0.01	< 0.01	< 0.01	A
COBALT	MG/L CO	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	A
COPPER	MG/L CU	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	A
LEAD	MG/L PB	< 0.02	< 0.02	< 0.001	< 0.001	< 0.001	A
MERCURY	MG/L HG	< 0.001	< 0.001	< 0.04	< 0.04	< 0.02	A
NICKEL	MG/L NI	< 0.04	< 0.04	< 0.010	< 0.010	< 0.010	A
SELENIUM	MG/L SE	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	A
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
ZINC	MG/L ZN	< 0.03	< 0.03	< 0.02	< 0.02	< 0.02	A
ANTIMONY	MG/L SB	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	A
BERYLLIUM	MG/L BE	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	A
THALLIUM	MG/L TL	< 0.002	< 0.002	< 0.001	< 0.001	< 0.001	A
TIN	MG/L SN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	A
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	A
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L	< 0.1	< 0.1	< 0.25	< 0.25	< 0.25	A
DINoseb	UG/L	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	A
THIONAZIN	UG/L	< 1	< 1	< 1	< 1	< 1	A
DIMETHOATE	UG/L	< 1	< 1	< 1	< 1	< 1	A
DISULFOTON	UG/L	< 1	< 1	< 1	< 1	< 1	A
METHYL PARATHION	UG/L	< 1	< 1	< 1	< 1	< 1	A
ETHYL PARATHION	UG/L	< 1	< 1	< 1	< 1	< 1	A
PHORATE	UG/L	< 1	< 1	< 1	< 1	< 1	A
PP',-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
PP',-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
PP',-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	A
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	A
2,4-D (ACID)	UG/L	< 1	< 1	< 2.5	< 2.5	< 2.5	A
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.25	< 0.25	< 0.25	A
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	A

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-CALCULATED VALUE E-INTERFERENCE
 F-AVERAGE G-10% RULE EXCEEDED

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CNPN 9 CNPN 9 CNPN 9 CNPN 9
 LCERS (F) LCERS (F) LCERS (F) LCERS (F)
 SJ53961 SJ53963 SJ61220 SJ61222
 04/15/98 04/15/98 10/15/98 10/15/98

CONSTITUENT/ WELL NO.	UNITS	CNPN 9 LCERS (F) SJ53961 04/15/98	CNPN 9 LCERS (F) SJ61220 10/15/98	CNPN 9 LCERS (F) SJ61220 10/15/98	CNPN 9 LCERS (F) SJ61222 10/15/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
AROCLOR 1254	UG/L	< 0.05			< 0.05
BETA-BHC	UG/L	< 0.01			< 0.01
DELTA-BHC	UG/L	< 0.01			< 0.01
ENDOSULFAN I	UG/L	< 0.01			< 0.01
ENDOSULFAN II	UG/L	< 0.01			< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1			< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.04			< 0.01
AROCLOR 1016	UG/L	< 0.1			< 0.1
AROCLOR 1221	UG/L	< 0.1			< 0.1
AROCLOR 1232	UG/L	< 0.1			< 0.1
AROCLOR 1248	UG/L	< 0.1			< 0.1
AROCLOR 1260	UG/L	< 0.1			< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05			< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 10			< 2
BROMOCHLOROMETHANE	UG/L	< 0.5			< 2
CHLOROPRENE	UG/L	< 1000			< 2
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01			< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.2			< 2
1,3-DICHLOROPROPANE	UG/L	< 0.5			< 0.8
2,2-DICHLOROPROPANE	UG/L	< 0.5			< 2
1,1-DICHLOROPROPENE	UG/L	< 0.5			< 2
ISOBUTYL ALCOHOL	UG/L		E		< 25
METHACRYLONITRILE	UG/L	< 10			< 25
METHYL IODIDE	UG/L	< 0.5			< 2
METHYLENE BROMIDE	UG/L	< 0.5			< 2
PROPIONITRILE	UG/L	< 20			< 25
1,1,1,2-TETRACHLOROETHANE	UG/L	< 0.5			< 2
1,2,3-TRICHLOROPROPANE	UG/L	< 0.5			< 2
METHYL METHACRYLATE	UG/L	< 10			< 25
ETHYL METHACRYLATE	UG/L	< 10			< 12
METHYLENE CHLORIDE	UG/L	< 3			< 2
CHLOROFORM	UG/L	< 0.5			< 2
1,1,1-TRICHLOROETHANE	UG/L	< 0.5			< 2
CARBON TETRACHLORIDE	UG/L	< 0.5			< 2
1,1-DICHLOROETHENE	UG/L	< 0.5			< 0.8
TRICHLOROETHYLENE	UG/L	< 0.6			< 2
TETRACHLOROETHYLENE	UG/L	< 0.5			< 2
BROMODICHLOROMETHANE	UG/L	< 0.5			< 2

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-CALCULATED VALUE E-INTERFERENCE
 F-AVERAGE G-10% RULE EXCEEDED

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9		CNYN 9		CNYN 9	
		LCRS (F)	LCRS	LCRS (F)	LCRS	LCRS (F)	LCRS
		SJ53961	SJ53963	SJ61220	SJ61222		
		04/15/98	04/15/98	10/15/98	10/15/98		
VOLATILE ORGANIC COMPOUNDS							
DIBROMOCHLOROMETHANE	UG/L	<	0.5	<	<	<	2
BROMOFORM	UG/L	<	0.5	<	<	<	2
CHLOROBENZENE	UG/L	<	1.0	<	<	<	0.8
VINYL CHLORIDE	UG/L	<	3.4	<	<	<	2
O-DICHLOROBENZENE	UG/L	<	0.5	<	<	<	2
M-DICHLOROBENZENE	UG/L	<	6.7	<	<	<	2
P-DICHLOROBENZENE	UG/L	<	2.6	<	<	<	2
1,1-DICHLOROETHANE	UG/L	<	0.5	<	<	<	2
1,1,2-TRICHLOROETHANE	UG/L	<	0.5	<	<	<	0.8
1,2-DICHLOROETHANE	UG/L	<	1.6	<	<	<	1
BENZENE	UG/L	<	2.5	<	<	<	2
TOLUENE	UG/L	<	0.5	<	<	<	2
ETHYL BENZENE	UG/L	<	10	<	<	<	25
VINYL ACETATE	UG/L	<	4.2	<	<	<	2
O-XYLENE	UG/L	<	0.5	<	<	<	2
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	0.5	<	<	<	2
BROMOMETHANE	UG/L	<	1	<	<	<	2
CHLOROETHANE	UG/L	<	0.5	<	<	<	2
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	<	<	2
CHLOROMETHANE	UG/L	<	1	<	<	<	2
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	<	<	2
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	<	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	<	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	<	<	1
ACROLEIN	UG/L	<	50	<	<	<	25
ACRYLONITRILE	UG/L	<	50	<	<	<	25
ACETONITRILE	UG/L	<	100	<	<	<	50
FREON 12 (CCL2F2)	UG/L	<	0.5	<	<	<	2
FREON 11 (CCL3F)	UG/L	<	0.5	<	<	<	2
1,2-DIBROMOETHANE	UG/L	<	0.01	<	<	<	0.01
ACETONE	UG/L	<	48	<	<	<	25
CIS-1,2-DICHLOROETHYLENE	UG/L	<	16	<	<	<	3
2-BUTANONE	UG/L	<	10	<	<	<	25
4-METHYL-2-PENTANONE	UG/L	<	10	<	<	<	25
STYRENE	UG/L	<	0.5	<	<	<	2
2,4,5-TRICHLOROPHENOL	UG/L	<	1	<	<	<	1
M+P-XYLENE	UG/L	<	5.6	<	<	<	2
CARBON DISULFIDE	UG/L	<	0.5	<	<	<	2
2-HEXANONE	UG/L	<	10	<	<	<	12

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-CALCULATED VALUE E-INTERFERENCE
 F-AVERAGE G-10% RULE EXCEEDED

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ53961 04/15/98	CNYN 9 LCRS SJ53963 04/15/98	CNYN 9 LCRS (F) SJ61220 10/15/98	CNYN 9 LCRS SJ61222 10/15/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	1
ACETOPHENONE	UG/L	<	<	<	1
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	1
4-AMINOBIPHENYL	UG/L	<	<	<	1
BENZYL ALCOHOL	UG/L	<	<	<	1
P-CHLOROANILINE	UG/L	<	<	<	1
CHLOROBENZILATE	UG/L	<	<	<	1
DIALATE	UG/L	<	<	<	1
DIBENZOFURAN	UG/L	<	<	<	1
2,6-DICHLOROPHENOL	UG/L	<	<	<	1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	1
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	10	<	<	10
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	1
M-DINITROBENZENE	UG/L	<	<	<	1
DIPHENYLAMINE	UG/L	<	<	<	1
ETHYL METHANESULFONATE	UG/L	<	<	<	1
FAMPHUR	UG/L	<	<	<	1
HEXACHLOROPROPENE	UG/L	5	<	<	5
ISODRIN	UG/L	<	<	<	1
ISOSAFROLE	UG/L	<	<	<	1
KEPONE	UG/L	10	<	<	10
METHAERYLENE	UG/L	20	<	<	20
3-METHYLCHOLANTHRENE	UG/L	<	<	<	1
METHYL METHANESULFONATE	UG/L	<	<	<	1
2-METHYLNAPHTHALENE	UG/L	<	<	<	1
1,4-NAPHTHOQUINONE	UG/L	<	<	<	1
1-NAPHTHYLAMINE	UG/L	<	<	<	1
2-NAPHTHYLAMINE	UG/L	<	<	<	1
O-NITROANILINE	UG/L	<	<	<	1
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPYRIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	5	<	<	5
PHENACETIN	UG/L	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	1
PRONAMIDE	UG/L	20	<	<	20

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-CALCULATED VALUE E-INTERFERENCE
 F-AVERAGE G-10% RULE EXCEEDED

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS SJ53961 04/15/98	CNYN 9 LCRS SJ53963 04/15/98	CNYN 9 LCRS (F) SJ61220 10/15/98	CNYN 9 LCRS SJ61222 10/15/98
ACID-BASE NEUTRAL EXTRACTABLE					
SAFROLE	UG/L	<	1	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	1	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	1	<	1
O-TOLUIDINE	UG/L	<	1	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	5	<	5
SYM-TRINITROBENZENE	UG/L	<	1	<	1
ACENAPHTHENE	UG/L	<	1	<	1
ACENAPHTHYLENE	UG/L	<	1	<	1
ANTHRACENE	UG/L	<	20	<	20
BENZIDINE	UG/L	<	1	<	1
BENZO(A)ANTHRACENE	UG/L	<	0.2	<	0.2
BENZO(A)PYRENE	UG/L	<	1	<	1
BENZO(B)FLUORANTHENE	UG/L	<	1	<	1
BENZO(G,H,I)PERYLENE	UG/L	<	1	<	1
BENZO(K)FLUORANTHENE	UG/L	<	1	<	1
BIS(2-CL-ETHOXY)METHANE	UG/L	<	1	<	1
BIS(2-CHLOROETHYL)ETHER	UG/L	<	1	<	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	1	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	1	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	1	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	1	<	1
2-CHLORONAPHTHALENE	UG/L	<	1	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	1	<	1
CHRYSENE	UG/L	<	1	<	1
DIBENZO(A,H)ANTHRACENE	UG/L	<	1	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	1	<	1
DIETHYL PHTHALATE	UG/L	<	1	<	1
DIMETHYL PHTHALATE	UG/L	<	1	<	1
DI-N-BUTYL PHTHALATE	UG/L	<	1	<	1
2,4-DINITROTOLUENE	UG/L	<	1	<	1
2,6-DINITROTOLUENE	UG/L	<	1	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	1	<	1
FLUORANTHENE	UG/L	<	1	<	1
FLUORENE	UG/L	<	1	<	1
HEXACHLOROBENZENE	UG/L	<	1	<	1
HEXACHLOROBUTADIENE	UG/L	<	1	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5	<	5
HEXACHLOROETHANE	UG/L	<	1	<	1
INDENO(1,2,3-C,D)PYRENE	UG/L	<	1	<	1
ISOPHORONE	UG/L	<	1	<	1
NAPHTHALENE	UG/L	<	2	<	2

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-CALCULATED VALUE E-INTERFERENCE
F-AVERAGE G-10% RULE EXCEEDED

TABLE A.7
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ53961 04/15/98	CNYN 9 LCRS SJ53963 04/15/98	CNYN 9 LCRS (F) SJ61220 10/15/98	CNYN 9 LCRS SJ61222 10/15/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	1	<	1
NITROBENZENE	UG/L	<	1	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1	<	1
PHENANTHRENE	UG/L	<	1	<	1
PYRENE	UG/L	<	1	<	1
2-CHLOROPHENOL	UG/L	<	1	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1	<	1
2,4-DICHLOROPHENOL	UG/L	<	1	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1	<	1
2,4-DINITROPHENOL	UG/L	<	16	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1	<	1
2-NITROPHENOL	UG/L	<	1	<	1
4-NITROPHENOL	UG/L	<	1	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1	<	1
PENTACHLOROPHENOL	UG/L	<	1	<	1
PHENOL	UG/L	<	1	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1	<	1
O-CRESOL	UG/L	<	1	<	1
M+P CRESOL	UG/L	<	1	<	1

FOOTNOTES : A-DUPLICATE SPIKE F-AVERAGE B-AVERAGE OF DUPS G-10% RULE EXCEEDED C-DUP & SPIKE D-CALCULATED VALUE E-INTERFERENCE

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ50013 01/02/98	EASTERN CANYONS LCS2 (F) SJ53877 04/14/98	EASTERN CANYONS LCS2 (F) SJ53878 04/14/98	EASTERN CANYONS LCS2 (F) SJ57094 07/02/98	EASTERN CANYONS LCS2 (F) SJ61219 10/15/98	EASTERN CANYONS LCS2 (F) SJ61221 10/15/98
GENERAL							
PH		8.00	7.00 G	7.49	7.30	7.30	7.30
CONDUCTIVITY	UMHOS/CM	1694	3000	2920	2650	2650	2650
TOTAL DISSOLVED SOLIDS	MG/L	1106	2617	2414	1980	1980	1980
TOTAL HARDNESS	MG/L CaCO3	695 C	1496 C	1263 C	1140	1140	1140
TOTAL CYANIDE	MG/L CN	<0.002 A	<0.002 A	<0.005 A	<0.005 A	<0.005 A	<0.005 A
BORON	MG/L B	0.57	0.72	0.66	0.57	0.57	0.57
ANIONS							
NITRATE NITROGEN	MG/L N	1.90	3.24	22.3 H	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	410	1470	1200 H	566 H	566 H	566 H
CHLORIDE	MG/L CL	50.0 B	81.0	164 H	125 H	125 H	125 H
TOTAL ALKALINITY	MG/L CaCO3	454	281	220	852 B	852 B	852 B
BICARBONATE ALKALINITY	MG/L CaCO3	454	281	220	852	852	852
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1 G	< 0.1	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.49	0.45	0.63	0.30	0.30	0.30
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3	444 A	784	637 A	729 A	729 A	729 A
MAGNESIUM-HARDNESS	MG/L CaCO3	251 A	712	626 A	531 A	531 A	531 A
SODIUM	MG/L NA	124 A	278	238 A	168 A	168 A	168 A
POTASSIUM	MG/L K	9.5 A	15.7	12.1 A	14.2 A	14.2 A	14.2 A
IRON	MG/L FE	< 0.05 A	86.9	0.67 A	0.55 A	0.55 A	0.55 A
MANGANESE	MG/L MN	< 0.01	10.9	0.17 A	0.82 A	0.82 A	0.82 A
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.1
TOTAL BOD	MG/L O	< 0.7	< 2	< 2	< 2	< 2	< 2
SOLUBLE BOD	MG/L O	< 0.7	< 2	< 2	< 2	< 2	< 2
TOTAL COD	MG/L O	8	18	21	40	40	40
SOLUBLE COD	MG/L O	7	17	21	38	38	38
TOTAL ORGANIC CARBON	MG/L C	4.11	3.22	7.42	14.3	14.3	14.3
OIL & GREASE	MG/L	1	1	3.0	4.0	4.0	4.0
TOTAL ORGANIC HALOGEN (TOX UG/L		140 D	55.8	110 D	140 D	140 D	140 D
METALS							
ARSENIC	MG/L AS	< .0010	.0022	.0059	.0095	.0019	.0019
BARIUM	MG/L BA	0.06	0.03 A	0.55	0.03 A	0.04 A	0.04 A

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE C-CALCULATED VALUE D-10% RULE EXCEEDED E-AMENDED TEST RESULT
F-INTERFERENCE G-AVERAGE OF DUPS H-AVERAGE

TABLE A.7
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ50013 01/02/98	EASTERN CANYONS LCS2(F) SJ53877 04/14/98	EASTERN CANYONS LCS2(F) SJ53878 04/14/98	EASTERN CANYONS LCS2(F) SJ57094 07/02/98	EASTERN CANYONS LCS2(F) SJ57095 07/02/98	EASTERN CANYONS LCS2(F) SJ61219 10/15/98	EASTERN CANYONS LCS2 SJ61221 10/15/98
METALS								
CADMIUM	MG/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.007 A
TOTAL CHROMIUM	MG/L	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.01 A
COBALT	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.01 A
COPPER	MG/L	0.04	0.04	0.04	0.01	0.01	0.54	1.79 A
LEAD	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05 A
MERCURY	MG/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
NICKEL	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.04 A
SELENIUM	MG/L	0.012	0.013	0.014	0.010	0.010	0.010	< 0.010
SILVER	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 A
ZINC	MG/L	0.10	0.04	0.15	0.01	0.01	0.41	0.27 A
ANTIMONY	MG/L	0.007	0.006	0.011	0.005	0.005	0.005	0.005
BERYLLIUM	MG/L	< 0.025	< 0.010	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
THALLIUM	MG/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001 A
TIN	MG/L	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06 A
VANADIUM	MG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 A
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
2,4,5-T	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DINOSB	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
THIONAZIN	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DIMETHOATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DISULFOTON	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
METHYL PARATHION	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ETHYL PARATHION	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PHORATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PP'-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-DUPLICATE SPIKE
 B-DUP & SPIKE
 G-AVERAGE OF DUPS
 C-CALCULATED VALUE
 H-AVERAGE
 D-10% RULE EXCEEDED
 E-AMENDED TEST RESULT
 F-INTERFERENCE

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ50013	01/02/98	EASTERN CANYONS LCS2 (F) SJ50014	04/14/98	EASTERN CANYONS LCS2 (F) SJ53877	04/14/98	EASTERN CANYONS LCS2 (F) SJ53878	04/14/98	EASTERN CANYONS LCS2 (F) SJ57094	07/02/98	EASTERN CANYONS LCS2 (F) SJ57095	07/02/98	EASTERN CANYONS LCS2 (F) SJ61219	10/15/98	EASTERN CANYONS LCS2 (F) SJ61221	10/15/98
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS																	
AROCLOR 1254	UG/L	<		<	0.05	<		<	0.05	<		<		<		<	0.05
BETA-BHC	UG/L	<		<	0.01	<		<	0.01	<		<		<		<	0.01
DELTA-BHC	UG/L	<		<	0.01	<		<	0.01	<		<		<		<	0.01
ENDOSULFAN I	UG/L	<		<	0.01	<		<	0.01	<		<		<		<	0.01
ENDOSULFAN II	UG/L	<		<	0.1	<		<	0.1	<		<		<		<	0.1
ENDOSULFAN SULFATE	UG/L	<		<	0.04	<		<	0.04	<		<		<		<	0.04
ENDRIN ALDEHYDE	UG/L	<		<	0.1	<		<	0.1	<		<		<		<	0.1
AROCLOR 1016	UG/L	<		<	0.1	<		<	0.1	<		<		<		<	0.1
AROCLOR 1221	UG/L	<		<	0.1	<		<	0.1	<		<		<		<	0.1
AROCLOR 1232	UG/L	<		<	0.1	<		<	0.1	<		<		<		<	0.1
AROCLOR 1248	UG/L	<		<	0.1	<		<	0.1	<		<		<		<	0.1
AROCLOR 1260	UG/L	<		<	0.1	<		<	0.1	<		<		<		<	0.1
TECHNICAL CHLORDANE	UG/L	<		<	0.05	<		<	0.05	<		<		<		<	0.05
VOLATILE ORGANIC COMPOUNDS																	
ALLYL CHLORIDE	UG/L	<		<	10	<		<	10	<		<		<		<	10
BROMOCHLOROMETHANE	UG/L	<		<	0.5	<		<	0.5	<		<		<		<	0.5
CHLOROPRENE	UG/L	<		<	1000	<		<	1000	<		<		<		<	1000
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	<	0.01	<		<	0.01	<		<		<		<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	0.01	<	1	<		<	1	<		<		<		<	1
1,3-DICHLOROPROPANE	UG/L	<		<	0.5	<		<	0.5	<		<		<		<	0.5
2,2-DICHLOROPROPANE	UG/L	<		<	0.5	<		<	0.5	<		<		<		<	0.5
1,1-DICHLOROPROPENE	UG/L	<		<	0.5	<		<	0.5	<		<		<		<	0.5
ISOBUTYL ALCOHOL	UG/L	<		<	10	<		<	10	<		<		<		<	10
METHACRYLONITRILE	UG/L	<		<	0.5	<		<	0.5	<		<		<		<	0.5
METHYLENE BROMIDE	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5
METHYL IODIDE	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5
PROPIONITRILE	UG/L	<		<	20	<		<	20	<		<		<		<	20
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5
1,1,1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5
METHYL METHACRYLATE	UG/L	<		<	10	<		<	10	<		<		<		<	10
METHYLENE CHLORIDE	UG/L	<	1	<	3	<		<	3	<		<		<		<	3
CHLOROFORM	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.5	<		<	0.5	<		<		<		<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5
TRICHLOROETHYLENE	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5
TETRACHLOROETHYLENE	UG/L	<	1	<	0.7	<		<	0.7	<		<		<		<	0.7
BROMODICHLOROMETHANE	UG/L	<	1	<	0.5	<		<	0.5	<		<		<		<	0.5

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE G-AVERAGE OF DUPS C-CALCULATED VALUE D-10% RULE EXCEEDED E-AMENDED TEST RESULT F-INTERFERENCE

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUEBLO HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ50013 01/02/98	EASTERN CANYONS LCS2 (F) SJ50014 01/02/98	EASTERN CANYONS LCS2 (F) SJ53877 04/14/98	EASTERN CANYONS LCS2 (F) SJ53878 04/14/98	EASTERN CANYONS LCS2 (F) SJ57094 07/02/98	EASTERN CANYONS LCS2 (F) SJ57095 07/02/98	EASTERN CANYONS LCS2 (F) SJ61219 10/15/98	EASTERN CANYONS LCS2 (F) SJ61221 10/15/98
VOLATILE ORGANIC COMPOUNDS									
DIBROMOCHLOROMETHANE	UG/L	<	1	<	0.5	<	1	<	1
BROMOFORM	UG/L	<	1	<	0.5	<	1	<	1
CHLOROBENZENE	UG/L	<	1	<	0.5	<	1	<	1
VINYL CHLORIDE	UG/L	<	0.3	<	0.5	<	0.3	<	0.3
O-DICHLOROBENZENE	UG/L	<	1	<	0.5	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	0.5	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1.4	<	1	<	2
1,1-DICHLOROETHANE	UG/L	<	1	<	0.5	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	0.3	<	0.5	<	0.3	<	0.3
1,1,2-TRICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	1	<	0.5	<	1	<	1
TOLUENE	UG/L	<	1	<	0.5	<	1	<	1
ETHYL BENZENE	UG/L	<	10	<	0.5	<	10	<	10
VINYL ACETATE	UG/L	<	1	<	0.5	<	1	<	1
O-XYLENE	UG/L	<	1	<	0.5	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	0.5	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	0.5	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	0.5	<	1	<	1
2-CHLOROETHYL VINYL ETHER	UG/L	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	0.5	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	50	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	50	<	10	<	10
ACETONITRILE	UG/L	<	100	<	100	<	100	<	20
FREON 12 (CCL2F2)	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
FREON 11 (CCL3F)	UG/L	<	0.01	<	0.01	<	0.01	<	0.01
1,2-DIBROMOETHANE	UG/L	<	10	<	0.01	<	10	<	10
ACETONE	UG/L	<	1	<	1	<	1	<	1
CIS-1,2-DICHLOROETHYLENE	UG/L	<	10	<	10	<	10	<	10
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	1	<	0.5	<	1	<	1
STYRENE	UG/L	<	1	<	0.5	<	1	<	1
2,4,5-TRICHLOROPHENOL	UG/L	<	1	<	0.5	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	0.5	<	1	<	1
CARBON DISULFIDE	UG/L	<	5	<	10	<	5	<	5
2-HEXANONE	UG/L	<	E	<	E	<	E	<	E

B-DUP & SPIKE G-AVERAGE OF DUPS
 C-CALCULATED VALUE H-AVERAGE
 D-10% RULE EXCEEDED
 E-AMENDED TEST RESULT

FOOTNOTES : A- DUPLICATE SPIKE F- INTERFERENCE

TABLE A.7
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ50013 01/02/98	EASTERN CANYONS LCS2 (F) SJ50014 01/02/98	EASTERN CANYONS LCS2 (F) SJ53877 04/14/98	EASTERN CANYONS LCS2 (F) SJ53878 04/14/98	EASTERN CANYONS LCS2 (F) SJ57094 07/02/98	EASTERN CANYONS LCS2 (F) SJ57095 07/02/98	EASTERN CANYONS LCS2 (F) SJ61219 10/15/98	EASTERN CANYONS LCS2 (F) SJ61221 10/15/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
2-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-DUP & SPIKE C-CALCULATED VALUE D-10% RULE EXCEEDED E-AMENDED TEST RESULT
F-INTERFERENCE G-AVERAGE OF DUPS H-AVERAGE

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F)	EASTERN CANYONS LCS2 (F)	EASTERN CANYONS LCS2 (F)	EASTERN CANYONS LCS2 (F)	EASTERN CANYONS LCS2 (F)	EASTERN CANYONS LCS2 (F)	EASTERN CANYONS LCS2 (F)	EASTERN CANYONS LCS2 (F)
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
BENZIDINE	UG/L	<	<	<	<	<	<	<	<
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
BENZO (A) PYRENE	UG/L	<	<	<	<	<	<	<	<
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BENZO (G. H. I.) PERYLENE	UG/L	<	<	<	<	<	<	<	<
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	<	<	<	<
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	<	<	<	<
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<	<	<
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
INDENO (1,2,3-C, D) PYRENE	UG/L	<	<	<	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<	<	<	<

B-DUP & SPIKE G-AVERAGE OF DUPS
 C-CALCULATED VALUE H-AVERAGE
 D-10% RULE EXCEEDED
 E-AMENDED TEST RESULT

FOOTNOTES : A-DUPLICATE SPIKE F-INTERFERENCE

TABLE A.7
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) 01/02/98	EASTERN CANYONS LCS2 (F) 04/14/98	EASTERN CANYONS LCS2 (F) 04/14/98	EASTERN CANYONS LCS2 (F) 07/02/98	EASTERN CANYONS LCS2 (F) 07/02/98	EASTERN CANYONS LCS2 (F) 10/15/98	EASTERN CANYONS LCS2 (F) 10/15/98
NITROBENZENE	UG/L	<	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<	<	<

ACID-BASE NEUTRAL EXTRACTABLE

FOOTNOTES : A-DUPLICATE SPIKE F-INTERFERENCE

B-DUP & SPIKE G-AVERAGE OF DUPS

C-CALCULATED VALUE H-AVERAGE

D-10% RULE EXCEEDED

E-AMENDED TEST RESULT

TABLE A.8
WATER QUALITY DATA
REUSED WATER MONITORING RESULTS

TABLE A.8

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI SJ52431 03/10/98	EFFL REUS SJ52432	EFFI REUS (F) SJ56056	EFFL REUS SJ56057	EFFI REUS (F) SJ59480	EFFL REUS SJ59481	EFFI REUS (F) SJ63359	EFFL REUS SJ63360
GENERAL									
PH	UMHOS/CM		8.04 B		7.28 B		7.26		7.30
CONDUCTIVITY			756		2260		2300		2350
TOTAL DISSOLVED SOLIDS	MG/L		466		1819		1880		1908
TOTAL HARDNESS	MG/L CaCO3		<0.002 D		1025 D		<0.005 A		1038
TOTAL CYANIDE	MG/L CN		0.28 A		<0.002		0.54 C		<0.005
BORON	MG/L B				0.59		5		0.70
GROSS ALPHA RADIOACTIVITY	PCI/L						13.6		
GROSS BETA RADIOACTIVITY	PCI/L								
ANIONS									
NITRATE NITROGEN	MG/L N		2.77 A		1.42 F		0.46 A		0.37 A
SULFATE	MG/L SO4		139		868 F		900 A		901 A
CHLORIDE	MG/L CL		45.4 C		82.2 F		84.2 A		88.1 A
TOTAL ALKALINITY	MG/L CaCO3		189		362		316		375 C
BICARBONATE ALKALINITY	MG/L CaCO3		189		362		316		375 C
TOTAL SULFIDE	MG/L S		< 0.1		< 0.1		< 0.1		< 0.1 B
FLUORIDE	MG/L F		0.44		0.69		0.68		0.64
CATIONS									
CALCIUM-HARDNESS	MG/L CaCO3		164 A		449		427 A		449 A
MAGNESIUM-HARDNESS	MG/L CaCO3		86.4 A		576		572 A		589 A
SODIUM	MG/L NA		65.9 A		175		186 A		198 A
POTASSIUM	MG/L K		2.3 A		6.8		7.1 A		6.7 A
IRON	MG/L FE	< 0.05	3.09 A	0.37 A	1.54	0.64	0.91 A	0.54	0.98 A
MANGANESE	MG/L MN	< 0.02	0.04 A	0.29 A	0.28	0.36	0.36 A	0.37	0.36 A
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N		< 0.1 C		0.7 C		2.10		1.6
TOTAL BOD	MG/L O		< 2		6 C		5		< 2
SOLUBLE BOD	MG/L O		< 5 C		2 C		2		< 2
TOTAL COD	MG/L O		< 4		10 C		10		< 10
SOLUBLE COD	MG/L O		0.718		10		10		< 10
TOTAL ORGANIC CARBON	MG/L C		< 1		1.17		1.19 H		1.14 A
OIL & GREASE	MG/L		< 20		16 G		3.0 A		< 4.0 F
TOTAL ORGANIC HALOGEN (TOX)	UG/L						7.5 G		< 3.0 F

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE H-CHECK NOTES TO USER D-CALCULATED VALUE E-AMENDED TEST RESULT F-AVERAGE G-10% RULE EXCEEDED

TABLE A.8
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS 03/10/98	EFFL REUS 03/10/98	EFFI REUS (F) 06/05/98	EFFL REUS (F) 06/05/98	EFFI REUS 06/05/98	EFFL REUS 06/05/98	EFFI REUS (F) 09/02/98	EFFL REUS 09/02/98	EFFI REUS (F) 12/07/98	EFFL REUS 12/07/98
METALS											
ARSENIC	MG/L AS	0.010	0.014	0.012	0.014	0.014	0.014	0.010	0.010	0.010	0.010
BARIUM	MG/L BA	0.005	0.005	0.002	0.003	0.003	0.003	0.002	0.002	0.001	0.001
CADMIUM	MG/L CD	<0.003	<0.003	0.011	0.003	0.003	0.003	<0.003	<0.003	<0.003	<0.003
TOTAL CHROMIUM	MG/L CR	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COBALT	MG/L CO	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	MG/L CU	<0.01	0.02	<0.01	0.02	0.01	0.01	<0.01	<0.01	<0.01	<0.01
LEAD	MG/L PB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MERCURY	MG/L HG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
NICKEL	MG/L NI	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SELENIUM	MG/L SE	0.033	0.029	<0.01	0.010	0.010	0.010	<0.01	<0.01	<0.01	<0.01
SILVER	MG/L AG	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
ZINC	MG/L ZN	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
ANTIMONY	MG/L SB	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BERYLLIUM	MG/L BE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
THALLIUM	MG/L TL	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
TIN	MG/L SN	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
VANADIUM	MG/L V	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VOLATILE ORGANIC COMPOUNDS											
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
2,2-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<

B-AVERAGE OF DUPS
 G-10% RULE EXCEEDED
 C-DUP & SPIKE
 H-CHECK NOTES TO USER
 D-CALCULATED VALUE
 E-AMENDED TEST RESULT

FOOTNOTES : A-DUPLICATE SPIKE
 F-AVERAGE

TABLE A.8
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS (F) SJ52431 03/10/98	EFFL REUS SJ52432 03/10/98	EFFI REUS (F) SJ56056 06/05/98	EFFL REUS SJ56057 06/05/98	EFFI REUS (F) SJ59480 09/02/98	EFFL REUS SJ59481 09/02/98	EFFI REUS (F) SJ63359 12/07/98	EFFL REUS SJ63360 12/07/98
VOLATILE ORGANIC COMPOUNDS									
TRICHLOROETHYLENE	UG/L	<	<	1	1	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	1	1	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	1	1	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	1	1	<	<	<	<
BROMOFORM	UG/L	<	<	1	1	<	<	<	<
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	<	<	0.3
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	<	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	<	<	0.5
BENZENE	UG/L	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	10	<	10	<	<	<	10
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	10	<	10	<	10
ACETONITRILE	UG/L	<	20	<	20	<	20	<	20
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<
ACETONE	UG/L	<	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	<	<	<	<	<	<	<
2,4,5-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<	<
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5

FOOTNOTES : A-DUPLICATE SPIKE F-AVERAGE B-AVERAGE OF DUPS G-10% RULE EXCEEDED C-DUP & SPIKE H-CHECK NOTES TO USER D-CALCULATED VALUE E-AMENDED TEST RESULT

TABLE A.8
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL REUS (F) SJ52431 03/10/98	EFFL REUS SJ52432 03/10/98	EFFL REUS (F) SJ56056 06/05/98	EFFL REUS SJ56057 06/05/98	EFFL REUS (F) SJ59480 09/02/98	EFFL REUS SJ59481 09/02/98	EFFL REUS (F) SJ63359 12/07/98	EFFL REUS SJ63360 12/07/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
ACETOPHENONE	UG/L	1	1	1	1	1	1	1	1
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	1	1	1	1	1	1	1	1
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	1	1	1	1	1	1	1	1
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALLATE	UG/L	1	1	1	1	1	1	1	1
DIBENZOFURAN	UG/L	1	1	1	1	1	1	1	1
2,6-DICHLOROPHENOL	UG/L	1	1	1	1	1	1	1	1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	10	10	10	10	10	10	10	10
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	1	1	1	1	1	1	1	1
3,3'-DIMETHYLBENZIDINE	UG/L	1	1	1	1	1	1	1	1
M-DINITROBENZENE	UG/L	1	1	1	1	1	1	1	1
DIPHENYLAMINE	UG/L	1	1	1	1	1	1	1	1
ETHYL METHANESULFONATE	UG/L	1	1	1	1	1	1	1	1
FAMPHUR	UG/L	1	1	1	1	1	1	1	1
HEXACHLOROPROPENE	UG/L	15	15	15	15	15	15	15	15
ISODRIN	UG/L	1	1	1	1	1	1	1	1
ISOSAFROLE	UG/L	10	10	10	10	10	10	10	10
KEPONE	UG/L	20	20	20	20	20	20	20	20
METHAPYRIENE	UG/L	1	1	1	1	1	1	1	1
3-METHYLCHOLANTHRENE	UG/L	1	1	1	1	1	1	1	1
METHYL METHANESULFONATE	UG/L	1	1	1	1	1	1	1	1
2-METHYLNAPHTHALENE	UG/L	1	1	1	1	1	1	1	1
1,4-NAPHTHOQUINONE	UG/L	1	1	1	1	1	1	1	1
1-NAPHTHYLAMINE	UG/L	1	1	1	1	1	1	1	1
2-NAPHTHYLAMINE	UG/L	1	1	1	1	1	1	1	1
O-NITROANILINE	UG/L	1	1	1	1	1	1	1	1
M-NITROANILINE	UG/L	1	1	1	1	1	1	1	1
P-NITROANILINE	UG/L	1	1	1	1	1	1	1	1
N-NITROANILINE	UG/L	1	1	1	1	1	1	1	1
N-NITRODI-N-BUTYLAMINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSODIETHYLAMINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSOMETHYLETHYLAMINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSODIPIPERIDINE	UG/L	1	1	1	1	1	1	1	1
N-NITROSOPYRROLIDINE	UG/L	1	1	1	1	1	1	1	1
5-NITRO-O-TOLUIDINE	UG/L	1	1	1	1	1	1	1	1
PENTACHLOROBENZENE	UG/L	1	1	1	1	1	1	1	1
PENTACHLORONITROBENZENE	UG/L	5	5	5	5	5	5	5	5
PHENACETIN	UG/L	1	1	1	1	1	1	1	1
P-PHENYLENEDIAMINE	UG/L	20	20	20	20	20	20	20	20
PRONAMIDE	UG/L	1	1	1	1	1	1	1	1

FOOTNOTES : A-DUPLICATE SPIKE F-AVERAGE B-AVERAGE OF DUPS G-10% RULE EXCEEDED C-DUP & SPIKE H-CHECK NOTES TO USER D-CALCULATED VALUE E-AMENDED TEST RESULT

TABLE A.8
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS (F) SJ52431 03/10/98	EFFL REUS SJ52432 03/10/98	EFFI REUS (F) SJ56056 06/05/98	EFFL REUS SJ56057 06/05/98	EFFI REUS (F) SJ59480 09/02/98	EFFL REUS SJ59481 09/02/98	EFFI REUS (F) SJ63359 12/07/98	EFFL REUS SJ63360 12/07/98
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	1	1	1	1	1	1	1	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
O,O-O-TRITHIYLPHOSPHOROTH	UG/L	5	5	5	5	5	5	5	5
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<	<	<
ANTHRACENE	UG/L	20	20	20	20	20	20	20	20
BENZIDINE	UG/L	<	<	<	<	<	<	<	<
BENZO (A) ANTHRACENE	UG/L	1	1	1	1	1	1	1	1
BENZO (A) PYRENE	UG/L	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BENZO (G.H.I.) PERYLENE	UG/L	<	<	<	<	<	<	<	<
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	<	<	<	<
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	<	<	<	<
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<	<	<
DIBENZO (A H) ANTHRACENE	UG/L	<	<	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	5	5	5	5	5	5	5	5
HEXACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	<	<	<	<	<
ISOPHORONE	UG/L	1	1	1	1	1	1	1	1
NAPHTHALENE	UG/L	1	1	1	1	1	1	1	1

B-AVERAGE OF DUPS
 G-10% RULE EXCEEDED
 C-DUP & SPIKE
 H-CHECK NOTES TO USER
 D-CALCULATED VALUE
 E-AMENDED TEST RESULT

FOOTNOTES :
 A-DUPLICATE SPIKE
 F-AVERAGE

TABLE A.8

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL REUS (F) SJ52431 03/10/98	EFFL REUS SJ52432 03/10/98	EFFL REUS (F) SJ56056 06/05/98	EFFL REUS SJ56057 06/05/98	EFFL REUS (F) SJ59480 09/02/98	EFFL REUS SJ59481 09/02/98	EFFL REUS (F) SJ63359 12/07/98	EFFL REUS SJ63360 12/07/98
ACID-BASE NEUTRAL EXTRACTABLE									
NITROBENZENE	UG/L	<	1	<	1	<	1	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1	<	1	<	1	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1	<	1	<	1	<	1
PHENANTHRENE	UG/L	<	1	<	1	<	1	<	1
PYRENE	UG/L	<	1	<	1	<	1	<	1
2-CHLOROPHENOL	UG/L	<	1	<	1	<	1	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1
2,4-DICHLOROPHENOL	UG/L	<	1	<	1	<	1	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1	<	1	<	1	<	1
2,4-DINITROPHENOL	UG/L	<	16	<	6	<	16	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	1	<	1	<	1	<	1
2-NITROPHENOL	UG/L	<	1	<	1	<	1	<	1
4-NITROPHENOL	UG/L	<	1	<	1	<	1	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1	<	1	<	1	<	1
PENTACHLOROPHENOL	UG/L	<	1	<	1	<	1	<	1
PHENOL	UG/L	<	1	<	1	<	1	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	1	<	1	<	1	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1	<	1	<	1	<	1
O-CRESOL	UG/L	<	1	<	1	<	1	<	1
M+P CRESOL	UG/L	<	1	<	1	<	1	<	1

FOOTNOTES : A- DUPLICATE SPIKE F-AVERAGE B-AVERAGE OF DUPS G-10% RULE EXCEEDED C-DUP & SPIKE H-CHECK NOTES TO USER D-CALCULATED VALUE E-AMENDED TEST RESULT

TABLE A.9
WATER QUALITY DATA
QUALITY ASSURANCE/QUALITY CONTROL DATA

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	01/02/98	03/04/98	03/04/98	03/05/98	03/05/98	03/05/98	03/06/98	03/06/98	03/06/98	03/10/98	03/11/98	03/12/98
		TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
ALLYL CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
BROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
CHLOROPRENE	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
1,3-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
2,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
1,1-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
ISOBUTYL ALCOHOL	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
METHACRYLONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
METHYL IODIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
METHYLENE BROMIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
PROPIONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
1,1,1,2-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
METHYL METHACRYLATE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
ETHYL METHACRYLATE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
CHLOROFORM	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
TRICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
BROMOFORM	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<
VINYL CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
1,1-DICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
BENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
TOLUENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
ETHYL BENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
VINYL ACETATE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<
O-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<

FOOTNOTES : A-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS									
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1
TRANS-1,3-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	10	<	10	<	10
ACETONITRILE	UG/L	<	10	<	10	<	10	<	10
FREON 12 (CCL2F2)	UG/L	<	0.01	<	0.01	<	0.01	<	0.01
FREON 11 (CCL3F)	UG/L	<	0.01	<	0.01	<	0.01	<	0.01
1,2-DIBROMOETHANE	UG/L	<	10	<	10	<	10	<	10
ACETONE	UG/L	<	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	10	<	10	<	10	<	10
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	10	<	10	<	10	<	10
M+P-XYLENE	UG/L	<	10	<	10	<	10	<	10
CARBON DISULFIDE	UG/L	<	10	<	10	<	10	<	10
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5

FOOTNOTES : A-AMENDED TEST RESULT

TABLE A.9
 WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP				UNITS	BLNK TRIP				UNITS	
		03/12/98	03/13/98	03/13/98	03/25/98		03/27/98	04/14/98	04/15/98	04/27/98		
FIELD PARAMETERS												
DEPTH TO WATER	FT						55.27					
DEPTH TO BOTTOM	FT						91.02					
PERCENT METHANE IN GAS	%CH4						< 0.1					
PERCENT OXYGEN IN GAS	%O2						20					
FIELD WATER TEMPERATURE	DEG C						19.57					
FIELD PH	PH						6.45					
FIELD CONDUCTIVITY	UMHOS/CM						2224					
FIELD DISSOLVED O2	MG/L						0.53					
VOLATILE ORGANIC COMPOUNDS												
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHACRYLONITRILE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
CARBON TETRACHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROBENZENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
VINYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AMENDED TEST RESULT B-INTERFERENCE

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 12 (CCl2F2)	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCl3F)	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
ACETONE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	<	<	<	<	<	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<	<	<	<	<	<	<
STYRENE	UG/L	<	<	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<	<	<	<
2-HEXANONE	UG/L	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-INTERFERENCE

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS												
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHACRYLONITRILE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1,2-TETRACHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-TRICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL METHACRYLATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL METHACRYLATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROFORM	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,1-TRICHLOROETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-TRICHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON TETRACHLORIDE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROETHENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TETRACHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMODICHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOFORM	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
CHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VINYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P-DICHLOROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROETHANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TOLUENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL BENZENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VINYL ACETATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TRANS-1,2-DICHLOROETHYLEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

FOOTNOTES : A-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
ACETONE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	<	<	<	<	<	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<	<	<	<	<	<	<
STYRENE	UG/L	<	<	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<	<	<	<
2-HEXANONE	UG/L	<	<	<	<	<	<	<	<	<	<
		CS2									
		C6H12O									

FOOTNOTES : A-AMENDED TEST RESULT

TABLE A.9
WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
ALYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,1,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYL ETHER	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	10	<	10	<	10	<	10	<	10	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<
ACETONE	UG/L	10	<	10	<	10	<	10	<	10	<
CIS-1,2-DICHLOROETHYLENE	UG/L	10	<	10	<	10	<	10	<	10	<
2-BUTANONE	UG/L	10	<	10	<	10	<	10	<	10	<
4-METHYL-2-PENTANONE	UG/L	1	<	1	<	1	<	1	<	1	<
STYRENE	UG/L	1	<	1	<	1	<	1	<	1	<
M+P-XYLENE	UG/L	1	<	1	<	1	<	1	<	1	<
CARBON DISULFIDE	UG/L	1	<	1	<	1	<	1	<	1	<
2-HEXANONE	UG/L	5 A	<	5 A	<	5 A	<	5 A	<	5 A	<

FOOTNOTES : A-AMENDED TEST RESULT

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	09/04/98	09/08/98	09/08/98	09/09/98	09/09/98	09/09/98	09/10/98	09/10/98	09/11/98	09/11/98	09/14/98
VOLATILE ORGANIC COMPOUNDS													
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2-CHLOROETHYLVINYLETHER	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
ACROLEIN	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
ACETONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
FREON 12 (CCL2F2)	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
1,2-DIBROMOETHANE	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01
ACETONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5	<	5	<	5

CS2
C6H12O

TABLE A.9

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	SJ59903	SJ59942	SJ59947	SJ61223	SJ63298	SJ63305	SJ63361	SJ63559	BLNK TRIP	BLNK TRIP	BLNK TRIP
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
ACETONE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
STYRENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
2-HEXANONE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<

CS2
C6H12O

TABLE A.9
 WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK		BLNK		BLNK		BLNK		BLNK	
		TRIP	12/14/98	TRIP	12/15/98	TRIP	12/15/98	TRIP	12/16/98	TRIP	12/18/98
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5	<	5

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT/WELL NO.	UNITS	BLNK		BLNK		BLNK		BLNK		BLNK	
		TRIP	12/14/98	TRIP	12/15/98	TRIP	12/16/98	TRIP	12/18/98	TRIP	12/18/98
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5	<	5

**COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY**

PUENTE HILLS LANDFILL
ORDER NO. 91-035, ORDER NO. 93-062, & ORDER NO. 93070
FILE NO. 57-220
MONITORING AND REPORTING PROGRAM NO. 2294

1998 EXCEL 97 FILE DIRECTORY

<u>FILE</u>	<u>CONTENTS</u>
981Q-T09.XLS	First Quarter 1998 Groundwater and Piezometer Monitoring Results
981Q-T10.XLS	First Quarter 1998 Groundwater and Piezometer Trip Blank Results
981Q-T11.XLS	First Quarter 1998 Reused Water Sample Results
981Q-T12.XLS	First Quarter 1998 Reused Water Trip Blank Results
981Q-T13.XLS	First Quarter 1998 LCRS Water Sample Results
981Q-T14.XLS	First Quarter 1998 LCRS Water Trip Blank Results
9804CCTB.XLS	April 1998 LCRS Sample and Trip Blank Results
982Q-T09.XLS	Second Quarter 1998 Groundwater and Piezometer Monitoring Results
982Q-T10.XLS	Second Quarter 1998 Groundwater and Piezometer Trip Blank Results
982Q-T11.XLS	Second Quarter 1998 Reused Water Sample Results
982Q-T12.XLS	Second Quarter 1998 Reused Water Trip Blank Results
983Q-T09.XLS	Third Quarter 1998 Groundwater and Piezometer Monitoring Results
983Q-T10.XLS	Third Quarter 1998 Groundwater and Piezometer Trip Blank Results
983Q-T11.XLS	Third Quarter 1998 Reused Water Sample Results
983Q-T12.XLS	Third Quarter 1998 Reused Water Trip Blank Results
983Q-T13.XLS	Third Quarter 1998 LCRS Water Sample Results
983Q-T14.XLS	Third Quarter 1998 LCRS Water Trip Blank Results
9810CCTB.XLS	October 1998 LCRS Sample and Trip Blank Results
984Q-T09.XLS	Fourth Quarter 1998 Groundwater Monitoring Results
984Q-T10.XLS	Fourth Quarter 1998 Groundwater Trip Blank Results
984Q-T11.XLS	Fourth Quarter 1998 Reused Water Sample Results
984Q-T11.XLS	Fourth Quarter 1998 Reused Water Trip Blank Results

1999 Annual Water Quality Monitoring Report



COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (562) 699-7411, FAX: (562) 699-5422
www.lacsd.org

CHARLES W. CARRY
Chief Engineer and General Manager

May 15, 2000
File No. 31R-102.10B

Mr. Rodney Nelson
Head, Landfill Unit
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Dear Mr. Nelson:

Puente Hills Landfill
1999 Water Quality Monitoring Annual Report
Order Nos. 93-062, 90-046, and 93-070
File No. 57-220, C.I. Nos. 2294 and 7336

Enclosed please find *1999 Water Quality Monitoring Annual Report for the Puente Hills Landfill*.
If you have any questions regarding this report, please contact Dr. Chi-Chung Tang of this office.

I certify that all wastes deposited at the Puente Hills Landfill during 1999 were deposited in compliance with the requirements of the Los Angeles Regional Water Quality Control Board (RWQCB), and that no wastes were deposited outside of the boundaries of the waste management area as specified in the RWQCB's requirements. In addition, I certify that the Sanitation Districts have complied with all monitoring and reporting requirements which apply to the Puente Hills Landfill, pursuant to Order Nos. 93-062, 90-046, and 93-070; and Monitoring and Reporting Programs 2294 and 7336. All laboratory analyses performed as part of the required water quality monitoring program were conducted at laboratories certified for such analyses, and in accordance with current guideline procedures contained in SW-846 and approved by USEPA.

I declare, under penalty of perjury, that to the best of my knowledge the foregoing statements are true, complete, and correct. Executed on the 15th day of May, 2000, at Whittier, California.

Very truly yours,

Charles W. Carry

David W. Snyder
Division Engineer
Solid Waste Management Department

**1999 WATER QUALITY MONITORING ANNUAL REPORT
FOR THE PUENTE HILLS LANDFILL**

PREPARED BY

**COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
1955 WORKMAN MILL ROAD
WHITTIER, CALIFORNIA**

MAY, 2000

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1999 WATER QUALITY MONITORING ANNUAL REPORT
FOR THE PUENTE HILLS LANDFILL

1.0 INTRODUCTION

The County Sanitation Districts of Los Angeles County (Sanitation Districts) own and operate the Puente Hills Landfill as a Class III municipal solid waste disposal facility. The site is located in unincorporated Los Angeles County, southeast of the intersection of the Pomona (SR-60) and San Gabriel River (I-605) freeways, as depicted in Exhibit 1. The site address is 2800 Workman Mill Road, Whittier, California. As shown in Exhibit 2, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons.

The Sanitation Districts operate the Puente Hills Landfill in accordance with permits, Waste Discharge Requirements (WDRs) and Monitoring and Reporting Programs (MRPs), issued by the Regional Water Quality Control Board, Los Angeles Region (RWQCB). The Puente Hills Landfill is currently subject to the following WDRs: (1) Order No. 93-062 which applies to all active municipal solid waste disposal sites in the Los Angeles Region; (2) Order Nos. 90-046 and 91-035 which apply to the Main Canyon and Canyon 9 of the Puente Hills Landfill; (3) Order Nos. 93-070 and 94-103 which apply to the Eastern Canyons expansion area of the Puente Hills Landfill; and (4) Order No. 99-059 which contains the Corrective Action Program for the Main Canyon of the Puente Hills Landfill. Groundwater monitoring requirements are specified in MRP No. 2294 for the Main Canyon and Canyon 9, most recently revised on June 30, 1999; and MRP No. 7336 for the Eastern Canyon expansion area, most recently revised on October 8, 1998.

This annual report is prepared to comply with Section 13B(2) of RWQCB Order No. 93-062. Included in this report is site information, waste disposal information, facility changes, all water quality monitoring data collected in 1999 and a discussion of these data. The report also includes a graphical presentation of the groundwater quality data collected during the period from 1995 through 1999.



Site Location

EXHIBIT 1



LEGEND

Property Boundary

Site Topography and Identified Site Areas

EXHIBIT 2

0 500 1000 FT

Topography Data May 1993

2.0 SITE INFORMATION

2.1 GENERAL INFORMATION

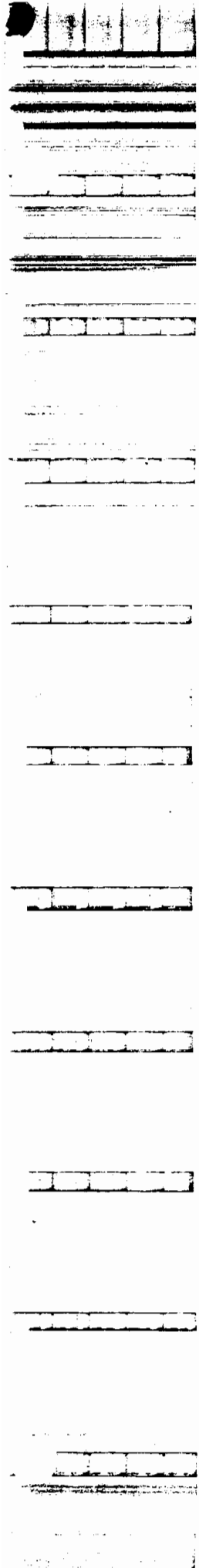
The Puente Hills Landfill is located immediately east of the San Gabriel River Freeway (I-605) and immediately south of the Pomona Freeway (SR-60) on Workman Mill Road (refer to Exhibit 1). The principal land acquisition for what is now known as the Puente Hills Landfill was completed in 1970 with the Sanitation Districts' purchase of a 1,214 acre parcel of the Pellissier Ranch. This portion of the Pellissier Ranch included a landfill operation that began in 1957 by the San Jose Development Company. At the time of the 1970 purchase by the Sanitation Districts, approximately six million tons of waste had been placed on the property. Since June 1970, the Sanitation Districts have remained the sole owner and operator of the Puente Hills Landfill. In May 1981, an additional 151 acres of land along the north side of the site was purchased bringing the site acreage to its present 1,365 acres. Refuse operation in the Main Canyon began in 1957. Refuse operations in Canyon 9 began in 1990. In July 1995, refuse operations were expanded into the Eastern Canyons.

The placement of refuse at the site is pursuant to the Conditional Use Permit (CUP) issued by the Los Angeles County Regional Planning. Exhibit 3 shows the current permitted landfill operation boundaries under CUP 92-250(4) and the 1999 disposal areas. The Puente Hills Landfill received approximately 3.6 million tons of solid waste in 1999. The 1999 average daily disposal rate was approximately 11,619 tons. Table 1 summarizes the monthly solid waste disposal rate. As of December 31, 1999, approximately 90.8 million tons of refuse have been deposited since the Sanitation Districts began landfilling in 1970. The Sanitation Districts estimate that as of December 31, 1999, approximately 15.3 million tons of capacity remain at the Puente Hills Landfill under the current CUP. CUP 92-250(4) expires on November 1, 2003, at which time approximately 10 years of additional capacity will remain.

2.2 GEOLOGY AND HYDROGEOLOGY

This section describes the regional geologic and hydrogeologic setting in the vicinity of the Puente Hills Landfill, and geologic and hydrogeologic conditions at the site. The discussion is primarily based on information found in the following reports.

- LeRoy Crandall and Associates, *Report of Geologic and Hydrogeologic Investigation, Puente Hills Landfill Site*, October 1981
- ENVIRON Corporation, *Hydrogeologic Investigation along Subsurface Barrier Systems, Puente Hills Landfill*, July 1996
- Dames & Moore, *Puente Hills Landfill Geotechnical Investigation and Hydrogeological Study, Phase 2 and Phases 3 through 5 Expansion Areas*, January 1997
- IT Corporation, *Detection and Evaluation Monitoring Programs for the Main Canyon at Puente Hills Landfill*, March 1998



LEGEND




	PROPERTY LINE
	PERMITTED LANDFILL OPERATIONS LIMIT
	1989 DISPOSAL AREAS

EXHIBIT 3

PERMITTED FILL AND 1989 DISPOSAL AREAS

RUSTON HILLS LANDFILL SANITATION DISTRICTS

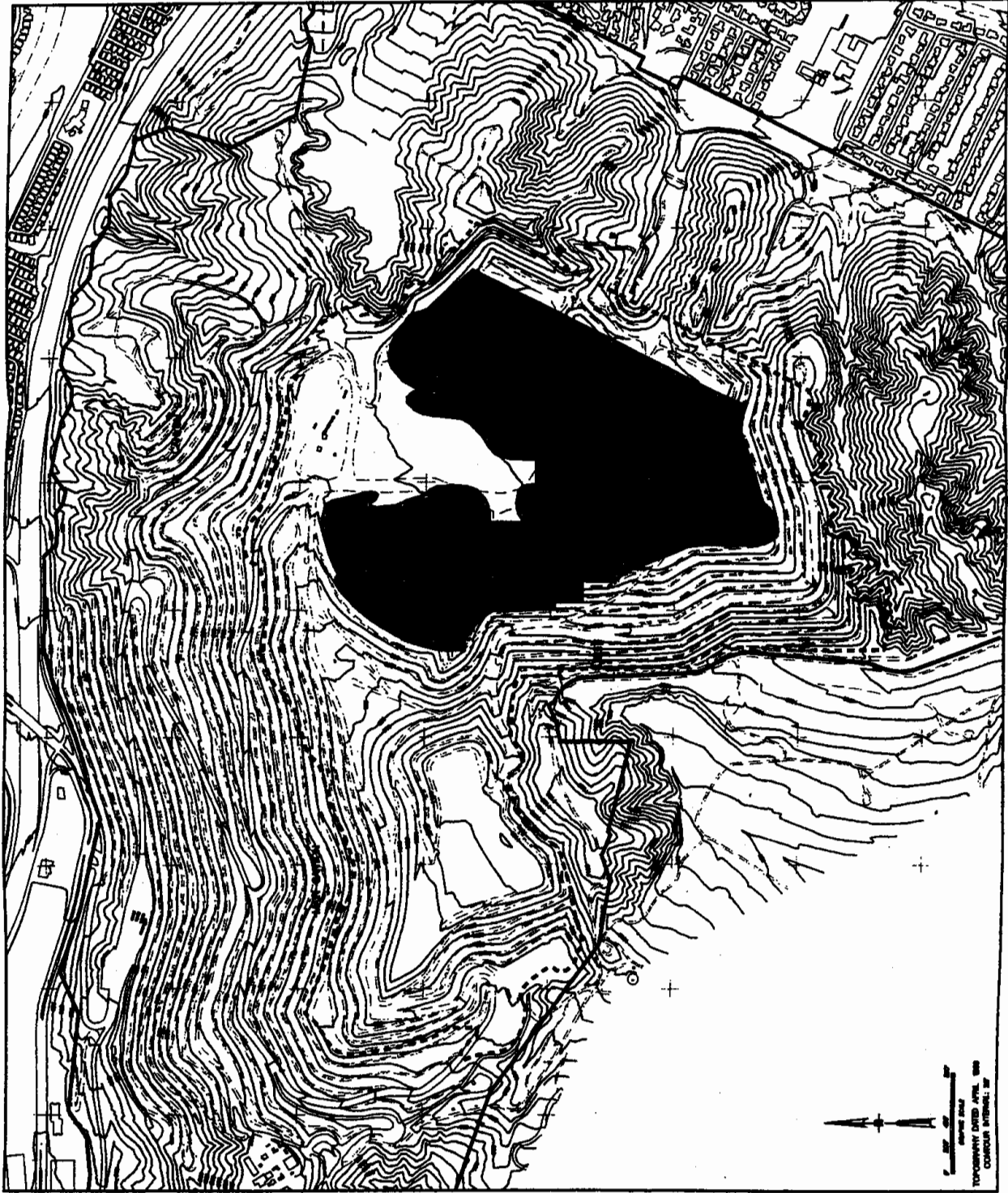


TABLE 1
1999 SOLID WASTE DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Nonhazardous Waste (Tons)	Inert Waste (Tons)	Total (Tons)
January	286,928	47	286,975
February	285,525	13	285,538
March	306,900	40	306,940
April	298,545	67	298,612
May	298,254	63	298,317
June	320,751	52	320,803
July	315,007	15	315,022
August	302,952	25	302,977
September	305,866	55	305,921
October	298,405	23	298,428
November	295,197	73	295,270
December	286,896	66	286,962
Total	3,601,226	539	3,601,765

Note: Nonhazardous waste includes dewatered biosolids and water treatment sludge.

2.2.1 Regional Geologic Setting

The Puente Hills, together with the San Jose Hills, are a topographic extension of the Santa Ana Mountains in the northern end of the Peninsular Ranges geomorphic province. The Puente Hills are underlain by a sequence of upper Cenozoic sedimentary and volcanic rocks, which in turn overlie a basement of Mesozoic plutonic and metamorphic rocks. Exposed in the hills are marine sedimentary rocks of the La Vida, Soquel, Yorba, and Sycamore Canyon members of the Miocene Puente Formation and Repetto and Pico Formations. The Pico Formation is the dominant geologic unit in the Main Canyon and Canyon 9. The Repetto Formation is the dominant geologic unit in the Eastern Canyons.

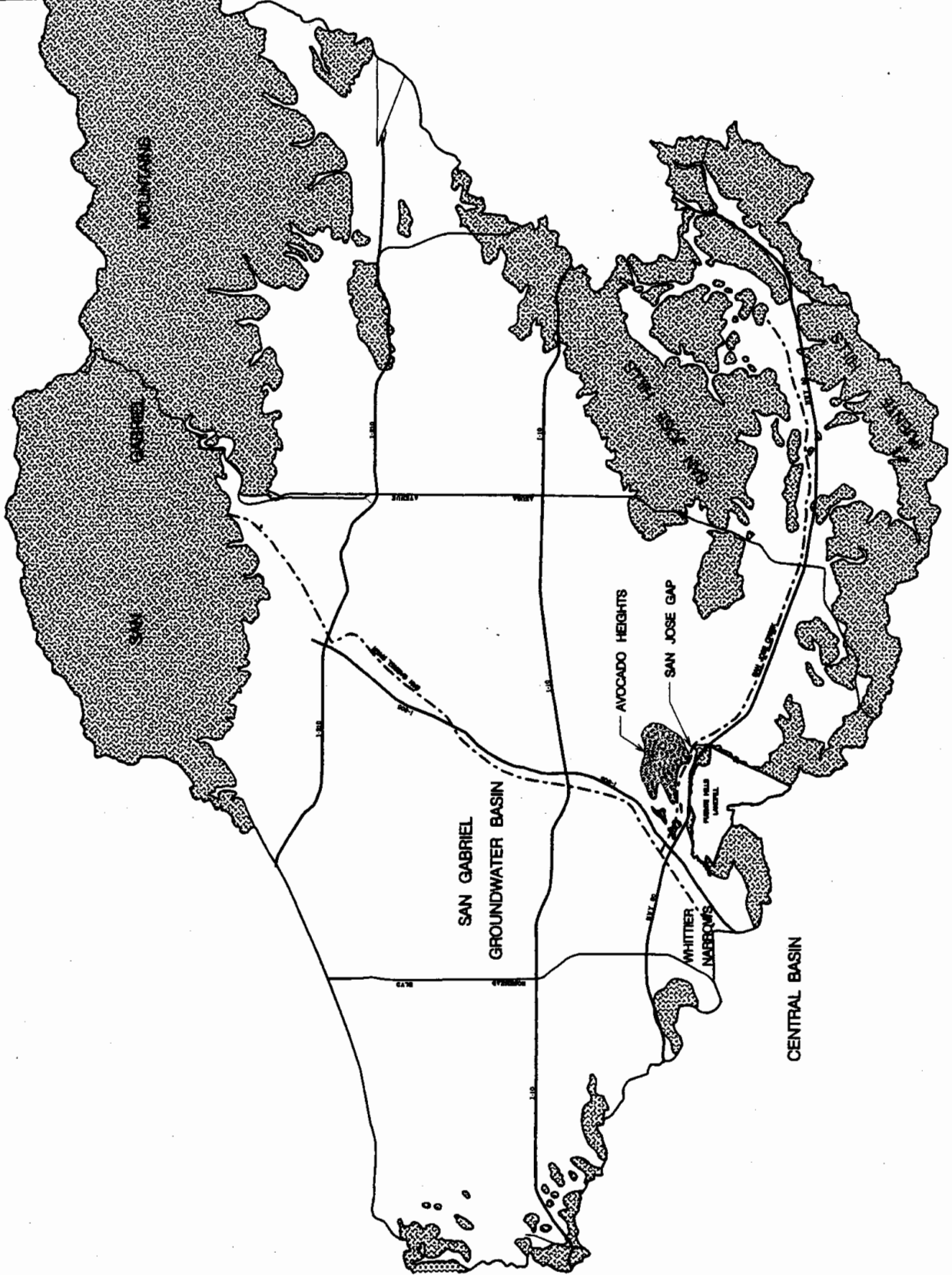
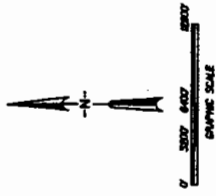
Bedrock structure in the Puente Hills Landfill area is dominated by the north-dipping, northwest-trending Whittier-Elsinore Fault Zone located approximately two miles south of the Puente Hills Landfill. The western portion of the Puente Hills contains two principal northwest-trending anticlinoria. Bedrock exposed at the Main Canyon area is situated along the north-dipping limb of the northern anticlinorium. Several outcrops of the Pico Formation bedrock occur to the north of the Puente Hills Landfill in an area known as the Avocado Heights. The area between Avocado Heights and the site has been referred to as the San Jose Gap. The historical San Jose Creek flowed through the San Jose Gap and deposited alluvial material on the stream bed. Exhibit 4 shows the location of Avocado Heights and San Jose Gap.

2.2.2 Regional Hydrogeology

The Puente Hills Landfill is located on the northern tip of the western Puente Hills, which are part of the Santa Ana Mountains. The western Puente Hills are bounded to the north by flood plain deposits (including San Jose Creek and the San Gabriel Groundwater Basin); to the west by the Whittier Narrows and the San Gabriel River areas; and to the southwest by the Central Basin (see Exhibit 4). It is a major barrier to groundwater flow and separates the San Gabriel Groundwater Basin from the Central Basin. The rocks or geologic units of the western Puente Hills area, which include the Puente Hills Landfill, are considered non-water bearing by the Department of Water Resources because they do not contain or store groundwater in economically recoverable quantities. Natural groundwater found in the western Puente Hills contains high levels of minerals (as measured by total dissolved solids) and metals. Because of the poor natural water quality and limited quantities, this groundwater is not considered to be a suitable drinking water supply. These characteristics make the groundwater found at the Puente Hills Landfill very different from that in the adjacent groundwater basins.

The San Gabriel Groundwater Basin lies beneath approximately 170 square miles of the San Gabriel Valley and is the primary drinking water source for more than one million people in the Los Angeles County. It consists of very permeable sands and gravel originating from the San Gabriel Mountains which are capable of transmitting groundwater at high rates. Recharge to the San Gabriel Groundwater Basin occurs by percolation of rainfall and stream flow, principally from the San Gabriel River, Rio Hondo, and San Jose Creek. Artificial recharge also takes place in the San Gabriel Groundwater Basin. San Gabriel Groundwater Basin discharge occurs by groundwater

- LEGEND**
- HYDROLOGIC BASIN BOUNDARY
 - ▨ LOW PERMEABILITY BEDROCK
 - FREEWAY
 - SAN GABRIEL RIVER



pumping and outflow at the Whittier Narrows area at the southwest corner of the basin. Through the Whittier Narrows gap and San Gabriel River the groundwater from the San Gabriel Groundwater Basin drains into the Central Basin. Exhibit 5 is a July 1997 groundwater elevation contour map which depicts groundwater flow directions in the portion of the San Gabriel Groundwater Basin close to the Puente Hills Landfill. As indicated on Exhibit 5, a major pumping area is located approximately one and a half miles to the northeast, or hydraulically upgradient, of the Puente Hills Landfill.

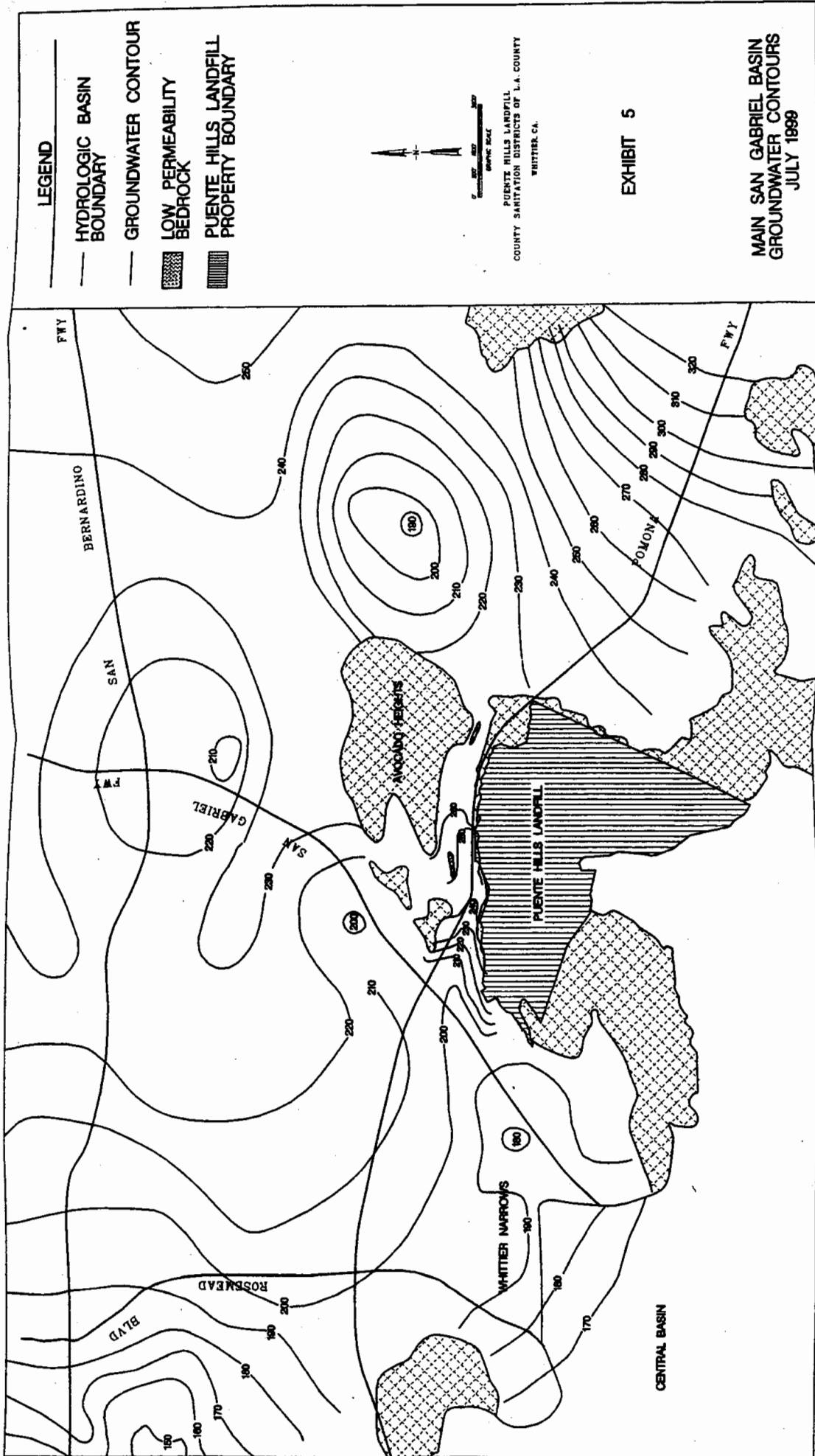
Regional groundwater contamination by volatile organic compounds (VOCs) prompted the United States Environmental Protection Agency (EPA) to place the entire San Gabriel Valley on its National Priorities List (NPL) in 1984. The NPL identifies the highest priority hazardous waste sites in the United States for investigation and cleanup. Sources of the groundwater contamination, according to the EPA, include industries engaged in metal cleaning, coating and manufacturing, chemical product manufacturing, plastics, aerosols, electric component manufacturing, printing, rubber manufacturing, die casting and engineering. The most commonly found VOCs in the basin groundwater are tetrachloroethylene (PCE) and trichloroethylene (TCE). Other VOCs such as 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethylene, and 1,2-dichloroethylene have also been found. Exhibit 6 depicts groundwater contamination in the San Gabriel Groundwater Basin as determined by the EPA.

The low permeability material of Avocado Heights provides a natural barrier for any onsite groundwater at the Puente Hills Landfill to flow into the San Gabriel Groundwater Basin to the north. The most significant groundwater system near the Main Canyon is in the San Jose Gap between Avocado Heights and the landfill. The San Jose Gap consists of a veneer of 50 to 60 feet of alluvial sediments within the historical San Jose Creek. Exhibit 7 shows the extent of saturated alluvial sediments that is greater than 10 feet thick in the San Jose Gap. As shown in this exhibit, groundwater in this system flows in a westerly direction towards Whittier Narrows. The groundwater elevations observed for the Main Canyon area for 1999 were similar to those shown in Exhibit 7 for September 23, 1997 indicating that the groundwater flow direction has not changed since 1997.

2.2.3 Site Geology

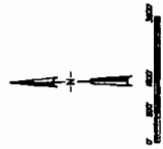
As described above, three general landfill areas are located at the Puente Hills Landfill: the Main Canyon, Canyon 9, and the Eastern Canyons. Prior to landfilling activities, several canyons oriented toward the north, existed in the Main Canyon and Canyon 9 areas as shown in Exhibit 8. Similarly, several east trending canyons existed in the Eastern Canyons area prior to landfilling as shown in Exhibit 9.

The landfill site is underlain by a thick sequence of north-northwest dipping sedimentary marine bedrock units. Exhibit 10 shows the general geologic conditions of the entire site. Unconsolidated surficial deposits which can be found overlying bedrock units at the site include artificial fill, alluvium, colluvium, and landslides which typically occur on north facing slopes due to the predominant north dipping bedrock. The distribution of surficial deposits has been modified as a result of grading operations associated with landfill development. Within the Eastern Canyons



LEGEND

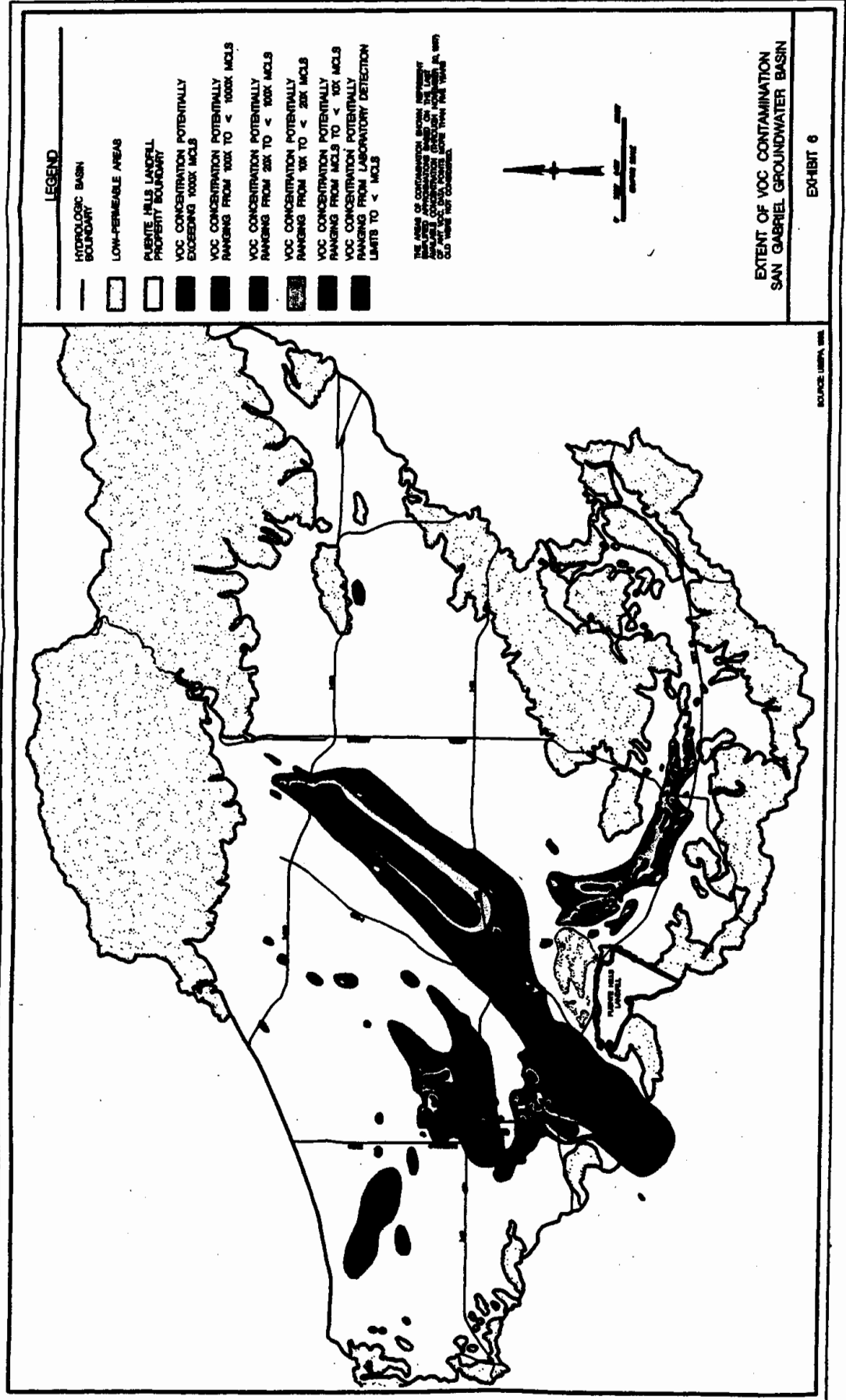
- HYDROLOGIC BASIN BOUNDARY
- GROUNDWATER CONTOUR
- ▨ LOW PERMEABILITY BEDROCK
- ▨ PUENTE HILLS LANDFILL PROPERTY BOUNDARY



PUENTE HILLS LANDFILL
 COUNTY SANITATION DISTRICTS OF L.A. COUNTY
 WHITTIER, CA.

EXHIBIT 5

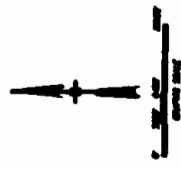
MAIN SAN GABRIEL BASIN
 GROUNDWATER CONTOURS
 JULY 1989



LEGEND

- HYDROLOGIC BASIN BOUNDARY
- LOW-PERMEABLE AREAS
- PUENTE HILLS LANDFILL PROPERTY BOUNDARY
- VOC CONCENTRATION POTENTIALLY EXCEEDING 100X MCLS
- VOC CONCENTRATION POTENTIALLY RANGING FROM 100X TO < 1000X MCLS
- VOC CONCENTRATION POTENTIALLY RANGING FROM 20X TO < 100X MCLS
- VOC CONCENTRATION POTENTIALLY RANGING FROM 10X TO < 20X MCLS
- VOC CONCENTRATION POTENTIALLY RANGING FROM MCLS TO < 10X MCLS
- VOC CONCENTRATION POTENTIALLY RANGING FROM LABORATORY DETECTION LIMITS TO < MCLS

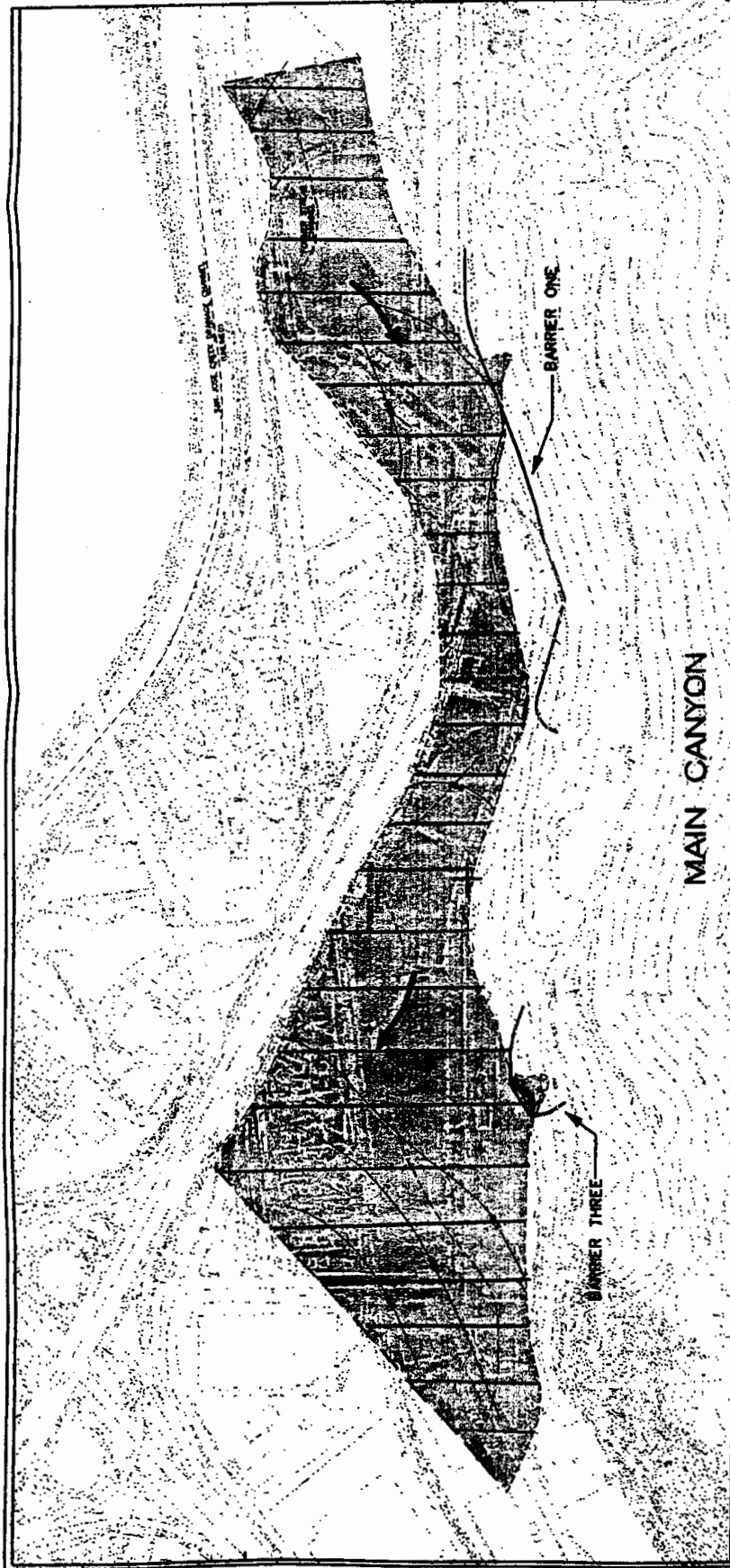
THE AREAS OF CONTAMINATION SHOWN REPRESENT INDICATED APPROXIMATIONS BASED ON THE USE OF AVAILABLE DATA FROM GROUNDWATER MONITORING. OLD WASTE MUST BE IDENTIFIED.



**EXTENT OF VOC CONTAMINATION
SAN GABRIEL GROUNDWATER BASIN**

EXHIBIT 6

SOURCE: USFWS, 1984



Subsurface Barrier

Approximate Location of Saturated Alluvium Greater Than 10 Feet

Water Level Elevation 9/23/1997

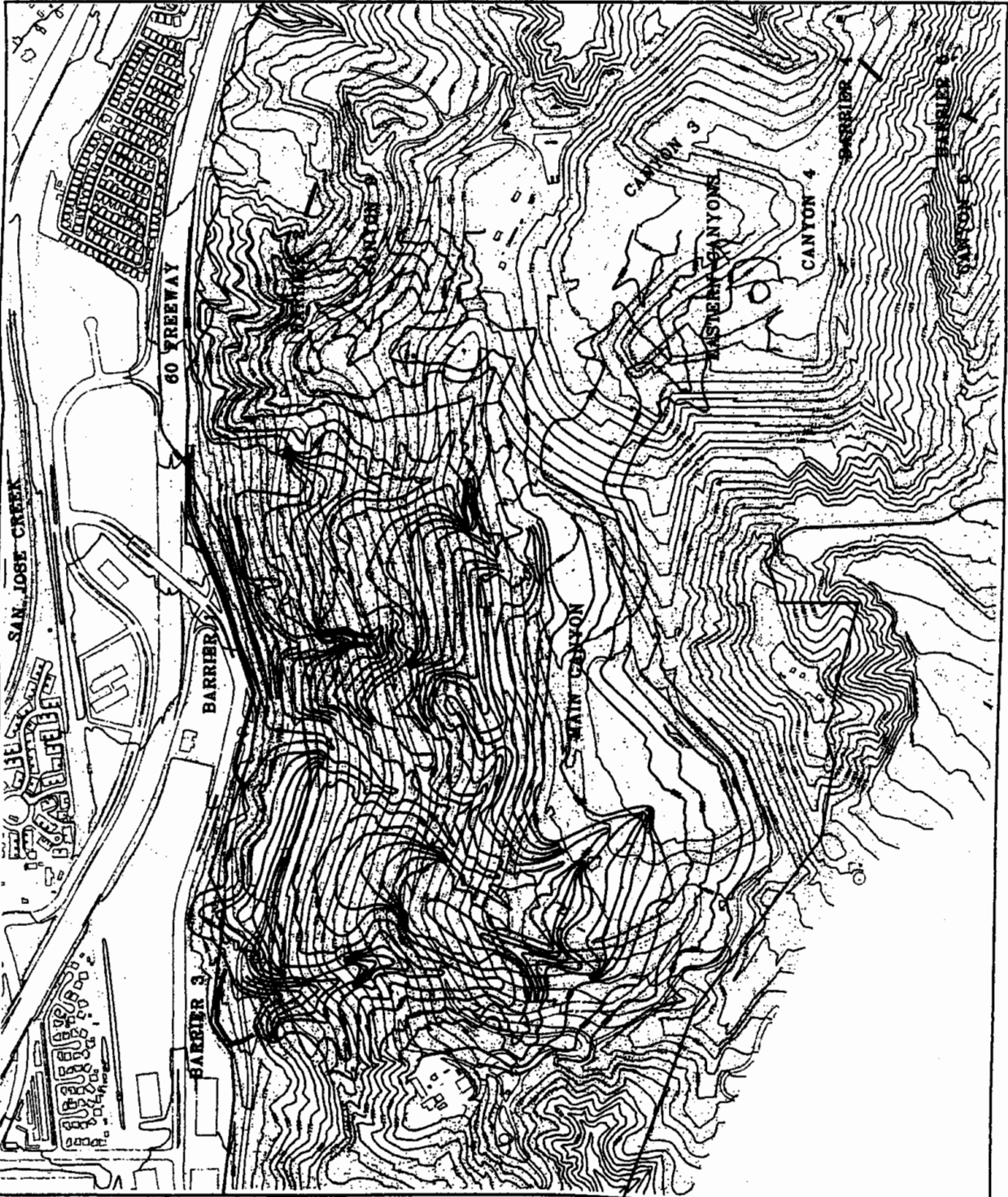
Property Line

SCALE

0 100 200 300 400 500 600 700 800 900 1000

GROUNDWATER FLOW PATH IN THE SAN JOSE GAP

EXHIBIT 7



LEGEND

PROPERTY LINE

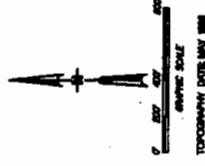


EXHIBIT 8

MAIN CANYON AND CANYON 9
TOPOGRAPHY PRIOR TO EXCAVATION

PLANTE HILLS LANDCELL
SANITATION DISTRICTS

LEGEND



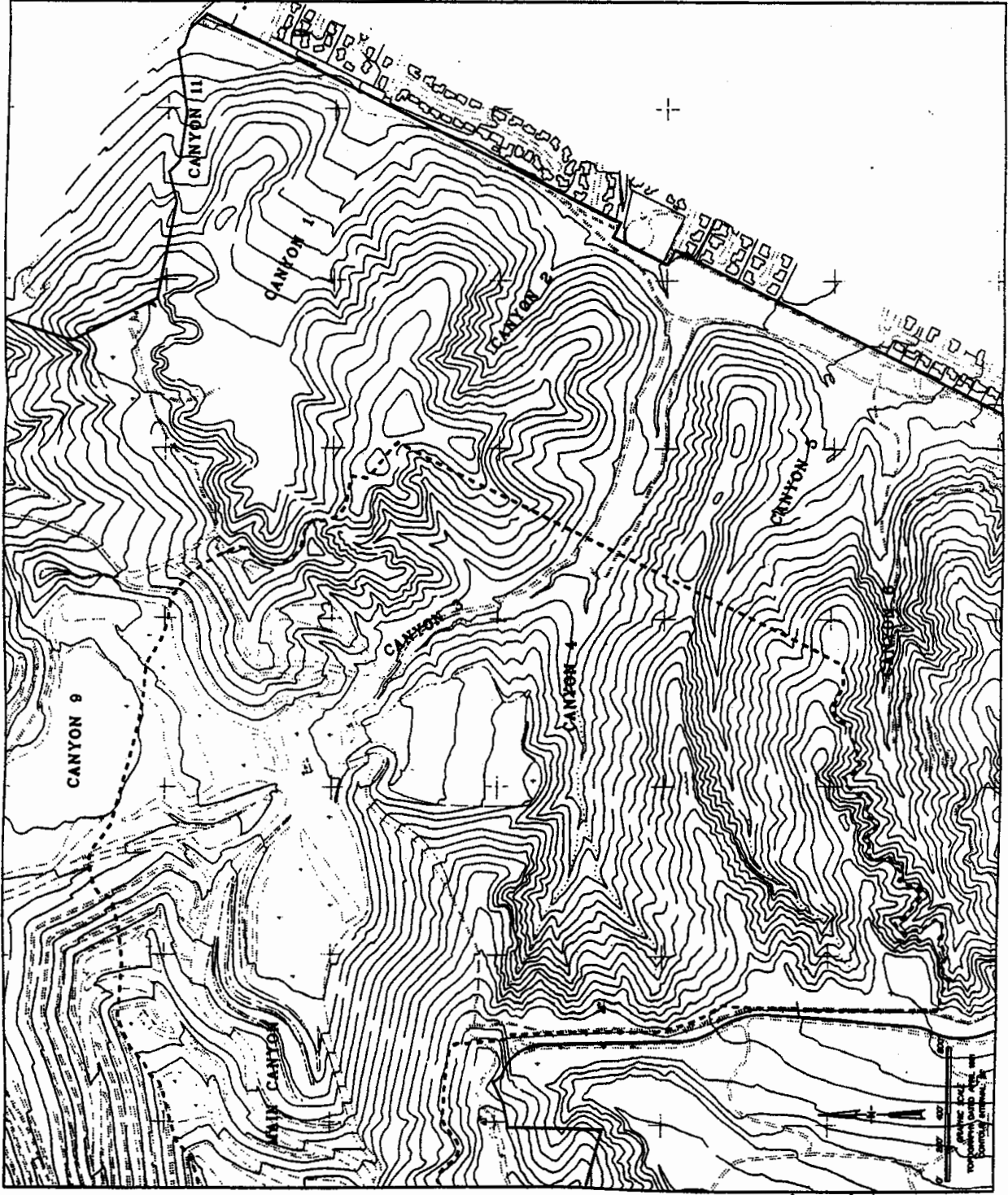
-  PROPERTY LINE
-  PERMITTED LANDFILL OPERATIONS AREA

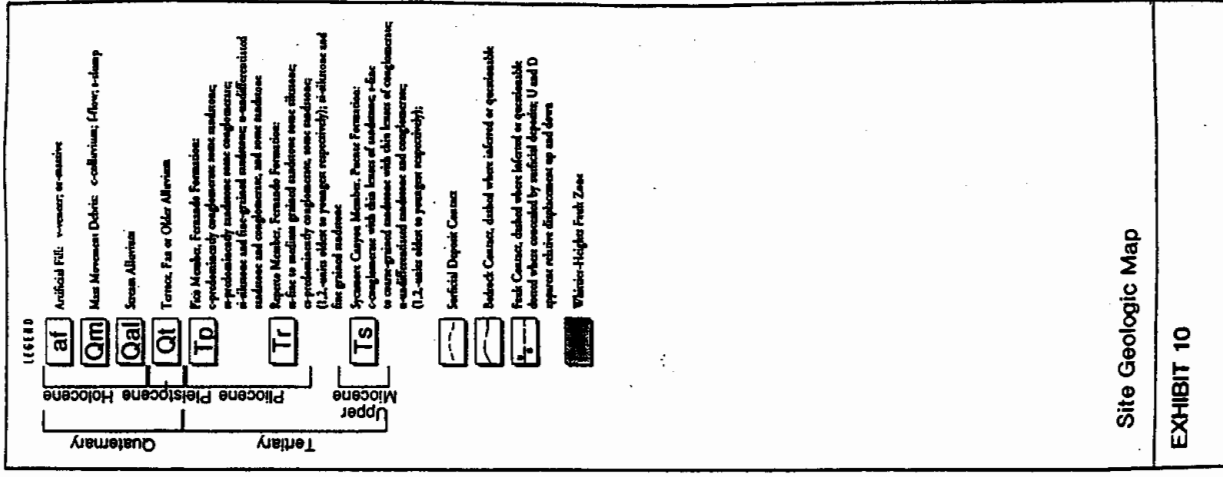
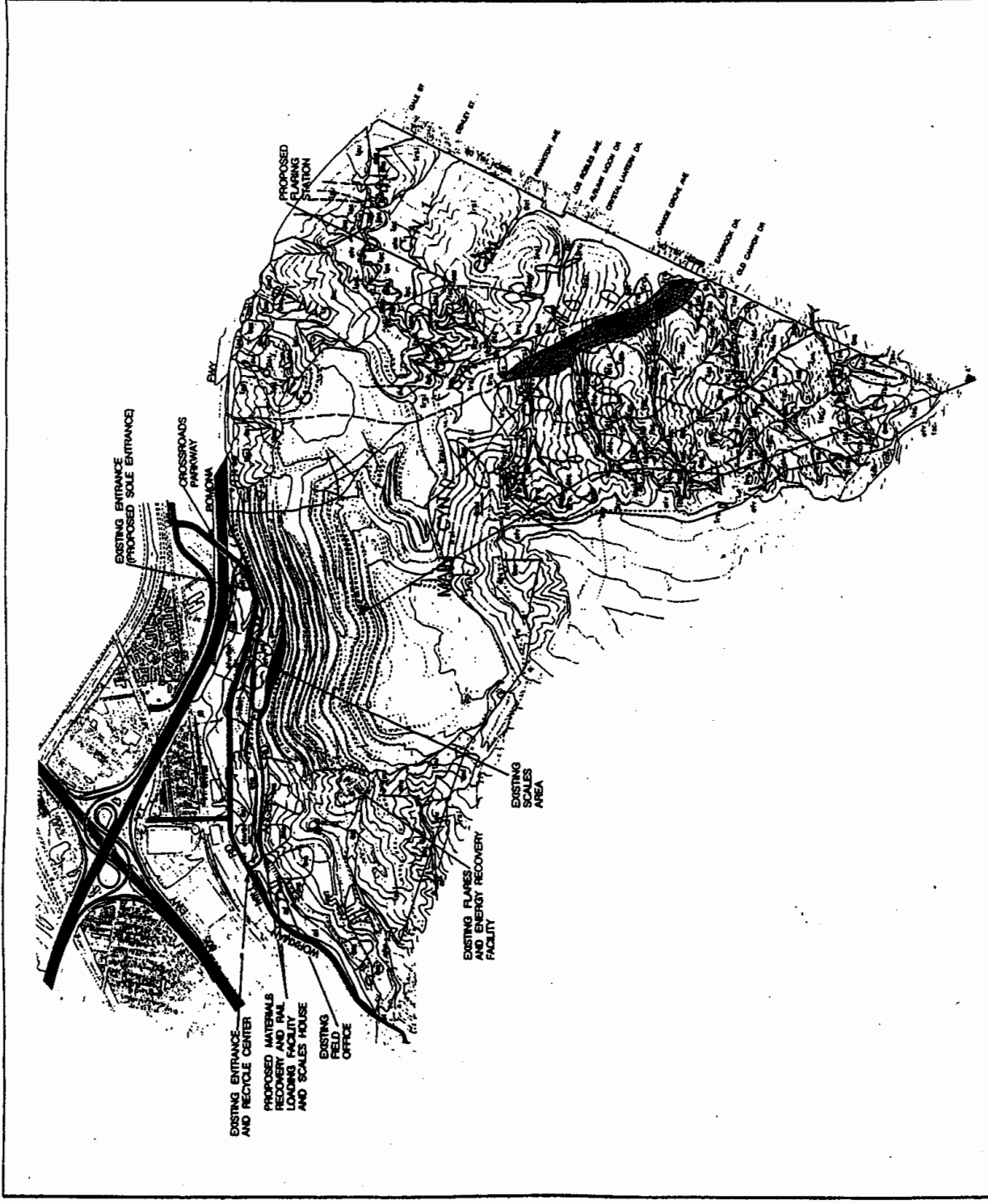
EXHIBIT 9

EASTERN CANYONS TOPOGRAPHY PRIOR TO EXCAVATION

FUENTE HILLS LANDFILL
SANTITON DISTRICTS



m Wm/hph/sgs v-c-h.dgn



Site Geologic Map

EXHIBIT 10

and Canyon 9 areas, surficial deposits and underlying bedrock have been excavated to provide a suitable foundation for the construction of the underdrain and composite liner containment systems. Narrow alluvial channels outside the landfill's footprint remain generally unaltered.

From oldest to youngest, the bedrock units found at the site consist of the Sycamore Canyon member of the Puente Formation, and the Repetto and Pico members of the Fernando Formation. The Sycamore Canyon member outcrops in the southern portion of the Eastern Canyons and includes three subunits which are designated as: lower conglomerate (Tsc₁), siltstone and claystone with minor sandstone interbeds (Tss), and upper conglomerate (Tsc₂). The Repetto member outcrops in the central portion of the Eastern Canyons and underlies the southern portions of Canyon 9 and the Main Canyon. The Repetto member includes three subunits: a lower conglomerate unit (Trc₁), a siltstone unit (Trsi), and an upper conglomerate unit (Trc₂). Within the Trsi subunit, there are two small subunits (Trss₁ and Trss₂) that have distinct sandstone beds. The Pico member occurs at the surface in the northern portion of the site and underlies landfill material in the northern portion of the Main Canyon and Canyon 9. Stratigraphically, the Pico Formation bedrock consists of, from top to bottom, five subunits: upper siltstone (Tpsi_u), undifferentiated conglomerate and sandstone (Tpu), lower siltstone (Tpsi_l), sandstone (Tps), and basal conglomerate (Tpc). A small block of Pico member sandstone has also been mapped in the central portion of the Eastern Canyons area within the Whittier Heights fault zone. The Pico member in the Eastern Canyons area, where exposed, has been mapped as an undifferentiated subunit.

Bedrock units have been displaced by the Whittier Heights fault zone that transects the eastern portion of the property and is the major structural feature of the site. The northwest-trending Whittier Heights Fault is a normal fault with the east side downthrown. Maximum vertical displacement on the fault is 3,800 feet. There has been no recent movement (within the last 11,000 years) on the fault within the site boundary. Secondary and apparently less continuous faulting is found elsewhere throughout the area on similar, generally north-south trends. As-built mapping in the northern portion of the Eastern Canyons demonstrates that the main strand of the Whittier Heights zone is a narrow trace of slickensided clay gouge where Repetto member siltstone is on both sides of the fault. This trace widens southward into several splays in the ridge between Canyons 4 and 5, where it apparently incorporates slivers of the Pico member of the Fernando Formation between juxtaposed upper and lower portions of the Repetto member of the Fernando Formation. Investigations performed by the Sanitation Districts' consultants indicate that portions of the Whittier Heights fault zone may impede groundwater flow in the expansion area.

2.2.4 Site Hydrogeology

Groundwater flow regimes at the site have been characterized by Levine Fricke (1994), Earth Tech (1995), ENVIRON Corporation (1996), IT Corporation (1996), Dames and Moore (1997), and IT Corporation (1998). Results obtained from these studies have been used to update the hydrogeologic description of the site previously contained in Geotechnical Consultants (1987) and LeRoy Crandall (1981). As mentioned earlier, although the groundwater system found at the Puente Hills Landfill can hardly be characterized as "aquifers" due to its low yield, the term "aquifer" is used in the following discussion to conform with the terminologies in Subtitle D and in Title 27, California Code of Regulations.

2.2.4.1 Main Canyon

As mentioned earlier, the Main Canyon portion of the Puente Hills Landfill consists of four original canyons that are oriented toward the north. The Sanitation Districts installed two cement bentonite subsurface barriers (Barriers 1 and 3) along the north site boundary to sever all historic drainage in the alluvium. Exhibit 8 shows the original topography of the Main Canyon and locations of Barriers 1 and 3. The area between Barriers 1 and 3 is a low permeability bedrock ridge and is therefore not a significant groundwater flow pathway.

The Barrier 1 area is underlain by unconsolidated fill, alluvium, and Pico Formation siltstone, sandstone, and conglomerate. The thickness of alluvium increases along the thalwegs of three historic drainage channels which were cut off by Barrier 1. Generally, bedrock units strike northeast to northwest, dipping to the northwest to northeast from 5 to 46 degrees, however, dips between 20 and 35 degrees are more common.

Unweathered Pico Formation siltstone acts as an aquitard to groundwater flow in the Barrier 1 area. The mean hydraulic conductivity of unfractured, unweathered Pico Formation siltstone is 1.5×10^{-7} (laboratory test) and 7.3×10^{-7} (packer test) centimeters per second (cm/sec). Groundwater flow at Barrier 1 is controlled by the occurrence and distribution of coarse grained and weathered fill, alluvium and bedrock units. Fractures are not a significant mechanism of groundwater transport in the area.

The uppermost aquifer in the westernmost 700 feet of Barrier 1 occurs under unconfined conditions in fill and weathered siltstone. It has a mean hydraulic conductivity of 6.3×10^{-4} cm/sec, average transmissivity of 493 gallons per day per foot (gpd/ft), and storativity between 1.5×10^{-3} and 5.8×10^{-3} . The uppermost aquifer is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow. Deeper sandstone lenses within the unweathered siltstone also contain limited amounts of groundwater under confined or semiconfined conditions which are hydraulically connected to the uppermost aquifer. Water levels in general indicate an upward hydraulic gradient from lower to upper saturated zones.

The uppermost aquifer in the next 1,150 feet of the Barrier 1 area occurs in fill, alluvium and weathered siltstone under unconfined condition. The aquifer is not productive based on pumping test results conducted by the Sanitation Districts' consultant. It is confined below by unweathered Pico Formation siltstone which acts as an aquitard to groundwater flow.

In the easternmost 550 feet of the Barrier 1 area, the uppermost aquifer occurs in sandstone and conglomerate units of the Pico Formation. This aquifer appears to be unconfined, however, semiconfined conditions may exist. The hydraulic conductivity of the uppermost aquifer ranges from 1.1×10^{-4} to 1.8×10^{-3} cm/sec, and the average transmissivity ranges from 857 to 5,400 gpd/ft. This aquifer is confined below by the lower siltstone subunit which was encountered at approximately 220 feet below ground surface. An upward hydraulic gradient exists in the uppermost aquifer, i.e., groundwater in the conglomerate unit tends to rise up to the overlying alluvium.

The alluvium represents a potential pathway for groundwater in the uppermost aquifer in the Barrier 1 area to migrate offsite into the San Jose Gap immediately north of the site. Groundwater flow velocity in the San Jose Gap is estimated to range from 0.6 to 19 feet per year (ft/yr) immediately north of the eastern Barrier 1 area, and from 1.4 to 67 ft/yr immediately north of the western Barrier 1 area.

The uppermost aquifer at Barrier 3 occurs in the sand and silty sand alluvium under confined conditions. The uppermost aquifer is approximately 50 feet from ground surface and has a mean hydraulic conductivity of 7.7×10^{-3} cm/sec. It is confined above by alluvial silts and clays and below by Pico Formation siltstone. The hydraulic conductivity values for both of these materials are very low (in the 10^{-6} cm/sec range). Pumping tests show that the barrier and groundwater extraction system are effective in controlling landfill affected groundwater from migrating offsite.

Similar to western Barrier 1, groundwater downgradient of Barrier 3 is connected to the alluvial groundwater in the historical San Jose Creek stream bed which continues to move towards Whittier Narrows to the west. In this portion of the channel, the groundwater flow velocity is estimated to range from 8 to 81 feet per year.

2.2.4.2 Canyon 9

The Canyon 9 area is underlain by unconsolidated fill, alluvium, and Pico Formation siltstone, sandstone, and conglomerate. The uppermost aquifer occurs in sandstone and conglomeratic sandstone units under confined or semiconfined conditions. The groundwater flow direction in Canyon 9 is toward the northeast. The uppermost aquifer has a mean hydraulic conductivity of 1.9×10^{-4} cm/sec and an average transmissivity of 60 gpd/ft. The uppermost aquifer is confined above and below by Pico Formation siltstone, which acts as an aquitard to groundwater flow in this area. The Pico Formation siltstone has a hydraulic conductivity less than 4.9×10^{-6} cm/sec.

2.2.4.3 Eastern Canyons Area

In general, groundwater encountered in the Eastern Canyons area flows in a pattern which mimics surface topography. Water elevation data collected from this area fit this pattern, which shows groundwater flowing from ridges towards canyons. Thus, most rainfall which infiltrates to the bedrock across the Eastern Canyons will subsequently flow toward and discharge to canyon alluvium. Some groundwater may flow toward canyons but remain within bedrock units beneath canyon alluvium as it travels downgradient.

The Canyons 3 and 4 area is underlain by artificial fill, alluvium, and bedrock of the Repetto member of the Fernando Formation. The Repetto member of the Fernando Formation consists predominantly of siltstone. The uppermost aquifer occurs in alluvium and weathered bedrock under unconfined conditions. The thickness of the alluvium at the confluence of Canyons 3 and 4 near Barrier 4 is approximately 40 feet. The depth of the weathered bedrock near Barrier 4 ranges from 4 to 22 feet. The hydraulic conductivity values for the alluvium and weathered bedrock in Canyons 3 and 4 vary from approximately 10^{-3} to 10^{-6} cm/sec with a geometric mean value of 1.3×10^{-3}

cm/sec. The alluvium/weathered bedrock near Barrier 4 is underlain by Repetto member siltstone. Slug testing results indicate that the Repetto member siltstone has a geometric mean hydraulic conductivity of 1.5×10^{-6} cm/sec.

The Canyon 5 area is underlain by alluvium, landslide deposits, and Sycamore Canyon member sandstone and siltstone. The uppermost aquifer occurred under unconfined conditions within the landslide deposits and the weathered horizon of the Sycamore Canyon bedrock underlying the alluvium. In the vicinity of Barrier 5, the alluvium and landslide deposits are approximately 20 feet thick. The depth of weathered bedrock in this area ranges from 25 to 40 feet. The geometric mean value for the hydraulic conductivity of the weathered bedrock is 4.7×10^{-5} cm/sec. The alluvium/weathered bedrock near Barrier 5 is underlain by Sycamore Canyon member sandstone and siltstone. Slug testing results indicate that the Sycamore Canyon member sandstone and siltstone has a geometric mean hydraulic conductivity of 4.8×10^{-6} cm/sec.

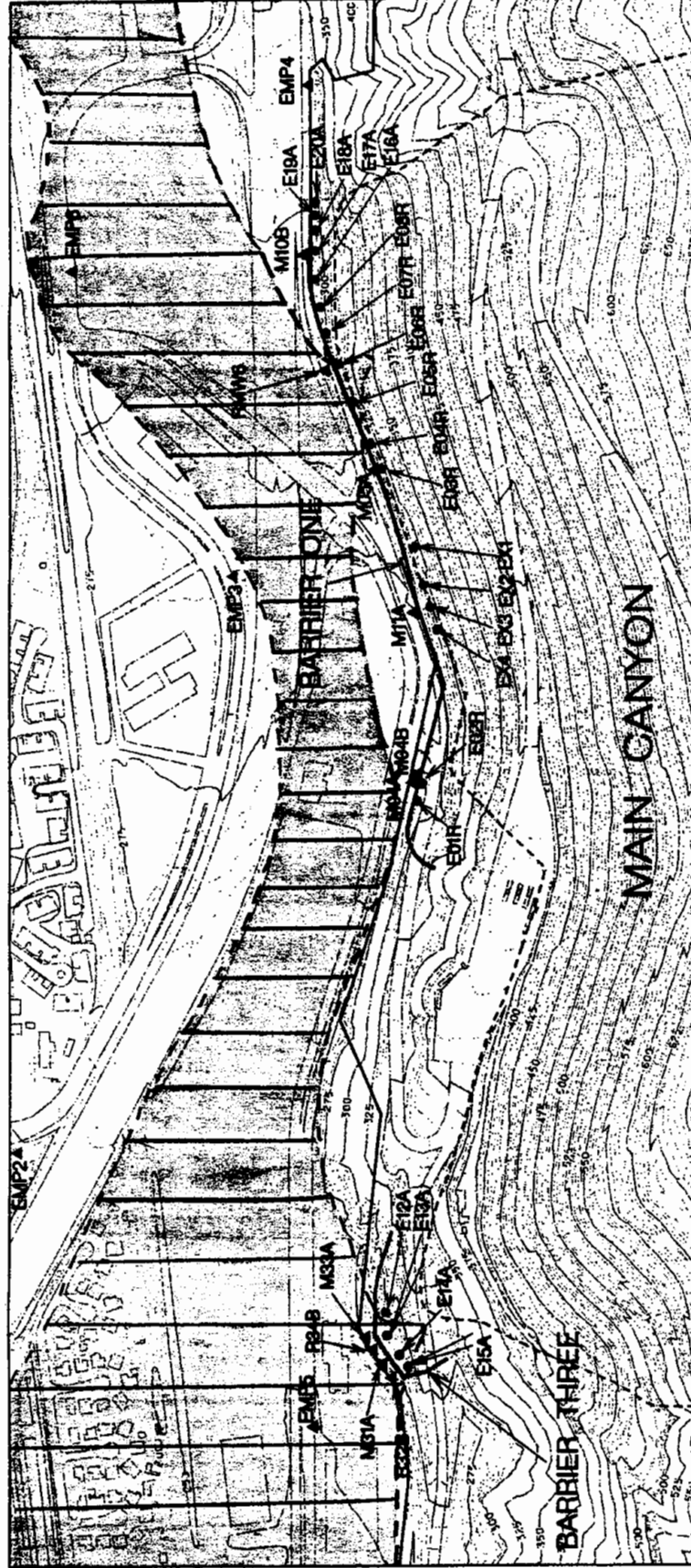
2.3 WATER QUALITY PROTECTION SYSTEMS

The water quality protection systems currently in place at the Puente Hills Landfill include five cement bentonite subsurface barrier and groundwater extraction systems, and two composite liner systems. The purpose for the water quality protection systems is to mitigate the potential for any landfill affected groundwater to migrate offsite. The water protection systems for each of the landfill areas are discussed below.

Main Canyon

The groundwater protection systems currently installed at the Main Canyon include Barriers 1 and 3 and their corresponding extraction systems. Upgradient of each barrier, the Sanitation Districts have installed extraction wells to collect groundwater that builds up against the barriers. Extraction wells are designed to have overlapping zones of influence in areas where potential migration pathways have been identified and are operated to create hydraulic low points. Together, the passive barrier and active extraction wells form a groundwater containment feature that effectively controls any offsite migration of groundwater. Groundwater monitoring wells have been installed downgradient of Barriers 1 and 3 to monitor groundwater quality. Exhibit 11 shows the locations of groundwater extraction wells and monitoring wells downgradient of the Main Canyon at Barriers 1 and 3.

Subsurface Barrier 1 was installed in 1980 by Bencor Corporation of America. The Sanitation Districts commissioned LeRoy Crandall and Associates to develop design depths for the barrier system and to perform third party construction quality assurance (CQA) for the installation of the barrier. The barrier was designed and installed into bedrock to cut off alluvial pathways which could serve as a potential conduit for migration from the landfill. The design hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec. The design and construction of Barrier 1 was approved by the RWQCB and the State Water Resources Control Board under a Federal Clean Water Grant.



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SUBSURFACE BARRIERS, EXTRACTION
WELLS, AND MONITORING WELLS

EXHIBIT 11

A total of 17 extraction wells have been installed to remove canyon water that collects upgradient of Barrier 1. In 1998, eight of the original Barrier 1 extraction wells were replaced with new wells to reduce maintenance and ensure optimal performance. In 1999, extraction well E20A was installed at the eastern end of Barrier 1 to serve as a backup extraction well for the existing groundwater extraction system already in place for this area. The RWQCB approved the installation of extraction well E20A in a letter dated August 11, 1999. The extraction well was installed in October 1999, and groundwater extraction from the well began in December 1999. Typically, the combined total production from these 17 wells is approximately 13 gallons per minute (gpm). The highest flow from a single well is usually about three gpm. This relatively low yield is characteristic of the uppermost aquifer system within the Main Canyon. In comparison, a single production well in the San Gabriel Groundwater Basin typically yields between 700 to 2,500 gpm.

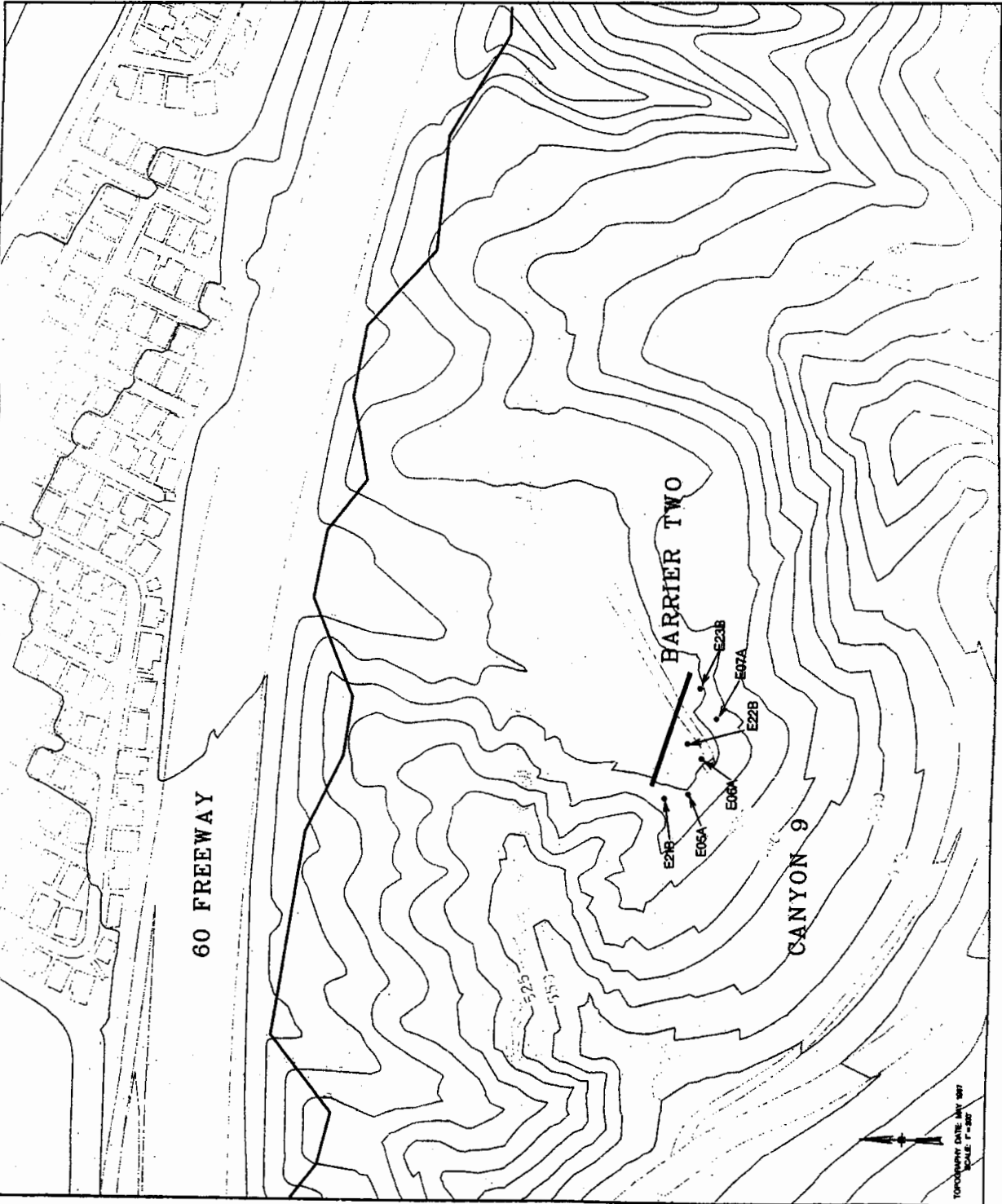
Subsurface Barrier 3 was installed in 1993 by Foster Wheeler Environmental Services. The Sanitation Districts retained the Earth Technology Corporation to perform third party construction quality assurance for the installation of the barrier. The barrier was installed at least five feet into unweathered bedrock to cut off potential alluvial and weathered bedrock pathways. The hydraulic conductivity of the subsurface barrier is less than 1×10^{-6} cm/sec.

Barrier 3 is equipped with four extraction wells to remove water that collects upgradient of the barrier. The combined total flow from these four extraction wells is approximately 12 gpm. Again, these wells are low yielding in comparison to the production wells in the San Gabriel Groundwater Basin.

Canyon 9

The groundwater protection systems currently installed at Canyon 9 include Barrier 2 with its corresponding extraction system and a composite liner system. Alluvial materials in the original Canyon 9 area have the potential for groundwater outflow (see Exhibit 8 for topography prior to excavation). Although no significant alluvial groundwater occurs in the Canyon 9 area, Barrier 2 was installed to sever potential alluvial flow in the historic drainage in this area. Barrier 2 is equipped with six groundwater extraction wells to remove water from behind the barrier. Exhibit 12 shows the location of Barrier 2 and the extraction wells upgradient of this barrier.

Subsurface Barrier 2 was installed in 1988 by Case International. The Sanitation Districts commissioned Geofon Incorporated to perform third party construction quality assurance for the barrier installation. The barrier was designed and installed at least five feet into unweathered bedrock to cut off any potential alluvial pathways. Six extraction wells have been installed upgradient of Barrier 2. Three of the extraction wells are screened in the alluvium and have observed no water since installation in 1988. The other three extraction wells are screened in the bedrock formation. The RWQCB approved the installation of these three bedrock wells in a letter dated April 21, 1998. These bedrock extraction wells were installed in August of 1998, and groundwater extraction from the wells began in October 1998.



LEGEND




-  PROPERTY LINE
-  EXISTING SUBSURFACE BARRIER
-  MONITORING WELL

EXHIBIT 12

**CANYON 9
EXISTING SUBSURFACE BARRIER
AND EXTRACTION WELL SYSTEM**

PUENTE HILLS LANDFILL
SANITATION DISTRICTS

A composite liner system was installed in the Canyon 9 area in 1989 and 1990 prior to refuse placement in Canyon 9. The floor of the Canyon 9 composite liner system consists of the following components: subdrain, clay liner (minimum one foot thick with a hydraulic conductivity of less than 1×10^{-6} cm/sec), geomembrane liner (80 mil high density polyethylene), liquid collection and removal system (LCRS), geotextile filter, and protective soil layer. The side slope of the Canyon 9 composite liner system consists of the following components: geomembrane liner, geotextile, and protective soil layer. These components, together, effectively prevent landfill affected liquid from entering the underlying strata. All components of the Canyon 9 composite liner system were subjected to rigorous quality assurance tests to ensure that all materials used met the design criteria and specifications. The design specifications for each phase of the liner system were approved by the RWQCB prior to construction. The construction quality assurance for each phase of the liner system was performed by an independent consultant. The RWQCB inspected and approved each liner system before waste placement.

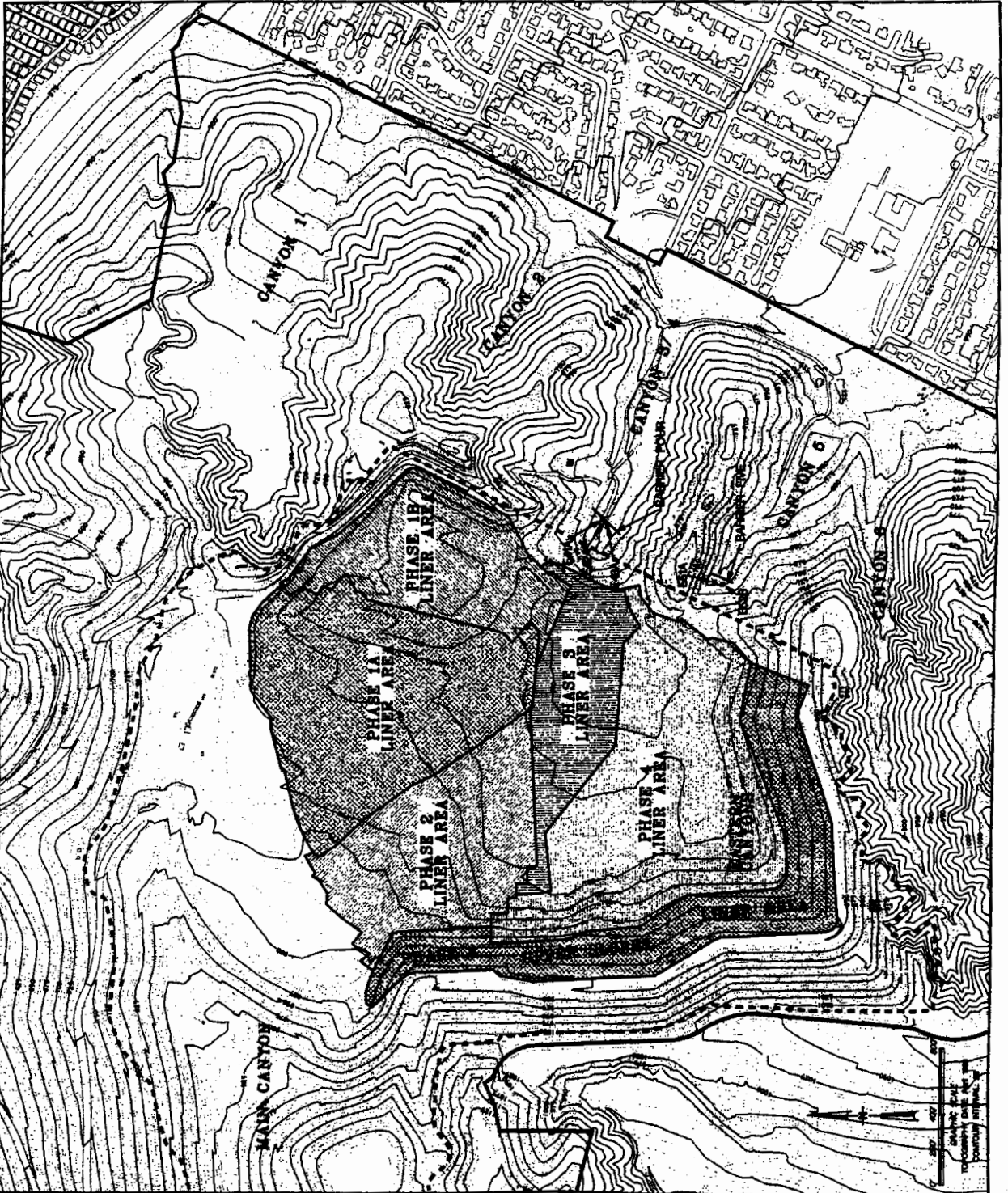
Eastern Canyons

The groundwater protection systems currently installed at the Eastern Canyons include Barriers 4 and 5 with their corresponding extraction systems and a composite liner system. A number of canyons existed in the Eastern Canyons area prior to grading modifications and landfill development (see Exhibit 9). Before landfilling activities commenced in Canyons 3 and 4, the Sanitation Districts installed subsurface Barrier 4 to control alluvial groundwater flow. As landfill development proceeded to the south, subsurface Barrier 5 was installed to control potential alluvial groundwater flow in Canyon 5. Groundwater monitoring wells have been installed downgradient of Barriers 4 and 5 to monitor groundwater quality. These monitoring wells are discussed in Section 3.2.

Subsurface Barrier 4 was installed in 1995 by Clarke Contracting Corporation. The Sanitation Districts commissioned Earth Tech, Inc. to perform geologic observation and construction quality assurance services for the installation of the barrier. The barrier was designed and installed at least five feet into unweathered bedrock to cut off potential alluvial and weathered bedrock pathways. Three groundwater extraction wells were installed upgradient of Barrier 4 to remove water from behind the barrier.

Subsurface Barrier 5 was installed in late 1998 by Wiley Construction Company. The Sanitation Districts commissioned Knollwood Associates to perform geologic observation and construction quality assurance services for the installation of the barrier. The barrier was designed and installed at least five feet into unweathered bedrock to cut off potential alluvial and weathered bedrock pathways. No groundwater has been observed in the alluvium. Two groundwater extraction wells were installed upgradient of Barrier 5 in the first quarter of 1999. Since their installation, no water has been collected from these two extraction wells because the wells are either dry or have a limited water column for extraction.

The composite liner system for the Eastern Canyons area is being installed in phases. The existing liner areas for the Eastern Canyons area are shown in Exhibit 13 and include Phase 1A, Phase 1B, Phase 2, Phase 3, Phase 4, and Phase 4 upper slopes. The installation of the Phase 4 liner



LEGEND




-  PROPERTY LINE
-  PERMITTED LANDFILL OPERATION AREA
-  EXTRACTION WELL

EXHIBIT 13

**EASTERN CANYONS LANDFILL AREA
EXISTING SUBSURFACE BARRIERS
AND EXTRACTION WELL SYSTEMS**

PLUENTE HILLS LANDFILL
SANITATION DISTRICTS

was completed in 1998 and the installation of the Phase 4 upper slopes was completed in 1999. The design specifications for the Eastern Canyons composite liner system exceed the Subtitle D requirements described in RWQCB Order No. 93-062. The floor of the Eastern Canyons composite liner system consists of the following components: subdrain, clay liner (minimum two foot thick with a hydraulic conductivity of less than 1×10^{-7} cm/sec), geomembrane liner (80 mil high density polyethylene), LCRS, geotextile filter, and protective soil layer. The side slope of the Eastern Canyons composite liner system consists of the following components: geosynthetic clay liner, geomembrane liner, geosynthetic drainage layer, geotextile filter, and protective soil layer. The design specifications for each phase of the liner system were approved by the RWQCB prior to construction. The construction quality assurance for each phase of the liner system was performed by an independent consultant. The RWQCB inspected and approved each liner system before waste placement.

3.0 COMPLIANCE RECORD

RWQCB Order No. 93-062, §13(B)(2)(c) requires a comprehensive discussion of the compliance record, and of any corrective actions taken or planned which may be needed to bring the discharger into full compliance with the landfill's waste discharge requirements. As discussed in Section 1.0, operations at the Puente Hills Landfill follow the conditions specified in various waste discharge requirements and monitoring and reporting programs issued by the RWQCB. In 1999, the Sanitation Districts were in full compliance with these conditions. This section discusses the Sanitation Districts' compliance with these operating conditions.

The requirements in various permits issued by the RWQCB that are applicable to the operations of the Puente Hills Landfill during 1999 can be summarized into three major categories: landfill operations, water quality monitoring and response program, and containment systems. The Sanitation Districts' compliance with these conditions in 1999 is discussed below:

3.1 LANDFILL OPERATIONS

During 1999, the Puente Hills Landfill accepted nonhazardous solid wastes, inert solid wastes, biosolids, water treatment sludge, and treated municipal solid waste incinerator ash. The site did not accept any of the unacceptable wastes specified in WDR Order Nos. 90-046, 91-035, or 93-070. The minimum solids-to-liquids ratio of 5:1 by weight, as specified in the WDRs, was always maintained in 1999. In fact, the typical solids-to-liquids ratio at the Puente Hills Landfill during 1999 was over 160:1.

Landfill gas condensate is collected at the Puente Hills Landfill, treated, and discharged to the sewer system pursuant to an industrial waste discharge permit for the site. Liquid collected from the Canyon 9 LCRS and the Eastern Canyons LCRS is also discharged to the sewer system pursuant to the permit. In 1999, the quality of the discharged wastewater met the discharge requirements specified in the permit. No LCRS liquid or condensate was reused on site in 1999.

Extracted groundwater is collected from underdrain systems installed beneath the Canyon 9 and Eastern Canyons protection liner systems and from groundwater extraction wells located upgradient of Subsurface Barriers 1, 2, 3, and 4. The underdrains are installed at least five feet below the liner to prevent groundwater from rising up to the liner. The Eastern Canyons underdrain also includes horizontal drains located along the slopes of the landfill under the liner. The horizontal drains are used to dewater the cut slopes to ensure stability. The groundwater from the Eastern Canyons underdrain and Barrier 4 extraction system is either used for dust control (no treatment required) or discharged to the sanitary sewer. In 1999, the reused water met the onsite water reuse requirements specified in Provision E of WDR Order No. 93-070. The groundwater from the Canyon 9 underdrain and Barriers 1, 2, and 3 extraction systems was discharged to the sewer system. In 1999, the quality of any discharged groundwater to the sewer system met the discharge requirements specified in the industrial waste discharge permit.

The Sanitation Districts operate the Puente Hills Landfill in accordance with all other requirements for disposal site operations set forth in WDR Order Nos. 90-046, 91-035, and 93-070. A periodic waste-load checking program has been implemented at the landfill to ensure that unauthorized hazardous materials are not disposed of at the landfill. The Sanitation Districts adequately cover all waste at the end of each operating day. The County of Los Angeles Department of Health Services conducts a solid waste facility inspection of the Puente Hills Landfill on a monthly basis. The California Integrated Waste Management Board and the RWQCB also conduct periodic inspections of the site. All Federal, State, County and City sanitary health codes, rules, regulations, and ordinances pertinent to the disposal of wastes at the landfill are complied with in the operation and maintenance of the landfill.

Surface water drainage controls are installed at the landfill to adequately divert rainfall runoff away from the site to prevent ponding over the waste-filled areas of the landfill and control the potential for cover erosion. Any surface water that leaves the site is permitted by a National Pollutant Discharge Elimination System (NPDES) permit. Pursuant to the NPDES, a Storm Water Pollution Prevention Plan (SWPPP) was developed to prevent surface water runoff from being affected by industrial activities at the site such as earth moving; refuse disposal; equipment maintenance; storage of chemicals, fuels, and recovered hazardous materials; operation and maintenance of various environmental control systems; and energy facility operations. The SWPPP includes a description of surface water and flow control facilities, storage and use of industrial materials, best management practices to protect surface water quality, a storm water runoff monitoring program, and a list of the personnel responsible for implementing the SWPPP.

3.2 WATER QUALITY MONITORING AND RESPONSE PROGRAM

The Sanitation Districts submitted *Puente Hills Landfill Water Quality Monitoring System Report for Compliance with RWQCB Order No. 93-062* (herein referred to as the Subtitle D Report) to the RWQCB on August 9, 1994. This report includes a complete water quality monitoring program for the Puente Hills Landfill. It presents, for both groundwater and surface water monitoring, the detection monitoring systems, monitoring parameters, constituents of concern, monitoring and reporting frequency, sampling and analysis plans (including both field and laboratory quality assurance and quality control program), statistical methods for data analysis, and concentration limits developed for all monitoring parameters and constituents of concern (if available data allowed the calculations of these limits). The water quality monitoring program was amended based on the Sanitation Districts' discussion with the RWQCB staff on November 7, 1994. Two letters dated November 21, 1994 (one on Laboratory Analyses and Reporting of Water Quality and Ash Sampling Results, the other on Water Quality Monitoring and Reporting Program) documented the meeting discussion. The Sanitation Districts have been implementing the program described in the Subtitle D Report since the fourth quarter of 1994 for the Main Canyon and Canyon 9 areas of the Puente Hills Landfill. Quarterly monitoring reports were submitted to the RWQCB in 1999 to present detailed water quality monitoring activities and monitoring results at the Puente Hills Landfill. Each quarterly report includes waste disposal information, results from the waste load checking programs, sludge and treated ash analysis results, descriptions of water and

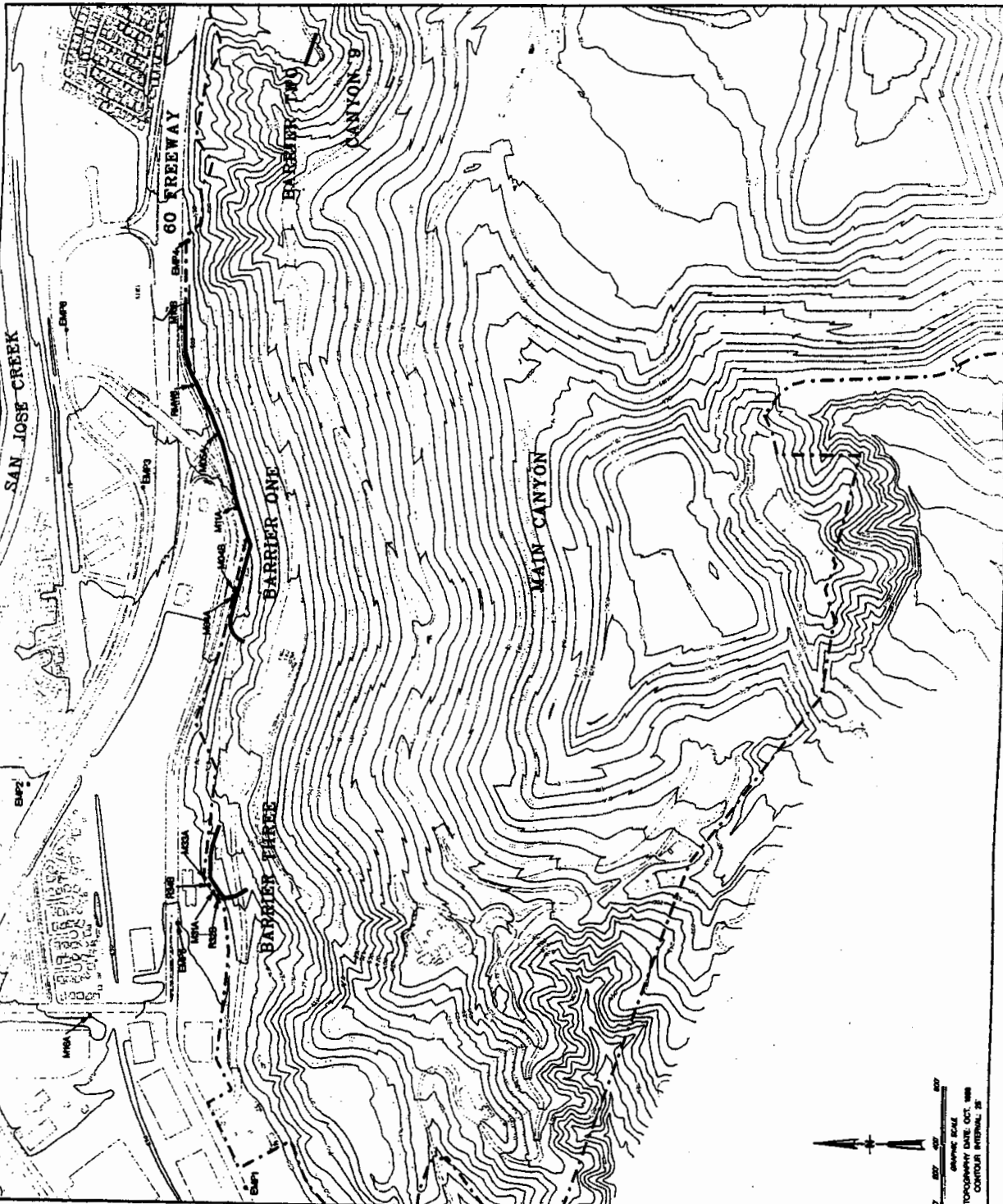
wastewater management, groundwater monitoring data including sampling information, surface water monitoring data, if any, and a discussion of water quality monitoring results. Also included in the report as an appendix are all laboratory analysis results and quality assurance/quality control information required by Order No. 93-062, § 13(A).

Main Canyon

For the Main Canyon area of the landfill, there have been several modifications to the water quality monitoring program since 1994 as a result of volatile organic compound (VOC) detections in groundwater downgradient of Barriers 1 and 3. The Sanitation Districts submitted *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program* to the RWQCB on November 15, 1996. The report proposed revised groundwater detection and evaluation monitoring programs for the Main Canyon and Canyon 9, as required by the State Water Resources Control Board's Order No. WQ 96-10. For the Main Canyon area, the Sanitation Districts proposed an evaluation monitoring system that included seven existing monitoring wells (RMW6, M31A, R32B, M33A, R34B, EMP5 and M16A) and nine new monitoring wells (M04A, M04B, M05A, M10B, M11A, EMP1, EMP2, EMP3, and EMP4). The locations of the monitoring wells for the Main Canyon are shown in Exhibit 14. The RWQCB approved the evaluation monitoring program for the Main Canyon and the installation of the proposed new monitoring wells on December 30, 1996. During the third quarter of 1997, the Sanitation Districts completed installation of the nine new monitoring wells and began quarterly monitoring of these wells. Details about the installation of the new monitoring wells are included in *Detection and Evaluation Monitoring Programs for the Main Canyon at Puente Hills Landfill* (IT Corporation, March 1998) submitted to the RWQCB on April 10, 1998.

On September 30, 1998, the Sanitation Districts submitted *Puente Hills Landfill Main Canyon Final Evaluation Monitoring Program* to the RWQCB. This report included a detailed discussion of the regional and site geology and hydrogeology at and near the Puente Hills Landfill Main Canyon and of the nature and extent of VOCs in the groundwater. It also presented the final evaluation monitoring program (EMP) proposed for the Main Canyon. The proposed final EMP kept all of the existing monitoring wells except for M16A (because M16A was found to be affected by industrial contamination from the San Gabriel Groundwater Basin) and added one additional offsite monitoring well, EMP6. The locations of these monitoring wells are shown in Exhibit 14. The RWQCB approved the final EMP on October 7, 1998; and the Sanitation Districts began implementing the final EMP in the fourth quarter of 1998.

After the final EMP was approved, the Sanitation Districts prepared the *Puente Hills Landfill Main Canyon Draft Engineering Feasibility Study and Amended Report of Waste Discharge for Corrective Action Program* report in December 1998 pursuant to Title 27, California Code of Regulation. The proposed Corrective Action Program (CAP) was based on the following groundwater quality findings obtained from the EMP:






- LEGEND**
-  PROPERTY LINE
 -  MONITORING WELL
 -  EXISTING SUBSURFACE BARRIER

EXHIBIT 14

**GROUNDWATER QUALITY
MONITORING LOCATIONS FOR THE
MAIN CANYON LANDFILL AREA**

PLENTE HILLS LANDFILL
SANITATION DISTRICTS

- The landfill is located on non-water bearing bedrock that yields insignificant amounts of groundwater;
- Groundwater found at the site has naturally poor quality and is not suitable for drinking;
- VOCs represent the only water quality concern;
- The source of the VOCs is landfill gas contact with water. The levels of VOCs in onsite groundwater range from below the maximum contaminant levels (MCLs) for drinking water to less than ten times the MCLs.
- The vertical extent of VOCs affected groundwater is up to 120 feet in the eastern Barrier 1 area, 70 feet in the western Barrier 1 area, and 80 feet at Barrier 3;
- There are two offsite areas where VOCs are found in groundwater: (1) the area immediately north of the eastern Barrier 1 area, and (2) the portion of the historical San Jose Creek stream bed between western Barrier 1 and offsite monitoring well EMP5;
- The lateral extent of VOCs for the area north of eastern Barrier 1 less than 200 feet from the property line. The total VOC level in groundwater is approximately 30 $\mu\text{g/L}$ (or parts per billion) with no VOCs detected at levels as high as four times their MCLs;
- Well EMP5 is about 350 feet from Barrier 3 and represents the downgradient edge of landfill affected groundwater. It is at least 2,000 feet from the nearest production well. Only one VOC is occasionally detected at levels below 1 $\mu\text{g/L}$;
- The Puente Hills Landfill has not impaired any beneficial uses of groundwater.

On December 7, 1998, the Sanitation Districts announced a public workshop and public comment period for the proposed CAP for the Puente Hills Landfill Main Canyon. A copy of the notice was published in the December 7, 1998 edition of the San Gabriel Valley Tribune. The Sanitation Districts placed copies of the *Puente Hills Landfill Main Canyon Draft Engineering Feasibility Study and Amended Report of Waste Discharge for Corrective Action Program* report at two local libraries (Hacienda Heights Public Library in Hacienda Heights and Sunkist Public Library in La Puente) from December 7, 1998 to January 7, 1999 for review by the public. On December 17, 1998, the Sanitation Districts held a public workshop at its Joint Administration Office in Whittier and presented information regarding groundwater quality conditions at the site and the proposed CAP. The proposed CAP consists of the following components:

- continued operation of existing subsurface Barrier 1 and 3 groundwater extraction systems to protect groundwater quality;
- continued operation and maintenance of the existing landfill gas collection system to minimize the potential landfill gas contact with groundwater;
- the use of natural attenuation for remediating offsite areas where low levels of VOCs are found in the groundwater;
- installation of additional gas extraction wells in the Main Canyon area to further reduce the potential of landfill gas with groundwater; and
- conducting a monitoring program to ensure the landfill continues to have no adverse effect on the beneficial uses of groundwater in the adjacent basins.

On January 11, 1999, the Sanitation Districts submitted the *Puente Hills Landfill Main Canyon Final Engineering Feasibility Study and Amended Report of Waste Discharge for Corrective Action Program* report to the RWQCB. In an appendix of this report, the Sanitation Districts included all comments on the CAP received during the public review period and the Sanitation Districts' responses to these comments.

On May 28, 1999, the RWQCB found *Puente Hills Landfill Main Canyon Final Engineering Feasibility Study and Amended Report of Waste Discharge for Corrective Action Program* to be complete and acceptable, and distributed, for review by interested and affected parties, tentative revised waste discharge requirements for the proposed CAP and a revised monitoring and reporting program under the proposed CAP. On June 30, 1999, the RWQCB adopted Order No. 99-059 and revised Monitoring and Reporting Program No. 2294 at its regular board meeting. The Sanitation Districts began implementing the new CAP for the Puente Hills Landfill Main Canyon in the third quarter of 1999.

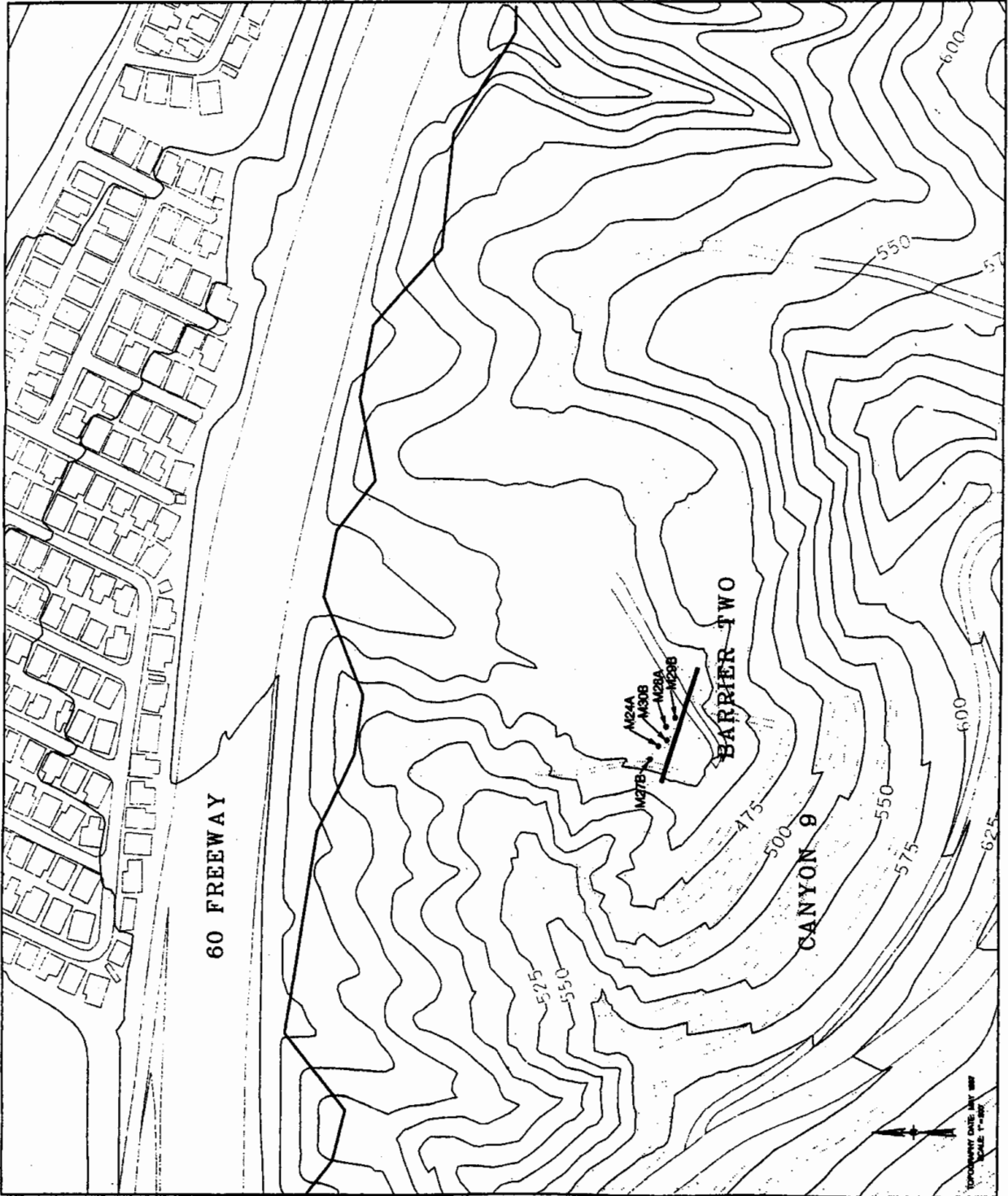
Pursuant to the requirements in Order No. 99-059, on July 28, 1999, the Sanitation Districts submitted a timetable for implementation of the proposed CAP to the RWQCB. The plans and specifications to implement the 15 new gas extraction wells proposed in the CAP, *Puente Hills Landfill Main Canyon Gas Control Wells - 1999* (Drawing No. 69D-g-116) and *Special Provisions for Construction of Puente Hills Landfill Main Canyon Gas Control Wells - 1999*, dated July 1999, were included with the timetable for the RWQCB's review. These plans and specifications, as well as the schedule for their implementation were approved by the RWQCB in a letter dated August 11, 1999. The construction of the gas control wells began in October 1999 and was completed in the middle of January 2000. The new wells were placed into operation immediately after each well was constructed. Performance of these gas extraction wells will be monitored by the Sanitation Districts to ensure their operation is optimized for gas control purposes.

Canyon 9

For the Canyon 9 portion of the landfill, the Sanitation Districts proposed a revised detection monitoring program in 1996 in *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*. The proposed detection monitoring program is under review. Therefore, the Sanitation Districts continued to monitor the five compliance monitoring wells (M24A, M27B, M28B, M29B, and M30B) in 1999 according to the program proposed in the Subtitle D Report. Wells M28A and M30B are typically dry. The locations of the monitoring wells for Canyon 9 are shown in Exhibit 15.

Eastern Canyons

The Sanitation Districts initiated groundwater monitoring at wells M41A, M42A, and M43A, located downgradient of Barrier 4, in 1995, before refuse operations were initiated in this area. In February 1998, the Sanitation Districts submitted *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* to the RWQCB. This report proposed the detection monitoring program for the entire Eastern Canyons area including areas monitored



LEGEND




-  PROPERTY LINE
-  MONITORING WELL
-  EXISTING SUBSURFACE BARRIER

EXHIBIT 15

**GROUNDWATER QUALITY
MONITORING LOCATIONS FOR THE
CANYON 9 AREA**

PLUANTE HILLS LANDFILL
SANITATION DISTRICTS

by wells M41A, M42A, and M43A. An additional bedrock monitoring well M47B was proposed in the Canyons 3 and 4 area. In addition, the Sanitation Districts proposed to install an alluvial monitoring well M51A and a bedrock monitoring well M52B downgradient of the proposed Barrier 5. The locations of the monitoring wells for the Eastern Canyons are shown in Exhibit 16. On April 21, 1998, the Sanitation Districts received approval from the RWQCB to install bedrock groundwater monitoring well M47B in Canyons 3 and 4. M47B was installed in July 1998, and the first groundwater sample from this monitoring well was collected in the third quarter of 1998. On October 7, 1998, the RWQCB approved the proposed detection monitoring program contained in the *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* report including the installation of wells M51A and M52B in Canyon 5. The Sanitation Districts installed monitoring wells M51A and M52B in October and November 1999 after Subsurface Barrier 5 and storm channel improvements in Canyon 5 were completed. The first groundwater samples from these two wells were collected in the fourth quarter of 1999.

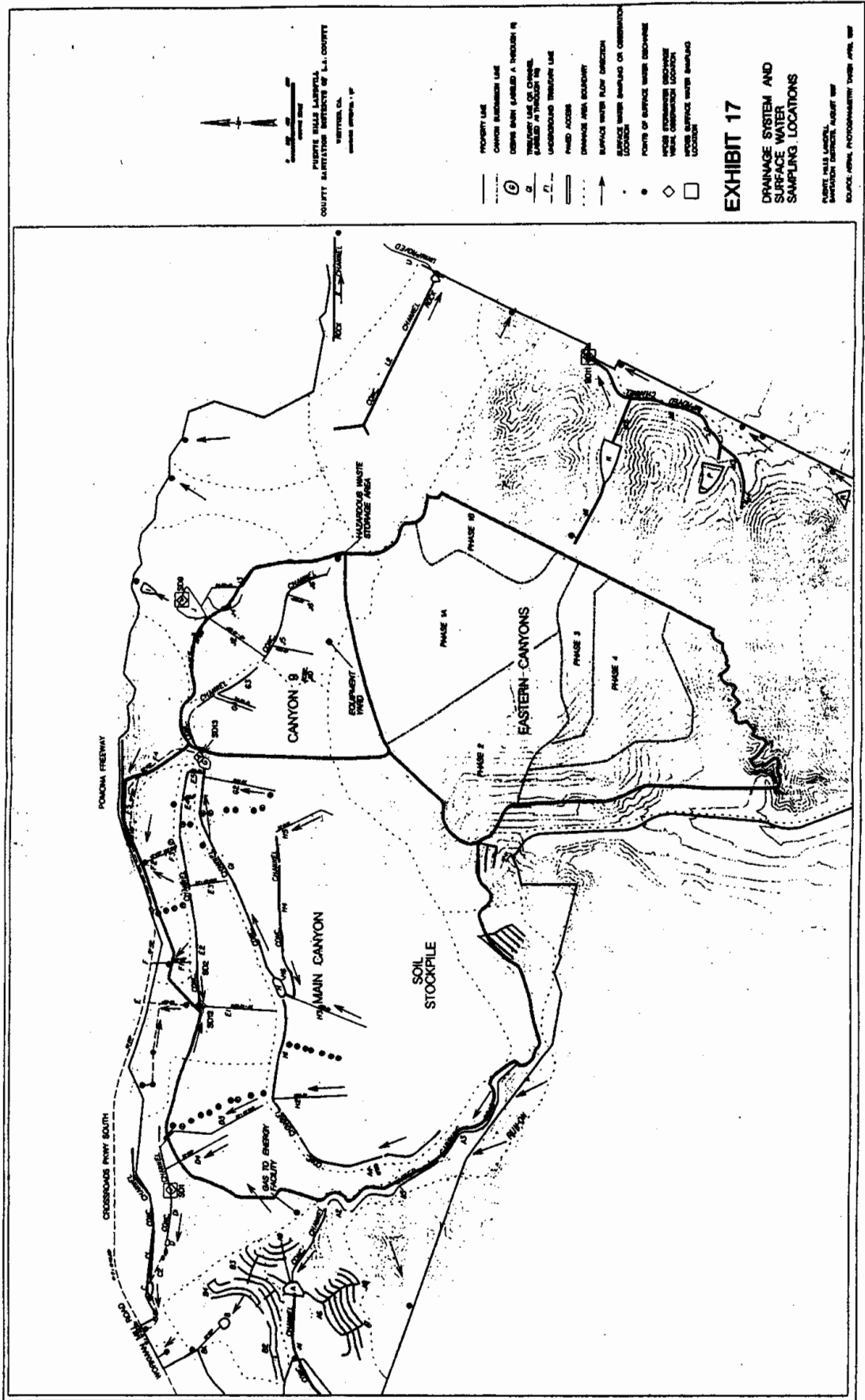
During the third quarter of 1999, the Sanitation Districts attempted to monitor extraction wells E51A and E52B located upgradient of Barrier 5. Extraction wells E51A and E52B are shown in Exhibit 16 and were installed in February 1999 as part of the Subsurface Barrier 5 construction project. The purpose of monitoring these extraction wells was to collect additional background water quality data. There was not sufficient water in extraction well E52B for sampling purposes. Therefore, only extraction well E51A was sampled.

Surface Water Monitoring

The Puente Hills Landfill drainage system consists of graded benches, drainage channels, debris basins, and downdrains. The surface water drainage system minimizes surface water infiltration, ponding, and slope erosion by providing a means for rainfall runoff to be diverted from the front face and top deck of the landfill and channeled into desilting basins, and eventually, into storm drains. The surface water drainage system is depicted on Exhibit 17. In 1999, the drainage system functioned effectively as designed.

In 1992, the Sanitation Districts prepared a Storm Water Pollution Prevention Plan (SWPPP) for the Puente Hills Landfill pursuant to the California General Permit requirements for compliance with the National Pollutant Discharge Elimination System (NPDES) rules. The SWPPP calls for the use of best management practices to minimize the potential for runoff contamination by landfill operations. To fulfill the requirements of the General Permit and to determine the effectiveness of the SWPPP, the Sanitation Districts developed a runoff monitoring program in December 1992. The implementation of this program began in 1993 and continued during 1999. The NPDES permit was revised by the State Water Resources Control Board on April 17, 1997. Pursuant to the revised NPDES permit, the Sanitation Districts updated the SWPPP on August 1, 1997.

Surface water monitoring at Puente Hills Landfill follows the requirements in the NPDES permit. This program was approved by the RWQCB on May 22, 1997, following its review of *Request for Change in Surface Water Monitoring Requirements at Calabasas, Puente Hills, Scholl Canyon, and Spadra Landfills*, submitted by the Sanitation Districts on February 18, 1997.



3.3 CONTAINMENT SYSTEMS

During 1999, the Sanitation Districts completed the design and installation of the composite liner system for the upper slopes of the Phase 4 area (shown in Exhibit 16) located in the Eastern Canyons area. The following technical design plans were submitted to the RWQCB for the Phase 4 upper slopes composite liner system before construction:

- 1) "Special Provisions and Contract Drawings for Construction of Puente Hills Landfill Composite Liner System Phase 4 - Upper Slopes", dated February 1999;
- 2) "Soil and Rock Components Quality Assurance Manual for Construction of Puente Hills Landfill Composite Liner System Phase 4 - Upper Slopes", dated February 1999;
- 3) "Geosynthetics Quality Assurance Manual for Construction of Puente Hills Landfill Composite Liner System Phase 4 - Upper Slopes", dated February 1999.

These design plans supplemented the technical design plans for the Phase 4 liner system which was previously approved by the RWQCB on August 18, 1998. The RWQCB reviewed the documents and approved the design plans for the Phase 4 upper slopes composite liner system in a letter dated April 8, 1999. Construction of the liner system took place from May 1999 through January 2000. Construction quality assurance services were performed by the Sanitation Districts' consultant, Advanced Earth Sciences, Inc. The final construction quality assurance report for this project was completed in April 2000.

In late 1998, Subsurface Barrier 5 was installed in Canyon 5 of the Eastern Canyons area. Two groundwater extraction wells, E51A and E52B, were installed upgradient of Barrier 5 in the first quarter of 1999. Since their installation, no water has been collected from these two extraction wells because the wells are either dry or have a limited water column for extraction.

In 1999, extraction well E20A was installed at the eastern end of Barrier 1 to serve as a backup extraction well for the existing groundwater extraction system already in place for this area. The RWQCB approved the installation of extraction well E20A in a letter dated August 11, 1999. The extraction well was installed in October 1999, and groundwater extraction from the well began in December 1999.

4.0 WATER QUALITY MONITORING PROGRAMS

Water quality monitoring programs implemented at the Puente Hills Landfill during 1999 include groundwater monitoring, surface water monitoring, monitoring of liquid collection and removal systems (LCRS) of the Canyon 9 and Eastern Canyons liner systems, monitoring of reused water, and monitoring of dewatered biosolids and treated incinerator ash disposed of at the landfill.

4.1 GROUNDWATER

At the Puente Hills Landfill, different groundwater monitoring programs are implemented in different operating areas. This discussion on the groundwater monitoring programs is divided into two sections. The first section discusses those areas of the landfill under a detection monitoring program, and the second section discusses those areas of the landfill under a corrective action program.

4.1.1 Detection Monitoring Program

The groundwater monitoring wells at Canyon 9 and the Eastern Canyons areas of the Puente Hills Landfill have not detected any landfill effect. Therefore, they are monitored in accordance to a detection monitoring program.

Canyon 9

Monitoring Wells

Based on the Subtitle D Report, the compliance monitoring wells for the Canyon 9 area are M24A, M27B, M28A, M29B, and M30B (refer to Exhibit 15). No landfill effect has been observed at these monitoring wells since monitoring began. These wells are situated in alluvium and bedrock of the Pico Formation at the mouth of Canyon 9. Monitoring wells M28A and M30B have had insufficient water for sampling purposes since their installation. In *Puente Hills Landfill - Main Canyon and Canyon 9, Revised Detection and Evaluation Monitoring Program*, submitted to the RWQCB on November 15, 1996, the Sanitation Districts proposed to revise the groundwater detection monitoring program for the Canyon 9 monitoring wells. It was proposed that only two existing monitoring wells, M27B and M29B, be routinely monitored because they are screened in the uppermost aquifer or water bearing zone connected to the uppermost aquifer. The revised detection monitoring program was based on recommendations by ENVIRON Corporation in their July 1996 *Hydrogeologic Investigation Along Subsurface Barrier Systems, Puente Hills Landfill* report. The RWQCB has not approved this proposed detection monitoring program. Therefore, the Sanitation Districts continued to monitor wells M24A, M27B, and M29B for 1999. For the first, second, and fourth quarters of 1999, these wells were tested for metal surrogates (pH, total dissolved solids, sulfate, chloride, and nitrate) and Appendix I VOCs (the VOCs contained in Appendix I to Title 40, Code of Federal Regulations, Part 258). For the third quarter of 1999, these wells were tested for all constituents of concern (COCs) pursuant to Order No. 93-062 which states that all

detection monitoring wells shall be analyzed for all COCs once every five years. These COCs include all constituents listed in RWQCB Order No. 90-046 and constituents listed in Appendix II to Title 40, Code of Federal Regulations, Part 258 (or Appendix II constituents).

As mentioned in Section 2.3, three bedrock extraction wells were installed upgradient of Barrier 2 in August of 1998 and began operating in October 1998. The groundwater extraction resulted in lowering the groundwater levels in this area. This lowered the water columns in monitoring wells M24A and M27B such that when sampling these wells, it is not always possible to obtain a sufficient water volume to analyze for all of the monitoring parameters.

Eastern Canyons

The detection monitoring program for the Eastern Canyons area follows the program described in the *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* report which was approved by the RWQCB on October 8, 1999. The groundwater monitoring system for the Eastern Canyons area includes detection monitoring wells located downgradient of Barrier 4 and downgradient of Barrier 5.

Barrier 4 Monitoring Wells

Monitoring wells M41A, M42A, M43A, and M47B are located downgradient of Barrier 4. The Sanitation Districts began to monitor M41A, M42A, and M43A in July 1995 and began to monitor M47B in October 1998. To date, no landfill effect has been observed at these monitoring wells since monitoring began. Monitoring wells M41A, M42A, and M43A monitor the uppermost aquifer, which is in the alluvium, downgradient of Barrier 4; while monitoring well M47B monitors the bedrock formation downgradient of Barrier 4. The locations of these monitoring wells are shown in Exhibit 16. For the first, second, and fourth quarters of 1999, monitoring wells M41A, M42A, and M43A were tested for all general parameters, seven metals including iron (both total and filtered), one inorganic, and the Appendix I VOCs. For the third quarter of 1999, M41A, M42A, and M43A were tested for all COCs pursuant to Order No. 93-062 which states that all detection monitoring wells shall be analyzed for all COCs once every five years. For the first, second, and fourth quarters of 1999, monitoring well M47B was tested for all general parameters, metals (both total and filtered), inorganics, and Appendix I VOCs. For the third quarter of 1999, monitoring well M47B was tested for all COCs.

Barrier 5 Monitoring Wells

Monitoring wells M51A and M52B are located downgradient of Barrier 5. The installation of these two wells was completed in October 1999, and the Sanitation Districts began to monitor these two wells in December 1999. Monitoring well M51A monitors the uppermost aquifer, which is in the alluvium, downgradient of Barrier 5; while monitoring well M52B monitors the bedrock formation downgradient of Barrier 5. The locations of these monitoring wells are shown in Exhibit 16. For the fourth quarter of 1999, the Sanitation Districts planned to test the first groundwater samples from M51A and M52B for all COCs as proposed in the *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program* report. This was done for M52B.

However, because monitoring well M51A is screened in a tight formation with a low hydraulic conductivity, the well became dry during sampling. Therefore, there was only enough sample volume to analyze for all Appendix I VOCs, most of the metals, and several general parameters. A field filtered sample for soluble metals analysis could not be collected from monitoring well M51A.

To collect additional background water quality data, the Sanitation Districts sampled extraction well E51A upgradient of Barrier 5. This well was installed in February 1999 as part of the Subsurface Barrier 5 construction project. The location of the well is shown in Exhibit 13. The sample was tested for all COCs. The results of this sample are included in this report and were previously submitted in the third quarter 1999 water quality monitoring report for the Puente Hills Landfill.

4.1.2 Corrective Action Program

On June 30, 1999, the RWQCB adopted Order No. 99-059 and revised Monitoring and Reporting Program No. 2294 for the Corrective Action Program (CAP) at the Puente Hills Landfill Main Canyon area. For discussion purposes, the groundwater monitoring wells included in the CAP are divided into three groups: Barrier 1 monitoring wells, Barrier 3 monitoring wells, and offsite monitoring wells. Prior to the third quarter of 1999, the monitoring program for these wells followed the program proposed by the Sanitation Districts in *Puente Hills Landfill Main Canyon Final Evaluation Monitoring Program* report which was approved by the RWQCB on October 7, 1998. Beginning in the third quarter of 1999, the monitoring program for these wells followed the program contained in the revised Monitoring and Reporting Program No. 2294 for the CAP at the Puente Hills Landfill which was approved by the RWQCB on June 30, 1999.

Barrier 1 Monitoring Wells

The monitoring system at Barrier 1 includes seven wells, M04A, M04B, M05A, RMW6, M10B, M11A, and EMP4 (refer to Exhibit 14 for locations). No landfill effect has been observed at monitoring wells M04B, M11A, and EMP4 since monitoring began. For the first, second, and fourth quarters of 1999, monitoring wells M04B, M11A, and EMP4 were tested for metal surrogates and Appendix I VOCs. In addition, during the second quarter of 1999, monitoring well EMP4 was tested for other general parameters and total and soluble metals; and during the second and fourth quarters of 1999, monitoring wells M04B and M11A were tested for total organic halogen. The purpose of this additional testing was to collect background information about these wells.

A landfill effect has been observed at Barrier 1 monitoring wells M04A, M05A, RMW6, and M10B. During the first, second, and fourth quarters of 1999, these monitoring wells were tested for metal surrogates, water chemistry parameters, organic matter parameters, and Appendix I VOCs.

During the third quarter, groundwater samples from all Barrier 1 monitoring wells were analyzed for all COCs in accordance to WDR Order No. 99-059. The COC list includes all parameters listed in WDR Order No. 90-046 and Appendix II constituents. As required by WDR Order No. 99-059, the analysis of all COCs is required once every 5 years for the CAP wells not affected by the landfill, and once in 1999 for CAP monitoring wells affected by the landfill.

Barrier 3 Monitoring Wells

The monitoring system at Barrier 3 includes four wells, M31A, R32B, M33A, and R34B (refer to Exhibit 14 for locations). Monitoring wells R32B and R34B are completed in the Pico Formation siltstone, and monitoring wells M31A and M33A are completed in alluvium overlying the Pico Formation bedrock. No landfill effect has been observed at monitoring wells R32B and R34B since monitoring began. For the first, second, and fourth quarters of 1999, monitoring wells R32B and R34B were tested for metal surrogates and Appendix I VOCs.

A landfill effect has been observed at Barrier 3 monitoring wells M31A and M33A. During the first, second, and fourth quarters of 1999, these monitoring wells were tested for metal surrogates, water chemistry parameters, organic matter parameters, and Appendix I VOCs.

During the third quarter, groundwater samples from all Barrier 3 monitoring wells were analyzed for all COCs in accordance to WDR Order No. 99-059. The COC list includes all parameters listed in WDR Order No. 90-046 and Appendix II constituents. As required by WDR Order No. 99-059, the analysis of all COCs is required once every 5 years for the CAP wells not affected by the landfill, and once in 1999 for CAP monitoring wells affected by the landfill.

Offsite Monitoring Wells

The offsite monitoring wells downgradient of the Puente Hills Landfill Main Canyon area include five wells, EMP1, EMP2, EMP3, EMP5, and EMP6 (refer to Exhibit 14 for locations). No landfill effect has been observed at monitoring wells EMP1, EMP2, EMP3, and EMP6 since monitoring began. For the first, second, and fourth quarters of 1999, monitoring wells EMP1, EMP2, EMP3, and EMP6 were tested for metal surrogates and Appendix I VOCs. In addition, during the second quarter of 1999, monitoring wells EMP1, EMP2, and EMP3 were tested for other general parameters and total and soluble metals; and during the second and fourth quarters of 1999, monitoring well EMP6 was tested for other general parameters and total and soluble metals. The purpose of this additional testing was to collect background information on these wells.

A landfill effect has been observed at offsite monitoring well EMP5. During the first, second, and fourth quarters of 1999, monitoring well EMP5 was tested for metal surrogates, water chemistry parameters, organic matter parameters, and Appendix I VOCs.

During the third quarter, groundwater samples from all offsite monitoring wells were analyzed for all COCs in accordance to WDR Order No. 99-059. The COC list includes all parameters listed in WDR Order No. 90-046 and Appendix II constituents. As required by WDR Order No. 99-059, the analysis of all COCs is required once every 5 years for the CAP wells not affected by the landfill, and once in 1999 for CAP monitoring wells affected by the landfill.

4.2 SURFACE WATER

As mentioned in Section 3.2, surface water monitoring at Puente Hills Landfill follows the requirements in the NPDES permit. This program was approved by the RWQCB on May 22, 1997,

following its review of *Request for Change in Surface Water Monitoring Requirements at Calabasas, Puente Hills, Scholl Canyon, and Spadra Landfills*, submitted by the Sanitation Districts on February 18, 1997. The surface water monitoring system consists of three monitoring locations where runoff samples are collected. The surface runoff monitoring locations are shown in Exhibit 17. Monitoring location SD1 is located downgradient of Main Canyon, monitoring location SD9 is located downgradient of Canyon 9, and monitoring location SD11 is located downgradient of the Eastern Canyons.

During 1999, two sets of runoff samples were collected from locations SD1, SD9, and SD11 as part of the NPDES sampling. These samples were analyzed for pH, conductivity, suspended solids, total organic carbon, selected metals, and volatile organic compounds.

4.3 LIQUID COLLECTION AND REMOVAL SYSTEM (LCRS)

Liquid collection and removal systems (LCRS) were installed as part of the composite liner systems for Canyon 9 and the Eastern Canyons areas of the Puente Hills Landfill. Water collected from both LCRSs is discharged to the sewer system pursuant to an industrial waste discharge permit. The monthly LCRS collection rates for the Canyon 9 and Eastern Canyons LCRS are presented in Table 2. These systems functioned effectively in 1999. High flow rates to the Eastern Canyons LCRS during the winter months were due to rain storms in which the rainfall bypassed the storm runoff system and enter the Eastern Canyons LCRS.

The COC sampling for the Eastern Canyons LCRS follows the program proposed by the Sanitation Districts in the *Puente Hills Landfill - Eastern Canyons Groundwater Quality Detection Monitoring Program* report dated February 1998. As part of this program, the Sanitation Districts made the following two changes to COC sampling required by RWQCB Order No. 93-062.

- (1) The LCRS liquid would be sampled at the same frequency as the groundwater monitoring wells, i.e., in March, June, September, and December each year, and the results would be submitted in the quarterly groundwater quality monitoring reports.
- (2) Two of the quarterly samples obtained from the Eastern Canyons LCRS (samples obtained in June and December) would be analyzed for all general parameters and all constituents listed in Appendix II to Title 40, Code of Federal Regulations (40 CFR), §258.54. Any newly identified parameters would be added to the COC list. The other two quarterly samples obtained from the Eastern Canyons LCRS (samples obtained in March and September) would be analyzed for the general parameters, all metals and inorganics, and all Appendix I VOCs. These parameters are the most commonly found in the Eastern Canyons LCRS liquid and will be used to determine and update the list of COCs for the Eastern Canyons detections monitoring wells.

In a letter dated October 8, 1998, the RWQCB approved the proposed program and amended Monitoring and Reporting Program No. 7336 for the Eastern Canyons expansion area. In *Constituents of Concern Report for the Puente Hills Landfill, October 1998*, the Sanitation Districts proposed that the same COC monitoring program for the Eastern Canyons LCRS be implemented

TABLE 2
1999 LCRS FLOW RATES AND CANYON WATER EXTRACTION RATES
PUENTE HILLS LANDFILL

Month	Canyon 9 LCRS (gallons)	Eastern Canyons LCRS (gallons)	Barrier 1 (gallons)	Barrier 2 (gallons)	Barrier 3 (gallons)	Barrier 4 (gallons)	Eastern Canyons Drain System (gallons)
January	23,101	91,440 ⁽¹⁾	653,829	75,725	521,477	42,716	1,363,498
February	21,652	42,521 ⁽¹⁾	616,503	110,322	470,360	42,613	1,181,834
March	23,552	80,328 ⁽¹⁾	576,745	96,321	503,894	43,422	1,234,019
April	27,311	187,330 ⁽¹⁾	720,285	76,571	443,939	50,724	1,159,253
May	30,882	9,390	537,257	74,031	490,237	37,124	1,148,481
June	32,244	43,725 ⁽¹⁾	578,958	64,272	471,803	38,647	1,081,783
July	29,851	10,888	514,741	61,790	542,912	36,287	1,093,190
August	29,355	9,946	610,315	56,834	552,901	34,155	1,045,562
September	26,889	7,751	585,625	51,700	548,472	31,706	951,854
October	26,576	10,176	581,857	50,922	559,401	30,511	1,009,586
November	25,864	19,469	549,835	45,765	518,188	27,884	1,008,361
December	28,351	37,071	578,222	4,329	521,115	30,228	977,318
Total	325,628	550,035	7,104,172	768,582	6,144,699	446,017	13,254,739

(1) The increase in water volumes collected from the Eastern Canyons LCRS during the months of January, February, March, April, and June 1999 were a result of rainfall events.

for the Canyon 9 LCRS sampling. During 1999, the Canyon 9 and Eastern Canyons LCRS were sampled in accordance to the above COC monitoring program. The results of these samples along with the updated constituents of concern scans were reported to the RWQCB in the 1999 water quality quarterly monitoring reports submitted to the RWQCB.

4.4 REUSED WATER

At the Puente Hills Landfill, groundwater is collected upgradient of each barrier through a system of extraction wells. The extraction volumes at each barrier during 1999 are summarized in Table 2. Table 2 also includes the extraction volumes for liquids collected from the Eastern Canyons drain system for 1999. The Eastern Canyons drain system includes the underdrain system beneath the liner on the floor and horizontal drains located along the side slopes. The purpose of the horizontal drains is to reduce hydrostatic pore pressure within the subgrade of the slopes in order to maintain slope stability. All extracted groundwater was discharged to a sanitary sewer pursuant to an industrial waste discharge permit except for portions of the groundwater from the Barrier 4 extraction system and the Eastern Canyons drain system which was reused for dust control. This reuse was approved by the RWQCB in a July 18, 1995 letter.

During 1999, approximately 7.9 out of the 13.7 million gallons of water collected from the Barrier 4 extraction wells and Eastern Canyons drain system was reused for dust control at the Puente Hills Landfill. The reuse water was analyzed quarterly for general parameters, water chemistry parameters (major anions and cations), organic matter parameters, metals, VOCs, and base neutral/acid extractable compound (BNAs). In addition, the reuse water was analyzed annually for gross alpha radioactivity and gross beta radioactivity.

4.5 DEWATERED BIOSOLIDS AND TREATED INCINERATOR ASH

The dewatered biosolids disposed of at the landfill originates at the Sanitation Districts' Joint Water Pollution Control Plant located in Carson, California and the Valencia Water Reclamation Plant located in Valencia, California. Summaries of the monthly average biosolids percent solids content and tons disposed are presented in Table 3. No biosolids from the Valencia Water Reclamation Plant were disposed at the Puente Hills Landfill from May through December of 1999. Two different types of biosolids analyses are performed on a regular basis: a quarterly modified citrate extract procedure for metals analyses, and a semi-annual analysis for pesticides and VOCs. Monitoring performed during 1999 indicated no exceedances of Title 22 criteria for the identification of hazardous wastes for those analyses required in MRP Nos. 2294 and 7336, Section II (C). Results of biosolids analyses have been separately reported to the RWQCB in quarterly monitoring reports and are not included in this annual report.

Treated incinerator ash from Commerce Refuse to Energy Facility (Commerce) and the Southeast Resources Recovery Facility (SERRF) located in Long Beach was disposed at the Puente Hills Landfill during 1999. Summaries of the monthly treated ash disposal rate are presented in Table 4. All incinerator ash accepted at the Puente Hills Landfill during 1999 was treated by a

TABLE 3
1999 BIOSOLIDS DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Joint Water Pollution Control Plant Biosolids		Valencia Water Reclamation Plant Biosolids	
	Tonnages	Solids Content ⁽¹⁾ (%)	Tonnages	Solids Content ⁽¹⁾ (%)
January	2,790	25.4	1,325	24.2
February	2,465	25.7	1,547	26.0
March	1,818	25.2	1,824	25.9
April	2,793	26.4	686	26.5
May	1,773	25.9	0	
June	1,866	25.8	0	
July	1,803	26.0	0	
August	2,199	26.9	0	
September	1,838	26.4	0	
October	1,377	25.3	0	
November	1,338	25.0	0	
December	1,714	25.6	0	
Total	23,774		5,382	

(1) The solids content was based on a monthly average.

TABLE 4
1999 TREATED INCINERATOR ASH DISPOSAL SUMMARY
PUENTE HILLS LANDFILL

Month	Tonnages
January	14,469
February	14,836
March	16,087
April	15,714
May	12,263
June	17,988
July	17,347
August	17,752
September	16,923
October	15,494
November	15,331
December	14,971
Total	189,175

solidification/stabilization process. This process forms a concrete or aggregate like material which is used as road base at the Puente Hills Landfill. Ash treated by this process has been classified as a nonhazardous waste by the California Department of Toxic Substances Control.

In accordance with MRP No. 7336, the treated ash from Commerce and SERRF was analyzed by the Waste Extraction Test (WET) with citrate buffer and deionized water extraction on a quarterly basis. These results and disposal summaries have been separately submitted to RWQCB in quarterly monitoring reports and are not included in this annual report.

5.0 WATER QUALITY MONITORING RESULTS

This section discusses all water quality monitoring results obtained for 1999. All monitoring data presented in this annual report have previously been submitted to the RWQCB in quarterly monitoring reports.

5.1 MONITORING DATA SUMMARY

Water quality monitoring results for 1999 are presented in the Appendix (Tables A.1 through A.9) of this report. The Appendix includes, in tabular form, the data collected from each monitoring facility. In addition, graphs presenting five years of data for each constituent at each groundwater monitoring well are included pursuant to the requirement in Order No. 93-062. Graphs were prepared for constituents which were analyzed for during 1999 for all onsite and offsite monitoring wells. If there were no detections of a particular constituent during 1999, the graph was not plotted unless the constituent was detected at or above the detection limit in at least two monitoring periods since 1995. The tabulated and graphed data are grouped as follows:

- Barrier 1 downgradient monitoring wells (M04A, M04B, M05A, RMW6, M10B, M11A, and EMP4);
- Barrier 2 downgradient monitoring wells (M24A, M27B, and M29B; M28A and M30B were dry in 1999);
- Barrier 3 downgradient monitoring wells (M31A, R32B, M33A, and R34B);
- Barrier 4 and Barrier 5 downgradient monitoring wells (M41A, M42A, M43A, M47B, M51A, and M52B);
- Offsite monitoring wells (EMP1, EMP2, EMP3, EMP5, and EMP6);
- Eastern Canyons groundwater extraction well (E51A);
- Liquid collection and removal systems (LCRS for Canyon 9 and LCS2 for the Eastern Canyons);
- Surface runoff monitoring locations (SD1, SD9, and SD11);
- Reused water (REUS); and
- Equipment and trip blanks (BLNK or EQIP).

A computer diskette containing all monitoring results collected in 1999 is included with the transmittal of this report to the RWQCB. The data are in the Microsoft® Excel Office 97 format. Incomplete analyses were the result of insufficient sample volume. Laboratory analyses, including laboratory methods and method detection limits (MDL), followed the program outlined in the Subtitle D Report and two Sanitation Districts' transmittals to the RWQCB on September 22, 1994 and November 21, 1994 regarding this issue. Changes in the method detection limits are a result of matrix interference. All laboratory analyses were conducted at laboratories certified by the California Department of Health Services Environmental Laboratory Accreditation Program for such analyses. Laboratory analyses follow the methods approved by the United States Environmental Protection Agency. The quality assurance/quality control data are not included in this annual monitoring report but were previously provided in quarterly monitoring reports.

5.2 GROUNDWATER MONITORING RESULTS

The groundwater monitoring results for 1999 are discussed in this section. Monitoring results for wells under the Detection Monitoring Program are discussed in the Section 5.2.1 and monitoring results for wells under the Corrective Action Program are discussed in the Section 5.2.2. Data are analyzed to identify statistical outliers which may be due to sampling anomalies or laboratory errors. Outliers are included in this report and are presented in tabular and graphical data summary, but are excluded from further evaluation or statistical analyses.

5.2.1 Detection Monitoring Program

The groundwater monitoring wells at Canyon 9 and the Eastern Canyons areas of the Puente Hills Landfill have not detected any landfill effect. Therefore, they are monitored in accordance to a detection monitoring program.

Canyon 9

Monitoring Wells

The groundwater monitoring system at Canyon 9 includes monitoring wells M24A, M27B, M28A, M29B, and M30A, all downgradient of Barrier 2. Only wells M24A, M27B, and M29B had sufficient groundwater for sampling purposes during 1999. The other wells were practically dry, consistent with past observations. The monitoring wells at Canyon 9 have not detected any landfill effect.

In October 1998, the Sanitation Districts began extracting groundwater from three new bedrock extraction wells located upgradient of Barrier 2. This resulted in lowering the groundwater levels in monitoring wells M24A, M27B, and M29B. The water levels for monitoring wells M24A and M27B were so low that sometimes the wells became dry during sampling. For these samples, there was not sufficient sample volume to analyze for all water quality monitoring parameters.

During 1999, monitoring results for the general parameters, anions, cations, organics and metals at monitoring wells M24A, M27B, and M29B were consistent with past data. For 1999, all detected soluble metals results from M24A, M27B, and M29B were detected below the MCL for drinking water. There were no detections of any anthropogenic compounds (VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds) at these monitoring wells. Based on these results, there continues to be no landfill effect at Canyon 9 monitoring wells M24A, M27B, and M29B.

Eastern Canyons

The groundwater monitoring program for the Eastern Canyons area includes detection monitoring wells located downgradient of Barrier 4 and downgradient of Barrier 5.

Barrier 4 Monitoring Wells

The Eastern Canyons groundwater monitoring system downgradient of Barrier 4 includes monitoring wells M41A, M42A, M43A, and M47B. The Sanitation Districts began to monitor wells M41A, M42A, and M43A in July 1995. The Sanitation Districts' proposal for characterizing background water quality for the Eastern Canyons was included in *Puente Hills Landfill Eastern Canyons Groundwater Quality Detection Monitoring Program*, approved by the RWQCB on October 8, 1998. The intra-well comparison procedure, which uses historical monitoring data collected from unaffected monitoring wells to represent background water quality, was proposed by the Sanitation Districts to evaluate monitoring data. Concentration limits were calculated using the prediction limit method for monitoring wells M41A, M42A, and M43A.

Groundwater quality obtained during 1999 for monitoring wells M41A, M42A, and M43A was compared to the calculated concentration limit for each parameter. There were no exceedances of the concentration limits at these monitoring wells during 1999. For 1999, all detected soluble metals results from M41A, M42A, and M43A were detected below the MCL for drinking water except for one detection of nickel at monitoring well M41A. The nickel concentration observed at M41A was within the range of background water quality as defined by the 1993 mineral leaching study results. Also, no VOCs or elevated levels of leachate indicators such as soluble BOD, soluble COD, or total organic carbon were present in this sample. This indicates that this nickel detection is of natural origin and not a result of a landfill effect. No VOCs, BNAs, pesticides, herbicides, or organophosphorus compounds were detected at monitoring wells M41A, M42A, and M43A in 1999. These monitoring results show that the alluvial groundwater downgradient of Barrier 4 is not affected by the landfill.

The Sanitation Districts began sampling M47B in the third quarter of 1998. During 1999, all detected soluble metals from M47B were below the MCL for drinking water except for thallium which was detected in the fourth quarter at concentrations that exceeded its MCL. Soluble thallium has been detected once in water samples collected from the Eastern Canyon LCRS, but the level was below that observed at M47B. This indicates that the landfill is not the source of this thallium detection. Also, no VOCs or elevated levels of leachate indicators such as soluble BOD, soluble COD, or total organic carbon were present in this sample. Therefore, the Sanitation Districts believe that this thallium detection is of natural origin and not a result of a landfill effect. In addition, there were no detections of VOCs, BNAs, pesticides, herbicides, or organophosphorus compounds at M47B except for one phthalate. Diethylhexyl phthalate was detected in the third quarter of 1999 at M47B at a concentrations of 29 $\mu\text{g/l}$ and 14 $\mu\text{g/l}$ (duplicate samples). Phthalates are widely used plasticizers and are common laboratory contaminants. Therefore, the detection of this compound is not considered to be related to the landfill. These monitoring results show that the bedrock groundwater downgradient of Barrier 4 is not affected by the landfill.

Barrier 5 Monitoring Wells

The Eastern Canyons groundwater monitoring system downgradient of Barrier 5 includes monitoring wells M51A and M52B. The Sanitation Districts began to monitor these two wells in December 1999. Monitoring well M51A monitors the uppermost aquifer downgradient of Barrier 5.

Because it is screened in a tight formation, it may not yield a sufficient water volume for analysis of all monitoring parameters. Based on the available results, however, all metals at M51A were either not detected or detected below the MCL for drinking water. No VOCs were detected at M51A, indicating that the alluvial groundwater downgradient of Barrier 5 is not affected by the landfill.

Monitoring well M52B monitors the deep bedrock groundwater downgradient of Barrier 5. During 1999, all metals at M52B were either not detected or detected below the MCL for drinking water. No anthropogenic compounds (VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds) were detected at M52B except for diethylhexyl phthalate. Phthalates are widely used plasticizers and are common laboratory contaminants. Therefore, the detection of this compound is not indicative of a landfill effect. These results indicate that the bedrock groundwater downgradient of Barrier 5 is not affected by the landfill.

The Sanitation Districts also sampled, in the third quarter of 1999, extraction well E51A located in the Eastern Canyons area upgradient of Barriers 5 (refer to Exhibit 16). This extraction well is screened in the uppermost aquifer in Canyon 5. The results for the samples collected from this extraction well are presented in Table A.6. All soluble metals detected at this extraction well were below the MCL for drinking water. No VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds were detected at this extraction well. The results from E51A confirm that there has been no landfill effect on the groundwater in alluvium in the Barrier 5 area.

5.2.2 Corrective Action Program

For discussion purposes, the groundwater monitoring wells included in the CAP for the Puente Hills Landfill Main Canyon area are divided into three groups: Barrier 1 monitoring wells M04A, M04B, M11A, M05A, RMW6, M10B, and EMP4; Barrier 3 monitoring wells M31A, R32B, M33A, and R34B; and offsite monitoring wells EMP1, EMP2, EMP3, EMP5, and EMP6. The locations of these monitoring wells are shown in Exhibit 14. Barrier 1 monitoring wells M04A, M05A, RMW6, and M10B; Barrier 3 monitoring wells M31A and M33A; and offsite monitoring well EMP5 have detected landfill related VOCs, while M04B, M11A, R32B, R34B, EMP1, EMP2, EMP3, EMP4, and EMP6 have not.

Barrier 1 Monitoring Wells

For 1999, Barrier 1 wells not affected by the landfill (M04B, M11A, and EMP4) continued to show no landfill effect. Monitoring results for the naturally occurring compounds at these wells were consistent with past monitoring data. There were no detections of any anthropogenic compounds (VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds) at these monitoring wells except for diethylhexyl phthalate at well M11A. As discussed above, the detection of this compound is not indicative of a landfill effect.

At M04A, M05A, RMW6, and M10B, low levels of VOCs were detected in 1999. The detected VOCs, during 1999, included tetrachloroethylene, trichloroethylene, cis-1,2-dichloroethylene, vinyl chloride, 1,1-dichloroethane, 1,2-dichloroethane, and p-dichlorobenzene. The most frequently detected VOCs include vinyl chloride, cis-1,2-dichloroethylene, trichloroethylene, and 1,2-dichloroethane. The concentrations of typical leachate indicator parameters, such as soluble biochemical oxygen demand (BOD), soluble chemical oxygen demand (COD), total organic carbon (TOC), ammonia nitrogen, and nitrate nitrogen, however, were either not detected or detected at background levels. For example, soluble COD concentrations are typically below 20 mg/L, and TOC concentrations below 10 mg/L. Heavy metals were either not detected at these wells or detected below their maximum contaminant levels (MCLs) for drinking water except for nickel at monitoring well M04A. The total and soluble concentrations of nickel observed in the duplicate sample were within the background levels as defined by the 1993 mineral leaching study results. Therefore, the Sanitation Districts believe that this nickel detection is naturally occurring and not a result of a landfill effect. Finally, no BNAs, pesticides, herbicides, or organophosphorus compounds were detected at these monitoring wells in 1999. These results show that low levels of VOCs represent the only landfill effect on water quality.

Of the 63 VOCs that have been tested, only seven were detected in 1999 at the four Barrier 1 monitoring wells discussed above. These VOCs as well as the range of values observed in 1999 are shown in Table 5. In general, the concentrations of VOCs detected in the Barrier 1 monitoring wells show either a decreasing trend or that the concentrations have stabilized over time. Specifically, the 1,2-dichloroethane and p-dichlorobenzene levels at monitoring well RMW6 and the cis-1,2-dichloroethylene, vinyl chloride, 1,1-dichloroethane, 1,2-dichloroethane, and p-dichlorobenzene levels at monitoring well M10B have shown a decreasing trend since enhanced source control began in October 1996. Four groundwater extraction wells (E16A through E19A) were placed into service upgradient of RMW6 and M10B at this time.

**TABLE 5
PUENTE HILLS LANDFILL MAIN CANYON
1999 VOLATILE ORGANIC COMPOUNDS LEVELS
IN BARRIER 1 MONITORING WELLS**

Volatile Organic Compound	M04A (µg/L)	M05A (µg/L)	RMW6 (µg/L)	M10B (µg/L)
Tetrachloroethylene	ND	ND	ND	2 - 7
Trichloroethylene	3 - 5	ND	3 - 4	8 - 11
cis-1,2-Dichloroethylene	19 - 24	ND	11 - 14	15 - 33
Vinyl Chloride	3 - 4	0.4 - 2	1 - 2	0.4 - 1
1,1-Dichloroethane	ND	ND	2 - 2	2 - 4
1,2-Dichloroethane	0.2 - 0.4	ND	0.3 - 0.6	ND - 0.8
p-Dichlorobenzene	ND	ND	1 - 2	ND - 2

Notes: ND - not detected

Barrier 3 Monitoring Wells

For 1999, Barrier 3 wells not affected by the landfill (R32B and R34B) continued to show no landfill effect. Monitoring results for the naturally occurring compounds at these wells were consistent with past monitoring data. There were no detections of any anthropogenic compounds (VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds) at these monitoring wells.

At M31A and M33A, low levels of VOCs were detected in 1999 which is consistent with past monitoring results. The detected VOCs include trichloroethylene, cis-1,2-dichloroethylene, vinyl chloride, and 1,2-dichloroethane. Only vinyl chloride and 1,2-dichloroethane at M33A were detected at levels at or slightly above their MCL. The trend analysis results for the concentrations of VOCs detected in the Barrier 3 monitoring wells show that the concentrations have stabilized over time. The concentrations of typical leachate indicator parameters, such as soluble BOD, soluble COD, total organic carbon, and ammonia nitrogen are typically either not detected or detected at background levels. During 1999, heavy metals were either not detected at these wells or detected below their MCLs for drinking water except for total cadmium at monitoring well M31A. Cadmium was detected in the unfiltered sample because unfiltered samples may contain sediment from the formation which can contain high concentrations of metals. Cadmium was not detected in the filtered sample. No BNAs, pesticides, herbicides, or organophosphorus compounds were detected at these monitoring wells in 1999.

Offsite Monitoring Wells

For 1999, offsite monitoring wells not affected by the landfill (EMP1, EMP2, EMP3, and EMP6) continued to show no landfill effect. Monitoring results for the naturally occurring compounds at these wells were consistent with past monitoring data. There were no detections of any anthropogenic compounds (VOCs, BNAs, pesticides, herbicides, and organophosphorus compounds) at these monitoring wells except for diethylhexyl phthalate at well EMP2. As previously stated, the detection of this compound is not indicative of a landfill effect.

At EMP5, low levels of one VOC, 1,2-dichloroethane, were detected in 1999. This is consistent with past results. At monitoring well EMP1, which is located to the west and hydraulically downgradient of EMP5, 1,2-dichloroethane was not detected. This indicates that the extent of landfill effect on groundwater is limited to EMP5. Groundwater flowing toward the Whittier Narrows beyond EMP5 is not affected by the Puente Hills Landfill. The trend analysis results for the concentrations of 1,2-dichloroethane at monitoring well EMP5 show that the concentrations have stabilized over time. During 1999, the concentrations of typical leachate indicator parameters, such as soluble BOD, soluble COD, TOC, and ammonia nitrogen, at EMP5 were either not detected or detected at background levels. Soluble metals at EMP5 were either not detected or detected below their MCLs for drinking water. No BNAs, pesticides, herbicides, or organophosphorus compounds were detected at EMP5 in 1999. These results show that the low levels of 1,2-dichloroethane represent the only landfill effect on groundwater at EMP5.

5.3 SURFACE RUNOFF MONITORING RESULTS

Surface runoff monitoring consists of obtaining runoff samples at locations SD1, SD9, and SD11. The results for the surface runoff monitoring for 1999 are presented in Table A.8. The concentrations of the compounds analyzed in the surface runoff samples were compared to the maximum contaminant levels (MCLs) for drinking water. Total metals concentrations for several metals exceeded their MCLs at each of the sampling locations. These metals included barium, cadmium, total chromium, lead, mercury, and nickel at sampling location SD1; arsenic, barium, cadmium, total chromium, lead, mercury, nickel, and beryllium at sampling location SD9; and total chromium, lead, and nickel at sampling location SD11. These MCL exceedances are due to soil particles suspended in the runoff because of earth moving activities at the landfill. The native soils naturally contain metal constituents. All filtered (soluble) metal concentrations were below their respective MCLs.

No VOCs were detected above the method detection limit (MDL) at any of the discharge points (SD1, SD9, and SD11), except for toluene and acetone. Toluene was detected once at SD1 at a concentration of $0.6 \mu\text{g/l}$, which is slightly above the MDL of $0.5 \mu\text{g/l}$. The MCL for toluene is $150 \mu\text{g/l}$; therefore, this detection of toluene does not pose a threat to surface water quality. Acetone was detected once at SD1 at a concentration of $15 \mu\text{g/l}$, and once at SD9 with a concentration of $13 \mu\text{g/l}$. Acetone is a common laboratory contaminant and there is no MCL for acetone. These results do not indicate an effect from the landfill on surface water quality.

5.4 LCRS MONITORING RESULTS

LCRS monitoring consists of obtaining quarterly LCRS samples from the Canyon 9 LCRS and the Eastern Canyons LCRS. Table A.7 summarizes the LCRS water monitoring results. During 1999, all general parameters except oil and grease were detected in the Canyon 9 LCRS liquid. Metals and inorganics detected in the Canyon 9 LCRS liquid include arsenic, barium, mercury, nickel, thallium, and zinc. These metals were detected in both unfiltered and field filtered samples. VOCs detected in the Canyon 9 LCRS liquid include trichloroethylene, vinyl chloride, o-dichlorobenzene, p-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, benzene, toluene, ethyl benzene, o-xylene, cis-1,2-dichloroethylene, 2-butanone, and m+p-xylene. The only BNA detected in the Canyon 9 LCRS liquid was diethylhexyl phthalate. This compound is a widely used plasticizer and is a common laboratory contaminant. Therefore, its detection is not considered to be related to the landfill. No pesticides, herbicides, or organophosphorus compounds were detected in the Canyon 9 LCRS liquid during 1999.

During 1999, all general parameters except oil and grease were detected in the Eastern Canyons LCRS liquid. Metals and inorganics detected in the Eastern Canyons LCRS liquid include antimony, arsenic, barium, chromium, copper, lead, mercury, nickel, thallium, and zinc. These metals were detected in both unfiltered and field filtered samples except for chromium and mercury which were only detected in the unfiltered (total) samples. VOCs detected in the Eastern Canyons LCRS liquid include 1,1,1-trichloroethane, trichloroethylene, p-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, benzene, cis-1,2-dichloroethylene, 2-butanone, and styrene. Only one BNA,

diethylhexyl phthalate, was detected in the Eastern Canyons LCRS liquid. As mentioned above, it is a common laboratory contaminant and its detection is not indicative of a landfill effect. No pesticides, herbicides, or organophosphorus compounds were detected in the Eastern Canyons LCRS liquid during 1999.

5.5 REUSED WATER MONITORING RESULTS

The reused water in the Eastern Canyons was sampled pursuant to Monitoring and Reporting Program No. 7336, Section V. Table A.9 summarizes the reused water monitoring results. During 1999, the reused water met the onsite water reuse requirements specified in Provision E of Waste Discharge Requirements Order No. 93-070.

APPENDIX
WATER QUALITY MONITORING DATA
PUENTE HILLS LANDFILL, 1999

TABLE A.1
WATER QUALITY DATA
BARRIER 1 MONITORING WELLS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ02515 03/01/99	WELL M04A SJ06552 06/03/99	WELL M04A SJ10472 09/16/99	WELL M04A SJ10473 09/16/99	WELL M04A SJ13589 12/01/99	WELL M04A SJ13590 12/01/99
FIELD PARAMETERS							
DEPTH TO WATER	FT	42.17	42.4	42.9	43.23	43.23	
DEPTH TO BOTTOM	FT	60.0	60.05	60.02	59.76	59.76	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	18	18	18	17	17	
FIELD WATER TEMPERATURE	DEG C	22.16	20.32	20.98	20.29	20.29	
FIELD PH	PH	6.82	6.39	6.24	6.25	6.25	
FIELD CONDUCTIVITY	UMHOS/CM	3419	3520	2915	3468	3468	
FIELD DISSOLVED O2	MG/L	0.31	0.55	0.4	0.35	0.35	
FIELD DISSOLVED CO2	MG/L	164	441	608	631	631	
GENERAL							
PH	PH	6.90	6.78	6.79	6.77	6.75	6.74
CONDUCTIVITY	UMHOS/CM				3390	2942	2830
TOTAL DISSOLVED SOLIDS	MG/L	2875 A	2954	3024	2796	2942	
TOTAL HARDNESS	MG/L CaCO3				1694 E		
TOTAL CYANIDE	MG/L CN			< 0.005	< 0.005		
BORON	MG/L B			0.51	0.50		
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	1400	1380 B	1450 B	1270 B	1410	1400
CHLORIDE	MG/L CL	195 B	191	194	181	189	195 B
TOTAL ALKALINITY	MG/L CaCO3	617	616	624	599	639	628
BICARBONATE ALKALINITY	MG/L CaCO3	617	616	624	599	639	628
TOTAL SULFIDE	MG/L S			< 0.1	< 0.1		
FLUORIDE	MG/L F			0.84	0.86		
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3	901	901	919 D	879	894	916 D
MAGNESIUM-HARDNESS	MG/L CaCO3	889	848	877 D	815	852	844 D
SODIUM	MG/L NA	197	200	207 D	203	212	211 D
POTASSIUM	MG/L K	13.1	12.4	12.2 D	15.1	14.7	12.3 D
IRON	MG/L FE			7.12	9.00	12.0	
MANGANESE	MG/L MN			2.11	2.09		
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	1.6	1.4	1.4	1.3	1.4	1.4
FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS							

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A
SJ02515		5.84	4.83	20 A	5.17	12	13 A	17 A	2
SJ06551		5.84	4.83	20 A	5.17	12	13 A	17 A	2
SJ06552		5.84	4.83	20 A	5.17	12	13 A	17 A	2
SJ10472		5.84	4.83	20 A	5.17	12	13 A	17 A	2
SJ10473		5.84	4.83	20 A	5.17	12	13 A	17 A	2
SJ13590		5.84	4.83	20 A	5.17	12	13 A	17 A	2
		5.84	4.83	20 A	5.17	12	13 A	17 A	2
		5.84	4.83	20 A	5.17	12	13 A	17 A	2
		5.84	4.83	20 A	5.17	12	13 A	17 A	2

CONSTITUENT	UNITS	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A
ORGANIC MATTER									
TOTAL BOD	MG/L O	<	2	<	2	A	<	2	<
SOLUBLE BOD	MG/L O	<	2	<	2	A	<	2	<
TOTAL COD	MG/L O	<	10	<	10	A	<	10	<
SOLUBLE COD	MG/L O	<	10	<	10	A	<	10	<
TOTAL ORGANIC CARBON	MG/L C	<	5.84	<	5.84	A	<	5.84	<
OIL & GREASE	MG/L C	<	5.84	<	5.84	A	<	5.84	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	5.84	<	5.84	A	<	5.84	<
TOTAL ORGANIC HALOGEN (EXTRAC)	UG/L	<	5.84	<	5.84	A	<	5.84	<
METALS									
ARSENIC	MG/L AS	<	0.162	<	0.162	A	<	0.162	<
BARIUM	MG/L BA	<	0.06	<	0.06	A	<	0.06	<
CADMIUM	MG/L CD	<	0.002	<	0.002	A	<	0.002	<
TOTAL CHROMIUM	MG/L CR	<	0.06	<	0.06	A	<	0.06	<
COBALT	MG/L CO	<	0.01	<	0.01	A	<	0.01	<
COPPER	MG/L CU	<	0.01	<	0.01	A	<	0.01	<
LEAD	MG/L PB	<	0.010	<	0.010	A	<	0.010	<
MERCURY	MG/L HG	<	0.0001	<	0.0001	A	<	0.0001	<
NICKEL	MG/L NI	<	0.61	<	0.61	A	<	0.61	<
SELENIUM	MG/L SE	<	0.010	<	0.010	A	<	0.010	<
SILVER	MG/L AG	<	0.01	<	0.01	A	<	0.01	<
ZINC	MG/L ZN	<	0.02	<	0.02	A	<	0.02	<
ANTIMONY	MG/L SB	<	0.005	<	0.005	A	<	0.005	<
BERYLLIUM	MG/L BE	<	0.025	<	0.025	A	<	0.025	<
THALLIUM	MG/L TL	<	0.001	<	0.001	A	<	0.001	<
TIN	MG/L SN	<	0.06	<	0.06	A	<	0.06	<
VANADIUM	MG/L V	<	0.05	<	0.05	A	<	0.05	<
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-T	UG/L	<	0.05	<	0.05	A	<	0.05	<
DINoseb	UG/L	<	0.1	<	0.1	A	<	0.1	<
THIONAZIN	UG/L	<	1	<	1	A	<	1	<
DIMETHOATE	UG/L	<	1	<	1	A	<	1	<
DISULFOTON	UG/L	<	1	<	1	A	<	1	<
METHYL PARATHION	UG/L	<	1	<	1	A	<	1	<
ETHYL PARATHION	UG/L	<	1	<	1	A	<	1	<
PHORATE	UG/L	<	1	<	1	A	<	1	<
PP'-DDE	UG/L	<	0.01	<	0.01	A	<	0.01	<
PP'-DDD	UG/L	<	0.01	<	0.01	A	<	0.01	<
PP'-DDT	UG/L	<	0.01	<	0.01	A	<	0.01	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A	WELL M04A
SJ02515		SJ06551	SJ06552	SJ10472	SJ10473	SJ13589	SJ13590
03/01/99		06/03/99	06/03/99	09/16/99	09/16/99	12/01/99	12/01/99

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1242	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ02515 03/01/99	WELL M04A SJ06551 06/03/99	WELL M04A SJ06552 06/03/99	WELL M04A SJ10472 09/16/99	WELL M04A SJ10473 09/16/99	WELL M04A SJ13589 12/01/99	WELL M04A SJ13590 12/01/99
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	1	1	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	5	<	10	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	1	1	1	1	1	1
CHLOROFORM	UG/L	<	1	1	1	1	1	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	1	1	1	1	1
CARBON TETRACHLORIDE	UG/L	<	0.3	0.3	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	1	1	1	1	1	1
1,1-DICHLOROETHYLENE	UG/L	<	4	4	4	4	4	4
TETRACHLOROETHYLENE	UG/L	<	1	1	1	1	1	1
BROMODICHLOROMETHANE	UG/L	<	1	1	1	1	1	1
DIBROMOCHLOROMETHANE	UG/L	<	1	1	1	1	1	1
BROMOFORM	UG/L	<	1	1	1	1	1	1
CHLOROBENZENE	UG/L	4	4	4	4	4	4	4
VINYL CHLORIDE	UG/L	1	1	1	1	1	1	1
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	1	1	1	1	1	1
1,1,2-TRICHLOROETHANE	UG/L	0.4	0.4	0.4	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
BENZENE	UG/L	<	1	1	1	1	1	1
TOLUENE	UG/L	<	1	1	1	1	1	1
ETHYL BENZENE	UG/L	<	1	1	1	1	1	1
VINYL ACETATE	UG/L	10	10	10	10	10	10	10
O-XYLENE	UG/L	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	1	1	1	1	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5	0.5
ACROLEIN	UG/L	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	10	10	10	10	10	10	10
ACETONITRILE	UG/L	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	20	<	20	<	<
FREON 11 (CCL3F)	UG/L	<	1	1	<	1	<	1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ02515 03/01/99	WELL M04A SJ06551 06/03/99	WELL M04A SJ06552 06/03/99	WELL M04A SJ10472 09/16/99	WELL M04A SJ10473 09/16/99	WELL M04A SJ13589 12/01/99	WELL M04A SJ13590 12/01/99
VOLATILE ORGANIC COMPOUNDS								
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	24	23	22	20	19	21	24
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
CS2								
C6H12O								
ACID-BASE NEUTRAL EXTRACTABLE								
ACETOPHENONE	UG/L	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<
P-CHLORANILINE	UG/L	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ02515 03/01/99	WELL M04A SJ06551 06/03/99	WELL M04A SJ06552 06/03/99	WELL M04A SJ10472 09/16/99	WELL M04A SJ10473 09/16/99	WELL M04A SJ13589 12/01/99	WELL M04A SJ13590 12/01/99
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ACID-BASE NEUTRAL EXTRACTABLE

M-NITROANILINE	UG/L	<	<	<	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<	1
PHENACETIN	UG/L	<	<	<	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<	1
PRONAMIDE	UG/L	<	<	<	<	<	<	1
SAFROLE	UG/L	<	<	<	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<	1
ACENAPHTHENE	UG/L	<	<	<	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	<	<	1
BENZIDINE	UG/L	<	<	<	<	<	<	1
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	<	<	<	1
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	<	<	1
BENZO (G.H.I.) PERYLENE	UG/L	<	<	<	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<	1
CHRYSENE	UG/L	<	<	<	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<	1

FOOTNOTES : A-DUP & SPIKE

B-AVERAGE

C-AMENDED TEST RESULT

TEST RESULT

D-INTERFERENCE

E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04A SJ02515 03/01/99	WELL M04A SJ06551 06/03/99	WELL M04A SJ06552 06/03/99	WELL M04A SJ10472 09/16/99	WELL M04A SJ10473 09/16/99	WELL M04A SJ13589 12/01/99	WELL M04A SJ13590 12/01/99
ACID-BASE NEUTRAL EXTRACTABLE								
DI-N-BUTYL PHTHALATE	UG/L							
2,4-DINITROTOLUENE	UG/L							
2,6-DINITROTOLUENE	UG/L							
DI-N-OCTYL PHTHALATE	UG/L							
FLUORANTHENE	UG/L							
FLUORENE	UG/L							
HEXACHLOROBENZENE	UG/L							
HEXACHLOROBUTADIENE	UG/L							
HEXACHLOROCYCLOPENTADIENE	UG/L							
HEXACHLOROETHANE	UG/L							
INDENO (1,2,3-C,D) PYRENE	UG/L							
ISOPHORONE	UG/L							
NAPHTHALENE	UG/L							
NITROBENZENE	UG/L							
N-NITROSODIMETHYLAMINE	UG/L							
N-NITROSODI-N-PROPYLAMINE	UG/L							
PHENANTHRENE	UG/L							
PYRENE	UG/L							
2-CHLOROPHENOL	UG/L							
1,2,4-TRICHLOROBENZENE	UG/L							
2,4-DICHLOROPHENOL	UG/L							
2,4-DIMETHYLPHENOL	UG/L							
2,4-DINITROPHENOL	UG/L							
2-METHYL-4,6-DINITROPHENOL	UG/L							
2-NITROPHENOL	UG/L							
4-NITROPHENOL	UG/L							
4-CHLORO-3-METHYLPHENOL	UG/L							
PENTACHLOROPHENOL	UG/L							
PHENOL	UG/L							
2,4,6-TRICHLOROPHENOL	UG/L							
N-NITROSODIPHENYLAMINE	UG/L							
O-CRESOL	UG/L							
M+P CRESOL	UG/L							

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M04A SJ10470 09/16/99	WEFI M04A SJ10471 09/16/99
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CATIONS	MG/L	FE	8.88
IRON	7.58	A	2.08
MANGANESE	2.12	A	
METALS			
ARSENIC	.0170	A	.0240
BARIIUM	0.06	A	0.06
CADMIUM	<0.002	A	<0.002
TOTAL CHROMIUM	<0.01	A	<0.01
COBALT	0.01	A	<0.01
COPPER	<0.01	A	<0.01
LEAD	<0.010	A	<0.010
MERCURY	<.0001	A	<.0001
NICKEL	0.54	A	0.35
SELENIUM	<.0010	A	<.0010
SILVER	<0.01	A	<0.01
ZINC	0.03	A	0.03
ANTIMONY	<.0005	A	<.0005
BERYLLIUM	<.0025	A	<.0025
THALLIUM	<0.001	A	<0.001
TIN	<0.06	A	<0.06
VANADIUM	<0.05	A	<0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ02686 03/03/99	WELL M04B SJ06550 06/03/99	WELL M04B SJ10037 09/03/99	WELL M04B SJ10038 09/03/99	WELL M04B SJ13955 12/09/99
FIELD PARAMETERS						
DEPTH TO WATER	FT	31.89	24.85	31.2	29.9	110.0
DEPTH TO BOTTOM	FT	109.7	109.8	109.8	< 0.1	< 0.1
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	17	18
PERCENT OXYGEN IN GAS	%O2	19	18	21.14	20.36	7.55
FIELD WATER TEMPERATURE	DEG C	17.95	22.72	6.96	7.55	1955
FIELD PH	PH	7.14	7.2	1903	1.04	0.73
FIELD CONDUCTIVITY	UMHOS/CM	1942	1944	1.04	55	
FIELD DISSOLVED O2	MG/L	0.44	0.66			
FIELD DISSOLVED CO2	MG/L					
GENERAL						
PH	PH	7.69	8.02	7.55 D	7.58	7.59
CONDUCTIVITY	UMHOS/CM	1538	1606	1958	1962	1508
TOTAL DISSOLVED SOLIDS	MG/L			1598	1573	
TOTAL HARDNESS	MG/L CaCO3			1010 E	1019 E	
TOTAL CYANIDE	MG/L CN			<0.005	<0.005	
BORON	MG/L B			0.35	0.33	
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05	< 0.05 A	< 0.05	< 0.05
SULFATE	MG/L SO4	776 A	817	767 A	747	778
CHLORIDE	MG/L CL	63.8 A	66.6 C	60.5 A	60.4 C	65.8 C
TOTAL ALKALINITY	MG/L CaCO3			284	284	
BICARBONATE ALKALINITY	MG/L CaCO3			284	284	
TOTAL SULFIDE	MG/L S			< 0.1	< 0.1	
FLUORIDE	MG/L F			0.21	0.21	
CATIONS						
CALCIUM-HARDNESS	MG/L CaCO3			484	484	
MAGNESIUM-HARDNESS	MG/L CaCO3			527	535	
SODIUM	MG/L NA			85.0	83.6	
POTASSIUM	MG/L K			7.2	7.4	
IRON	MG/L FE			0.86	1.02	
MANGANESE	MG/L MN			0.14	0.14	
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N			1.8	1.8	

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE H-CHECK NOTES TO USER D-AVERAGE OF DUPS E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B	WELL M04B	WELL M04B	WELL M04B
ORGANIC MATTER					
TOTAL BOD	MG/L O	<	2	<	2
SOLUBLE BOD	MG/L O	<	2	<	2
TOTAL COD	MG/L O	<	10	<	10
SOLUBLE COD	MG/L O	<	10	<	10
TOTAL ORGANIC CARBON	MG/L C	<	1.15	<	1.10 A
OIL & GREASE	MG/L EXTRAC	<	4.0	<	4.0
TOTAL ORGANIC HALOGEN (TOX)	UG/L	4.5 C	5.4 F	7.0 F	3.8 F
METALS					
ARSENIC	MG/L AS	<	0.010	<	0.010
BARIUM	MG/L BA	<	0.02	<	0.02
CADMIUM	MG/L CD	<	0.002	<	0.002
TOTAL CHROMIUM	MG/L CR	<	0.01	<	0.01
COBALT	MG/L CO	<	0.01	<	0.01
COPPER	MG/L CU	<	0.01	<	0.01
LEAD	MG/L PB	<	0.011	<	0.010
MERCURY	MG/L HG	<	0.0001	<	0.0001
NICKEL	MG/L NI	<	0.02	<	0.02
SELENIUM	MG/L SE	<	0.010	<	0.010
SILVER	MG/L AG	<	0.01	<	0.01
ZINC	MG/L ZN	<	0.03	<	0.04
ANTIMONY	MG/L SB	<	0.0005	<	0.0005
BERYLLIUM	MG/L BE	<	0.025	<	0.025
THALLIUM	MG/L TL	<	0.001	<	0.001
TIN	MG/L SN	<	0.06	<	0.06
VANADIUM	MG/L V	<	0.05	<	0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	<	0.05	<	0.05
DINoseb	UG/L	<	0.1	<	0.1
THIONAZIN	UG/L	<	1	<	1
DIMETHOATE	UG/L	<	1	<	1
DISULFOTON	UG/L	<	1	<	1
METHYL PARATHION	UG/L	<	1	<	1
ETHYL PARATHION	UG/L	<	1	<	1
PHORATE	UG/L	<	1	<	1
PP'-DDE	UG/L	<	0.01	<	0.01
PP'-DDD	UG/L	<	0.01	<	0.01
PP'-DDT	UG/L	<	0.01	<	0.01

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE H-CHECK NOTES TO USER D-AVERAGE OF DUPS E-CALCULATED VALUE

TABLE 1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B	WELL M04B	WELL M04B	WELL M04B	WELL M04B
SJ02686		SJ06550	SJ10037	SJ10038	SJ13955	
03/03/99		06/03/99	09/03/99	09/03/99	12/09/99	

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
2,4-D (ACID)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
2,4,5-TP (SILVEX)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
AROCFLOR 1242	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
AROCFLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
AROCFLOR 1016	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
AROCFLOR 1221	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
AROCFLOR 1232	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
AROCFLOR 1248	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
AROCFLOR 1260	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
1,3-DICHLOROPROPANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
2,2-DICHLOROPROPENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
1,1-DICHLOROPROPENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
ISOBUTYL ALCOHOL	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
METHACRYLONITRILE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
METHYL IODIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
METHYLENE BROMIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	
PROPIONITRILE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	

FOOTNOTES :	A-DUPLICATE SPIKE F-DUP & SPIKE	B-AMENDED TEST RESULT	C-AVERAGE H-CHECK NOTES TO USER	D-AVERAGE OF DUPS	E-CALCULATED VALUE
	< 1	< 1	< 1	< 1	
	< 0.01	< 0.01	< 0.01	< 0.01	
	< 1	< 1	< 0.3	< 0.3	
	< 1	< 1	< 10	< 10	
	< 1	< 1	< 10	< 10	
	< 1	< 1	< 1	< 1	
	< 1	< 1	< 10	< 10	

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ02686 03/03/99	WELL M04B SJ06550 06/03/99	WELL M04B SJ10037 09/03/99	WELL M04B SJ10038 09/03/99	WELL M04B SJ13955 12/09/99
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	1	<	1
1,1,2,3-TRICHLOROPROPANE	UG/L	<	1	1	<	1
METHYL METHACRYLATE	UG/L	<	10	5	10	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<
CHLOROBENZENE	UG/L	0.3	0.3	0.3	0.3	0.3
VINYL CHLORIDE	UG/L	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5
BENZENE	UG/L	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<
ETHYL BENZENE	UG/L	10	10	10	10	10
VINYL ACETATE	UG/L	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5
ACROLEIN	UG/L	<	<	<	<	<
ACRYLONITRILE	UG/L	10	10	10	10	10
ACETONITRILE	UG/L	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE H-CHECK NOTES TO USER D-AVERAGE OF DUPS E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B	WELL M04B	WELL M04B	WELL M04B	WELL M04B	WELL M04B	WELL M04B
		SJ02686	SJ06550	SJ10037	SJ10038	SJ13955		
		03/03/99	06/03/99	09/03/99	09/03/99	12/09/99		
VOLATILE ORGANIC COMPOUNDS								
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<	<
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	<	<
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	<	<
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	<	<
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	<	<
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	<	<
2, 4, 5-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	<	<
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	<	<
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	<	<
ACID-BASE NEUTRAL EXTRACTABLE								
ACETOPHENONE	UG/L	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<
3, 3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<
METHADRYLENE	UG/L	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<

B-AMENDED TEST RESULT C-AVERAGE H-CHECK NOTES TO USER D-AVERAGE OF DUPS E-CALCULATED VALUE
 FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ02686 03/03/99	WELL M04B SJ06550 06/03/99	WELL M04B SJ10037 09/03/99	WELL M04B SJ10038 09/03/99	WELL M04B SJ13955 12/09/99
ACID-BASE NEUTRAL EXTRACTABLE						
M-NITROANILINE	UG/L	<	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	5
PHENACETIN	UG/L	<	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	20
PRONAMIDE	UG/L	<	<	<	<	1
SAFROLE	UG/L	<	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	1
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	5
SYM-TRINITROBENZENE	UG/L	<	<	<	<	1
ACENAPHTHENE	UG/L	<	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	1
BENZIDINE	UG/L	<	<	<	<	20
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	1
BENZO(A)PYRENE	UG/L	<	<	<	<	0.2
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	1
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	1
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	1
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	1
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	1
CHRYSENE	UG/L	<	<	<	<	1
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE H-CHECK NOTES TO USER D-AVERAGE OF DUPS E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M04B SJ02686 03/03/99	WELL M04B SJ06550 06/03/99	WELL M04B SJ10037 09/03/99	WELL M04B SJ10038 09/03/99	WELL M04B SJ13955 12/09/99
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ACID-BASE	NEUTRAL	EXTRACTABLE				
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	<	1
FLUORENE	UG/L	<	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	5
HEXACHLOROETHANE	UG/L	<	<	<	<	1
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	<	1
ISOPHORONE	UG/L	<	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	<	1
NITROBENZENE	UG/L	<	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	<	1
PYRENE	UG/L	<	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	6
2,4-DINITROPHENOL	UG/L	<	<	<	<	1
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	<	1
4-NITROPHENOL	UG/L	<	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	<	1
PHENOL	UG/L	<	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	1
O-CRESOL	UG/L	<	<	<	<	1
M+P CRESOL	UG/L	<	<	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AMENDED TEST RESULT C-AVERAGE H-CHECK NOTES TO USER D-AVERAGE OF DUPS E-CALCULATED VALUE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M04B SJ10035 09/03/99	WEFI M04B SJ10036 09/03/99
CATIONES			
IRON	MG/L FE	0.68	0.66
MANGANESE	MG/L MN	0.13	0.13
METALS			
ARSENIC	MG/L AS	< 0.010	< 0.010
BARIUM	MG/L BA	0.02	0.02
CADMIUM	MG/L CD	< 0.002	< 0.002
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01
COPPER	MG/L CU	< 0.01	< 0.01
LEAD	MG/L PB	< 0.010	< 0.010
MERCURY	MG/L HG	< 0.0001	< 0.0001
NICKEL	MG/L NI	< 0.02	< 0.02
SELENIUM	MG/L SE	< 0.010	< 0.010
SILVER	MG/L AG	< 0.01	< 0.01
ZINC	MG/L ZN	0.01	0.01
ANTIMONY	MG/L SB	< 0.005	< 0.005
BERYLLIUM	MG/L BE	< 0.025	< 0.025
THALLIUM	MG/L TL	< 0.001	< 0.001
TIN	MG/L SN	< 0.06	< 0.06
VANADIUM	MG/L V	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL		WELL		WELL	
		M05A	SJ06877	M05A	SJ10478	M05A	SJ13639
FIELD PARAMETERS							
DEPTH TO WATER	FT	62.09	64.56	63.83	64.71		
DEPTH TO BOTTOM	FT	76.46	76.65	76.65	76.62		
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1		
PERCENT OXYGEN IN GAS	%O2	20	20	18	18		
FIELD WATER TEMPERATURE	DEG C	22.48	23.36	23.18	22.33		
FIELD PH	PH	5.94	6.46	6.64	7.43		
FIELD CONDUCTIVITY	UMHOS/CM	2300	2175	2298	2086		
FIELD DISSOLVED O2	MG/L	0.52	0.84	1.01	1.81		
FIELD DISSOLVED CO2	MG/L	776	212.0	168	26		
GENERAL							
PH	PH	7.03	6.99	7.02	7.05		
CONDUCTIVITY	UMHOS/CM			2190			
TOTAL DISSOLVED SOLIDS	MG/L	1420	1338	1313	1286		
TOTAL HARDNESS	MG/L CaCO3			484 D			
TOTAL CYANIDE	MG/L CN			<0.005			
BORON	MG/L B			0.23			
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	< 0.05	< 0.05		
SULFATE	MG/L SO4	321	277	222	231		
CHLORIDE	MG/L CL	377	357	317	319		
TOTAL ALKALINITY	MG/L CaCO3	385	349	418	404		
BICARBONATE ALKALINITY	MG/L CaCO3	385	349	418	404		
TOTAL SULFIDE	MG/L S			< 0.1			
FLUORIDE	MG/L F			0.76			
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3	282 B	270	265 B	235 B		
MAGNESIUM-HARDNESS	MG/L CaCO3	244 B	230	219 B	208 B		
SODIUM	MG/L NA	294 B	292	302 B	302 B		
POTASSIUM	MG/L K	4.9	5.7	6.1 B	5.6 B		
IRON	MG/L FE			0.39 B			
MANGANESE	MG/L MN			1.31 B			
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1		

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUP & SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL
M05A	M05A	M05A	M05A
SJ02846	SJ06877	SJ10478	SJ13639
03/05/99	06/10/99	09/16/99	12/02/99

CONSTITUENT/WELL NO. UNITS

ORGANIC MATTER

TOTAL BOD	MG/L	O	<	2	<	2
SOLUBLE BOD	MG/L	O	4	<	2	35
TOTAL COD	MG/L	O	32	30	C	33
SOLUBLE COD	MG/L	O	9.29	9.49	C	9.70
TOTAL ORGANIC CARBON	MG/L	C				4.0
OIL & GREASE	MG/L	EXTRAC				400
TOTAL ORGANIC HALOGEN (TOX)	UG/L					B

METALS

ARSENIC	MG/L	AS		.0032	B
BARIUM	MG/L	BA		0.05	B
CADMIUM	MG/L	CD		<0.002	B
TOTAL CHROMIUM	MG/L	CR		<0.01	B
COBALT	MG/L	CO		<0.01	B
COPPER	MG/L	CU		<0.01	B
LEAD	MG/L	PB		<0.010	B
MERCURY	MG/L	HG		<.0001	B
NICKEL	MG/L	NI		<0.02	B
SELENIUM	MG/L	SE		<.0010	B
SILVER	MG/L	AG		<0.01	B
ZINC	MG/L	ZN		<0.01	B
ANTIMONY	MG/L	SB		<.0005	B
BERYLLIUM	MG/L	BE		<.0025	B
THALLIUM	MG/L	TL		<0.001	B
TIN	MG/L	SN		<0.06	B
VANADIUM	MG/L	V		<0.05	B

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-T	UG/L			<0.05
DINOSEB	UG/L			<0.1
THIONAZIN	UG/L			1
DIMETHOATE	UG/L			1
DISULFOTON	UG/L			1
METHYL PARATHION	UG/L			1
PHORATE	UG/L			1
PP'-DDE	UG/L			<0.01
PP'-DDD	UG/L			<0.01
PP'-DDT	UG/L			<0.01

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE

C-DUP & SPIKE

D-INTERFERENCE

E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ02846 03/05/99	WELL M05A SJ06877 06/10/99	WELL M05A SJ10478 09/16/99	WELL M05A SJ13639 12/02/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	<	<	<	0.01
LINDANE (GAMMA-BHC)	UG/L	<	<	<	0.01
HEPTACHLOR	UG/L	<	<	<	0.01
HEPTACHLOR EPOXIDE	UG/L	<	<	<	0.01
ALDRIN	UG/L	<	<	<	0.01
DIELDRIN	UG/L	<	<	<	0.01
ENDRIN	UG/L	<	<	<	0.01
TOXAPHENE	UG/L	<	<	<	0.5
METHOXYCLOR	UG/L	<	<	<	0.01
2,4-D (ACID)	UG/L	<	<	<	0.5
2,4,5-TP (SILVEX)	UG/L	<	<	<	0.05
AROCOR 1242	UG/L	<	<	<	0.1
AROCOR 1254	UG/L	<	<	<	0.05
BETA-BHC	UG/L	<	<	<	0.01
DELTA-BHC	UG/L	<	<	<	0.01
ENDOSULFAN I	UG/L	<	<	<	0.01
ENDOSULFAN II	UG/L	<	<	<	0.01
ENDOSULFAN SULFATE	UG/L	<	<	<	0.1
ENDRIN ALDEHYDE	UG/L	<	<	<	0.01
AROCOR 1016	UG/L	<	<	<	0.1
AROCOR 1221	UG/L	<	<	<	0.1
AROCOR 1232	UG/L	<	<	<	0.1
AROCOR 1248	UG/L	<	<	<	0.1
AROCOR 1260	UG/L	<	<	<	0.1
TECHNICAL CHLORDANE	UG/L	<	<	<	0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	<	<	<	1
BROMOCHLOROMETHANE	UG/L	<	<	<	1
CHLOROPRENE	UG/L	<	<	<	0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	1
1,3-DICHLOROPROPANE	UG/L	<	<	<	0.3
2,2-DICHLOROPROPENE	UG/L	<	<	<	1
1,1-DICHLOROPROPENE	UG/L	<	<	<	1
ISOBUTYL ALCOHOL	UG/L	<	<	<	10
METHACRYLONITRILE	UG/L	<	<	<	10
METHYL IODIDE	UG/L	<	<	<	1
METHYLENE BROMIDE	UG/L	<	<	<	1
PROPIONITRILE	UG/L	<	<	<	10

FOOTNOTES : A-A-MENDED TEST RESULT B-AVERAGE C-DUP & SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A SJ02846 03/05/99	WELL M05A SJ06877 06/10/99	WELL M05A SJ10478 09/16/99	WELL M05A SJ13639 12/02/99	C-DUP & SPIKE	D-INTERFERENCE	E-AVERAGE OF DUPS
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	<	1	<	1
METHYL METHACRYLATE	UG/L	<	<	<	<	15	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	1	<	1
METHYLENE CHLORIDE	UG/L	<	<	<	<	1	<	1
CHLOROFORM	UG/L	<	<	<	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	0.3	<	0.3
CARBON TETRACHLORIDE	UG/L	<	0.3	<	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	<	1	<	1
TRICHLOROETHYLENE	UG/L	<	<	<	<	1	<	1
TETRACHLOROETHYLENE	UG/L	<	<	<	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	<	<	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	1	<	1
BROMOFORM	UG/L	<	<	<	<	1	<	1
CHLOROBENZENE	UG/L	1	<	<	<	0.4	<	0.8
VINYL CHLORIDE	UG/L	<	<	<	<	1	<	1
O-DICHLOROBENZENE	UG/L	<	<	<	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	<	<	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	<	<	<	1	<	1
1,1-DICHLOROETHANE	UG/L	<	<	<	<	0.3	<	0.3
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	<	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	<	<	0.5	<	0.5
BENZENE	UG/L	<	<	<	<	1	<	1
TOLUENE	UG/L	<	<	<	<	1	<	1
ETHYL BENZENE	UG/L	<	<	<	<	1	<	1
VINYL ACETATE	UG/L	10 A	10	<	<	10	<	10
O-XYLENE	UG/L	<	<	<	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	1	<	1
BROMOMETHANE	UG/L	<	<	<	<	1	<	1
CHLOROETHANE	UG/L	<	<	<	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	1	<	1
CHLOROMETHANE	UG/L	<	<	<	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	<	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	<	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	<	<	0.5	<	0.5
ACROLEIN	UG/L	<	<	<	<	10	<	10
ACRYLONITRILE	UG/L	10	10	<	<	10	<	10
ACETONITRILE	UG/L	<	<	<	<	20	<	20
FREON 12 (CCL2F2)	UG/L	<	<	<	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	<	<	<	1	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL M05A M05A M05A M05A M05A
SJ02846 SJ06877 SJ10478 SJ13639
03/05/99 06/10/99 09/16/99 12/02/99

CONSTITUENT/WELL NO. UNITS

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT	WELL NO.	UNITS	WELL	WELL	WELL	WELL
M-NITROANILINE		UG/L	<	<	<	<
P-NITROANILINE		UG/L	<	<	<	<
N-NITROSODI-N-BUTYLAMINE		UG/L	<	<	<	<
N-NITROSODIETHYLAMINE		UG/L	<	<	<	<
N-NITROSOMETHYLETHYLAMINE		UG/L	<	<	<	<
N-NITROSOPIPERIDINE		UG/L	<	<	<	<
N-NITROSOPYRROLIDINE		UG/L	<	<	<	<
5-NITRO-O-TOLUIDINE		UG/L	<	<	<	<
PENTACHLOROBENZENE		UG/L	<	<	<	<
PENTACHLORONITROBENZENE		UG/L	<	<	<	<
PHENACETIN		UG/L	<	<	<	<
P-PHENYLENEDIAMINE		UG/L	<	<	<	<
PRONAMIDE		UG/L	<	<	<	<
SAFROLE		UG/L	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN		UG/L	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL		UG/L	<	<	<	<
O-TOLUIDINE		UG/L	<	<	<	<
O,O'-TRIETHYLPHOSPHOROTH		UG/L	<	<	<	<
SYM-TRINITROBENZENE		UG/L	<	<	<	<
ACENAPHTHENE		UG/L	<	<	<	<
ACENAPHTHYLENE		UG/L	<	<	<	<
ANTHRACENE		UG/L	<	<	<	<
BENZIDINE		UG/L	<	<	<	<
BENZO(A)ANTHRACENE		UG/L	<	<	<	<
BENZO(A)PYRENE		UG/L	<	<	<	<
BENZO(B)FLUORANTHENE		UG/L	<	<	<	<
BENZO(K)FLUORANTHENE		UG/L	<	<	<	<
BIS(2-CL-ETHOXY)METHANE		UG/L	<	<	<	<
BIS(2-CHLOROETHYL)ETHER		UG/L	<	<	<	<
BIS(2-CL-ISOPROPYL)ETHER		UG/L	<	<	<	<
DIETHYLHEXYL PHTHALATE		UG/L	<	<	<	<
4-BROMOPHENYL PHENYLETHER		UG/L	<	<	<	<
BUTYLBENZYL PHTHALATE		UG/L	<	<	<	<
2-CHLORONAPHTHALENE		UG/L	<	<	<	<
4-CHLOROPHENYLPHENYLETHER		UG/L	<	<	<	<
CHRYSENE		UG/L	<	<	<	<
DIBENZO(A,H)ANTHRACENE		UG/L	<	<	<	<
3,3'-DICHLOROBENZIDINE		UG/L	<	<	<	<
DIETHYL PHTHALATE		UG/L	<	<	<	<
DIMETHYL PHTHALATE		UG/L	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUP & SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M05A	WELL M05A	WELL M05A	WELL M05A	WELL M05A
ACID-BASE NEUTRAL EXTRACTABLE	UG/L					
DI-N-BUTYL PHTHALATE	UG/L					
2,4-DINITROTOLUENE	UG/L					
2,6-DINITROTOLUENE	UG/L					
DI-N-OCTYL PHTHALATE	UG/L					
FLUORANTHENE	UG/L					
FLUORENE	UG/L					
HEXACHLOROBENZENE	UG/L					
HEXACHLOROBUTADIENE	UG/L					
HEXACHLOROCYCLOPENTADIENE	UG/L					
HEXACHLOROETHANE	UG/L					
INDENO(1,2,3-C,D)PYRENE	UG/L					
ISOPHORONE	UG/L					
NAPHTHALENE	UG/L					
NITROBENZENE	UG/L					
N-NITROSODIMETHYLAMINE	UG/L					
N-NITROSODI-N-PROPYLAMINE	UG/L					
PHENANTHRENE	UG/L					
PYRENE	UG/L					
2-CHLOROPHENOL	UG/L					
1,2,4-TRICHLOROBENZENE	UG/L					
2,4-DICHLOROPHENOL	UG/L					
2,4-DIMETHYLPHENOL	UG/L					
2,4-DINITROPHENOL	UG/L					
2-METHYL-4,6-DINITROPHENOL	UG/L					
2-NITROPHENOL	UG/L					
4-NITROPHENOL	UG/L					
4-CHLORO-3-METHYLPHENOL	UG/L					
PENTACHLOROPHENOL	UG/L					
PHENOL	UG/L					
2,4,6-TRICHLOROPHENOL	UG/L					
N-NITROSODIPHENYLAMINE	UG/L					
O-CRESOL	UG/L					
M+P CRESOL	UG/L					

FOOTNOTES : A-AMENDED TEST RESULT B-AVERAGE C-DUP & SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M05A SJ10476 09/16/99
CATIONES		
IRON	MG/L FE	< 0.05
MANGANESE	MG/L MN	1.24
METALS		
ARSENIC	MG/L AS	.0013
BARIUM	MG/L BA	0.04
CADMIUM	MG/L CD	<0.002
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	<0.010
MERCURY	MG/L HG	<.0001 A
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	<.0010
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	0.01
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025
THALLIUM	MG/L TL	<0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ02516 03/01/99	WELL RMW6 SJ06547 06/03/99	WELL RMW6 SJ10581 09/20/99	WELL RMW6 SJ13585 12/01/99
FIELD PARAMETERS					
DEPTH TO WATER	FT	56.0	56.51	57.27	57.6
DEPTH TO BOTTOM	FT	90.9	90.92	90.76	91.09
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	19	17	19
FIELD WATER TEMPERATURE	DEG C	21.72	22.52	22.25	21.66
FIELD PH	PH	7.04	6.66	6.59	7.25
FIELD CONDUCTIVITY	UMHOS/CM	2082	2152	2330	2299
FIELD DISSOLVED O2	MG/L	0.34	0.24	0.41	0.26
FIELD DISSOLVED CO2	MG/L	61	138	163	36
GENERAL					
PH	PH	7.08	6.95	7.23	7.02
CONDUCTIVITY	UMHOS/CM			2290	
TOTAL DISSOLVED SOLIDS	MG/L	1604	1769	1875	1810
TOTAL HARDNESS	MG/L CaCO3			1135	E
TOTAL CYANIDE	MG/L CN			< 0.005	
BORON	MG/L B			0.36	
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	746	786	858	969
CHLORIDE	MG/L CL	101	90.5	82.3	81.9
TOTAL ALKALINITY	MG/L CaCO3	379	360	361	363
BICARBONATE ALKALINITY	MG/L CaCO3	379	360	361	363
TOTAL SULFIDE	MG/L S			< 0.1	
FLUORIDE	MG/L F			0.83	
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	477	487	579	492
MAGNESIUM-HARDNESS	MG/L CaCO3	453	461	556	469
SODIUM	MG/L NA	146	151	168	154
POTASSIUM	MG/L K	6.4	6.2	7.1	5.8
IRON	MG/L FE			< 0.05	
MANGANESE	MG/L MN			7.00	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	0.4	0.2	0.2	0.2

FOOTNOTES : A-AVERAGE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6
SJ02516	SJ06547	SJ10581	SJ13585
03/01/99	06/03/99	09/20/99	12/01/99

CONSTITUENT/WELL NO. UNITS

ORGANIC MATTER

TOTAL BOD	MG/L	2	<	2	D	<	2	D
SOLUBLE BOD	MG/L	0	<	2	D	<	2	D
TOTAL COD	MG/L	0	<	10		<	10	
SOLUBLE COD	MG/L	17	<	10		<	10	
TOTAL ORGANIC CARBON	MG/L	2.48	<	2.49	C	<	2.67	C
OIL & GREASE	MG/L		<	3.0		<	3.0	
TOTAL ORGANIC HALOGEN (TOX)	UG/L		<	30	C		30	C

METALS

ARSENIC	MG/L	<	0.010
BARIUM	MG/L	0	0.04
CADMIUM	MG/L	<	0.002
TOTAL CHROMIUM	MG/L	<	0.01
COBALT	MG/L	<	0.01
COPPER	MG/L	<	0.01
LEAD	MG/L	<	0.010
MERCURY	MG/L	<	0.001
NICKEL	MG/L	<	0.02
SELENIUM	MG/L	<	0.010
SILVER	MG/L	<	0.01
ZINC	MG/L	<	0.01
ANTIMONY	MG/L	<	0.005
BERYLLIUM	MG/L	<	0.0025
THALLIUM	MG/L	<	0.001
TIN	MG/L	<	0.06
VANADIUM	MG/L	<	0.05

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-T	UG/L	<	0.05
DINOSORB	UG/L	<	0.1
THIONAZIN	UG/L	<	1
DIMETHOATE	UG/L	<	1
DISULFOTON	UG/L	<	1
METHYL PARATHION	UG/L	<	1
ETHYL PARATHION	UG/L	<	1
PHORATE	UG/L	<	1
PP'-DDE	UG/L	<	0.01
PP'-DDD	UG/L	<	0.01
PP'-DDT	UG/L	<	0.01

FOOTNOTES : A-AVERAGE

B-AMENDED TEST RESULT

C-DUPLICATE SPIKE

D-DUP & SPIKE

E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ02516 03/01/99	WELL RMW6 SJ06547 06/03/99	WELL RMW6 SJ10581 09/20/99	WELL RMW6 SJ13585 12/01/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<
ALDRIN	UG/L	<	<	<	<
DIELDRIN	UG/L	<	<	<	<
ENDRIN	UG/L	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<
METHOXYCHLOR	UG/L	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<
BETA-BHC	UG/L	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<
2,2-DICHLOROPROPENE	UG/L	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<

FOOTNOTES : A-AVERAGE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6
SJ02516	SJ06547	SJ10581	SJ13585
03/01/99	06/03/99	09/20/99	12/01/99

UNITS

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT/WELL NO.	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	UNITS
1,1,1,2-TETRACHLOROETHANE	<	<	<	<	UG/L
1,1,2,3-TRICHLOROPROPANE	<	<	<	<	UG/L
METHYL METHACRYLATE	<	<	<	<	UG/L
METHYLENE CHLORIDE	<	<	<	<	UG/L
CHLOROFORM	<	<	<	<	UG/L
1,1,1-TRICHLOROETHANE	<	<	<	<	UG/L
1,1,1-TRICHLORIDE	<	<	<	<	UG/L
1,1-DICHLOROETHENE	<	<	<	<	UG/L
TRICHLOROETHYLENE	<	<	<	<	UG/L
TETRACHLOROETHYLENE	<	<	<	<	UG/L
BROMODICHLOROMETHANE	<	<	<	<	UG/L
DIBROMOCHLOROMETHANE	<	<	<	<	UG/L
BROMOFORM	<	<	<	<	UG/L
CHLOROBENZENE	<	<	<	<	UG/L
VINYL CHLORIDE	<	<	<	<	UG/L
O-DICHLOROBENZENE	<	<	<	<	UG/L
M-DICHLOROBENZENE	<	<	<	<	UG/L
P-DICHLOROBENZENE	<	<	<	<	UG/L
1,1-DICHLOROETHANE	<	<	<	<	UG/L
1,1,2-TRICHLOROETHANE	<	<	<	<	UG/L
1,2-DICHLOROETHANE	<	<	<	<	UG/L
BENZENE	<	<	<	<	UG/L
TOLUENE	<	<	<	<	UG/L
ETHYL BENZENE	<	<	<	<	UG/L
VINYL ACETATE	<	<	<	<	UG/L
O-XYLENE	<	<	<	<	UG/L
TRANS-1,2-DICHLOROETHYLENE	<	<	<	<	UG/L
BROMOMETHANE	<	<	<	<	UG/L
CHLOROETHANE	<	<	<	<	UG/L
2-CHLOROETHYL VINYLETHER	<	<	<	<	UG/L
CHLOROMETHANE	<	<	<	<	UG/L
1,2-DICHLOROPROPANE	<	<	<	<	UG/L
CIS-1,3-DICHLOROPROPENE	<	<	<	<	UG/L
TRANS-1,3-DICHLOROPROPENE	<	<	<	<	UG/L
1,1,2,2-TETRACHLOROETHANE	<	<	<	<	UG/L
ACRYLONITRILE	<	<	<	<	UG/L
ACETONITRILE	<	<	<	<	UG/L
FREON 12 (CCL2F2)	<	<	<	<	UG/L
FREON 11 (CCL3F)	<	<	<	<	UG/L

FOOTNOTES : A-AVERAGE

B-AMENDED TEST RESULT

C-DUPLICATE SPIKE

D-DUP & SPIKE

E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6		WELL RMW6		WELL RMW6	
		03/01/99	06/03/99	09/20/99	12/01/99	03/01/99	06/03/99
VOLATILE ORGANIC COMPOUNDS							
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	14	12	11	11	11	11
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5
	CS2						
	C6H12O						
ACID-BASE NEUTRAL EXTRACTABLE							
ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<
4-AMINOBIHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<
DIALALATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6 SJ02516 03/01/99	WELL RMW6 SJ06547 06/03/99	WELL RMW6 SJ10581 09/20/99	WELL RMW6 SJ13585 12/01/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	1
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	15
PENTACHLORONITROBENZENE	UG/L	<	<	<	1
PHENACETIN	UG/L	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	20
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	15
SYM-TRINITROBENZENE	UG/L	<	<	<	1
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G.H.I.) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-AVERAGE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6	WELL RMW6
SJ02516		SJ06547	SJ10581	SJ13585		
03/01/99		06/03/99	09/20/99	12/01/99		

ACID-BASE	NEUTRAL	EXTRACTABLE							
DI-N-BUTYL PHTHALATE	UG/L		<				1		
2,4-DINITROTOLUENE	UG/L		<				1		
2,6-DINITROTOLUENE	UG/L		<				1		
DI-N-OCTYL PHTHALATE	UG/L		<				1		
FLUORANTHENE	UG/L		<				1		
FLUORENE	UG/L		<				1		
HEXACHLOROBENZENE	UG/L		<				1		
HEXACHLOROBUTADIENE	UG/L		<				1		
HEXACHLOROCYCLOPENTADIENE	UG/L		<				5		
HEXACHLOROETHANE	UG/L		<				1		
INDENO(1,2,3-C,D) PYRENE	UG/L		<				1		
ISOPHORONE	UG/L		<				1		
NAPHTHALENE	UG/L		<				1		
NITROBENZENE	UG/L		<				1		
N-NITROSODIMETHYLAMINE	UG/L		<				1		
N-NITROSODI-N-PROPYLAMINE	UG/L		<				1		
PHENANTHRENE	UG/L		<				1		
PYRENE	UG/L		<				1		
2-CHLOROPHENOL	UG/L		<				1		
1,2,4-TRICHLOROBENZENE	UG/L		<				1		
2,4-DICHLOROPHENOL	UG/L		<				1		
2,4-DIMETHYLPHENOL	UG/L		<				1		
2,4-DINITROPHENOL	UG/L		<				6		
2-METHYL-4,6DINITROPHENOL	UG/L		<				1		
2-NITROPHENOL	UG/L		<				1		
4-NITROPHENOL	UG/L		<				1		
4-CHLORO-3-METHYLPHENOL	UG/L		<				1		
PENTACHLOROPHENOL	UG/L		<				1		
PHENOL	UG/L		<				1		
2,4,6-TRICHLOROPHENOL	UG/L		<				1		
N-NITROSODIPHENYLAMINE	UG/L		<				1		
O-CRESOL	UG/L		<				1		
M+P CRESOL	UG/L		<				1		

FOOTNOTES : A-AVERAGE B-AMENDED TEST RESULT C-DUPLICATE SPIKE D-DUP & SPIKE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFT
 RMWG
 SJ10580
 09/20/99

CONSTITUENT/WELL NO.	UNITS	VALUES	EXCEEDED	INTERFERENCE	AVERAGE	DUPS
CATIONS						
IRON	MG/L FE	< 0.05				
MANGANESE	MG/L MN	6.94				
METALS						
ARSENIC	MG/L AS	< .0010				
BARIIUM	MG/L BA	0.03				
CADMIUM	MG/L CD	< 0.002				
TOTAL CHROMIUM	MG/L CR	< 0.01				
COBALT	MG/L CO	< 0.01				
COPPER	MG/L CU	< 0.01				
LEAD	MG/L PB	< 0.010				
MERCURY	MG/L HG	< .0001				
NICKEL	MG/L NI	< 0.02				
SELENIUM	MG/L SE	< .0010				
SILVER	MG/L AG	< 0.01				
ZINC	MG/L ZN	< 0.01				
ANTIMONY	MG/L SB	< .0005				
BERYLLIUM	MG/L BE	< .0025				
THALLIUM	MG/L TL	< 0.001				
TIN	MG/L SN	< 0.06				
VANADIUM	MG/L V	< 0.05				

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL				WELL	WELL	WELL	WELL
		M10B	M10B	M10B	M10B				
DEPTH TO WATER	FT	52.48	52.48	53.3	53.3	53.56			
DEPTH TO BOTTOM	FT	89.51	89.45	89.45	89.45	89.45			
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
PERCENT OXYGEN IN GAS	%O2	20	20	18	18	20			
FIELD WATER TEMPERATURE	DEG C	22.49	21.64	22.07	22.07	22.01			
FIELD PH	PH	6.63	6.64	6.79	6.79	7.35			
FIELD CONDUCTIVITY	UMHOS/CM	2417	2434	2457	2457	2355			
FIELD DISSOLVED O2	MG/L	0.75	1.11	1.35	1.35	0.79			
FIELD DISSOLVED CO2	MG/L	170	158	110	110	0.30			
GENERAL									
PH	PH	7.10	7.08	7.05	7.11	7.11			
CONDUCTIVITY	UMHOS/CM	1933	1902	2047	2480	2018		1860	
TOTAL DISSOLVED SOLIDS	MG/L				1225				
TOTAL HARDNESS	MG/L				<0.005				
TOTAL CYANIDE	MG/L CN				0.36				
BORON	MG/L B								
ANIONS									
NITRATE NITROGEN	MG/L N	0.15	0.16	0.29	0.45	0.60		D	
SULFATE	MG/L SO4	938	947	956	944	916		D	
CHLORIDE	MG/L CL	100	102	92.5	95.1	90.3		A	
TOTAL ALKALINITY	MG/L CACO3	413	415	394	388	382			
BICARBONATE ALKALINITY	MG/L CACO3	413	415	394	388	382			
TOTAL SULFIDE	MG/L S								
FLUORIDE	MG/L F				< 0.1				
CATIONS					1.15				
CALCIUM-HARDNESS	MG/L CACO3	574	564	594	607	574			
MAGNESIUM-HARDNESS	MG/L CACO3	564	568	568	580	543			
SODIUM	MG/L NA	159	155	157	160	162			
POTASSIUM	MG/L K	6.9	6.9	6.0	6.1	6.5			
IRON	MG/L FE								
MANGANESE	MG/L MN				0.75				
ORGANIC MATTER					1.36				
AMMONIA NITROGEN	MG/L N	0.1	0.1	0.3	0.2	< 0.1			

FOOTNOTES : A - AVERAGE B-DUP & SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B	WELL M10B	WELL M10B	WELL M10B	WELL M10B	WELL M10B
SJ02502		SJ02503	SJ06468	SJ05469	SJ09942	SJ13586	
03/01/99		03/01/99	06/02/99	06/02/99	09/01/99	12/01/99	

ORGANIC MATTER	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
TOTAL BOD	<	2 B	<	2 B	<	2	<
SOLUBLE BOD	<	10	<	10 B	<	10	<
TOTAL COD	<	1.77	<	1.71	<	2.06	<
SOLUBLE COD	<	10	<	10 B	<	10	<
TOTAL ORGANIC CARBON	<	1.77	<	2.08 D	<	2.06	<
OIL & GREASE	<	1.77	<	1.97	<	4.0	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L					28 D	

METALS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
ARSENIC	<	0.011	<	0.02	<	0.02	<
BARIUM	<	0.02	<	0.02	<	0.02	<
CADMIUM	<	<	<	<	<	<	<
TOTAL CHROMIUM	<	<	<	<	<	<	<
COBALT	<	<	<	<	<	<	<
COPPER	<	<	<	<	<	<	<
LEAD	<	<	<	<	<	<	<
MERCURY	<	<	<	<	<	<	<
NICKEL	<	<	<	<	<	<	<
SELENIUM	<	<	<	<	<	<	<
SILVER	<	<	<	<	<	<	<
ZINC	<	<	<	<	<	<	<
ANTIMONY	<	<	<	<	<	<	<
BERYLLIUM	<	<	<	<	<	<	<
THALLIUM	<	<	<	<	<	<	<
TIN	<	<	<	<	<	<	<
VANADIUM	<	<	<	<	<	<	<

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
2,4,5-T	<	0.05	<	0.1	<	1	<
DINOSEB	<	<	<	<	<	<	<
THIONAZIN	<	<	<	<	<	<	<
DIMETHOATE	<	<	<	<	<	<	<
DISULFOTON	<	<	<	<	<	<	<
METHYL PARATHION	<	<	<	<	<	<	<
ETHYL PARATHION	<	<	<	<	<	<	<
PHORATE	<	<	<	<	<	<	<
PP'-DDE	<	<	<	<	<	<	<
PP'-DDD	<	<	<	<	<	<	<
PP'-DDT	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ02502 03/01/99	WELL M10B SJ02503 03/01/99	WELL M10B SJ06468 06/02/99	WELL M10B SJ06469 09/01/99	WELL M10B SJ09942 12/01/99
ALPHA-BHC	UG/L	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ02502 03/01/99	WELL M10B SJ02503 03/01/99	WELL M10B SJ06468 06/02/99	WELL M10B SJ06469 06/02/99	WELL M10B SJ09942 09/01/99	WELL M10B SJ13586 12/01/99
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1
CHLOROFORM	UG/L	<	1	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	10	<	10	<	10
TRICHLOROETHYLENE	UG/L	11	10	3	19	8	2
TETRACHLOROETHYLENE	UG/L	18	1	1	1	1	1
BROMODICHLOROMETHANE	UG/L	1	1	1	1	1	1
DIBROMOCHLOROMETHANE	UG/L	1	1	1	1	1	1
BROMOFORM	UG/L	1	1	1	1	1	1
CHLOROBENZENE	UG/L	1	1	0.6	0.6	0.4	0.4
VINYL CHLORIDE	UG/L	1	1	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	2	2	1	1	1	1
P-DICHLOROBENZENE	UG/L	4	4	3	3	2	2
1,1-DICHLOROETHANE	UG/L	<	0.7	<	0.5	<	0.3
1,1,2-TRICHLOROETHANE	UG/L	0.8	0.5	0.6	0.5	0.4	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5
BENZENE	UG/L	1	1	1	1	1	1
TOLUENE	UG/L	1	1	1	1	1	1
ETHYL BENZENE	UG/L	1	1	1	1	1	1
VINYL ACETATE	UG/L	10	10	10	10	10	10
O-XYLENE	UG/L	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1
CHLOROETHANE	UG/L	1	1	1	1	1	1
2-CHLOROETHYL VINYLETHER	UG/L	1	1	1	1	1	1
CHLOROMETHANE	UG/L	1	1	1	1	1	1
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	<	<	<	<	<
ACRYLONITRILE	UG/L	10	10	10	10	10	10
ACETONITRILE	UG/L	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	1	1	1	1	1	1

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B		WELL M10B		WELL M10B		WELL M10B	
		03/01/99	03/01/99	06/02/99	06/02/99	09/01/99	09/01/99	12/01/99	12/01/99
VOLATILE ORGANIC COMPOUNDS									
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	35	31	20	21	15	16	10	16
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	5	5	5	5	5	5	5	5
ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B 03/01/99	WELL M10B 03/01/99	WELL M10B 06/02/99	WELL M10B 06/02/99	WELL M10B 09/01/99	WELL M10B 12/01/99
ACID-BASE NEUTRAL EXTRACTABLE							
M-NITROANILINE	UG/L						
P-NITROANILINE	UG/L						
N-NITROSODI-N-BUTYLAMINE	UG/L						
N-NITROSODIETHYLAMINE	UG/L						
N-NITROSOMETHYLETHYLAMINE	UG/L						
N-NITROSOPIPERIDINE	UG/L						
N-NITROSOPYRROLIDINE	UG/L						
5-NITRO-O-TOLUIDINE	UG/L						
PENTACHLOROBENZENE	UG/L						
PENTACHLORONITROBENZENE	UG/L						
PHENACETIN	UG/L						
P-PHENYLENEDIAMINE	UG/L						
PRONAMIDE	UG/L						
SAFROLE	UG/L						
1,2,4,5-TETRACHLOROBENZEN	UG/L						
2,3,4,6-TETRACHLOROPHENOL	UG/L						
O-TOLUIDINE	UG/L						
O,O-O-TRIETHYLPHOSPHOROTH	UG/L						
SYM-TRINITROBENZENE	UG/L						
ACENAPHTHENE	UG/L						
ACENAPHTHYLENE	UG/L						
ANTHRACENE	UG/L						
BENZIDINE	UG/L						
BENZO (A) ANTHRACENE	UG/L						
BENZO (A) PYRENE	UG/L						
BENZO (B) FLUORANTHENE	UG/L						
BENZO (G, H, I, J) PERYLENE	UG/L						
BENZO (K) FLUORANTHENE	UG/L						
BIS (2-CL-ETHOXY) METHANE	UG/L						
BIS (2-CHLOROETHYL) ETHER	UG/L						
BIS (2-CL-ISOPROPYL) ETHER	UG/L						
DIETHYLHEXYL PHTHALATE	UG/L						
4-BROMOPHENYL PHENYLETHER	UG/L						
BUTYL BENZYL PHTHALATE	UG/L						
2-CHLORONAPHTHALENE	UG/L						
4-CHLOROPHENYLPHENYLETHER	UG/L						
CHRYSENE	UG/L						
DIBENZO (A, H) ANTHRACENE	UG/L						
3,3'-DICHLOROBENZIDINE	UG/L						
DIETHYL PHTHALATE	UG/L						
DIMETHYL PHTHALATE	UG/L						

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M10B SJ02502 03/01/99	WELL M10B SJ02503 03/01/99	WELL M10B SJ06468 06/02/99	WELL M10B SJ06469 06/02/99	WELL M10B SJ09942 09/01/99	WELL M10B SJ13586 12/01/99
ACID-BASE NEUTRAL EXTRACTABLE							
DI-N-BUTYL PHTHALATE	UG/L						
2,4-DINITROTOLUENE	UG/L						
2,6-DINITROTOLUENE	UG/L						
DI-N-OCTYL PHTHALATE	UG/L						
FLUORENE	UG/L						
HEXACHLOROBENZENE	UG/L						
HEXACHLOROBUTADIENE	UG/L						
HEXACHLOROCYCLOPENTADIENE	UG/L						
HEXACHLOROETHANE	UG/L						
INDENO(1,2,3-C,D) PYRENE	UG/L						
ISOPHORONE	UG/L						
NAPHTHALENE	UG/L						
NITROBENZENE	UG/L						
N-NITROSODIMETHYLAMINE	UG/L						
N-NITROSODI-N-PROPYLAMINE	UG/L						
PHENANTHRENE	UG/L						
PYRENE	UG/L						
2-CHLOROPHENOL	UG/L						
1,2,4-TRICHLOROBENZENE	UG/L						
2,4-DICHLOROPHENOL	UG/L						
2,4-DIMETHYLPHENOL	UG/L						
2,4-DINITROPHENOL	UG/L						
2-METHYL-4,6DINITROPHENOL	UG/L						
2-NITROPHENOL	UG/L						
4-NITROPHENOL	UG/L						
4-CHLORO-3-METHYLPHENOL	UG/L						
PENTACHLOROPHENOL	UG/L						
PHENOL	UG/L						
2,4,6-TRICHLOROPHENOL	UG/L						
N-NITROSODIPHENYLAMINE	UG/L						
O-CRESOL	UG/L						
M+P CRESOL	UG/L						

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M10B SJ09940 09/01/99
CATIONS		
IRON	MG/L FE	< 0.05
MANGANESE	MG/L MN	1.32
METALS		
ARSENIC	MG/L AS	< .0010
BARIUM	MG/L BA	0.02
CADMIUM	MG/L CD	<0.002
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	<0.010
MERCURY	MG/L HG	<.0001
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	<.0010
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	< 0.01
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025
THALLIUM	MG/L TL	<0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A	WELL M11A	WELL M11A	WELL M11A
FIELD PARAMETERS					
DEPTH TO WATER	FT	25.37	25.35	25.42	25.4
DEPTH TO BOTTOM	FT	45.4	45.49	45.43	45.5
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	18	15	15	18
FIELD WATER TEMPERATURE	DEG C	20.4	22.71	23.31	20.65
FIELD PH	PH	6.77	6.74	6.94	7.06
FIELD CONDUCTIVITY	UMHOS/CM	1695	1691	1681	1674
FIELD DISSOLVED O2	MG/L	0.38	0.2	0.56	0.46
FIELD DISSOLVED CO2	MG/L			0.67	
GENERAL					
PH	PH	7.35	7.20	7.20	7.25
CONDUCTIVITY	UMHOS/CM	1263	1301	1700	1265
TOTAL DISSOLVED SOLIDS	MG/L			1291	
TOTAL HARDNESS	MG/L			820	
TOTAL CYANIDE	MG/L CN			< 0.005	
BORON	MG/L B			< 0.20	
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	557	579	532	545
CHLORIDE	MG/L CL	66.7	65.9	63.5	66.0
TOTAL ALKALINITY	MG/L CACO3			334	
BICARBONATE ALKALINITY	MG/L CACO3			334	
TOTAL SULFIDE	MG/L S			0.1	
FLUORIDE	MG/L F			0.65	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3			424	
MAGNESIUM-HARDNESS	MG/L CACO3			396	
SODIUM	MG/L NA			71.1	
POTASSIUM	MG/L K			7.2	
IRON	MG/L FE			0.63	
MANGANESE	MG/L MN			0.09	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N			0.4	

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ02687 03/03/99	WELL M11A SJ06725 06/07/99	WELL M11A SJ09943 09/01/99	WELL M11A SJ14196 12/16/99
ORGANIC MATTER					
TOTAL BOD	MG/L O			6	
SOLUBLE BOD	MG/L O			3	
TOTAL COD	MG/L O		<	10	
SOLUBLE COD	MG/L O		<	10	
TOTAL ORGANIC CARBON	MG/L C			1.62	
OIL & GREASE	MG/L EXTRAC		<	4.0	
TOTAL ORGANIC HALOGEN (TOX)	UG/L	23 A	14 A	18 B	
METALS					
ARSENIC	MG/L AS		<	0.0010	D
BARIUM	MG/L BA			0.02	D
CADMIUM	MG/L CD		<	0.002	D
TOTAL CHROMIUM	MG/L CR		<	0.01	D
COBALT	MG/L CO		<	0.01	D
COPPER	MG/L CU		<	0.01	D
LEAD	MG/L PB		<	0.010	D
MERCURY	MG/L HG		<	0.0001	D
NICKEL	MG/L NI		<	0.02	D
SELENIUM	MG/L SE		<	0.010	D
SILVER	MG/L AG		<	0.01	D
ZINC	MG/L ZN		<	0.02	D
ANTIMONY	MG/L SB		<	0.0005	D
BERYLLIUM	MG/L BE		<	0.0025	D
THALLIUM	MG/L TL		<	0.001	D
TIN	MG/L SN		<	0.06	D
VANADIUM	MG/L V		<	0.05	D
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L			<	0.05
DINoseb	UG/L			<	0.1
THIONAZIN	UG/L			<	1
DIMETHOATE	UG/L			<	1
DISULFOTON	UG/L			<	1
METHYL PARATHION	UG/L			<	1
ETHYL PARATHION	UG/L			<	1
PHORATE	UG/L			<	1
PP'-DDE	UG/L			<	0.01
PP'-DDD	UG/L			<	0.01
PP'-DDT	UG/L			<	0.01

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ02687 03/03/99	WELL M11A SJ06725 06/07/99	WELL M11A SJ09943 09/01/99	WELL M11A SJ14196 12/16/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	<	<	0.01	<
LINDANE (GAMMA-BHC)	UG/L	<	<	0.01	<
HEPTACHLOR	UG/L	<	<	0.01	<
HEPTACHLOR EPOXIDE	UG/L	<	<	0.01	<
ALDRIN	UG/L	<	<	0.01	<
DIELDRIN	UG/L	<	<	0.01	<
ENDRIN	UG/L	<	<	0.5	<
TOXAPHENE	UG/L	<	<	0.01	<
METHOXYCLOR	UG/L	<	<	0.5	<
2,4-D (ACID)	UG/L	<	<	0.05	<
2,4,5-TP (SILVEX)	UG/L	<	<	0.1	<
AROCLOR 1242	UG/L	<	<	0.05	<
AROCLOR 1254	UG/L	<	<	0.01	<
BETA-BHC	UG/L	<	<	0.01	<
DELTA-BHC	UG/L	<	<	0.01	<
ENDOSULFAN I	UG/L	<	<	0.01	<
ENDOSULFAN II	UG/L	<	<	0.1	<
ENDOSULFAN SULFATE	UG/L	<	<	0.01	<
ENDRIN ALDEHYDE	UG/L	<	<	0.01	<
AROCLOR 1016	UG/L	<	<	0.1	<
AROCLOR 1221	UG/L	<	<	0.1	<
AROCLOR 1232	UG/L	<	<	0.1	<
AROCLOR 1248	UG/L	<	<	0.1	<
AROCLOR 1260	UG/L	<	<	0.1	<
TECHNICAL CHLORDANE	UG/L	<	<	0.05	<
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	<	1	<	1
BROMOCHLOROMETHANE	UG/L	<	<	1	<
CHLOROPRENE	UG/L	<	<	0.01	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.01	<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1
1,3-DICHLOROPROPANE	UG/L	<	<	0.3	<
2,2-DICHLOROPROPANE	UG/L	<	<	1	<
1,1-DICHLOROPROPENE	UG/L	<	<	1	<
ISOBUTYL ALCOHOL	UG/L	<	<	10	<
METHACRYLONITRILE	UG/L	<	<	10	<
METHYL IODIDE	UG/L	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1
PROPIONITRILE	UG/L	<	<	10	<

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ02687 03/03/99	WELL M11A SJ06725 06/07/99	WELL M11A SJ09943 09/01/99	WELL M11A SJ14196 12/16/99
VOLATILE ORGANIC COMPOUNDS					
1,1,2-TETRACHLOROETHANE	UG/L	1	1	1	1
1,2,3-TRICHLOROPROPANE	UG/L	1	1	1	1
METHYL METHACRYLATE	UG/L			10	
ETHYL METHACRYLATE	UG/L			5	
METHYLENE CHLORIDE	UG/L	1	1	1	1
CHLOROFORM	UG/L	1	1	1	1
1,1,1-TRICHLOROETHANE	UG/L	1	1	1	1
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	1	1	1	1
TRICHLOROETHYLENE	UG/L	1	1	1	1
TETRACHLOROETHYLENE	UG/L	1	1	1	1
BROMODICHLOROMETHANE	UG/L	1	1	1	1
DIBROMOCHLOROMETHANE	UG/L	1	1	1	1
BROMOFORM	UG/L	1	1	1	1
CHLOROBENZENE	UG/L	1	1	1	1
VINYL CHLORIDE	UG/L	0.3	0.3	0.3	0.3
O-DICHLOROBENZENE	UG/L	1	1	1	1
M-DICHLOROBENZENE	UG/L	1	1	1	1
P-DICHLOROBENZENE	UG/L	1	1	1	1
1,1-DICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3
1,1,2-TRICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
1,2-DICHLOROETHANE	UG/L	1	1	1	1
BENZENE	UG/L	1	1	1	1
TOLUENE	UG/L	1	1	1	1
ETHYL BENZENE	UG/L	1	1	1	1
VINYL ACETATE	UG/L	10 B	10	10	10
O-XYLENE	UG/L	1	1	1	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	1	1	1	1
BROMOMETHANE	UG/L	1	1	1	1
CHLOROETHANE	UG/L	1	1	1	1
2-CHLOROETHYL VINYLETHER	UG/L	1	1	1	1
CHLOROMETHANE	UG/L	1	1	1	1
1,2-DICHLOROPROPANE	UG/L	1	1	1	1
Cis-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
ACROLEIN	UG/L	10	10	10	10
ACRYLONITRILE	UG/L	10	10	10	10
ACETONITRILE	UG/L	20	20	20	20
FREON 12 (CCL2F2)	UG/L	1	1	1	1
FREON 11 (CCL3F)	UG/L	1	1	1	1

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ02687 03/03/99	WELL M11A SJ06725 06/07/99	WELL M11A SJ09943 09/01/99	WELL M11A SJ14196 12/16/99
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5
					CS2
					C6H12O
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

CONSTITUENT/WELL NO.	UNITS	B-AMENDED TEST RESULT	C-CALCULATED VALUE	D-INTERFERENCE	E-AVERAGE OF DUPS
			H-CHECK NOTES TO USER		
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	<	<	<	<
ACETONE	UG/L	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<
2-BUTANONE	UG/L	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<
STYRENE	UG/L	<	<	<	<
2,4,5-TRICHLOROPHENOL	UG/L	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<
2-HEXANONE	UG/L	<	<	<	<
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-AVERAGE F-DUP & SPIKE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ02687 03/03/99	WELL M11A SJ06725 06/07/99	WELL M11A SJ09943 09/01/99	WELL M11A SJ14196 12/16/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	1
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	5
PENTACHLORONITROBENZENE	UG/L	<	<	<	1
PHENACETIN	UG/L	<	<	<	20
P-PHENYLENEDIAMINE	UG/L	<	<	<	1
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRITHYLPHOSPHOROTH	UG/L	<	<	<	5
SYM-TRINITROBENZENE	UG/L	<	<	<	1
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	20
BENZIDINE	UG/L	<	<	<	1
BENZO (A) ANTHRACENE	UG/L	<	<	<	0.2
BENZO (A) PYRENE	UG/L	<	<	<	1
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G, H, I) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	2
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DI-CHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS H-CHECK NOTES TO USER

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TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M11A SJ02687 03/03/99	WELL M11A SJ06725 06/07/99	WELL M11A SJ09943 09/01/99	WELL M11A SJ14196 12/16/99
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L				1
2,4-DINITROTOLUENE	UG/L				1
2,6-DINITROTOLUENE	UG/L				1
DI-N-OCTYL PHTHALATE	UG/L				1
FLUORANTHENE	UG/L				1
FLUORENE	UG/L				1
HEXACHLOROBENZENE	UG/L				1
HEXACHLOROBUTADIENE	UG/L				1
HEXACHLOROCYCLOPENTADIENE	UG/L				5
HEXACHLOROETHANE	UG/L				1
INDENO (1,2,3-C,D) PYRENE	UG/L				1
ISOPHORONE	UG/L				1
NAPHTHALENE	UG/L				1
NITROBENZENE	UG/L				1
N-NITROSODIMETHYLAMINE	UG/L				1
N-NITROSODI-N-PROPYLAMINE	UG/L				1
PHENANTHRENE	UG/L				1
PYRENE	UG/L				1
2-CHLOROPHENOL	UG/L				1
1,2,4-TRICHLOROBENZENE	UG/L				1
2,4-DICHLOROPHENOL	UG/L				1
2,4-DIMETHYLPHENOL	UG/L				1
2,4,4-DINITROPHENOL	UG/L				6
2-METHYL-4,6DINITROPHENOL	UG/L				1
2-NITROPHENOL	UG/L				1
4-NITROPHENOL	UG/L				1
4-CHLORO-3-METHYLPHENOL	UG/L				1
PENTACHLOROPHENOL	UG/L				1
PHENOL	UG/L				1
2,4,6-TRICHLOROPHENOL	UG/L				1
N-NITROSODIPHENYLAMINE	UG/L				1
O-CRESOL	UG/L				1
M+P CRESOL	UG/L				1

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 H-CHECK NOTES TO USER

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFI			
M11A			
SJ09941			
09/01/99			

CONSTITUENT/WELL NO.	UNITS		
CATIONS			
IRON	MG/L FE	0.61	
MANGANESE	MG/L MN	0.09	
METALS			
ARSENIC	MG/L AS	<.0010	
BARIUM	MG/L BA	0.02	
CADMIUM	MG/L CD	<0.002	
TOTAL CHROMIUM	MG/L CR	< 0.01	
COBALT	MG/L CO	< 0.01	
COPPER	MG/L CU	< 0.01	
LEAD	MG/L PB	<0.010	
MERCURY	MG/L HG	<.0001	
NICKEL	MG/L NI	< 0.02	
SELENIUM	MG/L SE	<.0010	
SILVER	MG/L AG	< 0.01	
ZINC	MG/L ZN	< 0.01	
ANTIMONY	MG/L SB	<.0005	
BERYLLIUM	MG/L BE	<.0025	
THALLIUM	MG/L TL	<0.001	
TIN	MG/L SN	< 0.06	
VANADIUM	MG/L V	< 0.05	

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE 1.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ02865 03/08/99	WELL EMP4 SJ02866 03/08/99	WELL EMP4 SJ06782 06/08/99	WELL EMP4 SJ06783 06/08/99	WELL EMP4 SJ10079 09/07/99	WELL EMP4 SJ13954 12/09/99
FIELD PARAMETERS							
DEPTH TO WATER	FT	19.77	19.88	19.81	20.05	19.9	
DEPTH TO BOTTOM	FT	173.4	183.8	173.4	173.5	184.0	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	20	18	17	17	19	
FIELD WATER TEMPERATURE	DEG C	20.62	19.81	21.75	21.75	19.95	
FIELD PH	PH	6.6	7.09	7.02	7.02	7.57	
FIELD CONDUCTIVITY	UMHOS/CM	1695	1691	1600	1600	1697	
FIELD DISSOLVED O2	MG/L	0.15	0.12	0.11	0.11	0.19	
FIELD DISSOLVED CO2	MG/L		43		64	0.19	
GENERAL							
PH	PH	7.60 A	7.58	7.58	7.56	7.58 A	7.56
CONDUCTIVITY	UMHOS/CM	1207	1183	1182	1680	1689	1187
TOTAL DISSOLVED SOLIDS	MG/L			650 E	1196	1211	
TOTAL HARDNESS	MG/L			650 E	656 E	670 E	
TOTAL CYANIDE	MG/L CN			<0.005	<0.005	<0.005 B	
BORON	MG/L B			0.37	0.42	0.27	
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05 B	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	497 B	523	496	503	467	460
CHLORIDE	MG/L CL	78.6 B	82.2 D	73.9 D	71.7 D	65.1 D	68.1 D
TOTAL ALKALINITY	MG/L CACO3	300	300	300	309	380	
BICARBONATE ALKALINITY	MG/L CACO3	300	300	300	309	380	
TOTAL SULFIDE	MG/L S	0.1 A	0.1 A	0.1 A	0.1	< 0.1 A	
FLUORIDE	MG/L F	0.63	0.63	0.63	0.63	0.64	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3	382	385	382	385	402	
MAGNESIUM-HARDNESS	MG/L CACO3	268	271	268	271	268	
SODIUM	MG/L NA	137	138	137	138	134	
POTASSIUM	MG/L K	8.9	8.4	8.9	8.4	8.6	
IRON	MG/L FE	0.75	0.91	0.75	0.91	0.99	
MANGANESE	MG/L MN	0.35	0.34	0.35	0.34	0.33	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	0.2	

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-AVERAGE E-CALCULATED VALUE
F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPA SJ02865 03/08/99	WELL EMPA SJ02866 03/08/99	WELL EMPA SJ06782 06/08/99	WELL EMPA SJ06783 06/08/99	WELL EMPA SJ10079 09/07/99	WELL EMPA SJ13954 12/09/99
ORGANIC MATTER							
TOTAL BOD	MG/L	7	<	2	<	4	F
SOLUBLE BOD	MG/L	5	<	10	<	10	2
TOTAL COD	MG/L	10	<	10	<	10	10
SOLUBLE COD	MG/L	<	<	2.85	<	2.35	10
TOTAL ORGANIC CARBON	MG/L	3.15	<	3.0	<	3.0	3.0
OIL & GREASE	MG/L	68	B	55	D	58	B
TOTAL ORGANIC HALOGEN (TOX)	UG/L						
METALS							
ARSENIC	MG/L	.0057	.0057	.0057	.0048	.0048	
BARIUM	MG/L	0.01	0.01	0.01	0.01	0.01	
CADMIUM	MG/L	<0.003	<0.003	<0.003	<0.002	<0.002	
TOTAL CHROMIUM	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01	
COBALT	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01	
COPPER	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01	
LEAD	MG/L	<0.01	<0.01	<0.01	0.023	0.023	
NICKEL	MG/L	<0.001	<0.001	<0.001	<0.001	<0.001	
SELENIUM	MG/L	0.02	0.02	0.02	0.02	0.02	
SILVER	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01	
ZINC	MG/L	<0.01	<0.01	<0.01	<0.01	<0.01	
ANTIMONY	MG/L	<0.005	<0.005	<0.005	<0.005	<0.005	
BERYLLIUM	MG/L	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
THALLIUM	MG/L	<0.001	<0.001	<0.001	<0.001	<0.001	
TIN	MG/L	<0.06	<0.06	<0.06	<0.06	<0.06	
VANADIUM	MG/L	<0.05	<0.05	<0.05	<0.05	<0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L				<	0.05	
DINOSB	UG/L				<	0.1	
THIONAZIN	UG/L				<	1	
DIMETHOATE	UG/L				<	1	
DISULFOTON	UG/L				<	1	
METHYL PARATHION	UG/L				<	1	
ETHYL PARATHION	UG/L				<	1	
PHORATE	UG/L				<	1	
PP'-DDE	UG/L				<	0.01	
PP'-DDD	UG/L				<	0.01	
PP'-DDT	UG/L				<	0.01	

FOOTNOTES : A-AVERAGE OF DUPS F-DUP & SPIKE B-DUPLICATE SPIKE G-10% RULE EXCEEDED C-AMENDED TEST RESULT H-CHECK NOTES TO USER D-AVERAGE E-CALCULATED VALUE

TABLE A.1
WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ02865 03/08/99	WELL EMP4 SJ02866 03/08/99	WELL EMP4 SJ06782 06/08/99	WELL EMP4 SJ06783 06/08/99	WELL EMP4 SJ10079 09/07/99	WELL EMP4 SJ13954 12/09/99
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<	<
METHOXYCYCLOR	UG/L	<	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<
AROCFLOR 1242	UG/L	<	<	<	<	<	<
AROCFLOR 1254	UG/L	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<
AROCFLOR 1016	UG/L	<	<	<	<	<	<
AROCFLOR 1221	UG/L	<	<	<	<	<	<
AROCFLOR 1232	UG/L	<	<	<	<	<	<
AROCFLOR 1248	UG/L	<	<	<	<	<	<
AROCFLOR 1260	UG/L	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<
1,1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS F-DUP & SPIKE B-DUPLICATE SPIKE G-10% RULE EXCEEDED C-AMENDED TEST RESULT H-CHECK NOTES TO USER D-AVERAGE E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ02865 03/08/99	WELL EMP4 SJ02866 03/08/99	WELL EMP4 SJ06782 06/08/99	WELL EMP4 SJ06783 06/08/99	WELL EMP4 SJ10079 09/07/99	WELL EMP4 SJ13954 12/09/99
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	1	<	1	1
1,1,2,3-TRICHLOROPROPANE	UG/L	<	<	1	<	1	<
METHYL METHACRYLATE	UG/L	<	<	<	<	10	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<
1,1-TRICHLOROETHANE	UG/L	<	<	1	<	1	1
CARBON TETRACHLORIDE	UG/L	<	<	1	<	1	1
1,1-DICHLOROETHENE	UG/L	<	0.3	<	0.3	<	0.3
TRICHLOROETHYLENE	UG/L	<	<	1	<	1	1
TETRACHLOROETHYLENE	UG/L	<	<	1	<	1	1
BROMODICHLOROMETHANE	UG/L	<	<	1	<	1	1
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	1	<	1	1
DIBROMOCHLOROMETHANE	UG/L	<	<	1	<	1	1
BROMOFORM	UG/L	<	<	1	<	1	1
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3
VINYL CHLORIDE	UG/L	<	<	1	<	1	1
O-DICHLOROBENZENE	UG/L	<	<	1	<	1	1
M-DICHLOROBENZENE	UG/L	<	<	1	<	1	1
P-DICHLOROBENZENE	UG/L	<	<	1	<	1	1
1,1-DICHLOROETHANE	UG/L	<	<	1	<	1	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	<	1	<	1	1
TOLUENE	UG/L	<	<	1	<	1	1
ETHYL BENZENE	UG/L	<	<	1	<	1	1
VINYL ACETATE	UG/L	10 C	<	10 C	<	10	<
O-XYLENE	UG/L	<	<	1	<	1	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	1	<	1	1
BROMOMETHANE	UG/L	<	<	1	<	1	1
CHLOROETHANE	UG/L	<	<	1	<	1	1
2-CHLOROETHYL VINYLETHER	UG/L	<	<	1	<	1	1
CHLOROMETHANE	UG/L	<	<	1	<	1	1
1,2-DICHLOROPROPANE	UG/L	<	<	1	<	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
ACETOLEIN	UG/L	<	<	10	<	10	<
ACRYLONITRILE	UG/L	<	<	10	<	10	10
ACETONITRILE	UG/L	<	<	<	<	20	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	1	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	1	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-AVERAGE
 F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECK NOTES TO USER E-CALCULATED VALUE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ02865 03/08/99	WELL EMP4 SJ02866 03/08/99	WELL EMP4 SJ06782 06/08/99	WELL EMP4 SJ06783 06/08/99	WELL EMP4 SJ10079 09/07/99	WELL EMP4 SJ13954 12/09/99
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VOLATILE ORGANIC COMPOUNDS

1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS
F-DUP & SPIKE

B-DUPLICATE SPIKE
G-10% RULE EXCEEDED

C-AMENDED TEST RESULT
H-CHECK NOTES TO USER

D-AVERAGE

E-CALCULATED VALUE

TABLE A.1
 WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4	WELL EMP4
M-NITROANILINE	UG/L	SJ02865	SJ02866	SJ06782	SJ06783	SJ10079	SJ13954		
P-NITROANILINE	UG/L	03/08/99	03/08/99	06/08/99	06/08/99	09/07/99	12/09/99		
N-NITROSODI-N-BUTYLAMINE	UG/L								
N-NITROSODIETHYLAMINE	UG/L								
N-NITROSOMETHYLETHYLAMINE	UG/L								
N-NITROSOPIPERIDINE	UG/L								
N-NITROSOPYRROLIDINE	UG/L								
5-NITRO-O-TOLIDINE	UG/L								
PENTACHLOROBENZENE	UG/L								
PENTACHLORONITROBENZENE	UG/L								
PHENACETIN	UG/L								
P-PHENYLENEDIAMINE	UG/L								
PRONAMIDE	UG/L								
SAFROLE	UG/L								
1,2,4,5-TETRACHLOROBENZEN	UG/L								
2,3,4,6-TETRACHLOROPHENOL	UG/L								
O-TOLIDINE	UG/L								
O,O,O-TRITHYLPHOSPHOROTH	UG/L								
SYM-TRINITROBENZENE	UG/L								
ACENAPHTHENE	UG/L								
ACENAPHTHYLENE	UG/L								
ANTHRACENE	UG/L								
BENZIDINE	UG/L								
BENZO (A) ANTHRACENE	UG/L								
BENZO (A) PYRENE	UG/L								
BENZO (B) FLUORANTHENE	UG/L								
BENZO (G, H, I) PERYLENE	UG/L								
BENZO (K) FLUORANTHENE	UG/L								
BIS (2-CL-ETHOXY) METHANE	UG/L								
BIS (2-CHLOROETHYL) ETHER	UG/L								
BIS (2-CL-ISOPROPYL) ETHER	UG/L								
DIETHYLHEXYL PHTHALATE	UG/L								
4-BROMOPHENYL PHENYLETHER	UG/L								
BUTYL BENZYL PHTHALATE	UG/L								
2-CHLORONAPHTHALENE	UG/L								
4-CHLOROPHENYLPHENYLETHER	UG/L								
CHRYSENE	UG/L								
DIBENZO (A, H) ANTHRACENE	UG/L								
3,3'-DICHLOROBENZIDINE	UG/L								
DIETHYL PHTHALATE	UG/L								
DIMETHYL PHTHALATE	UG/L								

ACID-BASE NEUTRAL EXTRACTABLE

FOOTNOTES : A-AVERAGE OF DUPS F-DUP & SPIKE B-DUPLICATE SPIKE G-10% RULE EXCEEDED C-AMENDED TEST RESULT H-CHECK NOTES TO USER D-AVERAGE E-CALCULATED VALUE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP4 SJ02865 03/08/99	WELL EMP4 SJ02866 03/08/99	WELL EMP4 SJ06782 06/08/99	WELL EMP4 SJ06783 06/08/99	WELL EMP4 SJ10079 09/07/99	WELL EMP4 SJ13954 12/09/99
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ACID-BASE NEUTRAL EXTRACTABLE

DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<	<	<
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<	<

B-DUPLICATE SPIKE G-10% RULE EXCEEDED
 C-AMENDED TEST RESULT H-CHECK NOTES TO USER
 D-AVERAGE
 E-CALCULATED VALUE

FOOTNOTES : A-AVERAGE OF DUPS F-DUP & SPIKE
 B-DUPLICATE SPIKE G-10% RULE EXCEEDED
 C-AMENDED TEST RESULT H-CHECK NOTES TO USER
 D-AVERAGE
 E-CALCULATED VALUE

TABLE A.1

WATER QUALITY DATA - BARRIER ONE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP4 SJ06780 06/08/99	WEFI EMP4 SJ06781 06/08/99	WEFI EMP4 SJ10078 09/07/99
CATIONS				
IRON	MG/L FE	0.88	0.89	1.04
MANGANESE	MG/L MN	0.35	0.34	0.34
METALS				
ARSENIC	MG/L AS	.0055	.0056	.0047
BARIUM	MG/L BA	0.01	0.01	0.01
CADMIUM	MG/L CD	<0.003	<0.003	<0.002
TOTAL CHROMIUM	MG/L CR	<0.01	<0.01	<0.01
COBALT	MG/L CO	<0.01	<0.01	<0.01
COPPER	MG/L CU	<0.01	<0.01	<0.01
LEAD	MG/L PB	<0.01	<0.01	<0.010
MERCURY	MG/L HG	<.0001	.0001	<.0001 A
NICKEL	MG/L NI	<0.02	<0.02	<0.02
SELENIUM	MG/L SE	<.0010	<.0010	<.0010
SILVER	MG/L AG	<0.01	<0.01	<0.01
ZINC	MG/L ZN	<0.01	<0.01	<0.01
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0025	<.0025	<.0025
THALLIUM	MG/L TL	<0.001	<0.001	<0.001
TIN	MG/L SN	<0.06	<0.06	<0.06
VANADIUM	MG/L V	<0.05	<0.05	<0.05

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.2
WATER QUALITY DATA
BARRIER 2 MONITORING WELLS

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ02917 03/09/99	WELL M24A SJ06724 06/07/99	WELL M24A SJ10599 09/20/99	WELL M24A SJ14548 12/30/99
FIELD PARAMETERS					
DEPTH TO WATER	FT	66.58	72.52	76.44	77.7
DEPTH TO BOTTOM	FT	85.15	85.12	85.25	85.18
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	19	19	18
FIELD WATER TEMPERATURE	DEG C	18.61	22.19	21.84	18.23
FIELD PH	PH	6.87	6.65	6.86	6.91
FIELD CONDUCTIVITY	UMHOS/CM	1683	1549	976	857
FIELD DISSOLVED O2	MG/L	1.33	1.13	1.72	1.75
FIELD DISSOLVED CO2	MG/L				
GENERAL					
PH	PH	7.18	7.09	7.59	7.26
CONDUCTIVITY	UMHOS/CM			974	
TOTAL DISSOLVED SOLIDS	MG/L	1346	1247	675	561
TOTAL HARDNESS	MG/L CaCO3			489	C
TOTAL CYANIDE	MG/L CN		< 0.005	< 0.2	
BORON	MG/L B				
ANIONS					
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	< 0.05	0.12 D
SULFATE	MG/L SO4	718	624	214	152 D
CHLORIDE	MG/L CL	18.0 A	14.8	18.6	19.4 D
TOTAL ALKALINITY	MG/L CaCO3			297	
BICARBONATE ALKALINITY	MG/L CaCO3			297	
TOTAL SULFIDE	MG/L S		< 0.1	0.1	
FLUORIDE	MG/L F		1.15	1.15	
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3			345	D
MAGNESIUM-HARDNESS	MG/L CaCO3			144	D
SODIUM	MG/L NA			31.3	D
POTASSIUM	MG/L K			6.3	D
IRON	MG/L FE			0.23	D
MANGANESE	MG/L MN			0.10	D
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N		< 0.1		

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ02917 03/09/99	WELL M24A SJ06724 06/07/99	WELL M24A SJ10599 09/20/99	WELL M24A SJ14548 12/30/99
ORGANIC MATTER					
TOTAL BOD	MG/L O	<	<	2	2
SOLUBLE BOD	MG/L O	<	<	10	10
TOTAL COD	MG/L O	<	<	1.04	3.0
SOLUBLE COD	MG/L O	<	<	3.0	3.0
TOTAL ORGANIC CARBON	MG/L C	<	<		
OIL & GREASE	MG/L EXTRAC	<	<		
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	<		
METALS					
ARSENIC	MG/L AS	<	<	0.0010	0.03
BARIUM	MG/L BA	<	<	0.002	0.01
CADMIUM	MG/L CD	<	<	0.01	0.01
TOTAL CHROMIUM	MG/L CR	<	<	0.01	0.01
COBALT	MG/L CO	<	<	0.01	0.01
COPPER	MG/L CU	<	<	0.010	0.010
LEAD	MG/L PB	<	<	0.0001	0.0001
MERCURY	MG/L HG	<	<	0.02	0.02
NICKEL	MG/L NI	<	<	0.010	0.010
SELENIUM	MG/L SE	<	<	0.01	0.01
SILVER	MG/L AG	<	<	0.0005	0.0005
ZINC	MG/L ZN	<	<	0.0025	0.0025
ANTIMONY	MG/L SB	<	<	0.001	0.001
BERYLLIUM	MG/L BE	<	<	0.06	0.06
THALLIUM	MG/L TL	<	<	0.05	0.05
TIN	MG/L SN	<	<		
VANADIUM	MG/L V	<	<		
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	<	<	0.05	0.1
DINOSB	UG/L	<	<		
THIONAZIN	UG/L	<	<		
DIMETHOATE	UG/L	<	<		
DISULFOTON	UG/L	<	<		
METHYL PARATHION	UG/L	<	<		
ETHYL PARATHION	UG/L	<	<		
PHORATE	UG/L	<	<		
PP'-DDE	UG/L	<	<	0.01	0.01
PP'-DDD	UG/L	<	<	0.01	0.01
PP'-DDT	UG/L	<	<	0.01	0.01

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A	WELL M24A	WELL M24A	WELL M24A
SJ02917		SJ06724	SJ10599	SJ14548	
03/09/99		06/07/99	09/20/99	12/30/99	

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	0.01		
LINDANE (GAMMA-BHC)	UG/L	<	0.01		
HEPTACHLOR	UG/L	<	0.01		
HEPTACHLOR EPOXIDE	UG/L	<	0.01		
ALDRIN	UG/L	<	0.01		
DIELDRIN	UG/L	<	0.01		
ENDRIN	UG/L	<	0.01		
TOXAPHENE	UG/L	<	0.5		
METHOXYCLOR	UG/L	<	0.01		
2,4-D (ACID)	UG/L	<	0.5		
2,4,5-TP (SILVEX)	UG/L	<	0.05		
AROCLOR 1242	UG/L	<	0.1		
AROCLOR 1254	UG/L	<	0.05		
BETA-BHC	UG/L	<	0.01		
DELTA-BHC	UG/L	<	0.01		
ENDOSULFAN I	UG/L	<	0.01		
ENDOSULFAN II	UG/L	<	0.01		
ENDOSULFAN SULFATE	UG/L	<	0.1		
ENDRIN ALDEHYDE	UG/L	<	0.01		
AROCLOR 1016	UG/L	<	0.1		
AROCLOR 1221	UG/L	<	0.1		
AROCLOR 1232	UG/L	<	0.1		
AROCLOR 1248	UG/L	<	0.1		
AROCLOR 1260	UG/L	<	0.1		
TECHNICAL CHLORDANE	UG/L	<	0.05		

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	1	<	1
BROMOCHLOROMETHANE	UG/L	<	1	<	1
CHLOROPRENE	UG/L	<	0.01	<	0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	<	1
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1
1,3-DICHLOROPROPANE	UG/L	<	0.3	<	0.3
2,2-DICHLOROPROPANE	UG/L	<	1	<	1
1,1-DICHLOROPROPENE	UG/L	<	1	<	1
ISOBUTYL ALCOHOL	UG/L	<	10	<	10
METHACRYLONITRILE	UG/L	<	10	<	10
METHYL IODIDE	UG/L	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1
PROPIONITRILE	UG/L	<	10	<	10

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ02917 03/09/99	WELL M24A SJ06724 06/07/99	WELL M24A SJ10599 09/20/99	WELL M24A SJ14548 12/30/99
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	1	1	<	1
METHYL METHACRYLATE	UG/L	<	<	10	<
ETHYL METHACRYLATE	UG/L	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<
BROMOFORM	UG/L	<	<	<	<
CHLOROBENZENE	UG/L	0.3	0.3	0.3	0.3
VINYL CHLORIDE	UG/L	1	1	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
BENZENE	UG/L	<	<	<	<
TOLUENE	UG/L	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<
VINYL ACETATE	UG/L	10 B	10	10	10
O-XYLENE	UG/L	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<
ACROLEIN	UG/L	<	<	<	<
ACRYLONITRILE	UG/L	10	10	10	10
ACETONITRILE	UG/L	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	20	<
FREON 11 (CCL3F)	UG/L	1	1	1	1

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A		WELL M24A		WELL M24A	
		SJ02917 03/09/99	SJ06724 06/07/99	SJ10599 09/20/99	SJ14548 12/30/99	M24A	M24A
VOLATILE ORGANIC COMPOUNDS							
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE							
ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<
4-AMINOBIHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3, 3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE F-DUP & SPIKE
B-AMENDED TEST RESULT G-10% RULE EXCEEDED
C-CALCULATED VALUE H-CHECK NOTES TO USER
D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ02917 03/09/99	WELL M24A SJ06724 06/07/99	WELL M24A SJ10599 09/20/99	WELL M24A SJ14548 12/30/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	1
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	15
PHENACETIN	UG/L	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	20
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZENE	UG/L	<	<	<	1
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O'-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO(A)ANTHRACENE	UG/L	<	<	<	1
BENZO(A)PYRENE	UG/L	<	<	<	0.2
BENZO(B)FLUORANTHENE	UG/L	<	<	<	1
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	1
BENZO(K)FLUORANTHENE	UG/L	<	<	<	1
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	1
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-AVERAGE F-DUP & SPIKE
B-AMENDED TEST RESULT G-10% RULE EXCEEDED
C-CALCULATED VALUE H-CHECK NOTES TO USER
D-INTERFERENCE
E-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M24A SJ02917 03/09/99	WELL M24A SJ06724 06/07/99	WELL M24A SJ10599 09/20/99	WELL M24A SJ14548 12/30/99
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L				1
2,4-DINITROTOLUENE	UG/L				1
2,6-DINITROTOLUENE	UG/L				1
DI-N-OCTYL PHTHALATE	UG/L				1
FLUORANTHENE	UG/L				1
FLUORENE	UG/L				1
HEXACHLOROBENZENE	UG/L				1
HEXACHLOROBUTADIENE	UG/L				1
HEXACHLOROCYCLOPENTADIENE	UG/L				5
HEXACHLOROETHANE	UG/L				1
INDENO(1,2,3-C,D)PYRENE	UG/L				1
ISOPHORONE	UG/L				1
NAPHTHALENE	UG/L				1
NITROBENZENE	UG/L				1
N-NITROSODIMETHYLAMINE	UG/L				1
N-NITROSODI-N-PROPYLAMINE	UG/L				1
PHENANTHRENE	UG/L				1
PYRENE	UG/L				1
2-CHLOROPHENOL	UG/L				1
1,2,4-TRICHLOROBENZENE	UG/L				1
2,4-DICHLOROPHENOL	UG/L				1
2,4-DIMETHYLPHENOL	UG/L				1
2,4-DINITROPHENOL	UG/L				6
2-METHYL-4,6-DINITROPHENOL	UG/L				1
2-NITROPHENOL	UG/L				1
4-NITROPHENOL	UG/L				1
4-CHLORO-3-METHYLPHENOL	UG/L				1
PENTACHLOROPHENOL	UG/L				1
PHENOL	UG/L				1
2,4,6-TRICHLOROPHENOL	UG/L				1
N-NITROSODIPHENYLAMINE	UG/L				1
O-CRESOL	UG/L				1
M+P CRESOL	UG/L				1

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	MG/L	FE	0.07
WEFI				
M24A				
SJ10598				
09/20/99				
CATIONS				
IRON	MG/L	FE		0.07
MANGANESE	MG/L	MN		0.09
METALS				
ARSENIC	MG/L	AS		< 0.010
BARIUM	MG/L	BA		0.03
CADMIUM	MG/L	CD		< 0.002
TOTAL CHROMIUM	MG/L	CR		< 0.01
COBALT	MG/L	CO		< 0.01
COPPER	MG/L	CU		< 0.01
LEAD	MG/L	PB		< 0.010
MERCURY	MG/L	HG		< 0.0001
NICKEL	MG/L	NI		0.02
SELENIUM	MG/L	SE		< 0.010
SILVER	MG/L	AG		< 0.01
ZINC	MG/L	ZN		0.30
ANTIMONY	MG/L	SB		< 0.005
BERYLLIUM	MG/L	BE		< 0.025
THALLIUM	MG/L	TL		< 0.001
TIN	MG/L	SN		< 0.06
VANADIUM	MG/L	V		< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B	WELL M27B	WELL M27B	WELL M27B
SJ02918		SJ06628	SJ09994	SJ14549	
03/09/99		06/04/99	09/02/99	12/30/99	

FIELD PARAMETERS	WELL M27B	WELL M27B	WELL M27B	WELL M27B
DEPTH TO WATER	73.32	76.85	78.88	78.88
DEPTH TO BOTTOM	82.22	82.26	82.33	82.33
PERCENT METHANE IN GAS	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	20	19	16	16
FIELD WATER TEMPERATURE	19.75	20.92	17.72	17.72
FIELD PH	6.83	6.92	6.78	6.78
FIELD CONDUCTIVITY	1345	1704	1415	1485
FIELD DISSOLVED O2	0.73	1.27	3.36	2.12
FIELD DISSOLVED CO2			3.66	

GENERAL	WELL M27B	WELL M27B	WELL M27B	WELL M27B
PH	7.14	6.82	7.51	7.09
CONDUCTIVITY			1140	C
TOTAL DISSOLVED SOLIDS	1000	1446	842	1145
TOTAL HARDNESS			687	D
TOTAL CYANIDE			< 0.005	
BORON			0.33	

ANIONS	WELL M27B	WELL M27B	WELL M27B	WELL M27B
NITRATE NITROGEN	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	464	722	312	504
CHLORIDE	17.2 A	12.8	16.5	16.0
TOTAL ALKALINITY			311	
BICARBONATE ALKALINITY			311	
TOTAL SULFIDE			< 0.1	
FLUORIDE			1.06	

CATIONS	WELL M27B	WELL M27B	WELL M27B	WELL M27B
CALCIUM-HARDNESS			542	F
MAGNESIUM-HARDNESS			145	F
SODIUM			30.2	F
POTASSIUM			6.5	F
IRON			0.37	F
MANGANESE			0.20	F

ORGANIC MATTER	WELL M27B	WELL M27B	WELL M27B	WELL M27B
AMMONIA NITROGEN			< 0.1	

FOOTNOTES : A-AVERAGE F-DUPLICATE SPIKE B-AMENDED TEST RESULT C-DUP & SPIKE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL
M27B	M27B	M27B	M27B
SJ02918	SJ06628	SJ09994	SJ14549
03/09/99	06/04/99	09/02/99	12/30/99

CONSTITUENT/WELL NO.	UNITS	WELL	WELL	WELL	WELL
ORGANIC MATTER					
TOTAL BOD	MG/L O	<	2		
SOLUBLE BOD	MG/L O	<	2		
TOTAL COD	MG/L O	<	10		
SOLUBLE COD	MG/L O	<	10		
TOTAL ORGANIC CARBON	MG/L C	<	1.23		
OIL & GREASE	MG/L EXTRAC	<	4.0		
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	4.9		
METALS					
ARSENIC	MG/L AS	<	0.010	F	
BARIUM	MG/L BA	<	0.03	F	
CADMIUM	MG/L CD	<	0.002	F	
TOTAL CHROMIUM	MG/L CR	<	0.01	F	
COBALT	MG/L CO	<	0.01	F	
COPPER	MG/L CU	<	0.01	F	
LEAD	MG/L PB	<	0.010	F	
MERCURY	MG/L HG	<	0.001	F	
NICKEL	MG/L NI	<	0.02	F	
SELENIUM	MG/L SE	<	0.010	F	
SILVER	MG/L AG	<	0.01	F	
ZINC	MG/L ZN	<	0.02	F	
ANTIMONY	MG/L SB	<	0.005	F	
BERYLLIUM	MG/L BE	<	0.025	F	
THALLIUM	MG/L TL	<	0.001	F	
TIN	MG/L SN	<	0.06	F	
VANADIUM	MG/L V	<	0.05	F	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	<	0.05		
DINoseb	UG/L	<	0.1		
THIONAZIN	UG/L	<	1		
DIMETHOATE	UG/L	<	1		
DISULFOTON	UG/L	<	1		
METHYL PARATHION	UG/L	<	1		
ETHYL PARATHION	UG/L	<	1		
PHORATE	UG/L	<	0.01		
PP'-DDE	UG/L	<	0.01		
PP'-DDD	UG/L	<	0.01		
PP'-DDT	UG/L	<	0.01		

FOOTNOTES : A-AVERAGE F-DUPLICATE SPIKE B-AMENDED TEST RESULT C-DUP & SPIKE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B	WELL M27B	WELL M27B	WELL M27B
SJ02918	SJ06628	SJ09994	SJ14549		
03/09/99	06/04/99	09/02/99	12/30/99		

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	0.01	<	0.01
LINDANE (GAMMA-BHC)	UG/L	<	0.01	<	0.01
HEPTACHLOR	UG/L	<	0.01	<	0.01
HEPTACHLOR EPOXIDE	UG/L	<	0.01	<	0.01
ALDRIN	UG/L	<	0.01	<	0.01
DIELDRIN	UG/L	<	0.01	<	0.01
ENDRIN	UG/L	<	0.01	<	0.01
TOXAPHENE	UG/L	<	0.05	<	0.05
METHOXYCHLOR	UG/L	<	0.01	<	0.01
2,4-D (ACID)	UG/L	<	0.05	<	0.05
2,4,5-TP (SILVEX)	UG/L	<	0.05	<	0.05
AROCFLOR 1242	UG/L	<	0.1	<	0.1
AROCFLOR 1254	UG/L	<	0.05	<	0.05
BETA-BHC	UG/L	<	0.01	<	0.01
DELTA-BHC	UG/L	<	0.01	<	0.01
ENDOSULFAN I	UG/L	<	0.01	<	0.01
ENDOSULFAN II	UG/L	<	0.01	<	0.01
ENDOSULFAN SULFATE	UG/L	<	0.1	<	0.1
ENDRIN ALDEHYDE	UG/L	<	0.01	<	0.01
AROCFLOR 1016	UG/L	<	0.1	<	0.1
AROCFLOR 1221	UG/L	<	0.1	<	0.1
AROCFLOR 1232	UG/L	<	0.1	<	0.1
AROCFLOR 1248	UG/L	<	0.1	<	0.1
AROCFLOR 1260	UG/L	<	0.1	<	0.1
TECHNICAL CHLORDANE	UG/L	<	0.05	<	0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	1	<	1
BROMOCHLOROMETHANE	UG/L	<	1	<	1
CHLOROPRENE	UG/L	<	0.01	<	0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	<	1
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1
1,3-DICHLOROPROPANE	UG/L	<	0.3	<	0.3
2,2-DICHLOROPROPENE	UG/L	<	1	<	1
1,1-DICHLOROPROPENE	UG/L	<	1	<	1
ISOBUTYL ALCOHOL	UG/L	<	10	<	10
METHACRYLONITRILE	UG/L	<	10	<	10
METHYL IODIDE	UG/L	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1
PROPIONITRILE	UG/L	<	10	<	10

FOOTNOTES : A-AVERAGE F-DUPLICATE SPIKE B-AMENDED TEST RESULT C-DUP & SPIKE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B	WELL M27B	WELL M27B	WELL M27B	WELL M27B	WELL M27B
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1
METHYL METHACRYLATE	UG/L	<	<	<	10	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	5	<	<
CHLOROFORM	UG/L	<	<	<	1	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	1	<	<
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	1	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	1	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	1	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	1	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	1	<	<
BROMOFORM	UG/L	<	<	<	1	<	<
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3
VINYL CHLORIDE	UG/L	<	<	<	1	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	1	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	1	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	1	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	1	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	<	<	1	<	<
TOLUENE	UG/L	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	10	<	10	<	10
VINYL ACETATE	UG/L	<	<	<	1	<	<
O-XYLENE	UG/L	<	<	<	1	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	1	<	<
BROMOMETHANE	UG/L	<	<	<	1	<	<
CHLOROETHANE	UG/L	<	<	<	1	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	1	<	<
CHLOROMETHANE	UG/L	<	<	<	1	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	1	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	<	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	10	<	10
ACETONITRILE	UG/L	<	<	<	20	<	20
FREON 12 (CCL2F2)	UG/L	<	<	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	<	1

FOOTNOTES : A-AVERAGE F-DUPLICATE SPIKE B-AMENDED TEST RESULT C-DUP & SPIKE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ02918 03/09/99	WELL M27B SJ06628 06/04/99	WELL M27B SJ09994 09/02/99	WELL M27B SJ14549 12/30/99
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT	UNITS	WELL M27B SJ02918 03/09/99	WELL M27B SJ06628 06/04/99	WELL M27B SJ09994 09/02/99	WELL M27B SJ14549 12/30/99
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT	UNITS	WELL M27B SJ02918 03/09/99	WELL M27B SJ06628 06/04/99	WELL M27B SJ09994 09/02/99	WELL M27B SJ14549 12/30/99
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3, 3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-AVERAGE F-DUPLICATE SPIKE

B-AMENDED TEST RESULT C-DUP & SPIKE H-CHECK NOTES TO USER

D-INTERFERENCE

E-AVERAGE OF DUPS

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ02918 03/09/99	WELL M27B SJ06628 06/04/99	WELL M27B SJ09994 09/02/99	WELL M27B SJ14549 12/30/99
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L				1
P-NITROANILINE	UG/L				1
N-NITROSODI-N-BUTYLAMINE	UG/L				1
N-NITROSODIETHYLAMINE	UG/L				1
N-NITROSOMETHYLETHYLAMINE	UG/L				1
N-NITROSOPIPERIDINE	UG/L				1
N-NITROSOPYRROLIDINE	UG/L				1
5-NITRO-O-TOLUIDINE	UG/L				1
PENTACHLOROBENZENE	UG/L				5
PENTACHLORONITROBENZENE	UG/L				1
PHENACETIN	UG/L				1
P-PHENYLENEDIAMINE	UG/L				20
PRONAMIDE	UG/L				1
SAFROLE	UG/L				1
1,2,4,5-TETRACHLOROBENZEN	UG/L				1
2,3,4,6-TETRACHLOROPHENOL	UG/L				1
O-TOLUIDINE	UG/L				1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L				1
SYM-TRINITROBENZENE	UG/L				5
ACENAPHTHENE	UG/L				1
ACENAPHTHYLENE	UG/L				1
ANTHRACENE	UG/L				1
BENZIDINE	UG/L				20
BENZO (A) ANTHRACENE	UG/L				1
BENZO (A) PYRENE	UG/L				0.2
BENZO (B) FLUORANTHENE	UG/L				1
BENZO (C H I) PERYLENE	UG/L				1
BENZO (K) FLUORANTHENE	UG/L				1
BIS (2-CL-ETHOXY) METHANE	UG/L				1
BIS (2-CHLOROETHYL) ETHER	UG/L				1
BIS (2-CL-ISOPROPYL) ETHER	UG/L				1
DIETHYLHEXYL PHTHALATE	UG/L				1
4-BROMOPHENYL PHENYLETHER	UG/L				1
BUTYLBENZYL PHTHALATE	UG/L				1
2-CHLORONAPHTHALENE	UG/L				1
4-CHLOROPHENYLPHENYLETHER	UG/L				1
CHRYSENE	UG/L				1
DIBENZO (A H) ANTHRACENE	UG/L				1
3,3'-DICHLOROBENZIDINE	UG/L				1
DIETHYL PHTHALATE	UG/L				1
DIMETHYL PHTHALATE	UG/L				1

FOOTNOTES : A-AVERAGE SPIKE B-AMENDED TEST RESULT C-DUP & SPIKE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUPLICATE SPIKE

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M27B SJ02918 03/09/99	WELL M27B SJ06628 06/04/99	WELL M27B SJ09994 09/02/99	WELL M27B SJ14549 12/30/99
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ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	1
FLUORENE	UG/L	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	5
HEXACHLOROETHANE	UG/L	<	<	<	1
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	<	1
ISOPHORONE	UG/L	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	1
NITROBENZENE	UG/L	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	1
PYRENE	UG/L	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	<	16
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	1
4-NITROPHENOL	UG/L	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	1
PHENOL	UG/L	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	1
O-CRESOL	UG/L	<	<	<	1
M+P CRESOL	UG/L	<	<	<	1

FOOTNOTES : A-AVERAGE SPIKE B-AMENDED TEST RESULT C-DUP & SPIKE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUPLICATE SPIKE H-CHECK NOTES TO USER

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFI
 M27B
 SJ09993
 09/02/99

CONSTITUENT/WELL NO.	UNITS			
CATIONS				
IRON	MG/L FE		0.27	
MANGANESE	MG/L MN		0.22	
METALS				
ARSENIC	MG/L AS		<.0010	
BARIUM	MG/L BA		0.03	
CADMIUM	MG/L CD		<0.002	
TOTAL CHROMIUM	MG/L CR		<0.01	
COBALT	MG/L CO		<0.01	
COPPER	MG/L CU		<0.01	
LEAD	MG/L PB		<0.010	
MERCURY	MG/L HG		<.0001	
NICKEL	MG/L NI		0.02	
SELENIUM	MG/L SE		<.0010	
SILVER	MG/L AG		<0.01	
ZINC	MG/L ZN		<0.01	
ANTIMONY	MG/L SB		<.0005	
BERYLLIUM	MG/L BE		<.0025	
THALLIUM	MG/L TL		<0.001	
TIN	MG/L SN		<0.06	
VANADIUM	MG/L V		<0.05	

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL	WELL	WELL	WELL	WELL	WELL
		M29B	M29B	M29B	M29B	M29B	M29B
FIELD PARAMETERS							
DEPTH TO WATER	FT	69.6	71.48	73.1	75.31		
DEPTH TO BOTTOM	FT	100.4	100.4	100.4	100.5		
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1		
PERCENT OXYGEN IN GAS	%O2	20	20	19	17		
FIELD WATER TEMPERATURE	DEG C	16.64	19.16	20.74	18.74		
FIELD PH	PH	6.39	6.94	6.98	7.25		
FIELD CONDUCTIVITY	UMHOS/CM	937	977	1099	1114		
FIELD DISSOLVED O2	MG/L	1.77	1.77	1.25	0.75		
FIELD DISSOLVED CO2	MG/L			51			
GENERAL							
PH	PH	7.53	7.45	7.20	7.34 D	7.38	7.36 D
CONDUCTIVITY	UMHOS/CM	633	636	734	1025	1022	768
TOTAL DISSOLVED SOLIDS	MG/L				739	710	
TOTAL HARDNESS	MG/L CaCO3				502 E	483 E	
TOTAL CYANIDE	MG/L CN				<0.005	<0.005	
BORON	MG/L B				0.20	0.23	
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05 A	< 0.05	0.05	< 0.05 A	0.06	< 0.05
SULFATE	MG/L SO4	204 A	209	229	233 A	230	296
CHLORIDE	MG/L CL	22.9 A	23.3 C	24.8 C	23.5 A	25.0	29.3 C
TOTAL ALKALINITY	MG/L CaCO3				277	277	
BICARBONATE ALKALINITY	MG/L CaCO3				277	277	
TOTAL SULFIDE	MG/L S				< 0.1 D	< 0.1	
FLUORIDE	MG/L F				1.48	1.46	
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3				325	315	
MAGNESIUM-HARDNESS	MG/L CaCO3				177	168	
SODIUM	MG/L NA				37.8	36.8	
POTASSIUM	MG/L K				6.0	5.8	
IRON	MG/L FE				0.13	0.13	
MANGANESE	MG/L MN				0.18	0.17	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N				< 0.1	0.1	

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-AVERAGE OF DUPS E-CALCULATED VALUE
 F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B
SJ02914	SJ02915	SJ06629	SJ06630	SJ09935	SJ09936	SJ13717	
03/09/99	03/09/99	06/04/99	06/04/99	09/01/99	09/01/99	12/03/99	

ORGANIC MATTER	MG/L	UG/L	F	C	WELL	WELL	WELL
TOTAL BOD	0		2	2	M29B	M29B	M29B
SOLUBLE BOD	0						
TOTAL COD	0		10	10	M29B	M29B	M29B
SOLUBLE COD	0		10	10			
TOTAL ORGANIC CARBON	1.47		1.48	1.48	SJ09935	SJ09936	SJ13717
OIL & GREASE	3.0		A	3.0	09/01/99	09/01/99	12/03/99
TOTAL ORGANIC HALOGEN (TOX EXTRAC)	4.0		C	5.7	C	C	C

METALS	MG/L	UG/L	F	C	WELL	WELL	WELL
ARSENIC	0.0010				M29B	M29B	M29B
BARIUM	0.04						
CADMIUM	0.002						
TOTAL CHROMIUM	0.01						
COBALT	0.01						
COPPER	0.01						
LEAD	0.010						
MERCURY	0.0001						
NICKEL	0.02						
SELENIUM	0.010						
SILVER	0.01						
ZINC	0.005						
ANTIMONY	0.0025						
BERYLLIUM	0.0001						
THALLIUM	0.06						
TIN	0.05						
VANADIUM	0.05						

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS	UG/L	F	C	WELL	WELL	WELL
2,4,5-T	0.05			M29B	M29B	M29B
DINOSB	0.1					
THIONAZIN	1					
DIMETHOATE	1					
DISULFOTON	1					
METHYL PARATHION	1					
ETHYL PARATHION	1					
PHORATE	1					
PP'-DDE	0.01					
PP'-DDD	0.01					
PP'-DDT	0.01					

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE H-CHECK NOTES TO USER D-AVERAGE OF DUPS E-CALCULATED VALUE

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ02914 03/09/99	WELL M29B SJ02915 03/09/99	WELL M29B SJ06629 06/04/99	WELL M29B SJ06630 06/04/99	WELL M29B SJ09935 09/01/99	WELL M29B SJ09936 09/01/99	WELL M29B SJ13717 12/03/99
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.1	< 0.1	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELDRIN	UG/L	< 0.01	< 0.01	< 0.5	< 0.5	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1242	UG/L	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-AVERAGE OF DUPS E-CALCULATED VALUE
F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B	WELL M29B
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	10	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	1	<	1	<	1	<	1	<	1
CHLOROFORM	UG/L	<	<	1	<	1	<	1	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
CARBON TETRACHLORIDE	UG/L	<	<	1	<	1	<	1	<	1	<	1
1,1-DICHLOROETHENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
TRICHLOROETHYLENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
TETRACHLOROETHYLENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
BROMOFORM	UG/L	<	<	1	<	1	<	1	<	1	<	1
CHLOROBENZENE	UG/L	<	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
VINYL CHLORIDE	UG/L	<	<	1	<	1	<	1	<	1	<	1
O-DICHLOROBENZENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
1,1-DICHLOROETHANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
TOLUENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	<	10 B	<	10	<	10	<	10	<	10
VINYL ACETATE	UG/L	<	<	1	<	1	<	1	<	1	<	1
O-XYLENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	1	<	1	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	<	1	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	<	1	<	1	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	<	10	<	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	<	10	<	10	<	10	<	10	<	10
ACETONITRILE	UG/L	<	<	1	<	1	<	1	<	1	<	1
FREON 12 (CCL2F2)	UG/L	<	<	1	<	1	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	<	1	<	1	<	1	<	1	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-AVERAGE OF DUPS E-CALCULATED VALUE
 F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ02914 03/09/99	WELL M29B SJ02915 03/09/99	WELL M29B SJ06629 06/04/99	WELL M29B SJ06630 06/04/99	WELL M29B SJ09935 09/01/99	WELL M29B SJ09936 09/01/99	WELL M29B SJ13717 12/03/99
VOLATILE ORGANIC COMPOUNDS								
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE								
ACETOPHENONE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-ACETYLAMINOFLOURENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-AMINOBIPHENYL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BENZYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P-CHLOROANILINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLORO BENZILATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIALLATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIBENZOFURAN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-DICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3,3'-DIMETHYLBENZIDINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M-DINITROBENZENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
DIPHENYLAMINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ETHYL METHANESULFONATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
FAMPHUR	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
HEXACHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISODRIN	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISOSAFROLE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
KEPONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
METHAPYRILENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3-METHYLCHOLANTHRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYL METHANESULFONATE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-METHYLNAPHTHALENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-NAPHTHOQUINONE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1-NAPHTHYLAMINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-NAPHTHYLAMINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
O-NITROANILINE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1

B-AMENDED TEST RESULT C-AVERAGE D-AVERAGE OF DUPS E-CALCULATED VALUE
 G-10% RULE EXCEEDED H-CHECK NOTES TO USER

FOOTNOTES : A-DUPLICATE SPIKE
 F-DUP & SPIKE

TABLE A.2
WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ02914 03/09/99	WELL M29B SJ02915 03/09/99	WELL M29B SJ06629 06/04/99	WELL M29B SJ06630 06/04/99	WELL M29B SJ09935 09/01/99	WELL M29B SJ09936 09/01/99	WELL M29B SJ13717 12/03/99
ACID-BASE NEUTRAL EXTRACTABLE								
M-NITROANILINE	UG/L							
P-NITROANILINE	UG/L							
N-NITROSODI-N-BUTYLAMINE	UG/L							
N-NITROSODIETHYLAMINE	UG/L							
N-NITROSOMETHYLETHYLAMINE	UG/L							
N-NITROSOPIPERIDINE	UG/L							
N-NITROSOPYRROLIDINE	UG/L							
5-NITRO-O-TOLUIDINE	UG/L							
PENTACHLOROBENZENE	UG/L							
PENTACHLORONITROBENZENE	UG/L							
PHENACETIN	UG/L							
P-PHENYLENEDIAMINE	UG/L							
PRONAMIDE	UG/L							
SAFROLE	UG/L							
1,2,4,5-TETRACHLOROBENZEN	UG/L							
2,3,4,6-TETRACHLOROPHENOL	UG/L							
O-TOLUIDINE	UG/L							
O,O,O-TRIETHYLPHOSPHOROTH	UG/L							
SYM-TRINITROBENZENE	UG/L							
ACENAPHTHENE	UG/L							
ACENAPHTHYLENE	UG/L							
ANTHRACENE	UG/L							
BENZIDINE	UG/L							
BENZO (A) ANTHRACENE	UG/L							
BENZO (A) PYRENE	UG/L							
BENZO (B) FLUORANTHENE	UG/L							
BENZO (G.H.I.) PERYLENE	UG/L							
BENZO (K) FLUORANTHENE	UG/L							
BIS (2-CL-ETHOXY) METHANE	UG/L							
BIS (2-CHLOROETHYL) ETHER	UG/L							
BIS (2-CL-ISOPROPYL) ETHER	UG/L							
DIETHYLHEXYL PHTHALATE	UG/L							
4-BROMOPHENYL PHENYLETHER	UG/L							
BUTYLBENZYL PHTHALATE	UG/L							
2-CHLORONAPHTHALENE	UG/L							
4-CHLOROPHENYLPHENYLETHER	UG/L							
CHRYSENE	UG/L							
DIBENZO (A,H) ANTHRACENE	UG/L							
3,3'-DICHLOROBENZIDINE	UG/L							
DIETHYL PHTHALATE	UG/L							
DIMETHYL PHTHALATE	UG/L							

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE H-CHECK NOTES TO USER D-AVERAGE OF DUPS E-CALCULATED VALUE
G-10% RULE EXCEEDED

TABLE A.2
 WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M29B SJ02914 03/09/99	WELL M29B SJ02915 03/09/99	WELL M29B SJ06629 06/04/99	WELL M29B SJ06630 06/04/99	WELL M29B SJ09935 09/01/99	WELL M29B SJ09936 09/01/99	WELL M29B SJ13717 12/03/99
ACID-BASE NEUTRAL EXTRACTABLE								
DI-N-BUTYL PHTHALATE	UG/L							
2,4-DINITROTOLUENE	UG/L							
2,6-DINITROTOLUENE	UG/L							
DI-N-OCTYL PHTHALATE	UG/L							
FLUORANTHENE	UG/L							
FLUORENE	UG/L							
HEXACHLOROBENZENE	UG/L							
HEXACHLOROBUTADIENE	UG/L							
HEXACHLOROCYCLOPENTADIENE	UG/L							
HEXACHLOROETHANE	UG/L							
INDENO (1,2,3-C,D) PYRENE	UG/L							
ISOPHORONE	UG/L							
NAPHTHALENE	UG/L							
NITROBENZENE	UG/L							
N-NITROSODIMETHYLAMINE	UG/L							
N-NITROSODI-N-PROPYLAMINE	UG/L							
PHENANTHRENE	UG/L							
PYRENE	UG/L							
2-CHLOROPHENOL	UG/L							
1,2,4-TRICHLOROBENZENE	UG/L							
2,4-DICHLOROPHENOL	UG/L							
2,4-DIMETHYLPHENOL	UG/L							
2,4-DINITROPHENOL	UG/L							
2-METHYL-4,6-DINITROPHENOL	UG/L							
2-NITROPHENOL	UG/L							
4-NITROPHENOL	UG/L							
4-CHLORO-3-METHYLPHENOL	UG/L							
PENTACHLOROPHENOL	UG/L							
PHENOL	UG/L							
2,4,6-TRICHLOROPHENOL	UG/L							
N-NITROSODIPHENYLAMINE	UG/L							
O-CRESOL	UG/L							
M+P CRESOL	UG/L							

B-AMENDED TEST RESULT
 G-10% RULE EXCEEDED
 C-AVERAGE
 H-CHECK NOTES TO USER
 D-AVERAGE OF DUPS
 E-CALCULATED VALUE

A-DUPLICATE SPIKE
 F-DUP & SPIKE

TABLE A.2

WATER QUALITY DATA - BARRIER TWO MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M29B SJ09933 09/01/99	WEFI M29B SJ09934 09/01/99
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CATIONS	MG/L	FE	0.09	0.08
IRON	MG/L	MN	0.16	0.16
MANGANESE				
METALS				
ARSENIC	MG/L	AS	< 0.0010	< 0.0010
BARIIUM	MG/L	BA	0.04	0.04
CADMIUM	MG/L	CD	< 0.002	< 0.002
TOTAL CHROMIUM	MG/L	CR	< 0.01	< 0.01
COBALT	MG/L	CO	< 0.01	< 0.01
COPPER	MG/L	CU	< 0.01	< 0.01
LEAD	MG/L	PB	< 0.010	< 0.010
MERCURY	MG/L	HG	< 0.001	< 0.001
NICKEL	MG/L	NI	< 0.02	< 0.02
SELENIUM	MG/L	SE	< 0.0010	< 0.0010
SILVER	MG/L	AG	< 0.01	< 0.01
ZINC	MG/L	ZN	< 0.01	< 0.01
ANTIMONY	MG/L	SB	< 0.005	< 0.005
BERYLLIUM	MG/L	BE	< 0.025	< 0.025
THALLIUM	MG/L	TL	< 0.001	< 0.001
TIN	MG/L	SN	< 0.06	< 0.06
VANADIUM	MG/L	V	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.3
WATER QUALITY DATA
BARRIER 3 MONITORING WELLS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ02791 03/04/99	WELL M31A SJ06642 06/04/99	WELL M31A SJ09990 09/02/99	WELL M31A SJ13634 12/02/99
FIELD PARAMETERS					
DEPTH TO WATER	FT	48.05	48.15	48.8	49.07
DEPTH TO BOTTOM	FT	76.3	76.23	76.33	76.13
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	18	17	18	20
FIELD WATER TEMPERATURE	DEG C	20.07	20.57	21.19	19.56
FIELD PH	PH	6.71	6.59	6.31	6.44
FIELD CONDUCTIVITY	UMHOS/CM	3403	3436	3540	3370
FIELD DISSOLVED O2	MG/L	0.28	0.26	0.24	0.42
FIELD DISSOLVED CO2	MG/L	209	303	515	417
GENERAL					
PH	PH	7.01	6.85	7.04	6.98
CONDUCTIVITY	UMHOS/CM			3610	
TOTAL DISSOLVED SOLIDS	MG/L	2862 A	3020	3088	2748 A
TOTAL HARDNESS	MG/L			2024 D	
TOTAL CYANIDE	MG/L CN			<0.005	
BORON	MG/L B			0.48	
ANIONS					
NITRATE NITROGEN	MG/L N	0.59 B	0.81	0.78 B	1.54 B
SULFATE	MG/L SO4	1320 B	1440	1380 B	1240 B
CHLORIDE	MG/L CL	158 B	171	150 B	155 B
TOTAL ALKALINITY	MG/L CACO3	611	671	599	654
BICARBONATE ALKALINITY	MG/L CACO3	611	671	599	654
TOTAL SULFIDE	MG/L S			< 0.1	
FLUORIDE	MG/L F			0.77	
CATIONS					
CALCIUM-HARDNESS	MG/L CACO3	984	1030	1090	956
MAGNESIUM-HARDNESS	MG/L CACO3	848	906	934	836
SODIUM	MG/L NA	196	188	181	175
POTASSIUM	MG/L K	4.7	4.9	5.3	4.7
IRON	MG/L FE			0.19	
MANGANESE	MG/L MN			0.54	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ02791 03/04/99	WELL M31A SJ06642 06/04/99	WELL M31A SJ09990 09/02/99	WELL M31A SJ13634 12/02/99
ORGANIC MATTER					
TOTAL BOD	MG/L O	<	2 A	<	2 A
SOLUBLE BOD	MG/L O	<	2	<	2 A
TOTAL COD	MG/L O	<	10	10 A	<
SOLUBLE COD	MG/L O	<	10	<	10
TOTAL ORGANIC CARBON	MG/L C	<	3.25	3.13	3.19
OIL & GREASE	MG/L EXTRAC	<	2.94	<	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	<	4.0	19 E
METALS					
ARSENIC	MG/L AS	<	<	<	< 0.010
BARIUM	MG/L BA	<	<	<	0.05
CADMIUM	MG/L CD	<	<	<	0.009
TOTAL CHROMIUM	MG/L CR	<	<	<	0.01
COBALT	MG/L CO	<	<	<	0.01
COPPER	MG/L CU	<	<	<	0.01
LEAD	MG/L PB	<	<	<	0.010
MERCURY	MG/L HG	<	<	<	0.0001
NICKEL	MG/L NI	<	<	<	0.02
SELENIUM	MG/L SE	<	<	<	0.016
SILVER	MG/L AG	<	<	<	0.01
ZINC	MG/L ZN	<	<	<	0.02
ANTIMONY	MG/L SB	<	<	<	0.005
BERYLLIUM	MG/L BE	<	<	<	0.0025
THALLIUM	MG/L TL	<	<	<	0.001
TIN	MG/L SN	<	<	<	0.06
VANADIUM	MG/L V	<	<	<	0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	<	<	<	0.05
DINoseb	UG/L	<	<	<	0.1
THIONAZIN	UG/L	<	<	<	1
DIMETHOATE	UG/L	<	<	<	1
DISULFOTON	UG/L	<	<	<	1
METHYL PARATHION	UG/L	<	<	<	1
ETHYL PARATHION	UG/L	<	<	<	1
PHORATE	UG/L	<	<	<	1
PP', -DDE	UG/L	<	<	<	0.01
PP', -DDD	UG/L	<	<	<	0.01
PP', -DDT	UG/L	<	<	<	0.01

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ02791 03/04/99	WELL M31A SJ06642 06/04/99	WELL M31A SJ09990 09/02/99	WELL M31A SJ13634 12/02/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	<	<	0.01	<
LINDANE (GAMMA-BHC)	UG/L	<	<	0.01	<
HEPTACHLOR	UG/L	<	<	0.01	<
HEPTACHLOR EPOXIDE	UG/L	<	<	0.01	<
ALDRIN	UG/L	<	<	0.01	<
DIELDRIN	UG/L	<	<	0.01	<
ENDRIN	UG/L	<	<	0.01	<
TOXAPHENE	UG/L	<	<	0.05	<
METHOXYCHLOR	UG/L	<	<	0.01	<
2,4-D (ACID)	UG/L	<	<	0.5	<
2,4,5-TP (SILVEX)	UG/L	<	<	0.05	<
AROCLOR 1242	UG/L	<	<	0.1	<
AROCLOR 1254	UG/L	<	<	0.05	<
BETA-BHC	UG/L	<	<	0.01	<
DELTA-BHC	UG/L	<	<	0.01	<
ENDOSULFAN I	UG/L	<	<	0.01	<
ENDOSULFAN II	UG/L	<	<	0.01	<
ENDOSULFAN SULFATE	UG/L	<	<	0.1	<
ENDRIN ALDEHYDE	UG/L	<	<	0.01	<
AROCLOR 1016	UG/L	<	<	0.1	<
AROCLOR 1221	UG/L	<	<	0.1	<
AROCLOR 1232	UG/L	<	<	0.1	<
AROCLOR 1248	UG/L	<	<	0.1	<
AROCLOR 1260	UG/L	<	<	0.1	<
TECHNICAL CHLORDANE	UG/L	<	<	0.05	<
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	<	<	1	<
BROMOCHLOROMETHANE	UG/L	<	1	<	1
CHLOROPRENE	UG/L	<	<	1	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.01	<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1
1,3-DICHLOROPROPANE	UG/L	<	<	0.3	<
2,2-DICHLOROPROPANE	UG/L	<	<	1	<
1,1-DICHLOROPROPENE	UG/L	<	<	1	<
ISOBUTYL ALCOHOL	UG/L	<	<	10	<
METHACRYLONITRILE	UG/L	<	<	10	<
METHYL IODIDE	UG/L	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1
PROPIONITRILE	UG/L	<	<	10	<

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ02791 03/04/99	WELL M31A SJ06642 06/04/99	WELL M31A SJ09990 09/02/99	WELL M31A SJ13634 12/02/99
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1
1,1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1
METHYL METHACRYLATE	UG/L	<	<	10	<
ETHYLENE CHLORIDE	UG/L	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	<
TRICHLOROETHYLENE	UG/L	2	1	2	1
TETRACHLOROETHYLENE	UG/L	<	<	<	<
BROMODICHLOROMETHANE	UG/L	1	1	1	1
DIBROMOCHLOROMETHANE	UG/L	1	1	1	1
BROMOFORM	UG/L	<	<	<	<
CHLOROBENZENE	UG/L	0.3	<	0.3	0.3
VINYL CHLORIDE	UG/L	1	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5	0.5
BENZENE	UG/L	<	<	<	<
TOLUENE	UG/L	1	<	1	1
ETHYL BENZENE	UG/L	10	<	10	10
VINYL ACETATE	UG/L	<	<	<	<
O-XYLENE	UG/L	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<
BROMOMETHANE	UG/L	1	<	1	1
CHLOROETHANE	UG/L	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<
CHLOROMETHANE	UG/L	1	<	1	1
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	0.5
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10
ACRYLONITRILE	UG/L	<	<	<	<
ACETONITRILE	UG/L	<	<	20	<
FREON 12 (CCL2F2)	UG/L	<	<	1	<
FREON 11 (CCL3F)	UG/L	<	1	<	1

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ02791 03/04/99	WELL M31A SJ06642 06/04/99	WELL M31A SU09990 09/02/99	WELL M31A SJ13634 12/02/99
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	4	4	3	3
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M,P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ02791 03/04/99	WELL M31A SJ06642 06/04/99	WELL M31A SJ09990 09/02/99	WELL M31A SJ13634 12/02/99
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSDI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	5
PHENACETIN	UG/L	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	20
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	15
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G, H, I.) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M31A SJ02791 03/04/99	WELL M31A SJ06642 06/04/99	WELL M31A SJ09990 09/02/99	WELL M31A SJ13634 12/02/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<
FLUORENE	UG/L	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<
PYRENE	UG/L	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<
PHENOL	UG/L	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<
O-CRESOL	UG/L	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFI
 M31A
 SJ09988
 09/02/99

CONSTITUENT/WELL NO.	UNITS	MG/L	FE	MG/L	FE
CATIONS					
IRON					
MANGANESE					
METALS					
ARSENIC					
BARIIUM					
CADMIUM					
TOTAL CHROMIUM					
COBALT					
COPPER					
LEAD					
MERCURY					
NICKEL					
SELENIUM					
SILVER					
ZINC					
ANTIMONY					
BERYLLIUM					
THALLIUM					
TIN					
VANADIUM					

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ02700 03/03/99	WELL R32B SJ03500 03/19/99	WELL R32B SJ06887 06/10/99	WELL R32B SJ09991 09/02/99	WELL R32B SJ13840 12/07/99
FIELD PARAMETERS						
DEPTH TO WATER	FT	32.14	31.72	31.91	31.72	31.62
DEPTH TO BOTTOM	FT	129.6	129.7	129.6	129.5	129.6
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	19	20	18	19
FIELD WATER TEMPERATURE	DEG C	19.64	19.50	20.77	21.71	18.53
FIELD PH	PH	6.52	7.07	7.14	6.99	7.29
FIELD CONDUCTIVITY	UMHOS/CM	3625	3656	3510	3669	3611
FIELD DISSOLVED O2	MG/L	0.37	0.25	0.25	0.12	0.42
FIELD DISSOLVED CO2	MG/L				0.37	
GENERAL						
PH		7.58		7.54		7.43
CONDUCTIVITY	UMHOS/CM				7.40	
TOTAL DISSOLVED SOLIDS	MG/L	2912		2936	3660	
TOTAL HARDNESS	MG/L				3012	2840
TOTAL CYANIDE	MG/L CN				1548	D
BORON	MG/L B				<0.005	
ANIONS						
NITRATE	MG/L N	< 0.05		< 0.05	< 0.05	< 0.05
NITROGEN	MG/L N	1610		1710	1610	1580
SULFATE	MG/L SO4	264		282	262	264
CHLORIDE	MG/L CL				207	
TOTAL ALKALINITY	MG/L CACO3				207	
BICARBONATE ALKALINITY	MG/L CACO3				207	
TOTAL SULFIDE	MG/L S				< 0.1	
FLUORIDE	MG/L F				0.26	
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3				564	
MAGNESIUM-HARDNESS	MG/L CACO3				984	
SODIUM	MG/L NA				327	
POTASSIUM	MG/L K				7.0	
IRON	MG/L FE				0.39	
MANGANESE	MG/L MN				0.07	
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N				2.2	

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT C-CONSTIT NOT ANALYZE D-INTERFERENCE E-AVERAGE OF DUPS
G-DUPLICATE SPIKE H-CHECK NOTES TO USER

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B	WELL R32B	WELL R32B	WELL R32B
SJ02700	SJ03500	SJ09991	SJ13840	SJ02999	SJ13840
03/03/99	03/19/99	06/10/99	09/02/99	12/07/99	12/07/99

ORGANIC MATTER	MG/L	MG/L	MG/L	MG/L	MG/L
TOTAL BOD	6	<	<	<	<
SOLUBLE BOD	2	<	<	<	<
TOTAL COD	12	<	<	<	<
SOLUBLE COD	10	<	<	<	<
TOTAL ORGANIC CARBON	1.76	<	<	<	<
OIL & GREASE	4.0	<	<	<	<
TOTAL ORGANIC HALOGEN (TOX)	10.0	<	<	<	<
EXTRAC	A				

METALS	MG/L	MG/L	MG/L	MG/L	MG/L
ARSENIC	< 0.010	< 0.01	< 0.002	< 0.01	< 0.01
BARIIUM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CADMIUM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOTAL CHROMIUM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MERCURY	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
NICKEL	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SILVER	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ANTIMONY	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
BERYLLIUM	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
THALLIUM	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TIN	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS	UG/L	UG/L	UG/L	UG/L	UG/L
2,4,5-T	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1
DINOSB	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
THIONAZIN	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DIMETHOATE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DISULFOTON	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
METHYL PARATHION	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ETHYL PARATHION	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PHORATE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDD	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP'-DDT	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT G-DUPLICATE SPIKE C-CONSTIT NOT ANALYZE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ02700 03/03/99	WELL R32B SJ03500 03/19/99	WELL R32B SJ06887 06/10/99	WELL R32B SJ09991 09/02/99	WELL R32B SJ13840 12/07/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALPHA-BHC	UG/L	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<
METHOXYCHLOR	UG/L	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT C-CONSTIT NOT ANALYZE D-INTERFERENCE E-AVERAGE OF DUPS G-DUPLICATE SPIKE H-CHECK NOTES TO USER

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ02700 03/03/99	WELL R32B SJ03500 03/19/99	WELL R32B SJ06887 06/10/99	WELL R32B SJ09991 09/02/99	WELL R32B SJ13840 12/07/99
VOLATILE ORGANIC COMPOUNDS						
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	1
METHYL METHACRYLATE	UG/L	<	<	<	10	<
ETHYL METHACRYLATE	UG/L	<	<	<	5	<
METHYLENE CHLORIDE	UG/L	<	1	<	1	1
CHLOROFORM	UG/L	<	1	<	1	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	1	1
TRICHLOROETHYLENE	UG/L	<	1	<	1	1
TETRACHLOROETHYLENE	UG/L	<	1	<	1	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	1
BROMOFORM	UG/L	<	1	<	1	1
CHLORO BENZENE	UG/L	<	0.3	<	0.3	0.3
VINYL CHLORIDE	UG/L	<	1	<	1	1
O-DICHLOROBENZENE	UG/L	<	1	<	1	1
M-DICHLOROBENZENE	UG/L	<	1	<	1	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	1
1,1-DICHLOROETHANE	UG/L	<	1	<	1	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
BENZENE	UG/L	<	1	<	1	1
TOLUENE	UG/L	<	1	<	1	1
ETHYL BENZENE	UG/L	<	10 B	<	10	10
VINYL ACETATE	UG/L	<	1	<	1	1
O-XYLENE	UG/L	<	1	<	1	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	1
BROMOMETHANE	UG/L	<	1	<	1	1
CHLOROETHANE	UG/L	<	1	<	1	1
2-CHLOROETHYL VINYL ETHER	UG/L	<	1	<	1	1
CHLOROMETHANE	UG/L	<	1	<	1	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
ACROLEIN	UG/L	<	10	<	10	10
ACRYLONITRILE	UG/L	<	10	<	10	10
ACETONITRILE	UG/L	<	20	<	20	20
FREON 12 (CCL2F2)	UG/L	<	1	<	1	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	1

FOOTNOTES : A-AVERAGE F-DUP & SPIKE B-AMENDED TEST RESULT G-DUPLICATE SPIKE C-CONSTIT NOT ANALYZE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ02700 03/03/99	WELL R32B SJ03500 03/19/99	WELL R32B SJ06887 06/10/99	WELL R32B SJ09991 09/02/99	WELL R32B SJ13840 12/07/99
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5

VOLATILE ORGANIC COMPOUNDS

1, 2-DIBROMOETHANE	UG/L
ACETONE	UG/L
CIS-1, 2-DICHLOROETHYLENE	UG/L
2-BUTANONE	UG/L
4-METHYL-2-PENTANONE	UG/L
STYRENE	UG/L
2, 4, 5-TRICHLOROPHENOL	UG/L
M+P-XYLENE	UG/L
CARBON DISULFIDE	UG/L
2-HEXANONE	UG/L

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L
2-ACETYLAMINOFLOURENE	UG/L
4-AMINOBIPHENYL	UG/L
BENZYL ALCOHOL	UG/L
P-CHLOROANILINE	UG/L
CHLOROBENZILATE	UG/L
DIALLATE	UG/L
DIBENZOFURAN	UG/L
2, 6-DICHLOROPHENOL	UG/L
P (DIMETHYLAMINO)AZOBENZEN	UG/L
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L
3, 3' -DIMETHYLBENZIDINE	UG/L
M-DINITROBENZENE	UG/L
DIPHENYLAMINE	UG/L
ETHYL METHANESULFONATE	UG/L
FAMPHUR	UG/L
HEXACHLOROPROPENE	UG/L
ISODRIN	UG/L
ISOSAFROLE	UG/L
KEPONE	UG/L
METHAPYRILENE	UG/L
3-METHYLCHOLANTHRENE	UG/L
METHYL METHANESULFONATE	UG/L
2-METHYLNAPHTHALENE	UG/L
1, 4-NAPHTHOQUINONE	UG/L
1-NAPHTHYLAMINE	UG/L
2-NAPHTHYLAMINE	UG/L
O-NITROANILINE	UG/L

FOOTNOTES : A-AVERAGE F-DUP & SPIKE

B-AMENDED TEST RESULT G-DUPLICATE SPIKE

C-CONSTIT NOT ANALYZE H-CHECK NOTES TO USER

D-INTERFERENCE

E-AVERAGE OF DUPS

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ02700 03/03/99	WELL R32B SJ03500 03/19/99	WELL R32B SJ06887 06/10/99	WELL R32B SJ09991 09/02/99	WELL R32B SJ13840 12/07/99
ACID-BASE NEUTRAL EXTRACTABLE						
M-NITROANILINE	UG/L	<	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	<	15
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	1
PHENACETIN	UG/L	<	<	<	<	20
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	1
PRONAMIDE	UG/L	<	<	<	<	1
SAFROLE	UG/L	<	<	<	<	1
1,2,4,5-TETRACHLOROBENZENE	UG/L	<	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	1
BENZIDINE	UG/L	<	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	1
BENZO (G, H, I, J) PERYLENE	UG/L	<	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	1
CHRYSENE	UG/L	<	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	<	1

FOOTNOTES : A-AVERAGE F-DUP & SPIKE
 B-AMENDED TEST RESULT C-CONSTIT NOT ANALYZE D-INTERFERENCE E-AVERAGE OF DUPS
 G-DUPLICATE SPIKE H-CHECK NOTES TO USER

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R32B SJ02700 03/03/99	WELL R32B SJ03500 03/19/99	WELL R32B SJ06887 06/10/99	WELL R32B SJ09991 09/02/99	WELL R32B SJ13840 12/07/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L					
DI-N-BUTYL PHTHALATE	UG/L					
2,4-DINITROTOLUENE	UG/L					
2,6-DINITROTOLUENE	UG/L					
DI-N-OCTYL PHTHALATE	UG/L					
FLUORANTHENE	UG/L					
FLUORENE	UG/L					
HEXACHLOROBENZENE	UG/L					
HEXACHLOROBUTADIENE	UG/L					
HEXACHLOROCYCLOPENTADIENE	UG/L					
HEXACHLOROETHANE	UG/L					
INDENO(1,2,3-C,D) PYRENE	UG/L					
ISOPHORONE	UG/L					
NAPHTHALENE	UG/L					
NITROBENZENE	UG/L					
N-NITROSODIMETHYLAMINE	UG/L					
N-NITROSODI-N-PROPYLAMINE	UG/L					
PHENANTHRENE	UG/L					
PYRENE	UG/L					
2-CHLOROPHENOL	UG/L					
1,2,4-TRICHLOROBENZENE	UG/L					
2,4-DICHLOROPHENOL	UG/L					
2,4-DIMETHYLPHENOL	UG/L					
2,4-DINITROPHENOL	UG/L					
2-METHYL-4,6DINITROPHENOL	UG/L					
2-NITROPHENOL	UG/L					
4-NITROPHENOL	UG/L					
4-CHLORO-3-METHYLPHENOL	UG/L					
PENTACHLOROPHENOL	UG/L					
PHENOL	UG/L					
2,4,6-TRICHLOROPHENOL	UG/L					
N-NITROSODIPHENYLAMINE	UG/L					
O-CRESOL	UG/L					
M+P CRESOL	UG/L					

FOOTNOTES : A-AVERAGE F-DUP & SPIKE

B-AMENDED TEST RESULT G-DUPLICATE SPIKE

C-CONSTIT NOT ANALYZE H-CHECK NOTES TO USER

D-INTERFERENCE

E-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFI
 R32B
 SJ09989
 09/02/99

CONSTITUENT/WELL NO.	UNITS	MG/L	FE	0.90
CATIONS				
IRON		MG/L	FE	0.90
MANGANESE		MG/L	MN	0.07
METALS				
ARSENIC		MG/L	AS	< 0.010
BARIUM		MG/L	BA	< 0.01
CADMIUM		MG/L	CD	< 0.002
TOTAL CHROMIUM		MG/L	CR	< 0.01
COBALT		MG/L	CO	< 0.01
COPPER		MG/L	CU	< 0.01
LEAD		MG/L	PB	< 0.010
MERCURY		MG/L	HG	< 0.001
NICKEL		MG/L	NI	< 0.02
SELENIUM		MG/L	SE	< 0.010
SILVER		MG/L	AG	< 0.01
ZINC		MG/L	ZN	< 0.01
ANTIMONY		MG/L	SB	< 0.005
BERYLLIUM		MG/L	BE	< 0.025
THALLIUM		MG/L	TL	< 0.001
TIN		MG/L	SN	< 0.06
VANADIUM		MG/L	V	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ02792 03/04/99	WELL M33A SJ06643 06/04/99	WELL M33A SJ10537 09/17/99	WELL M33A SJ13635 12/02/99
FIELD PARAMETERS					
DEPTH TO WATER	FT	49.64	49.79	50.55	50.58
DEPTH TO BOTTOM	FT	80.93	80.88	81.0	80.98
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	16	16	18	19
FIELD WATER TEMPERATURE	DEG C	20.07	20.82	21.32	21.77
FIELD PH	PH	6.71	6.69	6.51	6.51
FIELD CONDUCTIVITY	UMHOS/CM	2621	2478	2705	2531
FIELD DISSOLVED O2	MG/L	0.42	0.28	0.46	0.46
FIELD DISSOLVED CO2	MG/L	217	227	347	343
GENERAL					
PH	PH	7.07	6.98	7.14	7.07
CONDUCTIVITY	UMHOS/CM	1790	1850	2500	1822
TOTAL DISSOLVED SOLIDS	MG/L			1844	
TOTAL HARDNESS	MG/L CaCO3			1125	E
TOTAL CYANIDE	MG/L CN			< 0.005	
BORON	MG/L B			< 0.67	
ANIONS					
NITRATE NITROGEN	MG/L N	0.13	0.14	0.18	0.09
SULFATE	MG/L SO4	603	639	608	632
CHLORIDE	MG/L CL	161	172	161	169
TOTAL ALKALINITY	MG/L CaCO3	634	633	640	632
BICARBONATE ALKALINITY	MG/L CaCO3	634	633	640	632
TOTAL SULFIDE	MG/L S			< 0.1	
FLUORIDE	MG/L F			0.89	
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3	597	587	594	652
MAGNESIUM-HARDNESS	MG/L CaCO3	502	535	531	535
SODIUM	MG/L NA	169	184	180	177
POTASSIUM	MG/L K	5.7	5.1	5.2	5.6
IRON	MG/L FE			< 0.05	
MANGANESE	MG/L MN			0.60	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N	0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-AVERAGE OF DUPS

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ02792 03/04/99	WELL M33A SJ06643 05/04/99	WELL M33A SJ10537 09/17/99	WELL M33A SJ13635 12/02/99
TOTAL BOD	MG/L O	<	2	<	2
SOLUBLE BOD	MG/L O	<	2	<	2
TOTAL COD	MG/L O	13	16 B	10	14
SOLUBLE COD	MG/L O	4.82	4.18	4.15	5.39
TOTAL ORGANIC CARBON	MG/L C				
OIL & GREASE	MG/L EXTRAC				
TOTAL ORGANIC HALOGEN (TOX)	UG/L			4.0	18 D

ORGANIC MATTER	MG/L	UG/L
ARSENIC	< 0.0010	< 0.0010
BARIIUM	0.05	0.05
CADMIUM	< 0.002	< 0.002
TOTAL CHROMIUM	< 0.01	< 0.01
COBALT	< 0.01	< 0.01
COPPER	< 0.01	< 0.01
LEAD	< 0.010	< 0.010
MERCURY	< 0.001	< 0.001
NICKEL	< 0.02	< 0.02
SELENIUM	< 0.010	< 0.010
SILVER	< 0.01	< 0.01
ZINC	< 0.02	< 0.02
ANTIMONY	< 0.005	< 0.005
BERYLLIUM	< 0.025	< 0.025
THALLIUM	< 0.001	< 0.001
TIN	< 0.06	< 0.06
VANADIUM	< 0.05	< 0.05

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS	UG/L	UG/L
2,4,5-T	< 0.05	< 0.05
DINOSB	< 0.1	< 0.1
THIONAZIN	< 1	< 1
DIMETHOATE	< 1	< 1
DISULFOTON	< 1	< 1
METHYL PARATHION	< 1	< 1
PHORATE	< 1	< 1
PP'-DDE	< 0.01	< 0.01
PP'-DDD	< 0.01	< 0.01
PP'-DDT	< 0.01	< 0.01

FOOTNOTES : A - AMENDED TEST RESULT B - DUP & SPIKE C - DUPLICATE SPIKE D - AVERAGE E - AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A	WELL M33A	WELL M33A	WELL M33A
		SJ02792	SJ06643	SJ10537	SJ13635
		03/04/99	06/04/99	09/17/99	12/02/99

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	0.01		
LINDANE (GAMMA-BHC)	UG/L	<	0.01		
HEPTACHLOR	UG/L	<	0.01		
HEPTACHLOR EPOXIDE	UG/L	<	0.01		
ALDRIN	UG/L	<	0.01		
DIELDRIN	UG/L	<	0.01		
ENDRIN	UG/L	<	0.01		
TOXAPHENE	UG/L	<	0.5		
METHOXYCLOR	UG/L	<	0.01		
2,4-D(ACID)	UG/L	<	0.5		
2,4,5-TP(SILVEX)	UG/L	<	0.05		
AROCLOR 1242	UG/L	<	0.1		
AROCLOR 1254	UG/L	<	0.05		
BETA-BHC	UG/L	<	0.01		
DELTA-BHC	UG/L	<	0.01		
ENDOSULFAN I	UG/L	<	0.01		
ENDOSULFAN II	UG/L	<	0.01		
ENDOSULFAN SULFATE	UG/L	<	0.1		
ENDRIN ALDEHYDE	UG/L	<	0.01		
AROCLOR 1016	UG/L	<	0.1		
AROCLOR 1221	UG/L	<	0.1		
AROCLOR 1232	UG/L	<	0.1		
AROCLOR 1248	UG/L	<	0.1		
AROCLOR 1260	UG/L	<	0.1		
TECHNICAL CHLORDANE	UG/L	<	0.05		

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	1	<	1
BROMOCHLOROMETHANE	UG/L	<	1	<	1
CHLOROPRENE	UG/L	<	0.01	<	0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	<	1
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1
1,3-DICHLOROPROPANE	UG/L	<	0.3	<	0.3
2,2-DICHLOROPROPANE	UG/L	<	1	<	1
1,1-DICHLOROPROPENE	UG/L	<	1	<	1
ISOBUTYL ALCOHOL	UG/L	<	10	<	10
METHACRYLONITRILE	UG/L	<	10	<	10
METHYL IODIDE	UG/L	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1
PROPIONITRILE	UG/L	<	10	<	10

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-AVERAGE OF DUPS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS				WELL				WELL			
	M33A	SJ02792	SJ06643	M33A	M33A	SJ10537	SJ13635	M33A	SJ10537	SJ13635	M33A	SJ13635
1,1,1,2-TETRACHLOROETHANE	<	1	<	1	<	1	<	<	1	<	1	<
1,2,3-TRICHLOROPROPANE	<	1	<	1	<	1	<	<	1	<	1	<
METHYL METHACRYLATE	<	<	<	<	<	10	<	<	<	<	<	<
ETHYL METHACRYLATE	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	<	1	<	1	<	1	<	<	1	<	1	<
CHLOROFORM	<	1	<	1	<	1	<	<	1	<	1	<
1,1,1-TRICHLOROETHANE	<	0.3	<	0.3	<	0.3	<	<	0.3	<	0.3	<
CARBON TETRACHLORIDE	<	1	<	1	<	1	<	<	1	<	1	<
1,1-DICHLOROETHENE	<	1	<	1	<	1	<	<	1	<	1	<
TRICHLOROETHYLENE	<	1	<	1	<	1	<	<	1	<	1	<
TETRACHLOROETHYLENE	<	1	<	1	<	1	<	<	1	<	1	<
BROMODICHLOROMETHANE	<	1	<	1	<	1	<	<	1	<	1	<
DIBROMOCHLOROMETHANE	<	1	<	1	<	1	<	<	1	<	1	<
BROMOFORM	<	0.5	<	0.5	<	0.3	<	<	0.3	<	0.4	<
CHLOROBENZENE	<	1	<	1	<	1	<	<	1	<	1	<
VINYL CHLORIDE	<	1	<	1	<	1	<	<	1	<	1	<
O-DICHLOROBENZENE	<	1	<	1	<	1	<	<	1	<	1	<
M-DICHLOROBENZENE	<	1	<	1	<	1	<	<	1	<	1	<
P-DICHLOROBENZENE	<	1	<	1	<	1	<	<	1	<	1	<
1,1-DICHLOROETHANE	<	1	<	1	<	1	<	<	1	<	1	<
1,1,2-TRICHLOROETHANE	<	1	<	0.8	<	0.8	<	<	0.8	<	0.8	<
1,2-DICHLOROETHANE	<	0.5	<	0.5	<	0.5	<	<	0.5	<	0.5	<
BENZENE	<	1	<	1	<	1	<	<	1	<	1	<
TOLUENE	<	1	<	1	<	1	<	<	1	<	1	<
ETHYL BENZENE	<	1	<	1	<	1	<	<	1	<	1	<
VINYL ACETATE	<	10 A	<	10	<	10	<	<	10	<	10	<
O-XYLENE	<	1	<	1	<	1	<	<	1	<	1	<
TRANS-1,2-DICHLOROETHYLENE	<	1	<	1	<	1	<	<	1	<	1	<
BROMOMETHANE	<	1	<	1	<	1	<	<	1	<	1	<
CHLOROETHANE	<	1	<	1	<	1	<	<	1	<	1	<
2-CHLOROETHYL VINYLETHER	<	1	<	1	<	1	<	<	1	<	1	<
CHLOROMETHANE	<	1	<	1	<	1	<	<	1	<	1	<
1,2-DICHLOROPROPANE	<	1	<	1	<	1	<	<	1	<	1	<
CIS-1,3-DICHLOROPROPENE	<	0.5	<	0.5	<	0.5	<	<	0.5	<	0.5	<
TRANS-1,3-DICHLOROPROPENE	<	0.5	<	0.5	<	0.5	<	<	0.5	<	0.5	<
1,1,2,2-TETRACHLOROETHANE	<	0.5	<	0.5	<	0.5	<	<	0.5	<	0.5	<
ACROLEIN	<	10	<	10	<	10	<	<	10	<	10	<
ACRYLONITRILE	<	10	<	10	<	10	<	<	10	<	10	<
ACETONITRILE	<	1	<	1	<	20	<	<	1	<	1	<
FREON 12 (CCL2F2)	<	1	<	1	<	1	<	<	1	<	1	<
FREON 11 (CCL3F)	<	1	<	1	<	1	<	<	1	<	1	<

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-AVERAGE OF DUPS

TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ02792 03/04/99	WELL M33A SJ06643 06/04/99	WELL M33A SJ10537 09/17/99	WELL M33A SJ13635 12/02/99
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	1	1	1	1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLUORENE	UG/L	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A- AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-AVERAGE OF DUPS

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ02792 03/04/99	WELL M33A SJ06643 06/04/99	WELL M33A SJ10537 09/17/99	WELL M33A SJ13635 12/02/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	1
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	5
PHENACETIN	UG/L	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	20
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRITHYLPHOSPHOROTH	UG/L	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G, H, I) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-AVERAGE OF DUPS

TABLE A.3
 WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M33A SJ02792 03/04/99	WELL M33A SJ06643 06/04/99	WELL M33A SJ10537 09/17/99	WELL M33A SJ13635 12/02/99
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ACID-BASE NEUTRAL EXTRACTABLE	UNITS	WELL M33A SJ02792 03/04/99	WELL M33A SJ06643 06/04/99	WELL M33A SJ10537 09/17/99	WELL M33A SJ13635 12/02/99
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	1
FLUORENE	UG/L	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	5
HEXACHLOROETHANE	UG/L	<	<	<	1
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	1
ISOPHORONE	UG/L	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	1
NITROBENZENE	UG/L	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	1
N-NITROSDI-N-PROPYLAMINE	UG/L	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	1
PYRENE	UG/L	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	1
4-NITROPHENOL	UG/L	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	1
PHENOL	UG/L	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	1
O-CRESOL	UG/L	<	<	<	1
M+P CRESOL	UG/L	<	<	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-DUP & SPIKE C-DUPLICATE SPIKE D-AVERAGE E-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEPI
 M33A
 SJ10535
 09/17/99

CONSTITUENT/WELL NO.	UNITS	
CATIONS		
IRON	MG/L FE	< 0.05
MANGANESE	MG/L MN	0.59
METALS		
ARSENIC	MG/L AS	< .0010
BARIUM	MG/L BA	< 0.05
CADMIUM	MG/L CD	<0.002
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	<0.010
MERCURY	MG/L HG	<0.001
NICKEL	MG/L NI	< 0.02
SELENIUM	MG/L SE	<.0010
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	0.02
ANTIMONY	MG/L SB	<.0005
BERYLLIUM	MG/L BE	<.0025
THALLIUM	MG/L TL	<0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ02701 03/03/99	WELL R34B SJ02702 03/19/99	WELL R34B SJ06888 06/10/99	WELL R34B SJ06889 06/10/99	WELL R34B SJ10538 09/17/99	WELL R34B SJ13841 12/07/99
FIELD PARAMETERS							
DEPTH TO WATER	FT	47.56	47.26	47.04	47.85	47.95	47.95
DEPTH TO BOTTOM	FT	129.8	129.8	129.7	129.8	129.7	129.7
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	12	14	16	16	20	20
FIELD WATER TEMPERATURE	DEG C	18.91	23.36	23.36	23.09	20.72	20.72
FIELD PH	PH	6.39	7.04	7.08	7.09	7.3	7.3
FIELD CONDUCTIVITY	UMHOS/CM	3664	3722	3659	3818	3678	3678
FIELD DISSOLVED O2	MG/L	0.48	0.46	0.43	0.31	0.38	0.38
FIELD DISSOLVED CO2	MG/L				0.27		
GENERAL							
PH	PH	7.58	7.57	7.55	7.54	7.50	7.40
CONDUCTIVITY	UMHOS/CM	2958	2944	2993	2983	3670	2852
TOTAL DISSOLVED SOLIDS	MG/L					3096	
TOTAL HARDNESS	MG/L					1519	
TOTAL CYANIDE	MG/L CN					< 0.005	
BORON	MG/L B					0.23	
ANIONS							
NITRATE	MG/L N	< 0.05	< 0.05	< 0.05	0.11	0.5	0.05
SULFATE	MG/L SO4	1630	1650	1760	1600	1580	1630
CHLORIDE	MG/L CL	287	285	303	280	278	282
TOTAL ALKALINITY	MG/L CACO3					190	
BICARBONATE ALKALINITY	MG/L CACO3					190	
TOTAL SULFIDE	MG/L S					0.1	
FLUORIDE	MG/L F					0.25	
CATIONS							
CALCIUM-HARDNESS	MG/L CACO3					564	
MAGNESIUM-HARDNESS	MG/L CACO3					955	
SODIUM	MG/L NA					335	
POTASSIUM	MG/L K					6.4	
IRON	MG/L FE					0.60	
MANGANESE	MG/L MN					0.07	
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N					2.4	

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-INTERFERENCE E-DUP & SPIKE
F-CALCULATED VALUE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ02701 03/03/99	WELL R34B SJ02702 03/03/99	WELL R34B SJ03501 03/19/99	WELL R34B SJ06888 06/10/99	WELL R34B SJ06889 06/10/99	WELL R34B SJ10538 09/17/99	WELL R34B SJ13841 12/07/99
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ORGANIC MATTER	MG/L	O
TOTAL BOD	<	2
SOLUBLE BOD	<	2
TOTAL COD		11
SOLUBLE COD		15
TOTAL ORGANIC CARBON		1.71
OIL & GREASE	<	4.0
TOTAL ORGANIC HALOGEN (TOX)		36
EXTRAC		C

METALS	MG/L	AS
ARSENIC	<	0.0010
BARIUM	<	0.01
CADMIUM	<	0.002
TOTAL CHROMIUM	<	0.01
COBALT	<	0.01
COPPER	<	0.01
LEAD	<	0.010
MERCURY	<	0.001
NICKEL	<	0.02
SELENIUM	<	0.010
SILVER	<	0.01
ZINC	<	0.02
ANTIMONY	<	0.005
BERYLLIUM	<	0.0025
THALLIUM	<	0.001
TIN	<	0.06
VANADIUM	<	0.05

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-T	UG/L	0.05
DINOSB	<	0.1
THIONAZIN	<	1
DIMETHOATE	<	1
DISULFOTON	<	1
METHYL PARATHION	<	1
ETHYL PARATHION	<	1
PHORATE	<	1
PP' -DDE	<	0.01
PP' -DDD	<	0.01
PP' -DDT	<	0.01

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-INTERFERENCE E-DUP & SPIKE
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TABLE A.3
WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ02701 03/03/99	WELL R34B SJ02702 03/03/99	WELL R34B SJ03501 03/19/99	WELL R34B SJ06888 06/10/99	WELL R34B SJ06889 06/10/99	WELL R34B SJ10538 09/17/99	WELL R34B SJ13841 12/07/99
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	<	<	<	<	<	0.01
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<	0.01
HEPTACHLOR	UG/L	<	<	<	<	<	<	0.01
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<	0.01
ALDRIN	UG/L	<	<	<	<	<	<	0.01
DIELDRIN	UG/L	<	<	<	<	<	<	0.01
ENDRIN	UG/L	<	<	<	<	<	<	0.01
TOXAPHENE	UG/L	<	<	<	<	<	<	0.5
METHOXYCLOR	UG/L	<	<	<	<	<	<	0.01
2,4-D (ACID)	UG/L	<	<	<	<	<	<	0.5
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<	0.05
AROCLOR 1242	UG/L	<	<	<	<	<	<	0.1
AROCLOR 1254	UG/L	<	<	<	<	<	<	0.05
BETA-BHC	UG/L	<	<	<	<	<	<	0.01
DELTA-BHC	UG/L	<	<	<	<	<	<	0.01
ENDOSULFAN I	UG/L	<	<	<	<	<	<	0.01
ENDOSULFAN II	UG/L	<	<	<	<	<	<	0.01
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<	0.1
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<	0.01
AROCLOR 1016	UG/L	<	<	<	<	<	<	0.1
AROCLOR 1221	UG/L	<	<	<	<	<	<	0.1
AROCLOR 1232	UG/L	<	<	<	<	<	<	0.1
AROCLOR 1248	UG/L	<	<	<	<	<	<	0.1
AROCLOR 1260	UG/L	<	<	<	<	<	<	0.1
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<	0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	1
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	1
CHLOROPRENE	UG/L	<	<	<	<	<	<	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	1
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	0.3
2,2-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	1
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	1
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	10
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	10
METHYL IODIDE	UG/L	<	<	<	<	<	<	1
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	1
PROPIONITRILE	UG/L	<	<	<	<	<	<	10

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-INTERFERENCE E-DUP & SPIKE
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TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ02701 03/03/99	WELL R34B SJ02702 03/03/99	WELL R34B SJ03501 03/19/99	WELL R34B SJ06888 06/10/99	WELL R34B SJ06889 06/10/99	WELL R34B SJ0538 09/17/99	WELL R34B SJ13841 12/07/99
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	1	<	1
1,1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	1	<	1
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	1	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	1	1	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	1	1	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	1	1	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	1	<	1
BROMOFORM	UG/L	<	1	<	1	1	<	1
CHLOROBENZENE	UG/L	<	0.3	<	0.3	0.3	<	0.3
VINYL CHLORIDE	UG/L	<	1	<	1	1	<	1
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	0.3	<	0.3	0.3	<	0.3
1,1,2-TRICHLOROETHANE	UG/L	<	0.5	<	0.5	0.5	<	0.5
1,2-DICHLOROETHANE	UG/L	<	1	<	1	1	<	1
BENZENE	UG/L	<	1	<	1	1	<	1
TOLUENE	UG/L	<	1	<	1	1	<	1
ETHYL BENZENE	UG/L	<	1	<	1	1	<	1
VINYL ACETATE	UG/L	<	10 B	<	10	10	<	10
O-XYLENE	UG/L	<	1	<	1	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10	10	<	10
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-INTERFERENCE E-DUP & SPIKE
 G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ02701 03/03/99	WELL R34B SJ02702 03/03/99	WELL R34B SJ03501 03/19/99	WELL R34B SJ06888 06/10/99	WELL R34B SJ06889 06/10/99	WELL R34B SJ10538 09/17/99	WELL R34B SJ13841 12/07/99
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VOLATILE ORGANIC COMPOUNDS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
1, 2-DIBROMOETHANE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<
CHLOROENZILATE	UG/L	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
P (DIMETHYLAMINO) AZOBENZEN	UG/L	<	<	<	<	<	<	<
7, 12-DIMETHYLBENZ (A) ANTHR	UG/L	<	<	<	<	<	<	<
3, 3', -DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<

B-AMENDED TEST RESULT C-AVERAGE E-DUP & SPIKE
 G-10% RULE EXCEEDED H-CHECK NOTES TO USER D-INTERFERENCE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ02701 03/03/99	WELL R34B SJ02702 03/03/99	WELL R34B SJ03501 03/19/99	WELL R34B SJ06888 06/10/99	WELL R34B SJ10538 09/17/99	WELL R34B SJ13841 12/07/99
ACID-BASE NEUTRAL EXTRACTABLE							
M-NITROANILINE	UG/L	<	<	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	15
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	1
PHENACETIN	UG/L	<	<	<	<	<	20
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	1
PRONAMIDE	UG/L	<	<	<	<	<	1
SAFROLE	UG/L	<	<	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	<	1
BENZIDINE	UG/L	<	<	<	<	<	20
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	<	1
BENZO(A)PYRENE	UG/L	<	<	<	<	<	1
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	<	0.2
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	<	1
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	<	1
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	<	1
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	<	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	1
CHRYSENE	UG/L	<	<	<	<	<	1
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-INTERFERENCE E-DUP & SPIKE
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TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL R34B SJ02701 03/03/99	WELL R34B SJ02702 03/03/99	WELL R34B SJ03501 03/19/99	WELL R34B SJ06888 06/10/99	WELL R34B SJ06889 06/10/99	WELL R34B SJ10538 09/17/99	WELL R34B SJ13841 12/07/99
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ACID-BASE	NEUTRAL	EXTRACTABLE	1	2	3	4	5	6
DI-N-BUTYL PHTHALATE	UG/L		<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L		<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L		<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L		<	<	<	<	<	<
FLUORANTHENE	UG/L		<	<	<	<	<	<
FLUORENE	UG/L		<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L		<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L		<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L		<	<	<	<	<	<
HEXACHLOROETHANE	UG/L		<	<	<	<	<	<
INDENO(1,2,3-C,D) PYRENE	UG/L		<	<	<	<	<	<
ISOPHORONE	UG/L		<	<	<	<	<	<
NAPHTHALENE	UG/L		<	<	<	<	<	<
NITROBENZENE	UG/L		<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L		<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L		<	<	<	<	<	<
PHENANTHRENE	UG/L		<	<	<	<	<	<
PYRENE	UG/L		<	<	<	<	<	<
2-CHLOROPHENOL	UG/L		<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L		<	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L		<	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L		<	<	<	<	<	<
2,4-DINITROPHENOL	UG/L		<	<	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L		<	<	<	<	<	<
2-NITROPHENOL	UG/L		<	<	<	<	<	<
4-NITROPHENOL	UG/L		<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L		<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L		<	<	<	<	<	<
PHENOL	UG/L		<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L		<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L		<	<	<	<	<	<
O-CRESOL	UG/L		<	<	<	<	<	<
M+P CRESOL	UG/L		<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE F-CALCULATED VALUE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE H-CHECK NOTES TO USER D-INTERFERENCE E-DUP & SPIKE

TABLE A.3

WATER QUALITY DATA - BARRIER THREE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFI
 R34B
 SJ10536
 09/17/99

CONSTITUENT/WELL NO. UNITS

CATIONS	MG/L	FE	0.59
IRON	MG/L	MN	0.07
MANGANESE			
METALS			
ARSENIC	MG/L	AS	<.0010
BARIIUM	MG/L	BA	< 0.01
CADMIUM	MG/L	CD	<0.002
TOTAL CHROMIUM	MG/L	CR	< 0.01
COBALT	MG/L	CO	< 0.01
COPPER	MG/L	CU	< 0.01
LEAD	MG/L	PB	<0.010
MERCURY	MG/L	HG	<.0001
NICKEL	MG/L	NI	< 0.02
SELENIUM	MG/L	SE	<.0010
SILVER	MG/L	AG	< 0.01
ZINC	MG/L	ZN	< 0.01
ANTIMONY	MG/L	SB	<.0005
BERYLLIUM	MG/L	BE	<.0025
THALLIUM	MG/L	TL	<0.001
TIN	MG/L	SN	< 0.05
VANADIUM	MG/L	V	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUFS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.4
WATER QUALITY DATA
BARRIER 4 AND BARRIER 5 MONITORING WELLS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL				
		M41A SJ02571 03/02/99	M41A SJ02572 03/02/99	M41A SJ06822 06/09/99	M41A SJ10398 09/15/99	M41A SJ14008 12/10/99
FIELD PARAMETERS						
DEPTH TO WATER	FT	44.21	44.25	44.46	45.23	
DEPTH TO BOTTOM	FT	59.04	58.95	58.93	58.91	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	20	20	18	15	
FIELD WATER TEMPERATURE	DEG C	20.86	20.57	21.27	19.52	
FIELD PH	PH	7.36	6.92	6.91	5.55	
FIELD CONDUCTIVITY	UMHOS/CM	2704	2998	3289	3612	
FIELD DISSOLVED O2	MG/L	0.48	0.41	0.23	0.49	
FIELD DISSOLVED CO2	MG/L	0.30	0.60	0.88	1602	
GENERAL						
PH	PH	7.43 A	7.30 A	7.39	6.69	6.92
CONDUCTIVITY	UMHOS/CM	2640	2910	2950	3370	3280
TOTAL DISSOLVED SOLIDS	MG/L	2051 B	2276	2356	2628	2512
TOTAL HARDNESS	MG/L CaCO3	937 D	915 D	1109 D	976 D	986 D
TOTAL CYANIDE	MG/L CN	<0.005	0.011	<0.005	<0.005	<0.005
BORON	MG/L B	1.07	1.47	0.60	2.00	2.02
ANIONS						
NITRATE NITROGEN	MG/L N	1.32 C	0.20	0.09	0.07	0.08
SULFATE	MG/L SO4	998 C	1220	1180	1390	1370
CHLORIDE	MG/L CL	93.2 C	114 G	109	165 G	133 G
TOTAL ALKALINITY	MG/L CaCO3	389	286	406	324 B	329
BICARBONATE ALKALINITY	MG/L CaCO3	389	286	406	324	329
TOTAL SULFIDE	MG/L S			< 0.1		
FLUORIDE	MG/L F	1.07	0.82	0.96	0.81	0.81
CATIONS						
CALCIUM-HARDNESS	MG/L CaCO3	464	462 C	562 C	552 C	574 C
MAGNESIUM-HARDNESS	MG/L CaCO3	473	453 C	547 C	424	412 C
SODIUM	MG/L NA	287	399 C	313 C	467	474 C
POTASSIUM	MG/L K	7.8	7.5 C	9.1 C	8.4	8.6 C
IRON	MG/L FE	0.64	0.12 C	3.34 C	3.22	2.85 C
MANGANESE	MG/L MN			0.15 C		
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-INTERFERENCE E-10% RULE EXCEEDED
 F-AMENDED TEST RESULT G-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ02571 03/02/99	WELL M41A SJ02572 06/09/99	WELL M41A SJ10398 09/15/99	WELL M41A SJ14008 12/10/99	WELL M41A SJ14009 12/10/99
ORGANIC MATTER						
TOTAL BOD	MG/L	< 2 B	< 2 B	< 2	< 2	< 2
SOLUBLE BOD	MG/L	< 10	< 10 B	< 10	< 10	< 10
TOTAL COD	MG/L	< 1.89	< 2.52	< 2.50	< 2.68	< 2.77
SOLUBLE COD	MG/L	6.1 E	6.5 G	9.7 G	3.2 G	5.7 G
TOTAL ORGANIC CARBON	MG/L					
OIL & GREASE	MG/L					
TOTAL ORGANIC HALOGEN(TOX)	UG/L					
METALS						
ARSENIC	MG/L	.0016	.0018	.0023	<.0010	<.0010
BARIIUM	MG/L	0.02	0.03	0.04	0.03	0.03
CADMIUM	MG/L	< 0.01	< 0.01	< 0.01	0.09	0.09
TOTAL CHROMIUM	MG/L					
COBALT	MG/L					
COPPER	MG/L					
LEAD	MG/L					
MERCURY	MG/L					
NICKEL	MG/L					
SELENIUM	MG/L	.0015	.0013	<.0010	<.0010	<.0010
SILVER	MG/L	0.02	0.02	0.02	0.02	0.01
ZINC	MG/L	.0007	.0009	<.0005	<.0005	<.0005
ANTIMONY	MG/L					
BERYLLIUM	MG/L					
THALLIUM	MG/L					
TIN	MG/L					
VANADIUM	MG/L					
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
2,4,5-T	UG/L					
DINOSORB	UG/L					
THIONAZIN	UG/L					
DIMETHOATE	UG/L					
DISULFOTON	UG/L					
METHYL PARATHION	UG/L					
ETHYL PARATHION	UG/L					
PHORATE	UG/L					
PP'-DDE	UG/L					
PP'-DDD	UG/L					
PP'-DDT	UG/L					

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-INTERFERENCE E-10% RULE EXCEEDED
F-AMENDED TEST RESULT G-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ02571 03/02/99	WELL M41A SJ02572 03/02/99	WELL M41A SJ06822 06/09/99	WELL M41A SJ10398 09/15/99	WELL M41A SJ14008 12/10/99	WELL M41A SJ14009 12/10/99
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	<	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
2,2-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-INTERFERENCE E-10% RULE EXCEEDED
 F-AMENDED TEST RESULT G-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ02571 03/02/99	WELL M41A SJ02572 03/02/99	WELL M41A SJ06822 06/09/99	WELL M41A SJ10398 09/15/99	WELL M41A SJ14008 12/10/99	WELL M41A SJ14009 12/10/99
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	1	<	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	<	1	<	<	1
METHYL METHACRYLATE	UG/L	<	<	10	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	1	<	<	1
CHLOROFORM	UG/L	<	<	1	<	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	<	1	<	<	1
CARBON TETRACHLORIDE	UG/L	<	<	0.3	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	1	<	<	1
TRICHLOROETHYLENE	UG/L	<	<	1	<	<	1
TETRACHLOROETHYLENE	UG/L	<	<	1	<	<	1
BROMODICHLOROMETHANE	UG/L	<	<	1	<	<	1
DIBROMOCHLOROMETHANE	UG/L	<	<	1	<	<	1
BROMOFORM	UG/L	<	<	1	<	<	1
CHLOROBENZENE	UG/L	0.3	<	1	<	<	1
VINYL CHLORIDE	UG/L	0.3	<	0.3	0.3	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	<	1	<	<	1
M-DICHLOROBENZENE	UG/L	<	<	1	<	<	1
P-DICHLOROBENZENE	UG/L	<	<	1	<	<	1
1,1,1-DICHLOROETHANE	UG/L	<	<	1	<	<	1
1,1,2-TRICHLOROETHANE	UG/L	0.3	<	0.3	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	<	0.5	0.5	0.5	0.5
BENZENE	UG/L	<	<	1	<	<	1
TOLUENE	UG/L	<	<	1	<	<	1
ETHYL BENZENE	UG/L	10 F	<	10 F	<	<	10
VINYL ACETATE	UG/L	<	<	1	<	<	1
O-XYLENE	UG/L	<	<	1	<	<	1
BROMOMETHANE	UG/L	<	<	1	<	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	1	<	<	1
CHLOROETHANE	UG/L	<	<	1	<	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	<	1	<	<	1
CHLOROMETHANE	UG/L	<	<	1	<	<	1
1,2-DICHLOROPROPANE	UG/L	<	<	1	<	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	<	0.5	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	<	0.5	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	0.5	0.5	0.5	0.5
ACROLEIN	UG/L	<	<	10	<	<	10
ACRYLONITRILE	UG/L	<	<	10	<	<	10
ACETONITRILE	UG/L	<	<	20	<	<	20
FREON 12 (CCL2F2)	UG/L	<	<	1	<	<	1
FREON 11 (CCL3F)	UG/L	<	<	1	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-INTERFERENCE E-10% RULE EXCEEDED
F-AMENDED TEST RESULT G-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ02571 03/02/99	WELL M41A SJ02572 03/02/99	WELL M41A SJ06822 06/09/99	WELL M41A SJ10398 09/15/99	WELL M41A SJ14008 12/10/99	WELL M41A SJ14009 12/10/99
VOLATILE ORGANIC COMPOUNDS							
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE							
ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3, 3' -DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-INTERFERENCE E-10% RULE EXCEEDED
F-AMENDED TEST RESULT G-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ02571 03/02/99	WELL M41A SJ02572 06/09/99	WELL M41A SJ06822	WELL M41A SJ10398 09/15/99	WELL M41A SJ14008 12/10/99	WELL M41A SJ14009 12/10/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<
O,O,O-TRITHYLPHOSPHOROTH	UG/L	<	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<
BENZIDINE	UG/L	<	<	<	<	<	<
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	<	<
BENZO (A) PYRENE	UG/L	<	<	<	<	<	<
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	<	<
BENZO (G, H, I) PERYLENE	UG/L	<	<	<	<	<	<
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	<	<
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	<	<
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	<	<
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-INTERFERENCE E-10% RULE EXCEEDED
 F-AMENDED TEST RESULT G-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M41A SJ02571 03/02/99	WELL M41A SJ02572 06/09/99	WELL M41A SJ10398 09/15/99	WELL M41A SJ14008 12/10/99	WELL M41A SJ14009 12/10/99
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ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	1
FLUORENE	UG/L	<	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	5
HEXACHLOROETHANE	UG/L	<	<	<	<	1
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	<	<	1
ISOPHORONE	UG/L	<	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	<	1
NITROBENZENE	UG/L	<	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSDI-N-PROPYLAMINE	UG/L	<	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	<	1
PYRENE	UG/L	<	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	<	1
4-NITROPHENOL	UG/L	<	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	<	1
PHENOL	UG/L	<	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	1
O-CRESOL	UG/L	<	<	<	<	1
M+P CRESOL	UG/L	<	<	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-DUP & SPIKE C-DUPLICATE SPIKE D-INTERFERENCE E-10% RULE EXCEEDED
F-AMENDED TEST RESULT G-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M41A SJ02569 03/02/99	WEFI M41A SJ02570 03/02/99	WEFI M41A SJ06820 06/09/99	WEFI M41A SJ10397 09/15/99	WEFI M41A SJ14006 12/10/99	WEFI M41A SJ14007 12/10/99
IRON	MG/L	< 0.05	< 0.05	< 0.05	< 0.05	1.64	1.90
MANGANESE	MG/L	< 0.05	< 0.05	< 0.05	< 0.13		

CATIONS	MG/L	FE	MG/L	MN
METALS				
ARSENIC	MG/L	0.014	0.011	0.0022
BARIIUM	MG/L	0.02	0.02	0.02
CADMIUM	MG/L	< 0.01	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01	< 0.01
COBALT	MG/L	< 0.01	< 0.01	< 0.01
COPPER	MG/L	< 0.01	< 0.01	< 0.01
LEAD	MG/L	< 0.01	< 0.01	< 0.01
MERCURY	MG/L	< 0.01	< 0.01	< 0.01
NICKEL	MG/L	< 0.01	< 0.01	< 0.01
SELENIUM	MG/L	0.014	< 0.010	0.011
SILVER	MG/L	0.01	< 0.01	< 0.01
ZINC	MG/L	0.009	0.01	< 0.01
ANTIMONY	MG/L	0.009	0.012	< 0.005
BERYLLIUM	MG/L	< 0.01	< 0.01	< 0.01
THALLIUM	MG/L	< 0.01	< 0.01	< 0.01
TIN	MG/L	< 0.01	< 0.01	< 0.01
VANADIUM	MG/L	< 0.01	< 0.01	< 0.01

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A	WELL M42A	WELL M42A	WELL M42A	WELL M42A	WELL M42A
SJ02583		SJ05842	SJ06843	SJ0312	SJ10313	SJ13989	
03/02/99	06/09/99	06/09/99	06/09/99	09/13/99	09/13/99	12/10/99	

FIELD PARAMETERS

DEPTH TO WATER	FT	40.51	40.57	57.39	41.0		
DEPTH TO BOTTOM	FT	57.36	57.39	< 0.1	57.4		
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	15	< 0.1		
PERCENT OXYGEN IN GAS	%O2	21	19	20.35	21		
FIELD WATER TEMPERATURE	DEG C	21.56	20.95	7.29	20.35		
FIELD PH	PH	7.01	6.86	7.29	7.32		
FIELD CONDUCTIVITY	UMHOS/CM	4139	4000	3804	4633		
FIELD DISSOLVED O2	MG/L	0.25	0.26	0.58	0.68		
FIELD DISSOLVED CO2	MG/L	0.56	0.62	0.29	0.28		

GENERAL

PH	PH	7.31	7.18	7.17	7.37	7.23	G
CONDUCTIVITY	UMHOS/CM	4020	3980	3990	4170	4610	
TOTAL DISSOLVED SOLIDS	MG/L	3301	3354	3416	3600	3700	A
TOTAL HARDNESS	MG/L	1204	1440	1482	1304	1311	C
TOTAL CYANIDE	MG/L	<0.005	<0.005	<0.005	<0.005	<0.005	
BORON	MG/L	1.56	1.55	1.41	1.50	1.71	

ANIONS

NITRATE	MG/L	< 0.05	0.28	0.29	0.11	< 0.05	F
NITROGEN	MG/L	1930	2090	2090	1990	2080	F
SULFATE	MG/L	162	152	155	147	182	F
CHLORIDE	MG/L	329	258	245	319	329	
TOTAL ALKALINITY	MG/L	329	258	245	319	329	
BICARBONATE ALKALINITY	MG/L	329	258	245	319	329	
TOTAL SULFIDE	MG/L				< 0.1	< 0.1	
FLUORIDE	MG/L	0.68	0.65	0.66	0.63	0.56	

CATIONS

CALCIUM-HARDNESS	MG/L	657	799	832	717	722	
MAGNESIUM-HARDNESS	MG/L	547	642	650	589	589	
SODIUM	MG/L	524	507	491	612	670	
POTASSIUM	MG/L	11.5	11.7	11.9	11.9	11.3	
IRON	MG/L	0.07	0.24	0.30	0.07	0.26	
MANGANESE	MG/L				0.009	0.009	

ORGANIC MATTER

AMMONIA NITROGEN	MG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
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FOOTNOTES : A-DUP & SPIKE F-DUPLICATE SPIKE

B-AVERAGE OF DUPS G-AVERAGE OF DUPS

C-CALCULATED VALUE H-CHECK NOTES TO USER

D-INTERFERENCE

E-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ02583 03/02/99	WELL M42A SJ06842 06/09/99	WELL M42A SJ06843 06/09/99	WELL M42A SJ10312 09/13/99	WELL M42A SJ10313 09/13/99	WELL M42A SJ13989 12/10/99
ORGANIC MATTER							
TOTAL BOD	MG/L O	<	2	<	2	<	2
SOLUBLE BOD	MG/L O	<	2	<	2	<	2
TOTAL COD	MG/L O	<	10	<	10	<	10
SOLUBLE COD	MG/L O	<	10	<	10	<	10
TOTAL ORGANIC CARBON	MG/L C	2.17	2.32 F	2.27	2.29	2.30	2.44
OIL & GREASE	MG/L	6.4 D	10 B	10 B	3.0	4.0	4.0
TOTAL ORGANIC HALOGEN (TOX)	UG/L				4.0 B	6.7 B	12 D
METALS							
ARSENIC	MG/L AS	.0027	.0023	.0021	.0020	.0020	.0018
BARIUM	MG/L BA	0.02	0.02	0.02	0.02	0.02	0.02
CADMIUM	MG/L CD				<0.002	<0.002	
TOTAL CHROMIUM	MG/L CR	<	<	<	<	<	<
COBALT	MG/L CO	<	<	<	<	<	<
COPPER	MG/L CU	<	<	<	<	<	<
LEAD	MG/L PB	<	<	<	<	<	<
MERCURY	MG/L HG	<	<	<	<	<	<
NICKEL	MG/L NI	<	<	<	<	<	<
SELENIUM	MG/L SE	<	<	<	<	<	<
SILVER	MG/L AG	<	<	<	<	<	<
ZINC	MG/L ZN	0.01	<	<	0.02	0.02	<
ANTIMONY	MG/L SB	.0009	.0005	.0005	.0008	.0009	.0008
BERYLLIUM	MG/L BE				<.0025	<.0025	
THALLIUM	MG/L TL				<0.001	<0.001	
TIN	MG/L SN				<0.06	<0.06	
VANADIUM	MG/L V				<0.05	<0.05	
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L				<0.05	<0.05	
DINOSB	UG/L				<0.1	<0.1	
THIONAZIN	UG/L				<	<	
DIMETHOATE	UG/L				<	<	
DISULFOTON	UG/L				<	<	
METHYL PARATHION	UG/L				<	<	
ETHYL PARATHION	UG/L				<	<	
PHORATE	UG/L				<	<	
PP'-DDE	UG/L				<	<	
PP'-DDD	UG/L				<	<	
PP'-DDT	UG/L				<	<	

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-INTERFERENCE E-AMENDED TEST RESULT
F-DUPLICATE SPIKE G-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ02583 03/02/99	WELL M42A SJ06842 06/09/99	WELL M42A SJ06843 06/09/99	WELL M42A SJ10312 09/13/99	WELL M42A SJ10313 09/13/99	WELL M42A SJ13989 12/10/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1242	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
1,1-DICHLOROPROPENE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
ISOBUTYL ALCOHOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHACRYLONITRILE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-DUP & SPIKE B-AVERAGE G-AVERAGE OF DUPS C-CALCULATED VALUE D-INTERFERENCE E-AMENDED TEST RESULT
F-DUPLICATE SPIKE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ02583 03/02/99	WELL M42A SJ06842 06/09/99	WELL M42A SJ06843 06/09/99	WELL M42A SJ10312 09/13/99	WELL M42A SJ10313 09/13/99	WELL M42A SJ13989 12/10/99
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<
2-CHLOROETHYL VINYL ETHER	UG/L	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE G-AVERAGE OF DUPS C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AMENDED TEST RESULT

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A		WELL M42A		WELL M42A		WELL M42A	
		SJ02583 03/02/99	SJ06842 06/09/99	SJ06843 09/13/99	SJ10312 09/13/99	SJ10313 09/13/99	SJ13989 12/10/99		
VOLATILE ORGANIC COMPOUNDS									
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE									
ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-INTERFERENCE E-AMENDED TEST RESULT
F-DUPLICATE SPIKE G-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M42A SJ02583 03/02/99	WELL M42A SJ06842 06/09/99	WELL M42A SJ06843 06/09/99	WELL M42A SJ10312 09/13/99	WELL M42A SJ10313 09/13/99	WELL M42A SJ13989 12/10/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<
O,O-O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<
BENZIDINE	UG/L	<	<	<	<	<	<
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	<	<
BENZO(A)PYRENE	UG/L	<	<	<	<	<	<
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	<	<
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	<	<
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	<	<
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	<	<
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	<	<
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-INTERFERENCE E-AMENDED TEST RESULT
F-DUPLICATE SPIKE G-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M42A	WEFI M42A	WEFI M42A	WEFI M42A	WEFI M42A	WEFI M42A
SJ02581		SJ06840	SJ06841	SJ10310	SJ10311	SJ13987	
03/02/99		06/09/99	06/09/99	09/13/99	09/13/99	12/10/99	

CATIONS	MG/L	FE	MG/L	FE	MG/L	FE	MG/L	FE
IRON	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
MANGANESE								
METALS								
ARSENIC	.0027	.0019	.0019	.0019	.0016	.0016	.0017	.0016
BARIIUM	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
CADMIUM					< 0.002	< 0.002	< 0.002	< 0.002
TOTAL CHROMIUM					< 0.01	< 0.01	< 0.01	< 0.01
COBALT	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COPPER					< 0.01	< 0.01	< 0.01	< 0.01
LEAD					< 0.010	< 0.010	< 0.010	< 0.010
MERCURY					< .0001	< .0001	< .0001	< .0001
NICKEL					< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	< .0010	< .0010	< .0010	< .0010	< .0010	< .0010	< .0010	< .0010
SILVER					< 0.01	< 0.01	< 0.01	< 0.01
ZINC	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.01
ANTIMONY	.0008	.0005	.0005	.0005	.0006	.0008	.0005	.0005
BERYLLIUM					< .0025	< .0025	< .0025	< .0025
THALLIUM					< 0.001	< 0.001	< 0.001	< 0.001
TIN					< 0.05	< 0.05	< 0.05	< 0.05
VANADIUM					< 0.05	< 0.05	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ02584 03/02/99	WELL M43A SJ06823 06/09/99	WELL M43A SJ10341 09/14/99	WELL M43A SJ10342 09/14/99	WELL M43A SJ13990 12/10/99
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FIELD PARAMETERS	44.96	59.98	45.0	59.98	45.26	45.3
DEPTH TO WATER	44.96	59.98	45.0	59.98	45.26	45.3
DEPTH TO BOTTOM	< 0.1	< 0.1	< 0.1	< 0.1	60.02	60.0
PERCENT METHANE IN GAS	17	17	17	17	18	< 0.1
PERCENT OXYGEN IN GAS	20.35	20.35	20.35	20.35	22.42	20
FIELD WATER TEMPERATURE	7.01	7.01	7.01	7.01	6.89	19.73
FIELD PH	2274	2274	2274	2274	2382	7.35
UMHOS/CM	0.43	0.43	0.43	0.43	0.44	2792
FIELD DISSOLVED O2	72	72	72	72	0.44	0.41
FIELD DISSOLVED CO2	61	61	61	61	0.95	0.33

GENERAL	7.37	7.34	7.37	7.34	7.44	7.69
PH	7.37	7.34	7.37	7.34	7.44	7.69
CONDUCTIVITY	2080	2410	2080	2410	2490	2630
TOTAL DISSOLVED SOLIDS	1528	1792	1528	1792	1891	1938
TOTAL HARDNESS	711	758	711	758	705	758
TOTAL CYANIDE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BORON	0.86	0.94	0.86	0.94	0.75	0.96

ANIONS	0.10	0.05	0.10	0.05	0.05	0.15
NITRATE NITROGEN	0.10	< 0.05	0.10	< 0.05	< 0.05	0.15
SULFATE	737	949	737	949	887	979
CHLORIDE	56.8	73.7	56.8	73.7	72.1	74.7
TOTAL ALKALINITY	418	340	418	340	422	427
BICARBONATE ALKALINITY	418	340	418	340	422	427
TOTAL SULFIDE	0.94	0.81	0.94	0.81	0.80	0.75
FLUORIDE	0.94	0.81	0.94	0.81	0.80	0.75

CATIONS	345	370	345	370	342	367
CALCIUM-HARDNESS	345	370	345	370	342	367
MAGNESIUM-HARDNESS	366	388	366	388	363	391
SODIUM	251	330	251	330	319	379
POTASSIUM	8.3	8.0	8.3	8.0	8.2	7.5
IRON	0.80	0.13	0.80	0.13	0.12	0.16
MANGANESE	0.80	0.13	0.80	0.13	1.33	0.16
ORGANIC MATTER	0.02	0.02	0.02	0.02	0.02	0.08

AMMONIA NITROGEN	MG/L N	0.1	0.1	0.1	0.1	0.1
AMMONIA NITROGEN	MG/L N	< 0.1	0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-INSUFFICIENT SAMPLE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A	WELL M43A	WELL M43A	WELL M43A	WELL M43A
SJ02584		SJ06823	SJ10341	SJ10342	SJ13990	
03/02/99		06/09/99	09/14/99	09/14/99	12/10/99	

ORGANIC MATTER	MG/L	UG/L	F	D	E
TOTAL BOD	< 2	< 2	<	<	<
SOLUBLE BOD	< 10	< 10	<	<	<
TOTAL COD	< 2.17	< 2.81	<	<	<
SOLUBLE COD	7.5 A	5.9 A	4.0 E	6.6 A	4.5 A
TOTAL ORGANIC CARBON					
OIL & GREASE					
TOTAL ORGANIC HALOGEN (TOX)					
AS	.0021	.0021	.0022	.0026	
BA	0.03 E	0.03	0.05	0.03 E	
CD	< 0.002	< 0.002	< 0.002	< 0.002	
CR	< 0.01	< 0.01	< 0.01	< 0.01	
CO	< 0.01	< 0.01	< 0.01	< 0.01	
CU	< 0.01	< 0.01	< 0.01	< 0.01	
PB	< 0.010	< 0.010	< 0.010	< 0.010	
HG	< 0.0001	< 0.0001	< 0.0001	< 0.0001	
NI	< 0.02	< 0.02	< 0.02	< 0.02	
SE	.0010	< .0010	< .0010	< .0010	
AG	0.01	< 0.01	< 0.01	< 0.01	
ZN	0.03 E	< 0.01	< 0.03	< 0.01 E	
SB	.0008	.0008	.0009	.0008	
BE	< .0025	< .0025	< .0025	< .0025	
TL	< 0.0001	< 0.0001	< 0.0001	< 0.0001	
SN	< 0.06	< 0.06	< 0.06	< 0.06	
V	< 0.05	< 0.05	< 0.05	< 0.05	

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS	UG/L	B-DUP & SPIKE	C-CALCULATED VALUE	D-INTERFERENCE	E-AVERAGE OF DUPS
2,4,5-T	< 0.05	<	<	<	<
DINOSB	< 0.1	<	<	<	<
THIONAZIN	< 1	<	<	<	<
DIMETHOATE	< 1	<	<	<	<
DISULFOTON	< 1	<	<	<	<
METHYL PARATHION	< 1	<	<	<	<
ETHYL PARATHION	< 1	<	<	<	<
PHORATE	< 0.01	<	<	<	<
PP'-DDE	< 0.01	<	<	<	<
PP'-DDD	< 0.01	<	<	<	<
PP'-DDT	< 0.01	<	<	<	<

FOOTNOTES : A-AVERAGE F-INSUFFICIENT SAMPLE B-DUP & SPIKE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ02584 03/02/99	WELL M43A SJ05823 06/09/99	WELL M43A SJ10341 09/14/99	WELL M43A SJ10342 09/14/99	WELL M43A SJ13990 12/10/99
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PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1242	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 1	< 1	< 1	< 1	< 1
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-AVERAGE B-DUP & SPIKE B-DUP & SPIKE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS F-INSUFFICIENT SAMPLE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ02584 03/02/99	WELL M43A SJ06823 06/09/99	WELL M43A SJ10341 09/14/99	WELL M43A SJ10342 09/14/99	WELL M43A SJ13990 12/10/99
VOLATILE ORGANIC COMPOUNDS						
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	10	<
METHYL METHACRYLATE	UG/L	<	10	<	5	<
METHYL METHACRYLATE	UG/L	<	<	<	1	<
METHYLENE CHLORIDE	UG/L	<	<	<	1	<
CHLOROFORM	UG/L	<	<	<	1	<
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	1
1,1,1-TRICHLORORIDE	UG/L	<	0.3	<	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	1	<
TRICHLOROETHYLENE	UG/L	<	<	<	1	<
TETRACHLOROETHYLENE	UG/L	<	<	<	1	<
BROMODICHLOROMETHANE	UG/L	<	<	<	1	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	1	<
BROMOFORM	UG/L	<	<	<	1	<
CHLOROETHYLENE	UG/L	<	<	<	1	<
VINYL CHLORIDE	UG/L	<	0.3	<	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	0.1	<	1	1
P-DICHLOROBENZENE	UG/L	<	<	<	1	<
M-DICHLOROBENZENE	UG/L	<	<	<	1	<
1,1-DICHLOROETHANE	UG/L	<	1	<	1	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1	1
1,2-DICHLOROETHANE	UG/L	<	0.3	<	0.3	0.3
BENZENE	UG/L	<	0.5	<	0.5	0.5
TOLUENE	UG/L	<	1	<	1	1
ETHYL BENZENE	UG/L	<	1	<	1	1
VINYL ACETATE	UG/L	10 D	10	<	10	10
O-XYLENE	UG/L	<	1	<	1	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	1
BROMOMETHANE	UG/L	<	1	<	1	1
CHLOROETHANE	UG/L	<	1	<	1	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	1
CHLOROMETHANE	UG/L	<	1	<	1	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
ACROLEIN	UG/L	<	10	<	10	10
ACRYLONITRILE	UG/L	<	10	<	10	10
ACETONITRILE	UG/L	<	20	<	20	20
FREON 12 (CCL2F2)	UG/L	<	1	<	1	1
FREON 11 (CCL3F)	UG/L	<	1	<	1	1

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-INSUFFICIENT SAMPLE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL					WELL
		M43A	SJ02584	SJ06823	M43A	M43A	
VOLATILE ORGANIC COMPOUNDS							
1, 2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1, 2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2, 4, 5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE							
ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROENZILATE	UG/L	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2, 6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7, 12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3, 3' -DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1, 4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-INSUFFICIENT SAMPLE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL	WELL	WELL
M43A	M43A	M43A	M43A	M43A	M43A
SJ02584	SJ06823	SJ10341	SJ10342	SJ13990	
03/02/99	06/09/99	09/14/99	09/14/99	12/10/99	

CONSTITUENT/WELL NO. UNITS

ACID-BASE NEUTRAL EXTRACTABLE

M-NITROANILINE	UG/L	<	1	F
P-NITROANILINE	UG/L	<	1	F
N-NITROSDI-N-BUTYLAMINE	UG/L	<	1	F
N-NITROSODIETHYLAMINE	UG/L	<	1	F
N-NITROSOMETHYLETHYLAMINE	UG/L	<	1	F
N-NITROSOPIPERIDINE	UG/L	<	1	F
N-NITROSOPYRROLIDINE	UG/L	<	1	F
5-NITRO-O-TOLUIDINE	UG/L	<	1	F
PENTACHLOROBENZENE	UG/L	<	1	F
PENTACHLORONITROBENZENE	UG/L	<	1	F
PHENACETIN	UG/L	<	1	F
P-PHENYLENEDIAMINE	UG/L	<	20	F
PRONAMIDE	UG/L	<	1	F
SAFROLE	UG/L	<	1	F
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	1	F
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	1	F
O-TOLUIDINE	UG/L	<	1	F
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	1	F
SYM-TRINITROBENZENE	UG/L	<	5	F
ACENAPHTHENE	UG/L	<	1	F
ACENAPHTHYLENE	UG/L	<	1	F
ANTHRACENE	UG/L	<	1	F
BENZIDINE	UG/L	<	20	F
BENZO (A) ANTHRACENE	UG/L	<	1	F
BENZO (A) PYRENE	UG/L	<	0.2	F
BENZO (B) FLUORANTHENE	UG/L	<	1	F
BENZO (G, H, I, J) PERYLENE	UG/L	<	1	F
BENZO (K) FLUORANTHENE	UG/L	<	1	F
BIS (2-CL-ETHOXY) METHANE	UG/L	<	1	F
BIS (2-CHLOROETHYL) ETHER	UG/L	<	1	F
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	1	F
DIETHYLHEXYL PHTHALATE	UG/L	<	1	F
4-BROMOPHENYL PHENYLETHER	UG/L	<	1	F
BUTYLBENZYL PHTHALATE	UG/L	<	1	F
2-CHLORONAPHTHALENE	UG/L	<	1	F
4-CHLOROPHENYLPHENYLETHER	UG/L	<	1	F
CHRYSENE	UG/L	<	1	F
DIBENZO (A, H) ANTHRACENE	UG/L	<	1	F
3,3'-DICHLOROBENZIDINE	UG/L	<	1	F
DIETHYL PHTHALATE	UG/L	<	1	F
DIMETHYL PHTHALATE	UG/L	<	1	F

FOOTNOTES : A-AVERAGE B-DUP & SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-INSUFFICIENT SAMPLE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M43A SJ02584 03/02/99	WELL M43A SJ06823 06/09/99	WELL M43A SJ10341 09/14/99	WELL M43A SJ10342 09/14/99	WELL M43A SJ13990 12/10/99
ACID-BASE NEUTRAL EXTRACTABLE						
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	F
2,4-DINITROTOLUENE	UG/L	<	<	<	<	F
2,6-DINITROTOLUENE	UG/L	<	<	<	<	F
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	F
FLUORANTHENE	UG/L	<	<	<	<	F
FLUORENE	UG/L	<	<	<	<	F
HEXACHLOROBENZENE	UG/L	<	<	<	<	F
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	F
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	5	<	F
HEXACHLOROETHANE	UG/L	<	<	<	<	F
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	<	F
ISOPHORONE	UG/L	<	<	<	<	F
NAPHTHALENE	UG/L	<	<	<	<	F
NITROBENZENE	UG/L	<	<	<	<	F
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	F
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	F
PHENANTHRENE	UG/L	<	<	<	<	F
PYRENE	UG/L	<	<	<	<	F
2-CHLOROPHENOL	UG/L	<	<	<	<	F
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	F
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	F
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	F
2,4-DINITROPHENOL	UG/L	<	<	<	<	F
2-METHYL-4,6DINITROPHENOL	UG/L	<	<	6	<	F
2-NITROPHENOL	UG/L	<	<	<	<	F
4-NITROPHENOL	UG/L	<	<	<	<	F
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	F
PENTACHLOROPHENOL	UG/L	<	<	<	<	F
PHENOL	UG/L	<	<	<	<	F
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	F
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	F
O-CRESOL	UG/L	<	<	<	<	F
M+P CRESOL	UG/L	<	<	<	<	F

FOOTNOTES : A-AVERAGE F-INSUFFICIENT SAMPLE B-DUP & SPIKE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M43A SJ02582 03/02/99	WEFI M43A SJ06821 06/09/99	WEFI M43A SJ10339 09/14/99	WEFI M43A SJ10340 09/14/99	WEFI M43A SJ13988 12/10/99
CATIONS						
IRON	MG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
MANGANESE	MG/L		0.02	0.05	0.05	
METALS						
ARSENIC	MG/L	.0018	.0030	.0023	.0018	.0025
BARIUM	MG/L	0.03	0.03	0.03	0.05	0.03
CADMIUM	MG/L			< 0.002	< 0.002	
TOTAL CHROMIUM	MG/L			< 0.01	< 0.01	
COBALT	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L			< 0.01	< 0.01	
LEAD	MG/L			< 0.010	< 0.010	
MERCURY	MG/L			< .0001	< .0001	
NICKEL	MG/L			< 0.02	< 0.02	
SELENIUM	MG/L	.0010	< .0010	< .0010	< .0010	< .0010
SILVER	MG/L			< 0.01	< 0.01	
ZINC	MG/L	0.04	< 0.01	< 0.01	0.02	< 0.01
ANTIMONY	MG/L	.0010	.0005	.0025	.0010	.0008
BERYLLIUM	MG/L			< .0025	< .0025	
THALLIUM	MG/L			< 0.001	< 0.001	
TIN	MG/L			< 0.06	< 0.06	
VANADIUM	MG/L			< 0.05	< 0.05	

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ02801 03/04/99	WELL M47B SJ02802 03/04/99	WELL M47B SJ06487 06/02/99	WELL M47B SJ10093 09/07/99	WELL M47B SJ10094 09/07/99	WELL M47B SJ13858 12/07/99	WELL M47B SJ13859 12/07/99
FIELD PARAMETERS								
DEPTH TO WATER	FT	61.37	54.53	47.43	48.81			
DEPTH TO BOTTOM	FT	129.6	129.5	129.5	129.6			
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1			
PERCENT OXYGEN IN GAS	%O2	20	20	15	18			
FIELD WATER TEMPERATURE	DEG C	18.79	19.06	21.37	20.83			
FIELD PH	PH	7.42	8.04	8.45	8.59			
FIELD CONDUCTIVITY	UMHOS/CM	5357	5336	4775	5481			
FIELD DISSOLVED O2	MG/L	0.4	0.36	0.21	0.3			
FIELD DISSOLVED CO2	MG/L	33	8	3	2			
GENERAL								
PH	PH	8.30	8.29	8.27	8.31			8.30
CONDUCTIVITY	UMHOS/CM	5310	5390	5460	5480			5400
TOTAL DISSOLVED SOLIDS	MG/L	3694	3788	3758	3730			3663
TOTAL HARDNESS	MG/L CaCO3	89.6	87.6	83	83.4			77.5
TOTAL CYANIDE	MG/L CN	<0.005	<0.005	<0.005	<0.005			<0.005
BORON	MG/L B	3.82	3.72	4.13	3.59			3.88
ANIONS								
NITRATE NITROGEN	MG/L N	0.09	0.05	0.05	0.05			0.05
SULFATE	MG/L SO4	1790	1820	1840	1830			1890
CHLORIDE	MG/L CL	315	319	312	314			323
TOTAL ALKALINITY	MG/L CaCO3	490	491	493	492			501
BICARBONATE ALKALINITY	MG/L CaCO3	482	457	451	488			491
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	< 0.1			< 0.1
FLUORIDE	MG/L F	1.82	1.91	1.76	1.84			1.84
CATIONS								
CALCIUM-HARDNESS	MG/L CaCO3	41.9	41.7	38.2	38.5			35.5
MAGNESIUM-HARDNESS	MG/L CaCO3	47.7	44.5	46.1	44.9			42.0
SODIUM	MG/L NA	1290	1210	1260	1270			1260
POTASSIUM	MG/L K	6.6	6.4	6.2	6.4			5.4
IRON	MG/L FE	0.50	< 0.05	0.08	0.06			0.10
MANGANESE	MG/L MN	0.03	0.03	0.03	0.03			0.03
ORGANIC MATTER								
AMMONIA NITROGEN	MG/L N	3.2	3.3	3.2	3.3			3.2

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B	WELL M47B	WELL M47B	WELL M47B	WELL M47B	WELL M47B	WELL M47B	WELL M47B
03/04/99		03/04/99	06/02/99	09/07/99	09/07/99	12/07/99	12/07/99	12/07/99	12/07/99
SJ02801		SJ02802	SJ06487	SJ10093	SJ10094	SJ13858	SJ13859		
M47B		M47B	M47B	M47B	M47B	M47B	M47B		
<	<	<	<	<	<	<	<	<	<
2	2	2	2	3	2	3	2	2	2
2	2	2	2	2	2	2	2	2	2
22	22	22	21 A	25	29	26 A	30	30	30
18	22	22	22	23	21	18	28	28	28
6.54	6.51	6.60	6.10	6.07	6.50	6.62	6.62	6.62	6.62
MG/L C	MG/L C	MG/L C	MG/L C	MG/L C	MG/L C	MG/L C	MG/L C	MG/L C	MG/L C
MG/L EXTRAC	MG/L EXTRAC	MG/L EXTRAC	MG/L EXTRAC	MG/L EXTRAC	MG/L EXTRAC	MG/L EXTRAC	MG/L EXTRAC	MG/L EXTRAC	MG/L EXTRAC
< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
4.5 D	7.2 F	8.3 F	12 D	8.0 F	11 F	11 F	11 F	11 F	11 F

ORGANIC MATTER

TOTAL BOD	MG/L O	<	<	<	<	<	<	<	<
SOLUBLE BOD	MG/L O	<	<	<	<	<	<	<	<
TOTAL COD	MG/L O	22	22	22	22	22	22	22	22
SOLUBLE COD	MG/L O	18	22	22	22	22	22	22	22
TOTAL ORGANIC CARBON	MG/L C	6.54	6.51	6.60	6.10	6.07	6.50	6.62	6.62
OIL & GREASE	MG/L C	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TOTAL ORGANIC HALOGEN (TOX)	UG/L	4.5 D	7.2 F	8.3 F	12 D	8.0 F	11 F	11 F	11 F

METALS

ARSENIC	MG/L AS	0.082	0.080	0.112	0.098	0.099	0.069	0.065	0.065
BARIUM	MG/L BA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CADMIUM	MG/L CD	< 0.003	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
TOTAL CHROMIUM	MG/L CR	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L CO	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
LEAD	MG/L PB	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MERCURY	MG/L HG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
NICKEL	MG/L NI	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
SELENIUM	MG/L SE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SILVER	MG/L AG	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L ZN	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
ANTIMONY	MG/L SB	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
BERYLLIUM	MG/L BE	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
THALLIUM	MG/L TL	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
TIN	MG/L SN	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VANADIUM	MG/L V	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-T	UG/L	<	<	<	<	<	<	<	<
DINoseb	UG/L	<	<	<	<	<	<	<	<
THIONAZIN	UG/L	<	<	<	<	<	<	<	<
DIMETHOATE	UG/L	<	<	<	<	<	<	<	<
DISULFOTON	UG/L	<	<	<	<	<	<	<	<
METHYL PARATHION	UG/L	<	<	<	<	<	<	<	<
ETHYL PARATHION	UG/L	<	<	<	<	<	<	<	<
PHORATE	UG/L	<	<	<	<	<	<	<	<
PP'-DDE	UG/L	<	<	<	<	<	<	<	<
PP'-DDD	UG/L	<	<	<	<	<	<	<	<
PP'-DDT	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ02801 03/04/99	WELL M47B SJ02802 03/04/99	WELL M47B SJ06487 06/02/99	WELL M47B SJ10093 09/07/99	WELL M47B SJ10094 09/07/99	WELL M47B SJ13858 12/07/99	WELL M47B SJ13859 12/07/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP (SILVEX)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS								
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ02801 03/04/99	WELL M47B SJ02802 03/04/99	WELL M47B SJ06487 06/02/99	WELL M47B SJ10093 09/07/99	WELL M47B SJ10094 09/07/99	WELL M47B SJ13858 12/07/99	WELL M47B SJ13859 12/07/99
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
BROMDICHLOROMETHANE	UG/L	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE
F-AVERAGE

B-DUPLICATE SPIKE

C-CALCULATED VALUE
H-CHECK NOTES TO USER

D-INTERFERENCE

E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ02801 03/04/99	WELL M47B SJ02802 03/04/99	WELL M47B SJ06487 06/02/99	WELL M47B SJ10093 09/07/99	WELL M47B SJ10094 09/07/99	WELL M47B SJ13858 12/07/99	WELL M47B SJ13859 12/07/99
VOLATILE ORGANIC COMPOUNDS								
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE								
ACETOPHENONE	UG/L	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ02801 03/04/99	WELL M47B SJ02802 03/04/99	WELL M47B SJ06487 06/02/99	WELL M47B SJ10093 09/07/99	WELL M47B SJ10094 09/07/99	WELL M47B SJ13858 12/07/99	WELL M47B SJ13859 12/07/99
ACID-BASE NEUTRAL EXTRACTABLE								
M-NITROANILINE	UG/L	<	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<	<	<
SAFROLE	UG/L	<	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<	<
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<	<
O,O-O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	<	<	<
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<	<
BENZIDINE	UG/L	<	<	<	<	<	<	<
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	<	<	<
BENZO (A) PYRENE	UG/L	<	<	<	<	<	<	<
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	<	<	<
BENZO (G, H, I, J) PERYLENE	UG/L	<	<	<	<	<	<	<
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	<	<	<
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	<	<	<
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	<	<	<
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	<	<	<
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<	<
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M47B SJ02801 03/04/99	WELL M47B SJ02802 03/04/99	WELL M47B SJ06487 05/02/99	WELL M47B SJ10093 09/07/99	WELL M47B SJ10094 09/07/99	WELL M47B SJ13858 12/07/99	WELL M47B SJ13859 12/07/99
ACID-BASE NEUTRAL EXTRACTABLE								
DI-N-BUTYL PHTHALATE	UG/L							
2,4-DINITROTOLUENE	UG/L							
2,6-DINITROTOLUENE	UG/L							
DI-N-OCTYL PHTHALATE	UG/L							
FLUORANTHENE	UG/L							
HEXACHLOROBENZENE	UG/L							
HEXACHLOROBUTADIENE	UG/L							
HEXACHLOROCYCLOPENTADIENE	UG/L							
HEXACHLOROETHANE	UG/L							
INDENO(1,2,3-C,D) PYRENE	UG/L							
ISOPHORONE	UG/L							
NAPHTHALENE	UG/L							
NITROBENZENE	UG/L							
N-NITROSODIMETHYLAMINE	UG/L							
N-NITROSODI-N-PROPYLAMINE	UG/L							
PHENANTHRENE	UG/L							
PYRENE	UG/L							
2-CHLOROPHENOL	UG/L							
1,2,4-TRICHLOROBENZENE	UG/L							
2,4-DICHLOROPHENOL	UG/L							
2,4-DIMETHYLPHENOL	UG/L							
2,4-DINITROPHENOL	UG/L							
2-METHYL-4,6-DINITROPHENOL	UG/L							
2-NITROPHENOL	UG/L							
4-NITROPHENOL	UG/L							
4-CHLORO-3-METHYLPHENOL	UG/L							
PENTACHLOROPHENOL	UG/L							
PHENOL	UG/L							
2,4,6-TRICHLOROPHENOL	UG/L							
N-NITROSODIPHENYLAMINE	UG/L							
O-CRESOL	UG/L							
M+P CRESOL	UG/L							

FOOTNOTES : A-DUP & SPIKE B-DUPLICATE SPIKE C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-AVERAGE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M47B	WEFI M47B	WEFI M47B	WEFI M47B	WEFI M47B	WEFI M47B	WEFI M47B
IRON	MG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
MANGANESE	MG/L	0.03	0.03	0.03	0.03	0.03	0.03	0.03
METALS								
ARSENIC	MG/L	.0087	.0078	.0110	.0092	.0093	.0069	.0069
BARIIUM	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CADMIUM	MG/L	< 0.003	< 0.003	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LEAD	MG/L	< 0.02	< 0.02	< 0.02	< 0.010	< 0.010	< 0.01	< 0.01
MERCURY	MG/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
NICKEL	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SELENIUM	MG/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
SILVER	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ANTIMONY	MG/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
BERYLLIUM	MG/L	< 0.013	< 0.013	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
THALLIUM	MG/L	.0013	.0014	< 0.001	0.001	0.001	0.003	0.002
TIN	MG/L	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
VANADIUM	MG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M51A SJ13860 12/07/99
GENERAL		
TOTAL CYANIDE	MG/L CN	< 0.005
BORON	MG/L B	1.16
ANIONS		
TOTAL SULFIDE	MG/L S	< 0.1
FLUORIDE	MG/L F	0.60
CATIONS		
CALCIUM-HARDNESS	MG/L CaCO3	422
MAGNESIUM-HARDNESS	MG/L CaCO3	453
SODIUM	MG/L NA	513
POTASSIUM	MG/L K	20.9
IRON	MG/L FE	4.24
MANGANESE	MG/L MN	0.57
ORGANIC MATTER		
AMMONIA NITROGEN	MG/L N	< 0.1
TOTAL ORGANIC CARBON	MG/L C	5.94
TOTAL ORGANIC HALOGEN (TOX)	UG/L	150 A
METALS		
BARIUM	MG/L BA	0.02
CADMIUM	MG/L CD	< 0.002
TOTAL CHROMIUM	MG/L CR	< 0.01
COBALT	MG/L CO	< 0.01
COPPER	MG/L CU	< 0.01
LEAD	MG/L PB	< 0.01
MERCURY	MG/L HG	.0001
NICKEL	MG/L NI	< 0.02
SILVER	MG/L AG	< 0.01
ZINC	MG/L ZN	< 0.04
BERYLLIUM	MG/L BE	< .0025
THALLIUM	MG/L TL	< 0.001
TIN	MG/L SN	< 0.06
VANADIUM	MG/L V	< 0.05

FOOTNOTES : A-AVERAGE F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
 PUENTE HILLS LANDFILL

WELL
 M51A
 SJ13860
 12/07/99

CONSTITUENT/WELL NO.	UNITS	G-10% RULE EXCEEDED	C-CALCULATED VALUE H-CHECK NOTES TO USER	D-INTERFERENCE	E-AVERAGE OF DUPS
VOLATILE ORGANIC COMPOUNDS					
BROMOCHLOROMETHANE	UG/L	<	1		
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.01		
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1		
METHYL IODIDE	UG/L	<	1		
METHYLENE BROMIDE	UG/L	<	1		
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1		
1,1,2,3-TRICHLOROPROPANE	UG/L	<	1		
METHYLENE CHLORIDE	UG/L	<	1		
CHLOROFORM	UG/L	<	1		
1,1,1-TRICHLOROETHANE	UG/L	<	1		
CARBON TETRACHLORIDE	UG/L	<	0.3		
1,1-DICHLOROETHENE	UG/L	<	1		
TRICHLOROETHYLENE	UG/L	<	1		
TETRACHLOROETHYLENE	UG/L	<	1		
BROMODICHLOROMETHANE	UG/L	<	1		
DIBROMOCHLOROMETHANE	UG/L	<	1		
BROMOFORM	UG/L	<	1		
CHLOROBENZENE	UG/L	<	1		
VINYL CHLORIDE	UG/L	<	0.3		
O-DICHLOROBENZENE	UG/L	<	1		
P-DICHLOROBENZENE	UG/L	<	1		
1,1-DICHLOROETHANE	UG/L	<	1		
1,1,2-TRICHLOROETHANE	UG/L	<	0.3		
1,2-DICHLOROETHANE	UG/L	<	0.5		
BENZENE	UG/L	<	1		
TOLUENE	UG/L	<	1		
ETHYL BENZENE	UG/L	<	10		
VINYL ACETATE	UG/L	<	1		
O-XYLENE	UG/L	<	1		
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	1		
BROMOMETHANE	UG/L	<	1		
CHLOROETHANE	UG/L	<	1		
CHLOROMETHANE	UG/L	<	1		
1,2-DICHLOROPROPANE	UG/L	<	0.5		
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5		
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5		
1,1,2,2-TETRACHLOROETHANE	UG/L	<	10		
ACRYLONITRILE	UG/L	<	1		
FREON 11 (CCl3F)	UG/L	<	0.01		
1,2-DIBROMOETHANE	UG/L	<	10		
ACETONE	UG/L	<	10		

FOOTNOTES : A-AVERAGE F-DUP & SPIKE

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
 PUENTE HILLS LANDFILL

 WELL
 M51A
 SJ13860
 12/07/99

CONSTITUENT/WELL NO.	UNITS	
VOLATILE ORGANIC COMPOUNDS		
CIS-1,2-DICHLOROETHYLENE	UG/L	<
2-BUTANONE	UG/L	<
4-METHYL-2-PENTANONE	UG/L	<
STYRENE	UG/L	<
M+P-XYLENE	UG/L	<
CARBON DISULFIDE	UG/L CS2	<
2-HEXANONE	UG/L C6H12O	<

FOOTNOTES : A-AVERAGE F-DUP & SPIKE G-10% RULE EXCEEDED H-CHECKED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUEBLO HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL	WELL
FIELD PARAMETERS			
DEPTH TO WATER	FT	M52B	M52B
DEPTH TO BOTTOM	FT	SJ14202	SJ14203
PERCENT METHANE IN GAS	%CH4	12/16/99	12/16/99
PERCENT OXYGEN IN GAS	%O2		
FIELD WATER TEMPERATURE	DEG C		
FIELD PH	PH		
FIELD CONDUCTIVITY	UMHOS/CM		
FIELD DISSOLVED O2	MG/L		
FIELD DISSOLVED CO2	MG/L		
GENERAL			
PH	PH	8.12	8.13
CONDUCTIVITY	UMHOS/CM	2220	2210
TOTAL DISSOLVED SOLIDS	MG/L	1312	1312
TOTAL HARDNESS	MG/L CaCO3	54.2	54.2 A
TOTAL CYANIDE	MG/L CN	<0.005	<0.005
BORON	MG/L B	3.21	3.24
ANIONS			
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05
SULFATE	MG/L SO4	108	107
CHLORIDE	MG/L CL	190	190
TOTAL ALKALINITY	MG/L CaCO3	792	792
BICARBONATE ALKALINITY	MG/L CaCO3	792	792
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1
FLUORIDE	MG/L F	2.43	2.50
CATIONS			
CALCIUM-HARDNESS	MG/L CaCO3	34.0	34.0 E
MAGNESIUM-HARDNESS	MG/L CaCO3	20.2	20.2 E
SODIUM	MG/L NA	502	499 E
POTASSIUM	MG/L K	6.3	6.6 E
IRON	MG/L FE	0.36	0.37 E
MANGANESE	MG/L MN	0.03	0.03 E
ORGANIC MATTER			
AMMONIA NITROGEN	MG/L N	0.6	0.5

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M52B	WELL M52B
ORGANIC MATTER			
TOTAL BOD	MG/L	7 B	6
SOLUBLE BOD	MG/L	5	4
TOTAL COD	MG/L	24	28 B
SOLUBLE COD	MG/L	30 B	26
TOTAL ORGANIC CARBON	MG/L	7.00	7.20
OIL & GREASE	MG/L	5	4
TOTAL ORGANIC HALOGEN (TOX)	UG/L	9.7 C	11 D
METALS			
ARSENIC	MG/L	.0124	.0120
BARIUM	MG/L	< 0.01	< 0.01
CADMIUM	MG/L	< 0.002	< 0.002
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01
COBALT	MG/L	< 0.01	< 0.01
COPPER	MG/L	< 0.01	< 0.01
LEAD	MG/L	< 0.01	< 0.01
MERCURY	MG/L	< 0.001	< 0.001
NICKEL	MG/L	< 0.02	< 0.02
SELENIUM	MG/L	< 0.010	< 0.010
SILVER	MG/L	< 0.01	< 0.01
ZINC	MG/L	0.05	0.05
ANTIMONY	MG/L	.0011	.0011
BERYLLIUM	MG/L	< 0.0025	< 0.0025
THALLIUM	MG/L	< 0.001	< 0.001
TIN	MG/L	< 0.06	< 0.06
VANADIUM	MG/L	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS			
2,4,5-T	UG/L	< 0.05	< 0.05
DINOSB	UG/L	< 0.1	< 0.1
THIONAZIN	UG/L	< 1	< 1
DIMETHOATE	UG/L	< 1	< 1
DISULFOTON	UG/L	< 1	< 1
METHYL PARATHION	UG/L	< 1	< 1
ETHYL PARATHION	UG/L	< 1	< 1
PHORATE	UG/L	< 1	< 1
PP', -DDE	UG/L	< 0.01	< 0.01
PP', -DDD	UG/L	< 0.01	< 0.01
PP', -DDT	UG/L	< 0.01	< 0.01

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M52B	WELL M52B
SJ14202	12/16/99	SJ14203	12/16/99

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

ALPHA-BHC	UG/L	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01
METHOXYCHLOR	UG/L	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1
AROCLOR 1242	UG/L	< 0.05	< 0.05
AROCLOR 1254	UG/L	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.3	< 0.3
1-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 10	< 10
ISOBUTYL ALCOHOL	UG/L	< 10	< 10
METHACRYLONITRILE	UG/L	< 1	< 1
METHYL IODIDE	UG/L	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS

PUENTE HILLS LANDFILL

WELL M52B SJ14203
 WELL M52B SJ14203
 12/16/99 12/16/99

CONSTITUENT/WELL NO.	UNITS	WELL M52B 12/16/99	WELL M52B SJ14203 12/16/99	WELL M52B SJ14203 12/16/99
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<
METHYL METHACRYLATE	UG/L	10	5	10
ETHYL METHACRYLATE	UG/L	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<
CHLOROFORM	UG/L	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<
CARBON TETRACHLORIDE	UG/L	0.3	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<
BROMOFORM	UG/L	<	<	<
CHLOROETHENE	UG/L	<	<	<
VINYL CHLORIDE	UG/L	0.3	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	0.3	0.3	0.3
1,2-DICHLOROETHANE	UG/L	0.5	0.5	0.5
BENZENE	UG/L	<	<	<
TOLUENE	UG/L	<	<	<
ETHYL BENZENE	UG/L	<	<	<
VINYL ACETATE	UG/L	10	10	10
O-XYLENE	UG/L	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<
BROMOMETHANE	UG/L	<	<	<
CHLOROETHANE	UG/L	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<
CHLOROMETHANE	UG/L	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	0.5	0.5
ACROLEIN	UG/L	10	10	10
ACRYLONITRILE	UG/L	10	10	10
ACETONITRILE	UG/L	20	20	20
FREON 12 (CCL2F2)	UG/L	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M52B SJ14202 12/16/99	WELL M52B SJ14203 12/16/99
VOLATILE ORGANIC COMPOUNDS			
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	1	1
2-BUTANONE	UG/L	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10
STYRENE	UG/L	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1
CARBON DISULFIDE	UG/L CS2	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE			
ACETOPHENONE	UG/L	< 1	< 1
2-ACETYLAMINOFLOURENE	UG/L	< 1	< 1
4-AMINOBIHENYL	UG/L	< 1	< 1
BENZYL ALCOHOL	UG/L	< 1	< 1
P-CHLORANILINE	UG/L	< 1	< 1
CHLOROBENZILATE	UG/L	< 1	< 1
DIALLATE	UG/L	< 1	< 1
DIBENZOFURAN	UG/L	< 1	< 1
2,6-DICHLOROPHENOL	UG/L	< 1	< 1
P(DIMETHYLAMINO)AZOBENZEN	UG/L	< 1	< 1
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	< 10	< 10
3,3'-DIMETHYLBENZIDINE	UG/L	< 1	< 1
M-DINITROBENZENE	UG/L	< 1	< 1
DIPHENYLAMINE	UG/L	< 1	< 1
ETHYL METHANESULFONATE	UG/L	< 1	< 1
PAMPHUR	UG/L	< 1	< 1
HEXACHLOROPROPENE	UG/L	< 5	< 5
ISODRIN	UG/L	< 1	< 1
ISOSAFROLE	UG/L	< 1	< 1
KEPONE	UG/L	< 10	< 10
METHAPYRIENE	UG/L	< 20	< 20
3-METHYLCHOLANTHRENE	UG/L	< 1	< 1
METHYL METHANESULFONATE	UG/L	< 1	< 1
2-METHYLNAPHTHALENE	UG/L	< 1	< 1
1,4-NAPHTHOQUINONE	UG/L	< 1	< 1
1-NAPHTHYLAMINE	UG/L	< 1	< 1
2-NAPHTHYLAMINE	UG/L	< 1	< 1
O-NITROANILINE	UG/L	< 1	< 1

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M52B SJ14202 12/16/99	WELL M52B SJ14203 12/16/99
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ACID-BASE NEUTRAL EXTRACTABLE

M-NITROANILINE	UG/L	<	1
P-NITROANILINE	UG/L	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	1
N-NITROSODIETHYLAMINE	UG/L	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	1
N-NITROSOPIPERIDINE	UG/L	<	1
N-NITROSOPIRROLIDINE	UG/L	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	1
PENTACHLOROBENZENE	UG/L	<	1
PENTACHLORONITROBENZENE	UG/L	<	1
PHENACETIN	UG/L	20	20
P-PHENYLENEDIAMINE	UG/L	<	1
PRONAMIDE	UG/L	<	1
SAFROLE	UG/L	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	1
O-TOLUIDINE	UG/L	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	1
SYM-TRINITROBENZENE	UG/L	5	5
ACENAPHTHENE	UG/L	<	1
ACENAPHTHYLENE	UG/L	<	1
ANTHRACENE	UG/L	<	1
BENZIDINE	UG/L	<	20
BENZO (A) ANTHRACENE	UG/L	<	0.2
BENZO (A) PYRENE	UG/L	<	1
BENZO (B) FLUORANTHENE	UG/L	<	1
BENZO (G H I.) PERYLENE	UG/L	<	1
BENZO (K) FLUORANTHENE	UG/L	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	1
BIS (2-CL-CHLOROETHYL) ETHER	UG/L	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	1
DIETHYLHEXYL PHTHALATE	UG/L	4	14
4-BROMOPHENYL PHENYLETHER	UG/L	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	1
2-CHLORONAPHTHALENE	UG/L	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	1
CHRYSENE	UG/L	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	1
DIETHYL PHTHALATE	UG/L	<	1
DIMETHYL PHTHALATE	UG/L	<	1

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4

WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL M52B SJ14202 12/16/99	WELL M52B SJ14203 12/16/99
ACID-BASE NEUTRAL EXTRACTABLE			
DI-N-BUTYL PHTHALATE	UG/L	<	1
2,4-DINITROTOLUENE	UG/L	<	1
2,6-DINITROTOLUENE	UG/L	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	1
FLUORENE	UG/L	<	1
HEXACHLOROBENZENE	UG/L	<	1
HEXACHLOROBUTADIENE	UG/L	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	5
HEXACHLOROETHANE	UG/L	<	1
INDENO(1,2,3-C,D)PYRENE	UG/L	<	1
ISOPHORONE	UG/L	<	1
NAPHTHALENE	UG/L	<	1
NITROBENZENE	UG/L	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	1
PHENANTHRENE	UG/L	<	1
PYRENE	UG/L	<	1
2-CHLOROPHENOL	UG/L	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	1
2,4-DICHLOROPHENOL	UG/L	<	1
2,4-DIMETHYLPHENOL	UG/L	<	1
2,4-DINITROPHENOL	UG/L	<	6
2-METHYL-4,6DINITROPHENOL	UG/L	<	1
2-NITROPHENOL	UG/L	<	1
4-NITROPHENOL	UG/L	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	1
PENTACHLOROPHENOL	UG/L	<	1
PHENOL	UG/L	<	1
2,4,5-TRICHLOROPHENOL	UG/L	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	1
O-CRESOL	UG/L	<	1
M+P CRESOL	UG/L	<	1

FOOTNOTES : A-CALCULATED VALUE B-DUP & SPIKE C-AVERAGE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.4
 WATER QUALITY DATA - BARRIER FOUR AND BARRIER FIVE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI M52B SJJ4200 12/16/99	WEFI M52B SJJ4201 12/16/99
CATIONS			
IRON	MG/L FE	0.31	0.34
MANGANESE	MG/L MN	0.04	0.04
METALS			
ARSENIC	MG/L AS	.0122	.0124
BARIUM	MG/L BA	0.01	0.01
CADMIUM	MG/L CD	<0.002	<0.002
TOTAL CHROMIUM	MG/L CR	<0.01	<0.01
COBALT	MG/L CO	<0.01	<0.01
COPPER	MG/L CU	<0.01	<0.01
LEAD	MG/L PB	<0.01	<0.01
MERCURY	MG/L HG	<.0001 A	<.0001
NICKEL	MG/L NI	<0.02	<0.02
SELENIUM	MG/L SE	<0.010	<0.010
SILVER	MG/L AG	<0.01	<0.01
ZINC	MG/L ZN	<0.01	<0.01
ANTIMONY	MG/L SB	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0025	<.0025
THALLIUM	MG/L TL	<0.001	<0.001
TIN	MG/L SN	<0.06	<0.06
VANADIUM	MG/L V	<0.05	<0.05

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUFS

TABLE A.5
WATER QUALITY DATA
OFFSITE MONITORING WELLS

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1
FIELD PARAMETERS						
DEPTH TO WATER	FT	15.98	15.98	16.17	16.4	16.4
DEPTH TO BOTTOM	FT	33.9	33.97	33.95	34.01	34.01
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	19	17	20	20	20
FIELD WATER TEMPERATURE	DEG C	19.1	21.8	20.86	18.85	18.85
FIELD PH	PH	6.77	6.54	6.54	6.32	6.32
FIELD CONDUCTIVITY	UMHOS/CM	2034	1880	2025	2002	2002
FIELD DISSOLVED O2	MG/L	0.51	0.49	0.17	0.55	0.55
FIELD DISSOLVED CO2	MG/L	309	309	389		
GENERAL						
PH	PH	7.09	6.91 C	7.06 C	7.04	6.94
CONDUCTIVITY	UMHOS/CM	1347	1867	1970 D	1950	1290
TOTAL DISSOLVED SOLIDS	MG/L		1228 D	1265	1265	
TOTAL HARDNESS	MG/L		837 F	887 F	876 F	
TOTAL CYANIDE	MG/L CN		<0.005	<0.005	<0.005	
BORON	MG/L B		0.55	0.30	0.31	
ANIONS						
NITRATE	MG/L N	5.47 A	1.48 E	1.14	1.09	0.55 A
NITROGEN	MG/L SO4	363	204 E	220	221	235 A
SULFATE	MG/L CL	110	93.7 E	114	112 A	126 A
CHLORIDE	MG/L CACO3		610	769	763	
TOTAL ALKALINITY	MG/L CACO3		610	769	763	
BICARBONATE ALKALINITY	MG/L S		0.1	< 0.1 C	< 0.1	
TOTAL SULFIDE	MG/L F		< 0.59	< 0.59	< 0.60	
FLUORIDE	MG/L F					
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3		552	567 E	582	
MAGNESIUM-HARDNESS	MG/L CACO3		285	289 E	294	
SODIUM	MG/L NA		123	126 E	115	
POTASSIUM	MG/L K		3.6	3.7 E	3.6	
IRON	MG/L FE		< 0.05	0.06 E	< 0.05	
MANGANESE	MG/L MN		0.70	0.72 E	0.70	
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N		< 0.1	< 0.1	< 0.1	

FOOTNOTES : A-AVERAGE F-CALCULATED VALUE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE OF DUPS H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI	WELL EMPI
03/05/99		SJ02841	SJ06705	SJ06706	SJ10524	SJ10525	SJ14149
		06/07/99	06/07/99	09/17/99	09/17/99	09/17/99	12/15/99
		2 D	2 D	2	2 D	2	2
		20	20	16	11	10	10
		10 D	10 D	20	10	10 D	10 D
		5.71 E	5.67 E	3.61	3.62	3.62	3.62
		3.0	3.0	3.0	3.0	4.0	4.0
		11 A	10 A	8.5 A	12 A	12 A	12 A
ORGANIC MATTER							
TOTAL BOD	MG/L	0	0	0	0	0	0
SOLUBLE BOD	MG/L	0	0	0	0	0	0
TOTAL COD	MG/L	0	0	0	0	0	0
SOLUBLE COD	MG/L	0	0	0	0	0	0
TOTAL ORGANIC CARBON	MG/L	0	0	0	0	0	0
OIL & GREASE	MG/L	0	0	0	0	0	0
EXTRAC	UG/L	0	0	0	0	0	0
TOTAL ORGANIC HALOGEN (TOX)	UG/L	0	0	0	0	0	0
METALS							
ARSENIC	MG/L	0.018	0.017	0.011	0.011	0.012	0.012
BARIUM	MG/L	0.11	0.12	0.11	0.11	0.11	0.11
CADMIUM	MG/L	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002
TOTAL CHROMIUM	MG/L	<0.01	<0.01	E	E	<0.01	<0.01
COBALT	MG/L	<0.01	<0.01	E	E	<0.01	<0.01
COPPER	MG/L	<0.01	<0.01	E	E	<0.01	<0.01
LEAD	MG/L	<0.01	<0.01	E	E	<0.01	<0.01
MERCURY	MG/L	0.002	0.001	E	E	<0.010	<0.010
NICKEL	MG/L	0.02	0.02	E	E	<0.001	<0.001
SELENIUM	MG/L	0.011	0.011	E	E	<0.02	<0.02
SILVER	MG/L	0.01	0.01	E	E	0.019	0.017
ZINC	MG/L	0.05	0.05	E	E	0.05	0.05
ANTIMONY	MG/L	0.005	0.005	E	E	0.005	0.005
BERYLLIUM	MG/L	0.025	0.025	E	E	0.025	0.025
THALLIUM	MG/L	0.001	0.001	E	E	0.001	0.001
TIN	MG/L	0.06	0.06	E	E	0.06	0.06
VANADIUM	MG/L	0.05	0.05	E	E	0.05	0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
DINOSB	UG/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
THIONAZIN	UG/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
DIMETHOATE	UG/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
DISULFOTON	UG/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
METHYL PARATHION	UG/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
ETHYL PARATHION	UG/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
PHORATE	UG/L	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
PP'-DDE	UG/L	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
PP'-DDD	UG/L	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
PP'-DDT	UG/L	<0.01	0.01	<0.01	<0.01	<0.01	<0.01

FOOTNOTES : A-AVERAGE F-CALCULATED VALUE B-AMENDED TEST RESULT C-AVERAGE OF DUPS D-DUP & SPIKE E-DUPLICATE SPIKE
G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE 4.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMPI SJ02841 03/05/99	WELL EMPI SJ06705 06/07/99	WELL EMPI SJ06706 06/07/99	WELL EMPI SJ10524 09/17/99	WELL EMPI SJ10525 09/17/99	WELL EMPI SJ14149 12/15/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D(ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1242	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
AROCFLOR 1254	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
AROCFLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
AROCFLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CHLOROPRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,3-DICHLOROPROPANE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
2,2-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10

FOOTNOTES : A-AVERAGE F-CALCULATED VALUE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE OF DUPS H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1
VOLATILE ORGANIC COMPOUNDS										
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<
ETHYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE F-CALCULATED VALUE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE OF DUPS H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1 SJ02841 03/05/99	WELL EMP1 SJ06705 06/07/99	WELL EMP1 SJ06706 09/17/99	WELL EMP1 SJ10524 09/17/99	WELL EMP1 SJ10525 09/17/99	WELL EMP1 SJ14149 12/15/99
VOLATILE ORGANIC COMPOUNDS							
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE							
ACETOPHENONE	UG/L	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<
CHLOROENZILATE	UG/L	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE F-CALCULATED VALUE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE OF DUPS H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

WELL EMP1 SJ02841 03/05/99
 WELL EMP1 SJ06705 06/07/99
 WELL EMP1 SJ06706 06/07/99
 WELL EMP1 SJ10524 09/17/99
 WELL EMP1 SJ10525 09/17/99
 WELL EMP1 SJ14149 12/15/99

CONSTITUENT/WELL NO. UNITS

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT	WELL NO.	UNITS	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1	WELL EMP1
M-NITROANILINE		UG/L						
P-NITROANILINE		UG/L						
N-NITROSODI-N-BUTYLAMINE		UG/L						
N-NITROSODIETHYLAMINE		UG/L						
N-NITROSOMETHYLETHYLAMINE		UG/L						
N-NITROSOPIPERIDINE		UG/L						
N-NITROSOPYRROLIDINE		UG/L						
5-NITRO-O-TOLUIDINE		UG/L						
PENTACHLOROBENZENE		UG/L						
PENTACHLORONITROBENZENE		UG/L						
PHENACETIN		UG/L						
P-PHENYLENEDIAMINE		UG/L						
PRONAMIDE		UG/L						
SAFROLE		UG/L						
1,2,4,5-TETRACHLOROBENZENE		UG/L						
2,3,4,6-TETRACHLOROPHENOL		UG/L						
O-TOLUIDINE		UG/L						
O,O,O-TRIETHYLPHOSPHOROTH		UG/L						
SYN-TRINITROBENZENE		UG/L						
ACENAPHTHENE		UG/L						
ACENAPHTHYLENE		UG/L						
ANTHRACENE		UG/L						
BENZIDINE		UG/L						
BENZO (A) ANTHRACENE		UG/L						
BENZO (A) PYRENE		UG/L						
BENZO (B) FLUORANTHENE		UG/L						
BENZO (G.H.I.) PERYLENE		UG/L						
BENZO (K) FLUORANTHENE		UG/L						
BIS (2-CL-ETHOXY) METHANE		UG/L						
BIS (2-CHLOROETHYL) ETHER		UG/L						
BIS (2-CL-ISOPROPYL) ETHER		UG/L						
DIETHYLHEXYL PHTHALATE		UG/L						
4-BROMOPHENYL PHENYLETHER		UG/L						
BUTYLBENZYL PHTHALATE		UG/L						
2-CHLORONAPHTHALENE		UG/L						
4-CHLOROPHENYLPHENYLETHER		UG/L						
CHRYSENE		UG/L						
DIBENZO (A, H) ANTHRACENE		UG/L						
3,3'-DICHLOROBENZIDINE		UG/L						
DIETHYL PHTHALATE		UG/L						
DIMETHYL PHTHALATE		UG/L						

FOOTNOTES : A-AVERAGE F-CALCULATED VALUE

B-AMENDED TEST RESULT C-AVERAGE OF DUPS
 G-10% RULE EXCEEDED H-CHECK NOTES TO USER

D-DUP & SPIKE

E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP1 SJ02841 03/05/99	WELL EMP1 SJ06705 06/07/99	WELL EMP1 SJ06706 06/07/99	WELL EMP1 SJ10524 09/17/99	WELL EMP1 SJ10525 09/17/99	WELL EMP1 SJ14149 12/15/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<	<
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<	<
HEXACHLOROETHANE	UG/L	<	<	<	<	<	<
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<	<
NAPHTHALENE	UG/L	<	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE F-CALCULATED VALUE B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE OF DUPS H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP1 SJ06703 06/07/99	WEFI EMP1 SJ06704 06/07/99	WEFI EMP1 SJ10522 09/17/99	WEFI EMP1 SJ10523 09/17/99
IRON	MG/L	< 0.05	< 0.05	< 0.05	< 0.05
MANGANESE	MG/L	< 0.70	< 0.69	< 0.72	< 0.72

CATIONS	MG/L	FE	AS
ARSENIC	MG/L	.0020	.0011
BARIUM	MG/L	0.11	0.11
CADMIUM	MG/L	<0.003	<0.002
TOTAL CHROMIUM	MG/L	<0.01	<0.01
COBALT	MG/L	<0.01	<0.01
COPPER	MG/L	<0.01	<0.01
LEAD	MG/L	<0.01	<0.01
MERCURY	MG/L	<0.001	<0.001
NICKEL	MG/L	<0.02	<0.02
SELENIUM	MG/L	.0011	.0038
SILVER	MG/L	<0.01	<0.01
ZINC	MG/L	0.05	0.03
ANTIMONY	MG/L	<0.005	<0.005
BERYLLIUM	MG/L	<0.025	<0.025
THALLIUM	MG/L	<0.001	<0.001
TIN	MG/L	<0.06	<0.06
VANADIUM	MG/L	<0.05	<0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ06788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
FIELD PARAMETERS					
DEPTH TO WATER	FT	30.93	31.37	32.21	32.64
DEPTH TO BOTTOM	FT	229.8	229.7	229.6	229.6
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	18	19	20
FIELD WATER TEMPERATURE	DEG C	19.22	24.13	22.04	22.13
FIELD PH	PH	6.95	6.77	7.17	7.13
FIELD CONDUCTIVITY	UMHOS/CM	1142	1137	1112	1168
FIELD DISSOLVED O2	MG/L	0.32	0.59	0.16	0.39
FIELD DISSOLVED CO2	MG/L		69	28	
GENERAL					
PH	PH	7.41	7.23	7.43	7.38 G
CONDUCTIVITY	UMHOS/CM	1145	1145	1170 D	
TOTAL DISSOLVED SOLIDS	MG/L	669	688	709	701
TOTAL HARDNESS	MG/L CaCO3		219 B	235 B	
TOTAL CYANIDE	MG/L CN		<0.005	<0.005	
BORON	MG/L B		0.26	0.23	
ANIONS					
NITRATE NITROGEN	MG/L N				
SULFATE	MG/L SO4	< 0.05	< 0.05	< 0.05	< 0.05 E
CHLORIDE	MG/L CL	186	178	178	189 E
TOTAL ALKALINITY	MG/L CaCO3	145	126	115	109 E
BICARBONATE ALKALINITY	MG/L CaCO3		233	237	
TOTAL SULFIDE	MG/L S		233	237	
FLUORIDE	MG/L F		< 0.1	< 0.1	
CATIONS					
CALCIUM-HARDNESS	MG/L CaCO3		127	138	
MAGNESIUM-HARDNESS	MG/L CaCO3		91.8	96.7 E	
SODIUM	MG/L NA		164	158 E	
POTASSIUM	MG/L K		4.2	4.7 E	
IRON	MG/L FE		0.15	0.11 E	
MANGANESE	MG/L MN		0.17	0.18 E	
ORGANIC MATTER					
AMMONIA NITROGEN	MG/L N		0.4	0.4	

FOOTNOTES : A-AMENDED TEST RESULT B-CALCULATED VALUE C-AVERAGE H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ06788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
ORGANIC MATTER					
TOTAL BOD	MG/L O	<	2	<	2
SOLUBLE BOD	MG/L O	<	10	<	10
TOTAL COD	MG/L O	<	10	<	10 D
SOLUBLE COD	MG/L C	<	2.90	<	2.64
TOTAL ORGANIC CARBON	MG/L C	<	3.0	<	4.0 E
OIL & GREASE	MG/L EXTRAC	<	11 C	<	21 F
TOTAL ORGANIC HALOGEN (TOX)	UG/L				
METALS					
ARSENIC	MG/L AS	.0016	.0015	.0015	.0015
BARIUM	MG/L BA	0.01	0.01	0.01	0.01 E
CADMIUM	MG/L CD	<0.003	<0.002	<0.002	<0.002 E
TOTAL CHROMIUM	MG/L CR	<0.01	<0.01	<0.01	<0.01 E
COBALT	MG/L CO	<0.01	<0.01	<0.01	<0.01 E
COPPER	MG/L CU	<0.01	<0.01	<0.01	<0.01 E
LEAD	MG/L PB	<0.01	<0.01	<0.01	<0.01 E
MERCURY	MG/L HG	<0.001	<0.001	<0.001	<0.001 E
NICKEL	MG/L NI	<0.02	<0.02	<0.02	<0.02 E
SELENIUM	MG/L SE	<0.010	<0.010	<0.010	<0.010 E
SILVER	MG/L AG	<0.01	<0.01	<0.01	<0.01 E
ZINC	MG/L ZN	<0.03	<0.03	<0.03	<0.03 E
ANTIMONY	MG/L SB	<.0005	<.0005	<.0005	<.0005 E
BERYLLIUM	MG/L BE	<.0025	<.0025	<.0025	<.0025 E
THALLIUM	MG/L TL	<0.001	<0.001	<0.001	<0.001 E
TIN	MG/L SN	<0.06	<0.06	<0.06	<0.06 E
VANADIUM	MG/L V	<0.05	<0.05	<0.05	<0.05 E
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
2,4,5-T	UG/L	<	0.05	<	0.05
DINoseb	UG/L	<	0.1	<	0.1
THIONAZIN	UG/L	<	1	<	1
DIMETHOATE	UG/L	<	1	<	1
DISULFOTON	UG/L	<	1	<	1
METHYL PARATHION	UG/L	<	1	<	1
ETHYL PARATHION	UG/L	<	1	<	1
PHORATE	UG/L	<	1	<	1
PP'-DDE	UG/L	<	0.01	<	0.01
PP'-DDD	UG/L	<	0.01	<	0.01
PP'-DDT	UG/L	<	0.01	<	0.01

FOOTNOTES : A-AMENDED TEST RESULT B-CALCULATED VALUE C-AVERAGE H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE
 F-10% RULE EXCEEDED G-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ05788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
ALPHA-BHC	UG/L	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<
ALDRIN	UG/L	<	<	<	<
DIELDRIN	UG/L	<	<	<	<
ENDRIN	UG/L	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<
METHOXYCHLOR	UG/L	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<
BETA-BHC	UG/L	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ05788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
ALPHA-BHC	UG/L	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<
ALDRIN	UG/L	<	<	<	<
DIELDRIN	UG/L	<	<	<	<
ENDRIN	UG/L	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<
METHOXYCHLOR	UG/L	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<
BETA-BHC	UG/L	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ05788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
ALLYL CHLORIDE	UG/L	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-CALCULATED VALUE C-AVERAGE D-DUP & SPIKE E-DUPLICATE SPIKE
 F-10% RULE EXCEEDED G-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ06788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
VOLATILE ORGANIC COMPOUNDS					
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1
METHYL METHACRYLATE	UG/L	<	1	10	<
METHYL METHACRYLATE	UG/L	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	1	<	1
CHLOROFORM	UG/L	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1
1,1,1-TRICHLOROLORIDE	UG/L	<	0.3	0.3	0.3
CARBON TETRACHLORIDE	UG/L	<	1	<	1
1,1-DICHLOROETHENE	UG/L	<	1	<	1
1,1-DICHLOROETHYLENE	UG/L	<	1	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1
BROMOFORM	UG/L	<	1	<	1
CHLOROBENZENE	UG/L	<	0.3	0.3	0.3
VINYL CHLORIDE	UG/L	<	1	<	1
O-DICHLOROBENZENE	UG/L	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1
1,1,1,2-TRICHLOROETHANE	UG/L	<	0.3	0.3	0.3
1,1,2-TRICHLOROETHANE	UG/L	<	0.5	0.5	0.5
BENZENE	UG/L	<	1	<	1
TOLUENE	UG/L	<	1	<	1
ETHYL BENZENE	UG/L	<	10 A	<	10
VINYL ACETATE	UG/L	<	1	<	1
O-XYLENE	UG/L	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	0.5	0.5
ACROLEIN	UG/L	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	10
ACETONITRILE	UG/L	<	20	<	20
FREON 12 (CCL2F2)	UG/L	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	1	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-CALCULATED VALUE C-AVERAGE H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-AVERAGE OF DUPS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ06788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
VOLATILE ORGANIC COMPOUNDS					
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L C6H12O	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE					
ACETOPHENONE	UG/L	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<
DIALLATE	UG/L	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<
FAMPHUR	UG/L	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<
ISODRIN	UG/L	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<
KEPONE	UG/L	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<

FOOTNOTES : A-AMENDED TEST RESULT B-CALCULATED VALUE C-AVERAGE D-DUP & SPIKE E-DUPLICATE SPIKE
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TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ06788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
ACID-BASE NEUTRAL EXTRACTABLE					
M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	5
PENTACHLORONITROBENZENE	UG/L	<	<	<	1
PHENACETIN	UG/L	<	<	<	20
P-PHENYLENEDIAMINE	UG/L	<	<	<	1
PRONAMIDE	UG/L	<	<	<	1
SAFROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZENE	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	15
SYM-TRINITROBENZENE	UG/L	<	<	<	1
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	20
BENZIDINE	UG/L	<	<	<	1
BENZO (A) ANTHRACENE	UG/L	<	<	<	0.2
BENZO (A) PYRENE	UG/L	<	<	<	1
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G, H, I, J) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	31
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

FOOTNOTES : A-AMENDED TEST RESULT B-CALCULATED VALUE C-AVERAGE H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE
F-10% RULE EXCEEDED G-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP2 SJ02887 03/08/99	WELL EMP2 SJ06788 06/08/99	WELL EMP2 SJ10046 09/03/99	WELL EMP2 SJ13775 12/06/99
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	1
FLUORENE	UG/L	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	5
HEXACHLOROETHANE	UG/L	<	<	<	1
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	1
ISOPHORONE	UG/L	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	1
NITROBENZENE	UG/L	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	1
PYRENE	UG/L	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	1
4-NITROPHENOL	UG/L	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	1
PHENOL	UG/L	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	1
O-CRESOL	UG/L	<	<	<	1
M+P CRESOL	UG/L	<	<	<	1

FOOTNOTES : A-AMENDED TEST RESULT F-10% RULE EXCEEDED B-CALCULATED VALUE G-AVERAGE OF DUPS C-AVERAGE H-CHECK NOTES TO USER D-DUP & SPIKE E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP2 SJ06786 06/08/99	WEFI EMP2 SJ10042 09/03/99
CATIONS			
IRON	MG/L FE	0.15	0.13
MANGANESE	MG/L MN	0.16	0.18
METALS			
ARSENIC	MG/L AS	.0018	.0016
BARIUM	MG/L BA	0.01	0.01
CADMIUM	MG/L CD	<0.003	<0.002
TOTAL CHROMIUM	MG/L CR	<0.01	<0.01
COBALT	MG/L CO	<0.01	<0.01
COPPER	MG/L CU	<0.01	<0.01
LEAD	MG/L PB	<0.01	<0.010
MERCURY	MG/L HG	<.0001	<.0001
NICKEL	MG/L NI	0.02	0.02
SELENIUM	MG/L SE	<.0010	<.0010
SILVER	MG/L AG	<0.01	<0.01
ZINC	MG/L ZN	<0.01	0.01
ANTIMONY	MG/L SB	<.0005	<.0005
BERYLLIUM	MG/L BE	<.0025	<.0025
THALLIUM	MG/L TL	<0.001	<0.001
TIN	MG/L SN	<0.06	<0.06
VANADIUM	MG/L V	<0.05	<0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.5

WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3	WELL EMP3	WELL EMP3	WELL EMP3	WELL EMP3
FIELD PARAMETERS						
DEPTH TO WATER	FT	14.33	14.75	15.32	15.32	15.32
DEPTH TO BOTTOM	FT	198.7	189.8	198.5	209	209
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PERCENT OXYGEN IN GAS	%O2	20	18	19	18	18
FIELD WATER TEMPERATURE	DEG C	20.87	21.27	23.52	21.36	21.36
FIELD PH	PH	7.78	7.62	7.61	7.93	7.93
FIELD CONDUCTIVITY	UMHOS/CM	2907	2870	2722	2865	2865
FIELD DISSOLVED O2	MG/L	0.06	0.19	0.11	0.14	0.14
FIELD DISSOLVED CO2	MG/L		5			
GENERAL						
PH	PH	7.74	7.86	7.92	7.80	7.86
CONDUCTIVITY	UMHOS/CM	2000	2830	2850	1978	1958
TOTAL DISSOLVED SOLIDS	MG/L		1952	2010		
TOTAL HARDNESS	MG/L CACO3		439	437		
TOTAL CYANIDE	MG/L CN		<0.005	<0.005		
BORON	MG/L B		0.37	0.21		
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	1240	1110	1050	1070	1060
CHLORIDE	MG/L CL	226	204	195	199	198
TOTAL ALKALINITY	MG/L CACO3		118	118		
BICARBONATE ALKALINITY	MG/L CACO3		118	118		
TOTAL SULFIDE	MG/L S		0.1	0.5		
FLUORIDE	MG/L F		0.54	0.56		
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3		252	255		
MAGNESIUM-HARDNESS	MG/L CACO3		187	182		
SODIUM	MG/L NA		481	460		
POTASSIUM	MG/L K		4.7	5.7		
IRON	MG/L FE		0.13	0.23		
MANGANESE	MG/L MN		0.05	0.05		
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N		0.9	0.8		

FOOTNOTES : A-AVERAGE OF DUPS F-AVERAGE OF DUPS B-AMENDED TEST RESULT G-DUP & SPIKE C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3	WELL EMP3	WELL EMP3	WELL EMP3
SJ02888		SJ06789	SJ10299	SJ14140	SJ14141
03/08/99		06/08/99	09/13/99	12/15/99	12/15/99

ORGANIC MATTER	MG/L	2	<	<	2	G
TOTAL BOD	0					
SOLUBLE BOD	0	2	<	<	2	2
TOTAL COD	0	10	<	<	10	10
SOLUBLE COD	0	10	<	<	10	10
TOTAL ORGANIC CARBON	0	1.47	<	<	1.57	1.57
OIL & GREASE	0	3.0	<	<	4.0	4.0
TOTAL ORGANIC HALOGEN (TOX)	0	12	D	D	5.6	5.6

METALS	MG/L	AS	BA	CD	CR	CO	CU	PB	HG	NI	SE	AG	ZN	SB	BE	TL	SN	V
ARSENIC	.0021	.0018																
BARIUM	< 0.01	< 0.01	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
CADMIUM	< 0.003	< 0.002	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TOTAL CHROMIUM	< 0.01	< 0.01	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
COBALT	< 0.01	< 0.01	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
COPPER	< 0.01	< 0.01	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
LEAD	< 0.01	< 0.01	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
MERCURY	< 0.0001	< 0.0001	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
NICKEL	< 0.02	< 0.02	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SELENIUM	< 0.010	< 0.010	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SILVER	< 0.01	< 0.01	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
ZINC	< 0.01	< 0.01	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
ANTIMONY	< 0.005	< 0.005	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
BERYLLIUM	< 0.025	< 0.025	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
THALLIUM	< 0.001	< 0.001	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TIN	< 0.06	< 0.06	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
VANADIUM	< 0.05	< 0.05	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS	UG/L	0.05	0.1	1	1	1	1	1	1	0.01	0.01	0.01
2,4,5-T	<	<	<	<	<	<	<	<	<	<	<	<
DINoseb	<	<	<	<	<	<	<	<	<	<	<	<
THIONAZIN	<	<	<	<	<	<	<	<	<	<	<	<
DIMETHOATE	<	<	<	<	<	<	<	<	<	<	<	<
DISULFOTON	<	<	<	<	<	<	<	<	<	<	<	<
METHYL PARATHION	<	<	<	<	<	<	<	<	<	<	<	<
ETHYL PARATHION	<	<	<	<	<	<	<	<	<	<	<	<
PHORATE	<	<	<	<	<	<	<	<	<	<	<	<
PP'-DDE	<	<	<	<	<	<	<	<	<	<	<	<
PP'-DDD	<	<	<	<	<	<	<	<	<	<	<	<
PP'-DDT	<	<	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-CALCULATED VALUE D-INTERFERENCE E-DUPLICATE SPIKE
 F-AVERAGE OF DUPS G-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 03/08/99	WELL EMP3 SJ06789 06/08/99	WELL EMP3 SJ10299 09/13/99	WELL EMP3 SJ14140 12/15/99	WELL EMP3 SJ14141 12/15/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALPHA-BHC	UG/L	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT G-DUP & SPIKE C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ02888 03/08/99	WELL EMP3 SJ06789 06/08/99	WELL EMP3 SJ10299 09/13/99	WELL EMP3 SJ14140 12/15/99	WELL EMP3 SJ14141 12/15/99
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<
METHYL METHACRYLATE	UG/L	<	10	<	<	<
METHYLENE CHLORIDE	UG/L	<	1	<	1	<
CHLOROFORM	UG/L	<	1	<	1	<
1,1-TRICHLOROETHANE	UG/L	<	1	<	1	<
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<
TRICHLOROETHYLENE	UG/L	<	1	<	1	<
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<
BROMOFORM	UG/L	<	1	<	1	<
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<
VINYL CHLORIDE	UG/L	<	1	<	1	<
O-DICHLOROBENZENE	UG/L	<	1	<	1	<
M-DICHLOROBENZENE	UG/L	<	1	<	1	<
P-DICHLOROBENZENE	UG/L	<	1	<	1	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<
1,1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<
BENZENE	UG/L	<	1	<	1	<
TOLUENE	UG/L	<	1	<	1	<
ETHYL BENZENE	UG/L	<	10	<	10	<
VINYL ACETATE	UG/L	<	1	<	1	<
O-XYLENE	UG/L	<	1	<	1	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<
BROMOMETHANE	UG/L	<	1	<	1	<
CHLOROETHANE	UG/L	<	1	<	1	<
2-CHLOROETHYL VINYL ETHER	UG/L	<	1	<	1	<
CHLOROMETHANE	UG/L	<	1	<	1	<
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<
ACROLEIN	UG/L	<	10	<	10	<
ACRYLONITRILE	UG/L	<	10	<	10	<
ACETONITRILE	UG/L	<	20	<	20	<
FREON 12 (CCL2F2)	UG/L	<	1	<	1	<
FREON 11 (CCL3F)	UG/L	<	1	<	1	<

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-CALCULATED VALUE D-INTERFERENCE E-DUPLICATE SPIKE
F-AVERAGE OF DUPS G-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ02888 03/08/99	WELL EMP3 SJ06789 06/08/99	WELL EMP3 SJ10299 09/13/99	WELL EMP3 SJ14140 12/15/99	WELL EMP3 SJ14141 12/15/99
VOLATILE ORGANIC COMPOUNDS						
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 1	< 1	< 1	< 1	< 1
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5
		CS2				
		C6H12O				
ACID-BASE NEUTRAL EXTRACTABLE						
ACETOPHENONE	UG/L	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<
CHLOROENZILATE	UG/L	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<

FOOTNOTES : A-AVERAGE OF DUPS F-AVERAGE OF SPIKE B-AMENDED TEST RESULT G-DUP & SPIKE C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-DUPLICATE SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ02888 03/08/99	WELL EMP3 SJ06789 06/08/99	WELL EMP3 SJ10299 09/13/99	WELL EMP3 SJ14140 12/15/99	WELL EMP3 SJ14141 12/15/99
ACID-BASE NEUTRAL EXTRACTABLE						
M-NITROANILINE	UG/L	<	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	5
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	5
PHENACETIN	UG/L	<	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	20
PRONAMIDE	UG/L	<	<	<	<	1
SAFROLE	UG/L	<	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	<	15
ACENAPHTHENE	UG/L	<	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	1
BENZIDINE	UG/L	<	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	1
BENZO (G. H. I.) PERYLENE	UG/L	<	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	1
CHRYSENE	UG/L	<	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS F-AVERAGE OF DUPS B-AMENDED TEST RESULT G-DUP & SPIKE C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-DUPLICATE SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP3 SJ02888 03/08/99	WELL EMP3 SJ06789 06/08/99	WELL EMP3 SJ10299 09/13/99	WELL EMP3 SJ14140 12/15/99	WELL EMP3 SJ14141 12/15/99
ACID-BASE NEUTRAL EXTRACTABLE						
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	<	1
FLUORENE	UG/L	<	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	5	<	1
HEXACHLOROETHANE	UG/L	<	<	<	<	1
INDENO(1,2,3-C,D) PYRENE	UG/L	<	<	<	<	1
ISOPHORONE	UG/L	<	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	<	1
NITROBENZENE	UG/L	<	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	<	1
PYRENE	UG/L	<	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	<	1
4-NITROPHENOL	UG/L	<	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	<	1
PHENOL	UG/L	<	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	1
O-CRESOL	UG/L	<	<	<	<	1
M+P CRESOL	UG/L	<	<	<	<	1

FOOTNOTES : A-AVERAGE OF DUPS B-AMENDED TEST RESULT C-CALCULATED VALUE D-INTERFERENCE E-DUPLICATE SPIKE
 F-AVERAGE OF DUPS G-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP3 SJ06787 06/08/99	WEFI EMP3 SJ10300 09/13/99
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CATIONS	MG/L	FE	0.12	0.13
IRON	MG/L <td>MN <td>0.05 <td>0.05 </td></td></td>	MN <td>0.05 <td>0.05 </td></td>	0.05 <td>0.05 </td>	0.05
MANGANESE				
METALS				
ARSENIC	MG/L <td>AS</td> <td>.0019</td> <td>.0015</td>	AS	.0019	.0015
BARIIUM	MG/L <td>BA</td> <td>< 0.01</td> <td>< 0.01</td>	BA	< 0.01	< 0.01
CADIUM	MG/L <td>CD</td> <td>< 0.003</td> <td>< 0.002</td>	CD	< 0.003	< 0.002
TOTAL CHROMIUM	MG/L <td>CR</td> <td>< 0.01</td> <td>< 0.01</td>	CR	< 0.01	< 0.01
COBALT	MG/L <td>CO</td> <td>< 0.01</td> <td>< 0.01</td>	CO	< 0.01	< 0.01
COPPER	MG/L <td>CU</td> <td>< 0.01</td> <td>< 0.01</td>	CU	< 0.01	< 0.01
LEAD	MG/L <td>PB</td> <td>< 0.01</td> <td>< 0.010</td>	PB	< 0.01	< 0.010
MERCURY	MG/L <td>HG</td> <td>< .0001</td> <td>< .0001</td>	HG	< .0001	< .0001
NICKEL	MG/L <td>NI</td> <td>< 0.02</td> <td>< 0.02</td>	NI	< 0.02	< 0.02
SELENIUM	MG/L <td>SE</td> <td>< .0010</td> <td>< .0010</td>	SE	< .0010	< .0010
SILVER	MG/L <td>AG</td> <td>< 0.01</td> <td>< 0.01</td>	AG	< 0.01	< 0.01
ZINC	MG/L <td>ZN</td> <td>< 0.01</td> <td>< 0.01</td>	ZN	< 0.01	< 0.01
ANTIMONY	MG/L <td>SB</td> <td>< .0005</td> <td>< .0005</td>	SB	< .0005	< .0005
BERYLLIUM	MG/L <td>BE</td> <td>< .0025</td> <td>< .0025</td>	BE	< .0025	< .0025
THALLIUM	MG/L <td>TL</td> <td>< 0.001</td> <td>< 0.001</td>	TL	< 0.001	< 0.001
TIN	MG/L <td>SN</td> <td>< 0.06</td> <td>< 0.06</td>	SN	< 0.06	< 0.06
VANADIUM	MG/L <td>V</td> <td>< 0.05</td> <td>< 0.05</td>	V	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ02844 03/05/99	WELL EMP5 SJ02845 03/05/99	WELL EMP5 SJ05548 06/03/99	WELL EMP5 SJ10477 09/16/99	WELL EMP5 SJ13637 12/02/99	WELL EMP5 SJ13638 12/02/99
FIELD PARAMETERS							
DEPTH TO WATER	FT	16.47	15.42	15.95	16.37	16.37	
DEPTH TO BOTTOM	FT	28.21	< 0.1	28.18	28.21	28.21	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	15	12	16	16	16	
FIELD WATER TEMPERATURE	DEG C	20.17	21.12	20.59	19.67	19.67	
FIELD PH	PH	5.98	6.61	6.5	7.29	7.29	
FIELD CONDUCTIVITY	UMHOS/CM	2527	2750	2725	2522	2522	
FIELD DISSOLVED O2	MG/L	0.21	0.19	0.13	0.26	0.26	
FIELD DISSOLVED CO2	MG/L	1274	303	394	64	64	
GENERAL							
PH	PH	6.96	6.93	6.94	7.01	7.01	7.03
CONDUCTIVITY	UMHOS/CM						
TOTAL DISSOLVED SOLIDS	MG/L	1849	1848	1927	1834	1834	1866
TOTAL HARDNESS	MG/L CaCO3						
TOTAL CYANIDE	MG/L CN			<0.005	1238 D		
BORON	MG/L B			0.77			
ANIONS							
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	614	618	615	561	597	592
CHLORIDE	MG/L CL	187	189	183	168	178	177
TOTAL ALKALINITY	MG/L CaCO3	693	698	704	710	708	707
BICARBONATE ALKALINITY	MG/L CaCO3	693	698	704	710	708	707
TOTAL SULFIDE	MG/L S						
FLUORIDE	MG/L F			< 0.1	0.63		
CATIONS							
CALCIUM-HARDNESS	MG/L CaCO3	677	682	684	732	702	662
MAGNESIUM-HARDNESS	MG/L CaCO3	473	469	469	506	490	465
SODIUM	MG/L NA	179	188	177	187	186	174
POTASSIUM	MG/L K	6.4 C	4.7	4.1	4.6	4.5	4.1
IRON	MG/L FE				0.17		
MANGANESE	MG/L MN				0.61		
ORGANIC MATTER							
AMMONIA NITROGEN	MG/L N	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-DUPLICATE SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 03/05/99	WELL EMP5 03/05/99	WELL EMP5 06/03/99	WELL EMP5 09/16/99	WELL EMP5 12/02/99	WELL EMP5 12/02/99
ORGANIC MATTER							
TOTAL BOD	MG/L O	<	2	<	2	<	2
SOLUBLE BOD	MG/L O	<	2	<	2	<	2
TOTAL COD	MG/L O	15 A	17	14	14	13 A	14
SOLUBLE COD	MG/L O	4.69	4.73	4.63	4.53	4.92	4.73 C
TOTAL ORGANIC CARBON	MG/L C						
OIL & GREASE	MG/L C						
TOTAL ORGANIC HALOGEN (TOX)	UG/L EXTRAC				3.0		38 E
METALS							
ARSENIC	MG/L AS				.0050		
BARIUM	MG/L BA				0.05		
CADMIUM	MG/L CD				<0.002		
TOTAL CHROMIUM	MG/L CR				<0.01		
COBALT	MG/L CO				<0.01		
COPPER	MG/L CU				<0.010		
LEAD	MG/L PB				<0.001		
MERCURY	MG/L HG				<0.001		
NICKEL	MG/L NI				<0.02		
SELENIUM	MG/L SE				<0.010		
SILVER	MG/L AG				<0.01		
ZINC	MG/L ZN				0.02		
ANTIMONY	MG/L SB				<.0005		
BERYLLIUM	MG/L BE				<.0025		
THALLIUM	MG/L TL				<0.001		
TIN	MG/L SN				<0.06		
VANADIUM	MG/L V				<0.05		
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
2,4,5-T	UG/L				<0.05		
DINoseb	UG/L				<0.1		
THIONAZIN	UG/L				<0.1		
DIMETHOATE	UG/L				<0.1		
DISULFOTON	UG/L				<0.1		
METHYL PARATHION	UG/L				<0.1		
ETHYL PARATHION	UG/L				<0.1		
PHORATE	UG/L				<0.01		
PP' -DDE	UG/L				<0.01		
PP' -DDD	UG/L				<0.01		
PP' -DDT	UG/L				<0.01		

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-DUPLICATE SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ02844 03/05/99	WELL EMP5 SJ02845 03/05/99	WELL EMP5 SJ06548 06/03/99	WELL EMP5 SJ10477 09/16/99	WELL EMP5 SJ13637 12/02/99	WELL EMP5 SJ13638 12/02/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS							
ALPHA-BHC	UG/L	<	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<	<
METHOXYCYCLOR	UG/L	<	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<
AROCLOR 1242	UG/L	<	<	<	<	<	<
AROCLOR 1254	UG/L	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<
AROCLOR 1016	UG/L	<	<	<	<	<	<
AROCLOR 1221	UG/L	<	<	<	<	<	<
AROCLOR 1232	UG/L	<	<	<	<	<	<
AROCLOR 1248	UG/L	<	<	<	<	<	<
AROCLOR 1260	UG/L	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS							
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<
FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-DUPLICATE SPIKE D-INTERFERENCE E-AVERAGE OF DUPS							

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ02844 03/05/99	WELL EMP5 SJ02845 03/05/99	WELL EMP5 SJ06548 06/03/99	WELL EMP5 SJ10477 09/16/99	WELL EMP5 SJ13637 12/02/99	WELL EMP5 SJ13638 12/02/99
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-DUPLICATE SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5					D-INTERFERENCE	E-AVERAGE OF DUPS
		03/05/99	03/05/99	06/03/99	09/16/99	12/02/99		
VOLATILE ORGANIC COMPOUNDS								
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5
ACID-BASE NEUTRAL EXTRACTABLE								
ACETOPHENONE	UG/L	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<
DIALATE	UG/L	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-DUPLICATE SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ02844	WELL EMP5 SJ02845	WELL EMP5 SJ10477	WELL EMP5 SJ13637	WELL EMP5 SJ13638
ACID-BASE NEUTRAL EXTRACTABLE	UG/L					
M-NITROANILINE	UG/L					
P-NITROANILINE	UG/L					
N-NITROSODI-N-BUTYLAMINE	UG/L					
N-NITROSODIETHYLAMINE	UG/L					
N-NITROSOMETHYLETHYLAMINE	UG/L					
N-NITROSOPIPERIDINE	UG/L					
N-NITROSPYRROLIDINE	UG/L					
5-NITRO-O-TOLUIDINE	UG/L					
PENTACHLOROBENZENE	UG/L					
PENTACHLORONITROBENZENE	UG/L					
PHENACETIN	UG/L					
P-PHENYLENEDIAMINE	UG/L					
PRONAMIDE	UG/L					
SAFROLE	UG/L					
1,2,4,5-TETRACHLOROBENZEN	UG/L					
2,3,4,6-TETRACHLOROPHENOL	UG/L					
O-TOLUIDINE	UG/L					
O,O,O-TRIETHYLPHOSPHOROTH	UG/L					
SYM-TRINITROBENZENE	UG/L					
ACENAPHTHENE	UG/L					
ACENAPHTHYLENE	UG/L					
ANTHRACENE	UG/L					
BENZIDINE	UG/L					
BENZO (A) ANTHRACENE	UG/L					
BENZO (A) PYRENE	UG/L					
BENZO (B) FLUORANTHENE	UG/L					
BENZO (G, H, I) PERYLENE	UG/L					
BENZO (K) FLUORANTHENE	UG/L					
BIS (2-CL-ETHOXY) METHANE	UG/L					
BIS (2-CHLOROETHYL) ETHER	UG/L					
BIS (2-CL-ISOPROPYL) ETHER	UG/L					
DIETHYLHEXYL PHTHALATE	UG/L					
4-BROMOPHENYL PHENYLETHER	UG/L					
BUTYLBENZYL PHTHALATE	UG/L					
2-CHLORONAPHTHALENE	UG/L					
4-CHLOROPHENYLPHENYLETHER	UG/L					
CHRYSENE	UG/L					
DIBENZO (A, H) ANTHRACENE	UG/L					
3,3'-DICHLOBENZIDINE	UG/L					
DIETHYL PHTHALATE	UG/L					
DIMETHYL PHTHALATE	UG/L					

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-DUPLICATE SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP5 SJ02844 03/05/99	WELL EMP5 SJ02845 03/05/99	WELL EMP5 SJ06548 06/03/99	WELL EMP5 SJ10477 09/16/99	WELL EMP5 SJ13637 12/02/99	WELL EMP5 SJ13638 12/02/99
ACID-BASE NEUTRAL EXTRACTABLE							
DI-N-BUTYL PHTHALATE	UG/L						
2,4-DINITROTOLUENE	UG/L						
2,6-DINITROTOLUENE	UG/L						
DI-N-OCTYL PHTHALATE	UG/L						
FLUORANTHENE	UG/L						
FLUORENE	UG/L						
HEXACHLOROBENZENE	UG/L						
HEXACHLOROBUTADIENE	UG/L						
HEXACHLOROCYCLOPENTADIENE	UG/L						
HEXACHLOROETHANE	UG/L						
INDENO(1,2,3-C,D)PYRENE	UG/L						
ISOPHORONE	UG/L						
NAPHTHALENE	UG/L						
NITROBENZENE	UG/L						
N-NITROSODIMETHYLAMINE	UG/L						
N-NITROSODI-N-PROPYLAMINE	UG/L						
PHENANTHRENE	UG/L						
PYRENE	UG/L						
2-CHLOROPHENOL	UG/L						
1,2,4-TRICHLOROBENZENE	UG/L						
2,4-DICHLOROPHENOL	UG/L						
2,4-DIMETHYLPHENOL	UG/L						
2,4-DINITROPHENOL	UG/L						
2-METHYL-4,6-DINITROPHENOL	UG/L						
2-NITROPHENOL	UG/L						
4-NITROPHENOL	UG/L						
4-CHLORO-3-METHYLPHENOL	UG/L						
PENTACHLOROPHENOL	UG/L						
PHENOL	UG/L						
2,4,6-TRICHLOROPHENOL	UG/L						
N-NITROSODIPHENYLAMINE	UG/L						
O-CRESOL	UG/L						
M+P CRESOL	UG/L						

FOOTNOTES : A-DUP & SPIKE B-AVERAGE C-DUPLICATE SPIKE D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

WEFI
 EMP5
 SJ10475
 09/16/99

CONSTITUENT/WELL NO.	UNITS	MG/L	FE	0.12
CATIONS				
IRON	MG/L			0.60
MANGANESE	MG/L			
METALS				
ARSENIC	MG/L			0.048
BARIUM	MG/L			0.05
CADMIUM	MG/L			<0.002
TOTAL CHROMIUM	MG/L			<0.01
COBALT	MG/L			<0.01
COPPER	MG/L			<0.01
LEAD	MG/L			<0.010
MERCURY	MG/L			<0.001
NICKEL	MG/L			<0.02
SELENIUM	MG/L			<0.010
SILVER	MG/L			<0.01
ZINC	MG/L			0.02
ANTIMONY	MG/L			<0.005
BERYLLIUM	MG/L			<0.0025
THALLIUM	MG/L			<0.001
TIN	MG/L			<0.05
VANADIUM	MG/L			<0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6 SJ02842 03/05/99	WELL EMP6 SJ06879 06/10/99	WELL EMP6 SJ10328 09/14/99	WELL EMP6 SJ13944 12/09/99	WELL EMP6 SJ13945 12/09/99
FIELD PARAMETERS						
DEPTH TO WATER	FT	26.23	26.9	27.18	27.68	
DEPTH TO BOTTOM	FT	227.2	227.5	228.6	227.4	
PERCENT METHANE IN GAS	%CH4	< 0.1	< 0.1	< 0.1	< 0.1	
PERCENT OXYGEN IN GAS	%O2	18	17	16	20	
FIELD WATER TEMPERATURE	DEG C	20.61	22.23	21.83	20.11	
FIELD PH	PH	7.43	7.22	7.58	7.41	
FIELD CONDUCTIVITY	UMHOS/CM	1378	1327	1233	1365	
FIELD DISSOLVED O2	MG/L	0.15	0.13	0.07	0.22	
FIELD DISSOLVED CO2	MG/L		23	10	15	
GENERAL						
PH	PH	7.55	7.56	7.57	7.64	7.57
CONDUCTIVITY	UMHOS/CM	1370	1370	1350	1370	1370
TOTAL DISSOLVED SOLIDS	MG/L	914	914	913	902	899
TOTAL HARDNESS	MG/L	370	370	369	362	357
TOTAL CYANIDE	MG/L CN	0.011	< 0.005	< 0.005	< 0.005	< 0.005
BORON	MG/L B	0.22	0.24	0.24	0.31	0.29
ANIONS						
NITRATE NITROGEN	MG/L N	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	371	380	342	354	354
CHLORIDE	MG/L CL	95.0	94.9	85.6	91.5	91.3
TOTAL ALKALINITY	MG/L CACO3	218	218	226	218	218
BICARBONATE ALKALINITY	MG/L CACO3	218	218	226	218	218
TOTAL SULFIDE	MG/L S	0.1	< 0.1	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.52	0.52	0.51	0.53	0.52
CATIONS						
CALCIUM-HARDNESS	MG/L CACO3	227	227	228	221	219
MAGNESIUM-HARDNESS	MG/L CACO3	143	143	141	141	138
SODIUM	MG/L NA	153	153	154	151	149
POTASSIUM	MG/L K	5.2	5.2	5.5	5.2	5.1
IRON	MG/L FE	0.85	0.85	0.76	1.15	1.18
MANGANESE	MG/L MN	0.36	0.36	0.33	0.35	0.35
ORGANIC MATTER						
AMMONIA NITROGEN	MG/L N	0.3	0.3	0.2	< 0.1	< 0.1

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-INTERFERENCE E-DUP & SPIKE
 F-AVERAGE OF DUPS G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6 03/05/99	WELL EMP6 SJ06879	WELL EMP6 SJ10328	WELL EMP6 SJ13944	WELL EMP6 SJ13945	WELL EMP6 12/09/99	WELL EMP6 12/09/99
ORGANIC MATTER								
TOTAL BOD	MG/L O	<	2 E	<	2 E	<	2 E	<
SOLUBLE BOD	MG/L O	<	2	<	2	<	2	<
TOTAL COD	MG/L O	<	10	<	10	<	10	<
SOLUBLE COD	MG/L O	<	10	<	10	<	10	<
TOTAL ORGANIC CARBON	MG/L C	<	1.61	<	1.67 A	<	1.49	<
OIL & GREASE	MG/L EXTRAC	<	4.0 C	<	3.0 C	<	8.3 C	<
TOTAL ORGANIC HALOGEN (TOX)	UG/L	<	9.0 C	<	3.6 C	<	8.3 C	<
METALS								
ARSENIC	MG/L AS	.0031	.0024	.0024	.0018	.0019	.0018	.0019
BARIUM	MG/L BA	0.02 A	0.02 A	0.02 A	0.02	0.02 A	0.02	0.02 A
CADMIUM	MG/L CD	<0.003 A	<0.002 A	<0.002 A	<0.002	<0.002 A	<0.002	<0.002 A
TOTAL CHROMIUM	MG/L CR	<0.01 A	<0.01 A	<0.01 A	<0.01	<0.01 A	<0.01	<0.01 A
COBALT	MG/L CO	<0.01 A	<0.01 A	<0.01 A	<0.01	<0.01 A	<0.01	<0.01 A
COPPER	MG/L CU	<0.01 A	<0.01 A	<0.01 A	<0.01	<0.01 A	<0.01	<0.01 A
LEAD	MG/L PB	<0.01 A	<0.01 A	<0.01 A	<0.01	<0.01 A	<0.01	<0.01 A
MERCURY	MG/L HG	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
NICKEL	MG/L NI	<0.02 A	<0.02 A	<0.02 A	<0.02	<0.02 A	<0.02	<0.02 A
SELENIUM	MG/L SE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
SILVER	MG/L AG	<0.01 A	<0.01 A	<0.01 A	<0.01	<0.01 A	<0.01	<0.01 A
ZINC	MG/L ZN	<0.01 A	<0.01 A	<0.01 A	<0.04	<0.05 A	<0.05 A	<0.05 A
ANTIMONY	MG/L SB	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BERYLLIUM	MG/L BE	<0.025 A	<0.025 A	<0.025 A	<0.025	<0.025 A	<0.025	<0.025 A
THALLIUM	MG/L TL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TIN	MG/L SN	<0.06 A	<0.06 A	<0.06 A	<0.06	<0.06 A	<0.06	<0.06 A
VANADIUM	MG/L V	<0.05 A	<0.05 A	<0.05 A	<0.05	<0.05 A	<0.05	<0.05 A
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS								
2,4,5-T	UG/L	<	<	<	0.05	<	<	<
DINoseb	UG/L	<	<	<	0.1	<	<	<
THIONAZIN	UG/L	<	<	<	1	<	<	<
DIMETHOATE	UG/L	<	<	<	1	<	<	<
DISULFOTON	UG/L	<	<	<	1	<	<	<
METHYL PARATHION	UG/L	<	<	<	1	<	<	<
ETHYL PARATHION	UG/L	<	<	<	1	<	<	<
PHORATE	UG/L	<	<	<	1	<	<	<
PP'-DDE	UG/L	<	<	<	0.01	<	<	<
PP'-DDD	UG/L	<	<	<	0.01	<	<	<
PP'-DDT	UG/L	<	<	<	0.01	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AMENDED TEST RESULT C-AVERAGE D-INTERFERENCE E-DUP & SPIKE
F-AVERAGE OF DUPS G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6 SJ02842 03/05/99	WELL EMP6 SJ06879 06/10/99	WELL EMP6 SJ10328 09/14/99	WELL EMP6 SJ13944 12/09/99	WELL EMP6 SJ13945 12/09/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS						
ALPHA-BHC	UG/L	<	<	<	<	<
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<
HEPTACHLOR	UG/L	<	<	<	<	<
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<
ALDRIN	UG/L	<	<	<	<	<
DIELDRIN	UG/L	<	<	<	<	<
ENDRIN	UG/L	<	<	<	<	<
TOXAPHENE	UG/L	<	<	<	<	<
METHOXYCLOR	UG/L	<	<	<	<	<
2,4-D (ACID)	UG/L	<	<	<	<	<
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<
AROCFLOR 1242	UG/L	<	<	<	<	<
AROCFLOR 1254	UG/L	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<
AROCFLOR 1016	UG/L	<	<	<	<	<
AROCFLOR 1221	UG/L	<	<	<	<	<
AROCFLOR 1232	UG/L	<	<	<	<	<
AROCFLOR 1248	UG/L	<	<	<	<	<
AROCFLOR 1260	UG/L	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS						
ALLYL CHLORIDE	UG/L	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<
1,1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE F-AVERAGE OF DUPS B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE H-CHECK NOTES TO USER D-INTERFERENCE E-DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6 SJ02842 03/05/99	WELL EMP6 SJ06879 06/10/99	WELL EMP6 SJ10328 09/14/99	WELL EMP6 SJ13944 12/09/99	WELL EMP6 SJ13945 12/09/99
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	<	1
METHYL METHACRYLATE	UG/L	<	<	10	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	0.3
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	0.3	<	0.3	0.3
O-DICHLOROBENZENE	UG/L	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
BENZENE	UG/L	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<
ETHYL BENZENE	UG/L	<	1	<	1	1
VINYL ACETATE	UG/L	10 B	10	<	10	10
O-XYLENE	UG/L	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<
CHLOROMETHANE	UG/L	<	1	<	1	1
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	0.5
ACRYLONITRILE	UG/L	<	10	<	10	10
ACETONITRILE	UG/L	<	10	<	10	10
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	1	<	1	1

FOOTNOTES : A-DUPLICATE SPIKE F-AVERAGE OF DUPS B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE H-CHECK NOTES TO USER D-INTERFERENCE E-DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6 SJ02842 03/05/99	WELL EMP6 SJ06879 06/10/99	WELL EMP6 SJ10328 09/14/99	WELL EMP6 SJ13944 12/09/99	WELL EMP6 SJ13945 12/09/99
1.2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 5	< 5	< 5	< 5	< 5
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT	UNITS	WELL EMP6	WELL EMP6	WELL EMP6	WELL EMP6	WELL EMP6
1.2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ACETONE	UG/L	< 10	< 10	< 10	< 10	< 10
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
2-BUTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	< 10	< 10	< 10
STYRENE	UG/L	< 1	< 1	< 1	< 1	< 1
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	< 1	< 1	< 1
M+P-XYLENE	UG/L	< 1	< 1	< 1	< 1	< 1
CARBON DISULFIDE	UG/L	< 5	< 5	< 5	< 5	< 5
2-HEXANONE	UG/L	< 5	< 5	< 5	< 5	< 5

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT	UNITS	WELL EMP6	WELL EMP6	WELL EMP6	WELL EMP6	WELL EMP6
ACETOPHENONE	UG/L	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE
F-AVERAGE OF DUPS

B-AMENDED TEST RESULT
G-10% RULE EXCEEDED

C-AVERAGE
H-CHECK NOTES TO USER

D-INTERFERENCE
E-DUP & SPIKE

TABLE A.5
WATER QUALITY DATA - OFFSITE MONITORING WELLS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6 SJ02842 03/05/99	WELL EMP6 SJ06879 06/10/99	WELL EMP6 SJ10328 09/14/99	WELL EMP6 SJ13944 12/09/99	WELL EMP6 SJ13945 12/09/99
ACID-BASE NEUTRAL EXTRACTABLE						
M-NITROANILINE	UG/L	<	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	5
PHENACETIN	UG/L	<	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	20
PRONAMIDE	UG/L	<	<	<	<	1
SAFROLE	UG/L	<	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	<	1
O,O,O-TRITHYLPHOSPHOROTH	UG/L	<	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	<	1
ANTHRACENE	UG/L	<	<	<	<	1
BENZIDINE	UG/L	<	<	<	<	1
BENZO(A)ANTHRACENE	UG/L	<	<	<	<	1
BENZO(A)PYRENE	UG/L	<	<	<	<	0.2
BENZO(B)FLUORANTHENE	UG/L	<	<	<	<	1
BENZO(G,H,I)PERYLENE	UG/L	<	<	<	<	1
BENZO(K)FLUORANTHENE	UG/L	<	<	<	<	1
BIS(2-CL-ETHOXY)METHANE	UG/L	<	<	<	<	1
BIS(2-CHLOROETHYL)ETHER	UG/L	<	<	<	<	1
BIS(2-CL-ISOPROPYL)ETHER	UG/L	<	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	1
CHRYSENE	UG/L	<	<	<	<	1
DIBENZO(A,H)ANTHRACENE	UG/L	<	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE B-AWENDED TEST RESULT C-AVERAGE D-INTERFERENCE E-DUP & SPIKE
F-AVERAGE OF DUPS G-10% RULE EXCEEDED H-CHECK NOTES TO USER

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL EMP6	WELL EMP6	WELL EMP6	WELL EMP6	WELL EMP6
SJ02842		SJ06879	SJ10328	SJ13944	SJ13945	
03/05/99		06/10/99	09/14/99	12/09/99	12/09/99	

ACID-BASE NEUTRAL EXTRACTABLE	UNITS	WELL EMP6	WELL EMP6	WELL EMP6	WELL EMP6	WELL EMP6
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	<	1
FLUORENE	UG/L	<	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	5
HEXACHLOROETHANE	UG/L	<	<	<	<	1
INDENO(1,2,3-C,D)PYRENE	UG/L	<	<	<	<	1
ISOPHORONE	UG/L	<	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	<	1
NITROBENZENE	UG/L	<	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	<	1
PYRENE	UG/L	<	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	<	1
PHENOL	UG/L	<	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	1
O-CRESOL	UG/L	<	<	<	<	1
M+P CRESOL	UG/L	<	<	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE F-AVERAGE OF DUPS B-AMENDED TEST RESULT G-10% RULE EXCEEDED C-AVERAGE H-CHECK NOTES TO USER D-INTERFERENCE E-DUP & SPIKE

TABLE A.5
 WATER QUALITY DATA - OFFSITE MONITORING WELLS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WEFI EMP6	WEFI EMP6	WEFI EMP6	WEFI EMP6
SJ06878	SJ10327	SJ13942	SJ13943		
06/10/99	09/14/99	12/09/99	12/09/99		

CATIONS	MG/L	FE	0.78	0.75	0.80	0.80
IRON	0.35	0.33	0.35	0.35	0.35	0.35
MANGANESE						
METALS						
ARSENIC	MG/L	AS	.0030	.0023	.0017	.0017
BARIIUM	MG/L	BA	0.02	0.02	0.02	0.02
CADMIUM	MG/L	CD	<0.003	<0.002	<0.002	<0.002
TOTAL CHROMIUM	MG/L	CR	<0.01	<0.01	<0.01	<0.01
COBALT	MG/L	CO	<0.01	<0.01	<0.01	<0.01
COPPER	MG/L	CU	<0.01	<0.01	<0.01	<0.01
LEAD	MG/L	PB	<0.01	<0.010	<0.01	<0.01
MERCURY	MG/L	HG	<0.001	<0.001	<0.001	<0.001
NICKEL	MG/L	NI	0.02	0.02	0.02	0.02
SELENIUM	MG/L	SE	<0.010	<0.010	<0.010	<0.010
SILVER	MG/L	AG	<0.01	<0.01	<0.01	<0.01
ZINC	MG/L	ZN	0.01	0.01	0.01	0.01
ANTIMONY	MG/L	SB	<.0005	<.0005	<.0005	<.0005
BERYLLIUM	MG/L	BE	<.0025	<.0025	<.0025	<.0025
THALLIUM	MG/L	TL	<0.001	<0.001	<0.001	<0.001
TIN	MG/L	SN	0.06	0.06	0.06	0.06
VANADIUM	MG/L	V	<0.05	<0.05	<0.05	<0.05

FOOTNOTES : A- DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10 RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.6
WATER QUALITY DATA
EASTERN CANYONS GROUNDWATER EXTRACTION WELL

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS GROUNDWATER EXTRACTION WELL
 PUENTE HILLS LANDFILL

WELL	WELL	WELL	WELL
ES1A	ES1A	ES1A	ES1A
SJ10385	SJ10386	SJ10383	SJ10384
09/15/99	09/15/99	09/15/99	09/15/99

CONSTITUENT/WELL NO. UNITS

FIELD PARAMETERS

DEPTH TO WATER	15.68
DEPTH TO BOTTOM	35.03
PERCENT METHANE IN GAS	< 0.1
PERCENT OXYGEN IN GAS	0.3
FIELD WATER TEMPERATURE	18.98
FIELD PH	6.6
FIELD CONDUCTIVITY	4938
FIELD DISSOLVED O2	0.81
FIELD DISSOLVED CO2	236

GENERAL

PH	7.29	B	7.23
CONDUCTIVITY	5350		5340
TOTAL DISSOLVED SOLIDS	5112		5108
TOTAL HARDNESS	2740	C	2770
TOTAL CYANIDE	< 0.005		< 0.005
BORON	0.86	B	0.86

ANIONS

NITRATE NITROGEN	5.00	A	4.96	F
SULFATE	2700	A	2720	F
CHLORIDE	221	A	226	F
TOTAL ALKALINITY	536		534	
BICARBONATE ALKALINITY	536		534	
TOTAL SULFIDE	< 0.1	B	< 0.1	
FLUORIDE	0.93	F	0.93	

CATIONS

CALCIUM-HARDNESS	1180		1210
MAGNESIUM-HARDNESS	1560		1560
SODIUM	467		470
POTASSIUM	21.5		22.4
IRON	< 0.05		< 0.05
MANGANESE	0.04		0.04

ORGANIC MATTER

AMMONIA NITROGEN	< 0.1		< 0.1
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FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE H-CHECK NOTES TO USER

D-DUP & SPIKE

E-10% RULE EXCEEDED

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS GROUNDWATER EXTRACTION WELL
 PUENTE HILLS LANDFILL

WELL	WELL	WPEI	WPEI
E51A	E51A	E51A(F)	E51A(F)
SJ10385	SJ10386	SJ10383	SJ10384
09/15/99	09/15/99	09/15/99	09/15/99

CONSTITUENT/WELL NO. UNITS

ORGANIC MATTER

TOTAL BOD	MG/L	2	D	<	2
SOLUBLE BOD	MG/L	2	<		2
TOTAL COD	MG/L	17	D	<	13
SOLUBLE COD	MG/L	16	<		13
TOTAL ORGANIC CARBON	MG/L	4.76	<		4.74
OIL & GREASE	MG/L	4.0	<		4.0
TOTAL ORGANIC HALOGEN(TOX)	UG/L	28	E	<	22
					F

METALS

ARSENIC	MG/L	.0029			.0028	.0029
BARIUM	MG/L	0.01			0.01	0.01
CADMIUM	MG/L	<0.002			<0.002	<0.002
TOTAL CHROMIUM	MG/L	0.01			0.01	0.01
COBALT	MG/L	<0.01			<0.01	<0.01
COPPER	MG/L	0.01			0.01	0.01
LEAD	MG/L	<0.010			<0.010	<0.010
MERCURY	MG/L	0.001			0.001	0.001
NICKEL	MG/L	0.02			0.02	0.02
SELENIUM	MG/L	.0146			.0147	.0149
SILVER	MG/L	0.01			0.01	0.01
ZINC	MG/L	0.01			0.01	0.01
ANTIMONY	MG/L	.0008			.0008	.0008
BERYLLIUM	MG/L	<.0025			<.0025	<.0025
THALLIUM	MG/L	<0.001			<0.001	0.001
TIN	MG/L	<0.06			<0.06	<0.06
VANADIUM	MG/L	<0.05			<0.05	<0.05

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-T	UG/L	<0.05			<0.05
DINOSEB	UG/L	<0.1			<0.1
THIONAZIN	UG/L	1			1
DIMETHOATE	UG/L	1			1
DISULFOTON	UG/L	1			1
METHYL PARATHION	UG/L	1			1
ETHYL PARATHION	UG/L	1			1
PHORATE	UG/L	1			1
PP' -DDE	UG/L	<0.01			<0.01
PP' -DDD	UG/L	<0.01			<0.01
PP' -DDT	UG/L	<0.01			<0.01

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUP & SPIKE E-10% RULE EXCEEDED F-AVERAGE H-CHECK NOTES TO USER

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS GROUNDWATER EXTRACTION WELL
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL E51A SJT0385 09/15/99	WELL E51A SJT0386 09/15/99	WELL E51A(F) SJT0383 09/15/99	WELL E51A(F) SJT0384 09/15/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS					
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
METHOXYCHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-TP (SILVEX)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
AROCLOR 1242	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1254	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
BETA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
DELTA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN I	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN II	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDOSULFAN SULFATE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN ALDEHYDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
AROCLOR 1016	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1221	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1232	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1248	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
AROCLOR 1260	UG/L	< 0.1	< 0.1	< 0.1	< 0.1
TECHNICAL CHLORDANE	UG/L	< 0.05	< 0.05	< 0.05	< 0.05
VOLATILE ORGANIC COMPOUNDS					
ALLYL CHLORIDE	UG/L	< 1	< 1	< 1	< 1
BROMOCHLOROMETHANE	UG/L	< 1	< 1	< 1	< 1
CHLOROPRENE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	< 0.01	< 0.01	< 0.01	< 0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	< 0.3	< 0.3	< 0.3	< 0.3
1,3-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
2,2-DICHLOROPROPANE	UG/L	< 1	< 1	< 1	< 1
1,1-DICHLOROPROPENE	UG/L	< 10	< 10	< 10	< 10
ISOBUTYL ALCOHOL	UG/L	< 10	< 10	< 10	< 10
METHACRYLONITRILE	UG/L	< 10	< 10	< 10	< 10
METHYL IODIDE	UG/L	< 1	< 1	< 1	< 1
METHYLENE BROMIDE	UG/L	< 1	< 1	< 1	< 1
PROPIONITRILE	UG/L	< 10	< 10	< 10	< 10

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUP & SPIKE E-10% RULE EXCEEDED
 F-AVERAGE H-CHECK NOTES TO USER

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS GROUNDWATER EXTRACTION WELL

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL E51A SJ10385 09/15/99	WELL E51A SJ10386 09/15/99	WELL E51A(F) SJ10383 09/15/99	WELL E51A(F) SJ10384 09/15/99	WELL E51A(F) SJ10386 09/15/99	WELL E51A(F) SJ10383 09/15/99	WELL E51A(F) SJ10384 09/15/99
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,2,3-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<
2-CHLOROETHYL VINYL ETHER	UG/L	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-DUP & SPIKE E-10% RULE EXCEEDED
 F-AVERAGE H-CHECK NOTES TO USER

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS GROUNDWATER EXTRACTION WELL

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL E51A SJ10385 09/15/99	WELL E51A SJ10386 09/15/99	WELL E51A(F) SJ10383 09/15/99	WELL E51A(F) SJ10384 09/15/99
1,2-DIBROMOETHANE	UG/L	< 0.01	< 0.01	<	<
ACETONE	UG/L	< 10	< 10	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	< 1	< 1	<	<
2-BUTANONE	UG/L	< 10	< 10	<	<
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	<	<
STYRENE	UG/L	< 1	< 1	<	<
2,4,5-TRICHLOROPHENOL	UG/L	< 1	< 1	<	<
M+P-XYLENE	UG/L	< 1	< 1	<	<
CARBON DISULFIDE	UG/L	< 1	< 1	<	<
2-HEXANONE	UG/L C6H12O	< 5	< 5	<	<

VOLATILE ORGANIC COMPOUNDS

CONSTITUENT/WELL NO.	UNITS	WELL E51A SJ10385 09/15/99	WELL E51A SJ10386 09/15/99	WELL E51A(F) SJ10383 09/15/99	WELL E51A(F) SJ10384 09/15/99	B-AVERAGE OF DUPS	D-DUP & SPIKE	C-CALCULATED VALUE	H-CHECK NOTES TO USER
ACETOPHENONE	UG/L	<	<	<	<	1			
2-ACETYLAMINOFLORENE	UG/L	<	<	<	<	1			
4-AMINOBIPHENYL	UG/L	<	<	<	<	1			
BENZYL ALCOHOL	UG/L	<	<	<	<	1			
P-CHLOROANILINE	UG/L	<	<	<	<	1			
CHLOROBENZILATE	UG/L	<	<	<	<	1			
DIALLATE	UG/L	<	<	<	<	1			
DIBENZOFURAN	UG/L	<	<	<	<	1			
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	1			
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	1			
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	10			
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	1			
M-DINITROBENZENE	UG/L	<	<	<	<	1			
DIPHENYLAMINE	UG/L	<	<	<	<	1			
ETHYL METHANESULFONATE	UG/L	<	<	<	<	1			
FAMPHUR	UG/L	<	<	<	<	1			
HEXACHLOROPROPENE	UG/L	<	<	<	<	5			
ISODRIN	UG/L	<	<	<	<	1			
ISOSAFROLE	UG/L	<	<	<	<	1			
KEPONE	UG/L	<	<	<	<	10			
METHAPYRILENE	UG/L	<	<	<	<	20			
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	1			
METHYL METHANESULFONATE	UG/L	<	<	<	<	1			
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	1			
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	1			
1-NAPHTHYLAMINE	UG/L	<	<	<	<	1			
2-NAPHTHYLAMINE	UG/L	<	<	<	<	1			
O-NITROANILINE	UG/L	<	<	<	<	1			

ACID-BASE NEUTRAL EXTRACTABLE

CONSTITUENT/WELL NO.	UNITS	WELL E51A SJ10385 09/15/99	WELL E51A SJ10386 09/15/99	WELL E51A(F) SJ10383 09/15/99	WELL E51A(F) SJ10384 09/15/99	B-AVERAGE OF DUPS	D-DUP & SPIKE	C-CALCULATED VALUE	H-CHECK NOTES TO USER
ACETOPHENONE	UG/L	<	<	<	<	1			
2-ACETYLAMINOFLORENE	UG/L	<	<	<	<	1			
4-AMINOBIPHENYL	UG/L	<	<	<	<	1			
BENZYL ALCOHOL	UG/L	<	<	<	<	1			
P-CHLOROANILINE	UG/L	<	<	<	<	1			
CHLOROBENZILATE	UG/L	<	<	<	<	1			
DIALLATE	UG/L	<	<	<	<	1			
DIBENZOFURAN	UG/L	<	<	<	<	1			
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	1			
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	1			
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	10			
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	1			
M-DINITROBENZENE	UG/L	<	<	<	<	1			
DIPHENYLAMINE	UG/L	<	<	<	<	1			
ETHYL METHANESULFONATE	UG/L	<	<	<	<	1			
FAMPHUR	UG/L	<	<	<	<	1			
HEXACHLOROPROPENE	UG/L	<	<	<	<	5			
ISODRIN	UG/L	<	<	<	<	1			
ISOSAFROLE	UG/L	<	<	<	<	1			
KEPONE	UG/L	<	<	<	<	10			
METHAPYRILENE	UG/L	<	<	<	<	20			
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	1			
METHYL METHANESULFONATE	UG/L	<	<	<	<	1			
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	1			
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	1			
1-NAPHTHYLAMINE	UG/L	<	<	<	<	1			
2-NAPHTHYLAMINE	UG/L	<	<	<	<	1			
O-NITROANILINE	UG/L	<	<	<	<	1			

FOOTNOTES :

A-DUPLICATE SPIKE F-AVERAGE B-AVERAGE OF DUPS D-DUP & SPIKE E-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS GROUNDWATER EXTRACTION WELL

PUEBLO HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL E51A SJ10385 09/15/99	WELL E51A SJ10386 09/15/99	WELL E51A(F) SJ10383 09/15/99	WELL E51A(F) SJ10384 09/15/99
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ACID-BASE NEUTRAL EXTRACTABLE

M-NITROANILINE	UG/L	<	<	<	1
P-NITROANILINE	UG/L	<	<	<	1
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	1
N-NITROSODIETHYLAMINE	UG/L	<	<	<	1
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	1
N-NITROSOPIPERIDINE	UG/L	<	<	<	1
N-NITROSOPYRROLIDINE	UG/L	<	<	<	1
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	1
PENTACHLOROBENZENE	UG/L	<	<	<	1
PENTACHLORONITROBENZENE	UG/L	<	<	<	1
PHENACETIN	UG/L	<	<	<	1
P-PHENYLENEDIAMINE	UG/L	<	<	<	20
PRONAMIDE	UG/L	<	<	<	1
SAPROLE	UG/L	<	<	<	1
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	1
2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	1
O-TOLUIDINE	UG/L	<	<	<	1
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	<	<	<	1
SYM-TRINITROBENZENE	UG/L	<	<	<	5
ACENAPHTHENE	UG/L	<	<	<	1
ACENAPHTHYLENE	UG/L	<	<	<	1
ANTHRACENE	UG/L	<	<	<	1
BENZIDINE	UG/L	<	<	<	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	1
BENZO (A) PYRENE	UG/L	<	<	<	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	1
BENZO (G, H, I, J) PERYLENE	UG/L	<	<	<	1
BENZO (K) FLUORANTHENE	UG/L	<	<	<	1
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	1
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	1
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	1
DIETHYLHEXYL PHTHALATE	UG/L	<	<	<	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	1
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	1
2-CHLORONAPHTHALENE	UG/L	<	<	<	1
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	1
CHRYSENE	UG/L	<	<	<	1
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	1
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	1
DIETHYL PHTHALATE	UG/L	<	<	<	1
DIMETHYL PHTHALATE	UG/L	<	<	<	1

B-AVERAGE OF DUPS
 C-CALCULATED VALUE
 H-CHECK NOTES TO USER
 D-DUP & SPIKE
 E-10% RULE EXCEEDED
 FOOTNOTES : A-DUPLICATE SPIKE
 F-AVERAGE

TABLE A.6

WATER QUALITY DATA - EASTERN CANYONS GROUNDWATER EXTRACTION WELL
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	WELL E51A SJ10385 09/15/99	WELL E51A SJ10386 09/15/99	WELL E51A (F) SJ10383 09/15/99	WELL E51A (F) SJ10384 09/15/99
ACID-BASE NEUTRAL EXTRACTABLE					
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	1
2,4-DINITROTOLUENE	UG/L	<	<	<	1
2,6-DINITROTOLUENE	UG/L	<	<	<	1
DI-N-OCTYL PHTHALATE	UG/L	<	<	<	1
FLUORANTHENE	UG/L	<	<	<	1
FLUORENE	UG/L	<	<	<	1
HEXACHLOROBENZENE	UG/L	<	<	<	1
HEXACHLOROBUTADIENE	UG/L	<	<	<	1
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	5
HEXACHLOROETHANE	UG/L	<	<	<	1
INDENO(1,2,3-C,D) PYRENE	UG/L	<	<	<	1
ISOPHORONE	UG/L	<	<	<	1
NAPHTHALENE	UG/L	<	<	<	1
NITROBENZENE	UG/L	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	1
PHENANTHRENE	UG/L	<	<	<	1
PYRENE	UG/L	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	1
2-NITROPHENOL	UG/L	<	<	<	1
4-NITROPHENOL	UG/L	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	<	1
PHENOL	UG/L	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	1
O-CRESOL	UG/L	<	<	<	1
M+P CRESOL	UG/L	<	<	<	1

FOOTNOTES : A-DUPLICATE SPIKE F-AVERAGE B-AVERAGE OF DUPS C-CALCULATED VALUE H-CHECK NOTES TO USER D-DUP & SPIKE E-10% RULE EXCEEDED

TABLE A.7
WATER QUALITY DATA
LIQUID COLLECTION AND REMOVAL SYSTEMS

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS SJ02655 03/03/99	CNYN 9 LCRS SJ06411 06/01/99	CNYN 9 LCRS SJ06415 06/01/99	CNYN 9 LCRS (F) SJ10787 09/23/99	CNYN 9 LCRS SJ10790 09/23/99	CNYN 9 LCRS (F) SJ13781 12/06/99	CNYN 9 LCRS SJ13782 12/06/99
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FIELD PARAMETERS	PH	7.18						
GENERAL								
PH		7.26	7.52	7.42	7.42	7.52	7.52	7.52
CONDUCTIVITY	UMHOS/CM	8120	8710	8310	8310	8780	8780	8780
TOTAL DISSOLVED SOLIDS	MG/L	6864 A	8024 A	7470	7470	7283 A	7283 A	7283 A
TOTAL HARDNESS	MG/L	2800 C	4080 C	3240 C	3240 C	3390 C	3390 C	3390 C
TOTAL CYANIDE	MG/L CN	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BORON	MG/L B	4.49	4.97	3.90	3.90	3.87	3.87	3.87
ANIONS								
NITRATE NITROGEN	MG/L N	< 0.05	0.19	0.60	0.60	0.16	0.16	0.16
SULFATE	MG/L SO4	2880	4070	3020	3020	3320	3320	3320
CHLORIDE	MG/L CL	1000 B	901	964 B	964 B	993	993	993
TOTAL ALKALINITY	MG/L CACO3	1120	798	508	508	1070	1070	1070
BICARBONATE ALKALINITY	MG/L CACO3	1120	798	508	508	1070	1070	1070
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 G	< 0.1 G	< 0.1 G
FLUORIDE	MG/L F	0.71	0.94	0.70	0.70	0.82	0.82	0.82
CATIONS								
CALCIUM-HARDNESS	MG/L CACO3	1320	1410 F	1370	1370	1440	1440	1440
MAGNESIUM-HARDNESS	MG/L CACO3	1480	2670 F	1870	1870	1950	1950	1950
SODIUM	MG/L NA	826	925 F	936	936	1110	1110	1110
POTASSIUM	MG/L K	20.6	22.6 F	22.5	22.5	19.9	19.9	19.9
IRON	MG/L FE	4.41	22.6 F	8.30	8.30	3.54	3.54	3.54
MANGANESE	MG/L MN	9.78	9.21 F	8.62	8.62	7.51	7.51	7.51
ORGANIC MATTER								
AMMONIA NITROGEN	MG/L N	9.8	6.5	7.9	7.9	8.9	8.9	8.9
TOTAL BOD	MG/L O	9	5	13	13	9	9	9
SOLUBLE BOD	MG/L O	6	2	3	3	3	3	3
TOTAL COD	MG/L O	203	177	223	223	226	226	226
SOLUBLE COD	MG/L O	201	177	214	214	219	219	219
TOTAL ORGANIC CARBON	MG/L C	64.1	59.2	70.9	70.9	73.4 F	73.4 F	73.4 F
OIL & GREASE	MG/L	< 3.0	< 3.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TOTAL ORGANIC HALOGEN (TOX)	UG/L	250 D	340 F	670 F	670 F	420 F	420 F	420 F

FOOTNOTES : A-DUP & SPIKE B-AVERAGE OF DUPS C-CALCULATED VALUE D-INTERFERENCE E-AMENDED TEST RESULT
 F-DUPLICATE SPIKE G-AVERAGE OF DUPS H-CHECK NOTES TO USER

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUEBLO HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS SJ02655	CNYN 9 LCRS (F) SJ06411	CNYN 9 LCRS SJ06415	CNYN 9 LCRS (F) SJ10787	CNYN 9 LCRS SJ10790	CNYN 9 LCRS (F) SJ13781	CNYN 9 LCRS SJ13782
03/03/99		03/03/99	06/01/99	06/01/99	09/23/99	09/23/99	12/06/99	12/06/99

PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS

2,4,5-TP (SILVEX)	UG/L	<	0.5	<	<	<	<	2.5
AROCLOL 1242	UG/L	<	0.1	<	<	<	<	0.1
AROCLOL 1254	UG/L	<	0.05	<	<	<	<	0.05
BETA-BHC	UG/L	<	0.01	<	<	<	<	0.01
DELTA-BHC	UG/L	<	0.01	<	<	<	<	0.01
ENDOSULFAN I	UG/L	<	0.01	<	<	<	<	0.01
ENDOSULFAN II	UG/L	<	0.01	<	<	<	<	0.01
ENDOSULFAN SULFATE	UG/L	<	0.01	<	<	<	<	0.01
ENDRIN ALDEHYDE	UG/L	<	0.1	<	<	<	<	0.1
AROCLOL 1016	UG/L	<	0.1	<	<	<	<	0.1
AROCLOL 1221	UG/L	<	0.1	<	<	<	<	0.1
AROCLOL 1232	UG/L	<	0.1	<	<	<	<	0.1
AROCLOL 1248	UG/L	<	0.1	<	<	<	<	0.1
AROCLOL 1250	UG/L	<	0.1	<	<	<	<	0.1
TECHNICAL CHLORDANE	UG/L	<	0.05	<	<	<	<	0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	1	<	<	<	<	1
BROMOCHLOROMETHANE	UG/L	<	1	<	<	<	<	1
CHLOROPRENE	UG/L	<	0.01	<	<	<	<	0.01
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	1	<	<	<	<	1
1,1,4-DICHLORO-2-BUTENE	UG/L	<	0.01	<	<	<	<	0.01
1,3-DICHLOROPROPANE	UG/L	<	0.3	<	<	<	<	0.3
2,2-DICHLOROPROPANE	UG/L	<	1	<	<	<	<	1
1,1-DICHLOROPROPENE	UG/L	<	1	<	<	<	<	1
ISOBUTYL ALCOHOL	UG/L	<	10	<	<	<	<	10
METHACRYLONITRILE	UG/L	<	10	<	<	<	<	10
METHYL IODIDE	UG/L	<	1	<	<	<	<	1
METHYLENE BROMIDE	UG/L	<	10	<	<	<	<	10
PROPIONITRILE	UG/L	<	1	<	<	<	<	1
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	<	<	<	1
1,1,2-TRICHLOROPROPANE	UG/L	<	1	<	<	<	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	10	<	<	<	<	10
METHYL METHACRYLATE	UG/L	<	5	<	<	<	<	5
METHYLENE CHLORIDE	UG/L	<	1	<	<	<	<	1
CHLOROFORM	UG/L	<	1	<	<	<	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	<	<	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	<	<	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	<	<	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	<	<	<	1

B-AVERAGE OF DUPS
 G-AVERAGE OF DUPS
 C-CALCULATED VALUE
 H-CHECK NOTES TO USER
 D-INTERFERENCE
 E-AMENDED TEST RESULT

FOOTNOTES : A-DUP & SPIKE
 F-DUPLICATE SPIKE

TABLE A.7
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ02655 03/03/99	CNYN 9 LCRS SJ02657 03/03/99	CNYN 9 LCRS (F) SJ06411 06/01/99	CNYN 9 LCRS SJ06415 06/01/99	CNYN 9 LCRS (F) SJ10787 09/23/99	CNYN 9 LCRS SJ10790 09/23/99	CNYN 9 LCRS (F) SJ13781 12/06/99	CNYN 9 LCRS SJ13782 12/06/99
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ACID-BASE NEUTRAL EXTRACTABLE

ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIIPHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	<	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPIPERIDINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<	<	<	<

B-AVERAGE OF DUPS
 G-AVERAGE OF DUPS
 C-CALCULATED VALUE
 H-CHECK NOTES TO USER
 D-INTERFERENCE
 E-AMENDED TEST RESULT

FOOTNOTES :
 A-DUP & SPIKE
 F-DUPLICATE SPIKE

TABLE A.7
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS		CNYN 9		CNYN 9		CNYN 9		CNYN 9	
	LCRS (F)	LCRS	LCRS (F)	LCRS	LCRS (F)	LCRS	LCRS (F)	LCRS	LCRS (F)	LCRS
ACID-BASE NEUTRAL EXTRACTABLE		UG/L								
SAPROLE		UG/L								
1,2,4,5-TETRACHLOROBENZEN		UG/L								
2,3,4,6-TETRACHLOROPHENOL		UG/L								
O-TOLUIDINE		UG/L								
O,O,O-TRIETHYLPHOSPHOROTH		UG/L								
SYM-TRINITROBENZENE		UG/L								
ACENAPHTHENE		UG/L								
ACENAPHTHYLENE		UG/L								
ANTHRACENE		UG/L								
BENZIDINE		UG/L								
BENZO (A) ANTHRACENE		UG/L								
BENZO (A) PYRENE		UG/L								
BENZO (B) FLUORANTHENE		UG/L								
BENZO (K) FLUORANTHENE		UG/L								
BIS (2-CL-ETHOXY) METHANE		UG/L								
BIS (2-CHLOROETHYL) ETHER		UG/L								
BIS (2-CL-ISOPROPYL) ETHER		UG/L								
DIETHYLHEXYL PHTHALATE		UG/L								
4-BROMOPHENYL PHENYLETHER		UG/L								
BUTYLBENZYL PHTHALATE		UG/L								
2-CHLORONAPHTHALENE		UG/L								
4-CHLOROPHENYLPHENYLETHER		UG/L								
CHRYSENE		UG/L								
DIBENZO (A, H) ANTHRACENE		UG/L								
3,3'-DICHLOROBENZIDINE		UG/L								
DIETHYL PHTHALATE		UG/L								
DIMETHYL PHTHALATE		UG/L								
DI-N-BUTYL PHTHALATE		UG/L								
2,4-DINITROTOLUENE		UG/L								
2,6-DINITROTOLUENE		UG/L								
DI-N-OCTYL PHTHALATE		UG/L								
FLUORANTHENE		UG/L								
FLUORENE		UG/L								
HEXACHLOROBENZENE		UG/L								
HEXACHLOROBUTADIENE		UG/L								
HEXACHLOROCYCLOPENTADIENE		UG/L								
HEXACHLOROETHANE		UG/L								
INDENO (1,2,3-C,D) PYRENE		UG/L								
ISOPHORONE		UG/L								
NAPHTHALENE		UG/L								

FOOTNOTES : A-DUP & SPIKE
 F-DUPLICATE SPIKE
 B-AVERAGE
 G-AVERAGE OF DUPS
 C-CALCULATED VALUE
 H-CHECK NOTES TO USER
 D-INTERFERENCE
 E-AMENDED TEST RESULT

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	CNYN 9 LCRS (F) SJ02655 03/03/99	CNYN 9 LCRS SJ02657 03/03/99	CNYN 9 LCRS (F) SJ06411 06/01/99	CNYN 9 LCRS SJ06415 06/01/99	CNYN 9 LCRS (F) SJ10787 09/23/99	CNYN 9 LCRS SJ10790 09/23/99	CNYN 9 LCRS (F) SJ13781 12/06/99	CNYN 9 LCRS SJ13782 12/06/99
ACID-BASE NEUTRAL EXTRACTABLE		<	<	<	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<	<	<	<
2-METHYL-4,6DINITROPHENOL	UG/L	<	<	<	<	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<	<	<	<

ACID-BASE NEUTRAL EXTRACTABLE

NITROBENZENE

N-NITROSODIMETHYLAMINE

N-NITROSODI-N-PROPYLAMINE

PHENANTHRENE

PYRENE

2-CHLOROPHENOL

1,2,4-TRICHLOROBENZENE

2,4-DICHLOROPHENOL

2,4-DIMETHYLPHENOL

2,4-DINITROPHENOL

2-METHYL-4,6DINITROPHENOL

2-NITROPHENOL

4-NITROPHENOL

4-CHLORO-3-METHYLPHENOL

PENTACHLOROPHENOL

PHENOL

2,4,6-TRICHLOROPHENOL

N-NITROSODIPHENYLAMINE

O-CRESOL

M+P CRESOL

UNITS

C-CALCULATED VALUE

H-CHECK NOTES TO USER

D-INTERFERENCE

E-AMENDED TEST RESULT

B-AVERAGE OF DUPS

G-AVERAGE OF SPIKE

F-DUPLICATE SPIKE

FOOTNOTES :

TABLE A.7
WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2(F) SJ02656 03/03/99	EASTERN CANYONS LCS2(F) SJ06412 06/01/99	EASTERN CANYONS LCS2(F) SJ06416 06/01/99	EASTERN CANYONS LCS2(F) SJ10786 09/23/99	EASTERN CANYONS LCS2(F) SJ10789 09/23/99	EASTERN CANYONS LCS2(F) SJ13783 12/06/99	EASTERN CANYONS LCS2(F) SJ13784 12/06/99
FIELD PARAMETERS								
FIELD PH	PH							7.16
GENERAL								
PH	PH	7.53	7.49	7.49	7.56	7.56	7.63	7.63
CONDUCTIVITY	UMHOS/CM	4290	4970	4970	5100	5100	4390	4390
TOTAL DISSOLVED SOLIDS	MG/L	3538	4150	4150	3998	3998	3224	3224
TOTAL HARDNESS	MG/L CaCO3	1592 A	2180 A	2180 A	2080 A	2080 A	1715 A	1715 A
TOTAL CYANIDE	MG/L CN	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BORON	MG/L B	1.19	2.10	2.10	1.42	1.42	1.38	1.38
ANIONS								
NITRATE NITROGEN	MG/L N	< 0.05	0.09 D	0.09 D	< 0.05	< 0.05	< 0.05	< 0.05
SULFATE	MG/L SO4	1560	1870	1870	1410	1410	1160	1160
CHLORIDE	MG/L CL	267	391 D	391 D	505 D	505 D	453	453
TOTAL ALKALINITY	MG/L CaCO3	849	640	640	417	417	910	910
BICARBONATE ALKALINITY	MG/L CaCO3	849	640	640	417	417	910	910
TOTAL SULFIDE	MG/L S	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
FLUORIDE	MG/L F	0.43	0.46	0.46	0.43	0.43	0.52	0.52
CATIONS								
CALCIUM-HARDNESS	MG/L CaCO3	851 B	1060	1060	1090	1090	814	814
MAGNESIUM-HARDNESS	MG/L CaCO3	741 B	1120	1120	992	992	901	901
SODIUM	MG/L NA	279 B	504	504	492	492	451	451
POTASSIUM	MG/L K	13.8 B	15.5	15.5	15.3	15.3	13.8	13.8
IRON	MG/L FE	1.67 B	2.27	2.27	1.73	1.73	14.4	14.4
MANGANESE	MG/L MN	19.6 B	8.17	8.17	12.4	12.2	4.63	4.63
ORGANIC MATTER								
AMMONIA NITROGEN	MG/L N	1.4	1.3	1.3	1.6	1.6	3.5	3.5
TOTAL BOD	MG/L O	5	3	3	6	6	19	19
SOLUBLE BOD	MG/L O	<	2	2	3	3	4	4
TOTAL COD	MG/L O	79	85	85	108	108	275	275
SOLUBLE COD	MG/L O	73	83	83	112	112	246	246
TOTAL ORGANIC CARBON	MG/L C	21.0	27.3	27.3	33.9	33.9	86.0	86.0
OIL & GREASE	MG/L	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TOTAL ORGANIC HALOGEN (TOX)	UG/L	160 B	190 B	190 B	300 B	300 B	390 B	390 B

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-AVERAGE E-DUP & SPIKE

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS					EASTERN CANYONS					EASTERN CANYONS				
		03/03/99	03/03/99	06/01/99	06/01/99	09/23/99	03/03/99	03/03/99	06/01/99	06/01/99	09/23/99	03/03/99	03/03/99	06/01/99	06/01/99	09/23/99
METALS																
ARSENIC	MG/L AS	.0011	.0028	.0041	.0101	.0030	.0100	.0035	.0180							
BARIIUM	MG/L BA	0.05	0.05 B	0.07	0.08	0.08	0.08	0.10	0.12							
CADMIUM	MG/L CD	<0.003	<0.003 B	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002							
TOTAL CHROMIUM	MG/L CR	<0.01	<0.01 B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
COBALT	MG/L CO	<0.01	<0.01 B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
COPPER	MG/L CU	0.78	0.77 B	0.01	0.01	0.01	0.01	0.01	0.01							
LEAD	MG/L PB	0.35	0.53 B	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010							
MERCURY	MG/L HG	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001							
NICKEL	MG/L NI	0.09	0.05 B	0.02	0.02	0.02	0.02	0.03	0.16							
SELENIUM	MG/L SE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010							
SILVER	MG/L AG	<0.01	<0.01 B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01							
ZINC	MG/L ZN	0.59	0.35 B	0.03	0.03	0.04	0.04	0.05	0.14							
ANTIMONY	MG/L SB	.0023	.0015	.0005	.0005	.0005	.0005	.0005	.0020							
BERYLLIUM	MG/L BE	<.0025	<.0025	<.0025	<.0025	<.0025	<.0025	<.0025	<.0025							
THALLIUM	MG/L TL	<0.001	<0.001 B	<0.001	0.001	<0.001	<0.001	<0.001	<0.001							
TIN	MG/L SN	<0.06	<0.06 B	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06							
VANADIUM	MG/L V	<0.05	<0.05 B	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS																
2,4,5-T	UG/L	<	<	<	0.5	<	<	<	<							
DINCSEB	UG/L	<	<	<	<	<	<	<	<							
THIONAZIN	UG/L	<	<	<	<	<	<	<	<							
DIMETHOATE	UG/L	<	<	<	<	<	<	<	<							
DISULFOTON	UG/L	<	<	<	<	<	<	<	<							
METHYL PARATHION	UG/L	<	<	<	<	<	<	<	<							
ETHYL PARATHION	UG/L	<	<	<	<	<	<	<	<							
PHORATE	UG/L	<	<	<	<	<	<	<	<							
PP'-DDD	UG/L	<	<	<	<	<	<	<	<							
PP'-DDT	UG/L	<	<	<	<	<	<	<	<							
ALPHA-BHC	UG/L	<	<	<	<	<	<	<	<							
LINDANE (GAMMA-BHC)	UG/L	<	<	<	<	<	<	<	<							
HEPTACHLOR	UG/L	<	<	<	<	<	<	<	<							
HEPTACHLOR EPOXIDE	UG/L	<	<	<	<	<	<	<	<							
ALDRIN	UG/L	<	<	<	<	<	<	<	<							
DIELDRIN	UG/L	<	<	<	<	<	<	<	<							
ENDRIN	UG/L	<	<	<	<	<	<	<	<							
TOXAPHENE	UG/L	<	<	<	<	<	<	<	<							
METHOXYCLOR	UG/L	<	<	<	<	<	<	<	<							
2,4-D (ACID)	UG/L	<	<	<	<	<	<	<	<							

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-AVERAGE E-DUP & SPIKE

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ02656 03/03/99	EASTERN CANYONS LCS2 (F) SJ02658 03/03/99	EASTERN CANYONS LCS2 (F) SJ06412 06/01/99	EASTERN CANYONS LCS2 (F) SJ06416 06/01/99	EASTERN CANYONS LCS2 (F) SJ10786 09/23/99	EASTERN CANYONS LCS2 (F) SJ10789 09/23/99	EASTERN CANYONS LCS2 (F) SJ13783 12/06/99	EASTERN CANYONS LCS2 (F) SJ13784 12/06/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-TP (SILVEX)	UG/L	<	<	0.5	<	<	<	<	5
AROCLOL 1242	UG/L	<	<	0.1	<	<	<	<	0.1
AROCLOL 1254	UG/L	<	<	0.05	<	<	<	<	0.05
BETA-BHC	UG/L	<	<	0.01	<	<	<	<	0.01
DELTA-BHC	UG/L	<	<	0.01	<	<	<	<	0.01
ENDOSULFAN I	UG/L	<	<	0.01	<	<	<	<	0.01
ENDOSULFAN II	UG/L	<	<	0.1	<	<	<	<	0.1
ENDOSULFAN SULFATE	UG/L	<	<	0.01	<	<	<	<	0.04
ENDRIN ALDEHYDE	UG/L	<	<	0.1	<	<	<	<	0.1
AROCLOL 1016	UG/L	<	<	0.1	<	<	<	<	0.1
AROCLOL 1221	UG/L	<	<	0.1	<	<	<	<	0.1
AROCLOL 1232	UG/L	<	<	0.1	<	<	<	<	0.1
AROCLOL 1248	UG/L	<	<	0.1	<	<	<	<	0.1
AROCLOL 1260	UG/L	<	<	0.1	<	<	<	<	0.1
TECHNICAL CHLORDANE	UG/L	<	<	0.05	<	<	<	<	0.05

VOLATILE ORGANIC COMPOUNDS

ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	1	<	<	<	<	<	1
CHLOROPRENE	UG/L	<	<	<	<	<	<	<	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.01	<	<	<	0.01	<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	1
1,3-DICHLOROPROPANE	UG/L	<	<	0.3	<	<	<	<	0.3
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	1
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	1
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<	1
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<	10
METHYL IODIDE	UG/L	<	1	<	<	<	<	<	1
METHYLENE BROMIDE	UG/L	<	1	<	<	<	<	<	1
PROPIONITRILE	UG/L	<	<	<	<	<	<	<	10
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	<	<	<	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	<	<	<	<	1
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	10
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	10
METHYLENE CHLORIDE	UG/L	<	1	<	<	<	<	<	5
CHLOROFORM	UG/L	<	1	<	<	<	<	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	110	<	<	<	<	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	<	<	0.3	<	1
1,1-DICHLOROETHENE	UG/L	<	1	<	<	<	<	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	<	<	<	<	1

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-AVERAGE E-DUP & SPIKE

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ02658 03/03/99	EASTERN CANYONS LCS2 (F) SJ06412 06/01/99	EASTERN CANYONS LCS2 (F) SJ06416 06/01/99	EASTERN CANYONS LCS2 (F) SJ10786 09/23/99	EASTERN CANYONS LCS2 (F) SJ10789 09/23/99	EASTERN CANYONS LCS2 (F) SJ13783 12/06/99	EASTERN CANYONS LCS2 (F) SJ13784 12/06/99
VOLATILE ORGANIC COMPOUNDS								
TETRACHLOROETHYLENE	UG/L	<	<	1	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	<	1	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	<	1	<	1	<	1
BROMOFORM	UG/L	<	<	1	<	1	<	1
CHLOROBENZENE	UG/L	<	<	1	<	1	<	1
VINYL CHLORIDE	UG/L	<	0.3	<	<	0.3	<	0.3
O-DICHLOROBENZENE	UG/L	<	<	1	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	<	1	<	1	<	1
1,1-DICHLOROETHANE	UG/L	8	<	5	<	3	<	3
1,1,2-TRICHLOROETHANE	UG/L	<	<	1	<	1	<	1
1,2-DICHLOROETHANE	UG/L	<	<	0.5	<	0.6	<	0.5
BENZENE	UG/L	<	<	1	<	1	<	1
TOLUENE	UG/L	<	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	<	1	<	1	<	1
VINYL ACETATE	UG/L	10	<	10	<	10	<	10
O-XYLENE	UG/L	<	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	<	1	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	<	1	<	1	<	1
CHLOROMETHANE	UG/L	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	<	10	<	10	<	10
ACRYLONITRILE	UG/L	10	<	10	<	10	<	10
ACETONITRILE	UG/L	<	<	20	<	20	<	20
FREON 12 (CCL2F2)	UG/L	<	<	1	<	1	<	1
FREON 11 (CCL3F)	UG/L	<	<	1	<	1	<	1
1,2-DIBROMOETHANE	UG/L	<	<	0.01	<	0.01	<	0.01
ACETONE	UG/L	<	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	10	<	20	<	15	<	12
2-BUTANONE	UG/L	10	<	18	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	<	10	<	10	<	10
STYRENE	UG/L	1	<	1	<	1	<	1
2,4,5-TRICHLOROPHENOL	UG/L	<	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	<	1	<	1	<	1
2-HEXANONE	UG/L	<	<	5	<	5	<	5

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-AVERAGE E-DUP & SPIKE

TABLE A.7
 WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS
 PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ02656 03/03/99	EASTERN CANYONS LCS2 (F) SJ02658 06/01/99	EASTERN CANYONS LCS2 (F) SJ06412 06/01/99	EASTERN CANYONS LCS2 (F) SJ06416 09/23/99	EASTERN CANYONS LCS2 (F) SJ10786 09/23/99	EASTERN CANYONS LCS2 (F) SJ10789 09/23/99	EASTERN CANYONS LCS2 (F) SJ13783 12/06/99	EASTERN CANYONS LCS2 (F) SJ13784 12/06/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBI PHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A) ANTHR	UG/L	<	<	<	<	<	<	<	<
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	<	<	<	<	<	<	<	<
METHAPYRILENE	UG/L	<	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPERIDINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	<	<	<	<	<	<	<	<
PRONAMIDE	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-AVERAGE E-DUP & SPIKE

TABLE A.7

WATER QUALITY DATA - LIQUID COLLECTION AND REMOVAL SYSTEMS

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EASTERN CANYONS LCS2 (F) SJ02656 03/03/99	EASTERN CANYONS LCS2 (F) SJ06412 06/01/99	EASTERN CANYONS LCS2 (F) SJ06416 06/01/99	EASTERN CANYONS LCS2 (F) SJ10786 09/23/99	EASTERN CANYONS LCS2 (F) SJ10789 09/23/99	EASTERN CANYONS LCS2 (F) SJ13783 12/06/99	EASTERN CANYONS LCS2 (F) SJ13784 12/06/99
ACID-BASE NEUTRAL EXTRACTABLE								
NITROBENZENE	UG/L	<	<	1	<	<	<	1
N-NITROSODIMETHYLAMINE	UG/L	<	<	1	<	<	<	1
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	1	<	<	<	1
PHENANTHRENE	UG/L	<	<	1	<	<	<	1
2-CHLOROPHENOL	UG/L	<	<	1	<	<	<	1
1,2,4-TRICHLOROBENZENE	UG/L	<	<	1	<	<	<	1
2,4-DICHLOROPHENOL	UG/L	<	<	1	<	<	<	1
2,4-DIMETHYLPHENOL	UG/L	<	<	1	<	<	<	1
2,4-DINITROPHENOL	UG/L	<	<	6	<	<	<	6
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	1	<	<	<	1
2-NITROPHENOL	UG/L	<	<	1	<	<	<	1
4-NITROPHENOL	UG/L	<	<	1	<	<	<	1
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	1	<	<	<	1
PENTACHLOROPHENOL	UG/L	<	<	1	<	<	<	1
PHENOL	UG/L	<	<	1	<	<	<	1
2,4,6-TRICHLOROPHENOL	UG/L	<	<	1	<	<	<	1
N-NITROSODIPHENYLAMINE	UG/L	<	<	1	<	<	<	1
O-CRESOL	UG/L	<	<	1	<	<	<	1
M+P CRESOL	UG/L	<	<	1	<	<	<	1

FOOTNOTES : A-CALCULATED VALUE B-DUPLICATE SPIKE C-AMENDED TEST RESULT D-AVERAGE E-DUP & SPIKE

TABLE A.8
WATER QUALITY DATA
SURFACE RUNOFF MONITORING RESULTS

TABLE A.8
WATER QUALITY DATA - SURFACE RUNOFF SAMPLES
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD1	SD1	SD9	SJ01582	SJ03160	SJ01583	SJ03161	EQIP	TRIP	SD11	SD11	EQIP	TRIP	EQIP	TRIP
PH		7.47	7.38	8.07	8.12	8.41	8.41	8.1	5.71	7.38	8.1	580	2	5	7.38	2
CONDUCTIVITY	UMHOS/CM	620	570	600	1200	450	450	3900	<	<	3900	<	<	<	<	<
SUSPENDED SOLIDS	MG/L	690	5900	950	14000	1700	1700									
CATIONS																
IRON	MG/L	44	212	53	528	97	97	147	<	<	147	<	<	<	<	<
SOLUBLE IRON	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
ORGANIC MATTER																
TOTAL ORGANIC CARBON	MG/L C	27	51	15	26	10	10	26	0.56	<	26	<	<	<	<	0.5
METALS																
ARSENIC	MG/L AS	< 0.04	0.05	< 0.04	0.15	< 0.04	< 0.04	< 0.04	<	<	< 0.04	<	<	<	<	<
BARIUM	MG/L BA	0.41	1.18	< 0.31	3.24	0.43	0.43	0.78	<	<	0.78	<	<	<	<	<
CADMIUM	MG/L CD	0.022	0.062	< 0.023	0.269	0.12	0.12	0.16	<	<	0.16	<	<	<	<	<
TOTAL CHROMIUM	MG/L CR	< 0.04	0.23	< 0.06	0.6	< 0.04	< 0.04	0.06	<	<	0.06	<	<	<	<	<
COBALT	MG/L CO	< 0.04	0.09	< 0.04	0.26	< 0.04	< 0.04	0.19	<	<	0.19	<	<	<	<	<
COPPER	MG/L CU	0.09	0.32	< 0.11	1.11	0.11	0.11	0.07	<	<	0.07	<	<	<	<	<
LEAD	MG/L PB	0.04	0.14	< 0.06	0.72	< 0.04	< 0.04	0.04	<	<	0.04	<	<	<	<	<
MERCURY	MG/L HG	< 0.002	0.007	< 0.002	0.004	< 0.002	< 0.002	< 0.002	<	<	< 0.002	<	<	<	<	<
NICKEL	MG/L NI	0.04	0.2	0.05	0.58	0.08	0.08	0.13	<	<	0.13	<	<	<	<	<
SELENIUM	MG/L SE	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<	<	< 0.04	<	<	<	<	<
SILVER	MG/L AG	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<	<	< 0.04	<	<	<	<	<
ZINC	MG/L ZN	0.35	2.02	0.57	4.04	0.44	0.44	0.73	<	<	0.73	<	<	<	<	<
ANTIMONY	MG/L SB	0.042	< 0.002	0.053	0.051	< 0.002	< 0.002	< 0.002	<	<	< 0.002	<	<	<	<	<
BERYLLIUM	MG/L BE	0.007	0.032	0.009	0.073	0.19	0.19	0.25	<	<	0.25	<	<	<	<	<
VANADIUM	MG/L V	0.09	0.35	0.1	0.92	0.19	0.19	0.25	<	<	0.25	<	<	<	<	<
SOLUBLE ARSENIC	MG/L AS	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE BARIUM	MG/L BA	0.03	0.03	< 0.02	0.02	0.02	0.02	0.02	<	<	0.02	<	<	<	<	<
SOLUBLE BARIUM	MG/L SB	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	<	<	< 0.002	<	<	<	<	<
SOLUBLE ANTIMONY	MG/L SB	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<	<	< 0.005	<	<	<	<	<
SOLUBLE CADMIUM	MG/L CD	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE CHROMIUM	MG/L CR	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE COBALT	MG/L CO	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE COPPER	MG/L CU	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE LEAD	MG/L PB	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE LEAD	MG/L PB	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	<	<	< 0.002	<	<	<	<	<
SOLUBLE MERCURY	MG/L HG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE MERCURY	MG/L HG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE NICKEL	MG/L NI	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<
SOLUBLE SELENIUM	MG/L SE	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<	<	< 0.02	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.8

WATER QUALITY DATA - SURFACE RUNOFF SAMPLES

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	RUN SD1	SD1	SD9	SD9	SD9	SD11	SD11	SD11	SD11	EQIP	EQIP	EQIP	TRIP	TRIP	TRIP
		02/09/99	03/15/99	02/09/99	03/15/99	02/09/99	03/15/99	02/09/99	03/15/99	02/09/99	03/15/99	02/09/99	03/15/99	02/09/99	03/15/99	03/15/99
METALS																
SOLUBLE BERYLLIUM	MG/L BE	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A	< 0.005 A
SOLUBLE SILVER	MG/L AG	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
SOLUBLE ZINC	MG/L ZN	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
SOLUBLE VANADIUM	MG/L V	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
VOLATILE ORGANIC COMPOUNDS																
METHYLENE CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMODICHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DIBROMOCHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
O-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
P-DICHLOROBENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-DICHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TOLUENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ETHYL BENZENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-CHLOROETHYL VINYLETHER	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROMETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROPROPANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.9
WATER QUALITY DATA
REUSED WATER MONITORING RESULTS

TABLE A.9
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL REUS (F) SJ02653 03/03/99	EFFL REUS (F) SJ02654 03/03/99	EFFL REUS (F) SJ06413 06/01/99	EFFL REUS (F) SJ06414 06/01/99	EFFL REUS (F) SJ10785 09/23/99	EFFL REUS (F) SJ10788 09/23/99	EFFL REUS (F) SJ13785 12/06/99	EFFL REUS SJ13786 12/06/99
GENERAL									
PH		7.47 B	7.38 B	7.38 B	7.38 B	7.21 B	7.21 B	7.32	
CONDUCTIVITY	UMHOS/CM	2350 C	2380	2380	2380	2490	2490	2490	
TOTAL DISSOLVED SOLIDS	MG/L	1883	1843	1843	1843	2070	2070	1926	
TOTAL HARDNESS	MG/L CaCO3	973 E	1709 E	1709 E	1709 E	1039 E	1039 E	1139 E	
TOTAL CYANIDE	MG/L CN	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
BORON	MG/L B	0.65	1.20	1.20	1.20	9.2	9.2	0.54	
GROSS ALPHA RADIOACTIVITY	PCI/L								
GROSS BETA RADIOACTIVITY	PCI/L					16.3	16.3		
ANIONS									
NITRATE NITROGEN	MG/L N	0.33	0.24 A	0.24 A	0.24 A	0.42	0.42	0.30	
SULFATE	MG/L SO4	938	964 A	964 A	964 A	962	962	1000	
CHLORIDE	MG/L CL	86.4 D	87.2 A	87.2 A	87.2 A	88.5 D	88.5 D	91.1 D	
TOTAL ALKALINITY	MG/L CaCO3	377	366	366	366	377	377	385	
BICARBONATE ALKALINITY	MG/L CaCO3	377	366	366	366	377	377	385	
TOTAL SULFIDE	MG/L S	< 0.1 B	0.1	0.1	0.1	< 0.1 B	< 0.1 B	< 0.1	
FLUORIDE	MG/L F	< 0.73	0.70	0.70	0.70	< 0.73	< 0.73	< 0.74	
CATIONS									
CALCIUM-HARDNESS	MG/L CaCO3	417	659	659	659	422 A	422 A	464	
MAGNESIUM-HARDNESS	MG/L CaCO3	556	1050	1050	1050	617 A	617 A	675	
SODIUM	MG/L NA	190	204	204	204	206 A	206 A	220	
POTASSIUM	MG/L K	7.3	47.9	47.9	47.9	8.6 A	8.6 A	7.4	
IRON	MG/L FE	0.30	0.10	0.10	0.10	0.31	0.31	0.80 A	
MANGANESE	MG/L MN	0.38	0.36	0.36	0.36	0.37	0.37	0.35 A	
ORGANIC MATTER									
AMMONIA NITROGEN	MG/L N	2.0	1.9	1.9	1.9	1.7	1.7	1.9	
TOTAL BOD	MG/L O	4 C	17	17	17	<	<	8	
SOLUBLE BOD	MG/L O	<	<	<	<	<	<	<	
TOTAL COD	MG/L O	<	81	81	81	<	<	<	
SOLUBLE COD	MG/L O	<	<	<	<	<	<	<	
TOTAL ORGANIC CARBON	MG/L C	1.06	1.48	1.48	1.48	1.21	1.21	1.86	
OIL & GREASE	MG/L EXTRAC	<	4.0	4.0	4.0	<	<	<	
TOTAL ORGANIC HALOGEN (TOX)	UG/L	5.8 F	5.1 D	5.1 D	5.1 D	4.6 F	4.6 F	5.2 D	

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AVERAGE E-CALCULATED VALUE
 F-10% RULE EXCEEDED G-AMENDED TEST RESULT H-CHECK NOTES TO USER

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI SJ02653 03/03/99	REUS SJ02654 03/03/99	EFFI SJ06413 06/01/99	REUS SJ06414 06/01/99	EFFI SJ10785 09/23/99	REUS SJ10788 09/23/99	EFFI SJ13785 12/06/99	REUS SJ13786 12/06/99
METALS									
ARSENIC	MG/L	< 0.010	< 0.010	< 0.010	0.412	< 0.010	0.014	< 0.010	< 0.010
BARIUM	MG/L	< 0.003	< 0.003	< 0.003	1.36	< 0.002	0.002	< 0.002	< 0.002
CADMIUM	MG/L	< 0.01	< 0.01	< 0.01	0.35	< 0.01	< 0.01	< 0.01	< 0.01
TOTAL CHROMIUM	MG/L	< 0.01	< 0.01	< 0.01	0.15	< 0.01	< 0.01	< 0.01	< 0.01
COBALT	MG/L	< 0.01	< 0.01	< 0.01	0.28	< 0.01	< 0.01	< 0.01	< 0.01
COPPER	MG/L	< 0.02	< 0.02	< 0.010	0.063	< 0.010	< 0.010	< 0.01	< 0.01
LEAD	MG/L	< 0.001	< 0.001	< 0.001	0.005	< 0.001	< 0.001	< 0.001	< 0.001
MERCURY	MG/L	< 0.02	< 0.02	< 0.02	0.18	< 0.02	< 0.02	< 0.02	< 0.02
NICKEL	MG/L	< 0.010	< 0.010	< 0.010	0.029	< 0.010	< 0.010	< 0.010	< 0.010
SELENIUM	MG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SILVER	MG/L	< 0.01	< 0.01	< 0.01	0.75	< 0.01	< 0.01	< 0.01	< 0.01
ZINC	MG/L	< 0.005	< 0.005	< 0.005	0.021	< 0.005	< 0.005	< 0.005	< 0.005
ANTIMONY	MG/L	< 0.025	< 0.025	< 0.025	0.010	< 0.025	< 0.025	< 0.025	< 0.025
BERYLLIUM	MG/L	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001
THALLIUM	MG/L	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
TIN	MG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
VANADIUM	MG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS									
2,4,5-T	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DINOSB	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
THIONAZIN	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DIMETHOATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
DISULFOTON	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
METHYL PARATHION	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ETHYL PARATHION	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PHORATE	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PP',-DDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP',-DDD	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PP',-DDT	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALPHA-BHC	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
LINDANE (GAMMA-BHC)	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR EPOXIDE	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HEPTACHLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ALDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
DIELDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ENDRIN	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TOXAPHENE	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHOXYCLOR	UG/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,4-D (ACID)	UG/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AVERAGE E-CALCULATED VALUE
P-10% RULE EXCEEDED G-AMENDED TEST RESULT H-CHECK NOTES TO USER

TABLE A.9
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL REUS (F)	SJ02653 03/03/99	EFFL REUS (F)	SJ06413 06/01/99	EFFL REUS (F)	SJ06414 06/01/99	EFFL REUS (F)	SJ10785 09/23/99	EFFL REUS (F)	SJ10788 09/23/99	EFFL REUS (F)	SJ13785 12/06/99	EFFL REUS (F)	SJ13786 12/06/99
PESTICIDES, HERBICIDES, & ORGANOPHOSPHORUS															
2,4,5-TP (SILVEX)	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
AROCLOL 1242	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
AROCLOL 1254	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BETA-BHC	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
DELTA-BHC	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ENDOSULFAN I	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ENDOSULFAN II	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ENDOSULFAN SULFATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ENDRIN ALDEHYDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
AROCLOL 1016	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
AROCLOL 1221	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
AROCLOL 1232	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
AROCLOL 1248	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
AROCLOL 1260	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TECHNICAL CHLORDANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS															
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<

B-AVERAGE OF DUPS
 G-AMENDED TEST RESULT
 C-DUP & SPIKE
 H-CHECK NOTES TO USER
 D-AVERAGE
 E-CALCULATED VALUE

FOOTNOTES : A-DUPLICATE SPIKE
 F-10% RULE EXCEEDED

TABLE A.9

WATER QUALITY DATA - REUSED WATER

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS (F) SJ02653 03/03/99	EFFL REUS SJ02654 03/03/99	EFFI REUS (F) SJ06413 06/01/99	EFFL REUS SJ06414 06/01/99	EFFI REUS (F) SJ10785 09/23/99	EFFL REUS SJ10788 09/23/99	EFFI REUS (F) SJ13785 12/06/99	EFFL REUS SJ13786 12/06/99
VOLATILE ORGANIC COMPOUNDS									
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1
BROMOFORM	UG/L	<	1	<	1	<	1	<	1
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1
1,1-DICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
BENZENE	UG/L	<	1	<	1	<	1	<	1
TOLUENE	UG/L	<	1	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	1	<	1	<	1	<	1
VINYL ACETATE	UG/L	<	10 G	<	10	<	10	<	10
O-XYLENE	UG/L	<	1	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1
2-CHLOROETHYL VINYL ETHER	UG/L	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	10	<	10	<	10	<	10
ACROLEIN	UG/L	<	20	<	20	<	20	<	20
ACRYLONITRILE	UG/L	<	1	<	1	<	1	<	1
ACETONITRILE	UG/L	<	1	<	1	<	1	<	1
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	<	1	<	1	<	1	<	1
ACETONE	UG/L	<	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1	<	1
2,4,5-TRICHLOROPHENOL	UG/L	<	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AVERAGE E-CALCULATED VALUE
 F-10% RULE EXCEEDED G-AMENDED TEST RESULT H-CHECK NOTES TO USER

TABLE A.9
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL REUS SJ02653 03/03/99	EFFI REUS (F) SJ02654 03/03/99	EFFL REUS SJ06413 06/01/99	EFFI REUS (F) SJ06414 06/01/99	EFFL REUS SJ0785 09/23/99	EFFI REUS (F) SJ0788 09/23/99	EFFL REUS SJ13786 12/06/99	EFFI REUS (F) SJ13785 12/06/99
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	<	<	<	<	<	<	<	<
ACETOPHENONE	UG/L	<	<	<	<	<	<	<	<
2-ACETYLAMINOFLOURENE	UG/L	<	<	<	<	<	<	<	<
4-AMINOBIPHENYL	UG/L	<	<	<	<	<	<	<	<
BENZYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<
P-CHLOROANILINE	UG/L	<	<	<	<	<	<	<	<
CHLOROBENZILATE	UG/L	<	<	<	<	<	<	<	<
DIALLATE	UG/L	<	<	<	<	<	<	<	<
DIBENZOFURAN	UG/L	<	<	<	<	<	<	<	<
2,6-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
P(DIMETHYLAMINO)AZOBENZEN	UG/L	<	<	<	<	<	<	<	<
7,12-DIMETHYLBENZ(A)ANTHR	UG/L	10	10	10	10	10	10	10	10
3,3'-DIMETHYLBENZIDINE	UG/L	<	<	<	<	<	<	<	<
M-DINITROBENZENE	UG/L	<	<	<	<	<	<	<	<
DIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
ETHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
FAMPHUR	UG/L	<	<	<	<	<	<	<	<
HEXACHLOROPROPENE	UG/L	15	15	15	15	15	15	15	15
ISODRIN	UG/L	<	<	<	<	<	<	<	<
ISOSAFROLE	UG/L	<	<	<	<	<	<	<	<
KEPONE	UG/L	10	10	10	10	10	10	10	10
METHAPYRILENE	UG/L	<	<	<	<	<	<	<	<
3-METHYLCHOLANTHRENE	UG/L	<	<	<	<	<	<	<	<
METHYL METHANESULFONATE	UG/L	<	<	<	<	<	<	<	<
2-METHYLNAPHTHALENE	UG/L	<	<	<	<	<	<	<	<
1,4-NAPHTHOQUINONE	UG/L	<	<	<	<	<	<	<	<
1-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
2-NAPHTHYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
P-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
M-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
N-NITROANILINE	UG/L	<	<	<	<	<	<	<	<
N-NITRODI-N-BUTYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOMETHYLETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPYRIDINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSOPYRROLIDINE	UG/L	<	<	<	<	<	<	<	<
5-NITRO-O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<
PENTACHLOROBENZENE	UG/L	15	15	15	15	15	15	15	15
PENTACHLORONITROBENZENE	UG/L	<	<	<	<	<	<	<	<
PHENACETIN	UG/L	<	<	<	<	<	<	<	<
P-PHENYLENEDIAMINE	UG/L	20	20	20	20	20	20	20	20
PRONAMIDE	UG/L	<	<	<	<	<	<	<	<

B-AVERAGE OF DUPS
 G-AMENDED TEST RESULT
 C-DUP & SPIKE
 H-CHECK NOTES TO USER
 D-AVERAGE
 E-CALCULATED VALUE
 A-DUPLICATE SPIKE
 F-10% RULE EXCEEDED

TABLE A.9
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFI REUS (F)	EFFL REUS	EFFI REUS (F)	EFFL REUS	EFFI REUS (F)	EFFL REUS	EFFI REUS (F)	EFFL REUS	EFFI REUS (F)	EFFL REUS
ACID-BASE NEUTRAL EXTRACTABLE	UG/L	1	1	1	1	1	1	1	1	1	1
SAFROLE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2,4,5-TETRACHLOROBENZEN	UG/L	<	<	<	<	<	<	<	<	<	<
1,2,3,4,6-TETRACHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<	<	<
O-TOLUIDINE	UG/L	<	<	<	<	<	<	<	<	<	<
O,O,O-TRIETHYLPHOSPHOROTH	UG/L	1	5	1	1	1	5	1	1	1	5
SYM-TRINITROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
ACENAPHTHENE	UG/L	<	<	<	<	<	<	<	<	<	<
ACENAPHTHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
ANTHRACENE	UG/L	<	<	<	<	<	<	<	<	<	<
BENZIDINE	UG/L	20	20	1	1	1	20	1	1	1	20
BENZO (A) ANTHRACENE	UG/L	<	<	<	<	<	<	<	<	<	<
BENZO (A) PYRENE	UG/L	0.2	0.2	1	1	1	0.2	1	1	1	0.2
BENZO (B) FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<	<	<
BENZO (G.H.I.) PERYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
BENZO (K) FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<	<	<
BIS (2-CL-ETHOXY) METHANE	UG/L	<	<	<	<	<	<	<	<	<	<
BIS (2-CHLOROETHYL) ETHER	UG/L	<	<	<	<	<	<	<	<	<	<
BIS (2-CL-ISOPROPYL) ETHER	UG/L	<	<	<	<	<	<	<	<	<	<
DIETHYLHEXYL PHTHALATE	UG/L	12	1	1	1	1	1	1	1	1	1
4-BROMOPHENYL PHENYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<
BUTYLBENZYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<	<	<
2-CHLORONAPHTHALENE	UG/L	<	<	<	<	<	<	<	<	<	<
4-CHLOROPHENYLPHENYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<
CHRYSENE	UG/L	<	<	<	<	<	<	<	<	<	<
DIBENZO (A, H) ANTHRACENE	UG/L	<	<	<	<	<	<	<	<	<	<
3,3'-DICHLOROBENZIDINE	UG/L	<	<	<	<	<	<	<	<	<	<
DIETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<	<	<
DIMETHYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<	<	<
DI-N-BUTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<	<	<
2,4-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<
2,6-DINITROTOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<
Di-N-OCTYL PHTHALATE	UG/L	<	<	<	<	<	<	<	<	<	<
FLUORANTHENE	UG/L	<	<	<	<	<	<	<	<	<	<
FLUORENE	UG/L	<	<	<	<	<	<	<	<	<	<
HEXACHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<
HEXACHLOROBUTADIENE	UG/L	<	<	<	<	<	<	<	<	<	<
HEXACHLOROCYCLOPENTADIENE	UG/L	<	<	<	<	<	<	<	<	<	<
HEXACHLOROETHANE	UG/L	15	1	1	1	1	15	1	1	1	15
INDENO (1,2,3-C,D) PYRENE	UG/L	<	<	<	<	<	<	<	<	<	<
ISOPHORONE	UG/L	<	<	<	<	<	<	<	<	<	<
NAPHTHALENE	UG/L	1	1	1	1	1	1	1	1	1	1

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE OF DUPS C-DUP & SPIKE D-AVERAGE E-CALCULATED VALUE
F-10% RULE EXCEEDED G-AMENDED TEST RESULT H-CHECK NOTES TO USER

TABLE A.9
WATER QUALITY DATA - REUSED WATER
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	EFFL REUS (F) SJ02653 03/03/99	EFFL REUS SJ02654 03/03/99	EFFI REUS (F) SJ06413 06/01/99	EFFL REUS SJ06414 06/01/99	EFFI REUS (F) SJ10785 09/23/99	EFFL REUS SJ10788 09/23/99	EFFI REUS (F) SJ13785 12/06/99	EFFL REUS SJ13786 12/06/99
ACID-BASE NEUTRAL EXTRACTABLE		<	<	<	<	<	<	<	<
NITROBENZENE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIMETHYLAMINE	UG/L	<	<	<	<	<	<	<	<
N-NITROSODI-N-PROPYLAMINE	UG/L	<	<	<	<	<	<	<	<
PHENANTHRENE	UG/L	<	<	<	<	<	<	<	<
PYRENE	UG/L	<	<	<	<	<	<	<	<
2-CHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
1,2,4-TRICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<
2,4-DICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
2,4-DIMETHYLPHENOL	UG/L	<	<	<	<	<	<	<	<
2,4-DINITROPHENOL	UG/L	<	<	<	<	<	<	<	<
2-METHYL-4,6-DINITROPHENOL	UG/L	<	<	<	<	<	<	<	<
2-NITROPHENOL	UG/L	<	<	<	<	<	<	<	<
4-NITROPHENOL	UG/L	<	<	<	<	<	<	<	<
4-CHLORO-3-METHYLPHENOL	UG/L	<	<	<	<	<	<	<	<
PENTACHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
PHENOL	UG/L	<	<	<	<	<	<	<	<
2,4,6-TRICHLOROPHENOL	UG/L	<	<	<	<	<	<	<	<
N-NITROSODIPHENYLAMINE	UG/L	<	<	<	<	<	<	<	<
O-CRESOL	UG/L	<	<	<	<	<	<	<	<
M+P CRESOL	UG/L	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE F-10% RULE EXCEEDED B-AVERAGE OF DUPS G-AMENDED TEST RESULT C-DUP & SPIKE H-CHECK NOTES TO USER D-AVERAGE E-CALCULATED VALUE

TABLE A.10

WATER QUALITY DATA

QUALITY ASSURANCE/QUALITY CONTROL DATA

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLANK TRIP		BLANK TRIP		BLANK TRIP		BLANK TRIP		BLANK TRIP		BLANK TRIP		BLANK TRIP		
		<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VOLATILE ORGANIC COMPOUNDS																
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.10
 WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA
 PUENTE HILLS LANDFILL

CONSTITUENT/ WELL NO.	UNITS	BLANK TRIP		BLANK TRIP		BLANK TRIP		BLANK TRIP		BLANK TRIP		BLANK TRIP		BLANK TRIP			
		03/01/99	03/01/99	03/01/99	03/01/99	03/02/99	03/02/99	03/02/99	03/02/99	03/03/99	03/03/99	03/03/99	03/03/99	03/04/99	03/04/99	03/05/99	
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
1,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10
ACRYLONITRILE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10
ACETONITRILE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10
FREON 12 (CCl2F2)	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
FREON 11 (CCl3F)	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
1,2-DIBROMOETHANE	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01
ACETONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10
CIS-1,2-DICHLOROETHYLENE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10
STYRENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5	<	5	<	5	<	5	<	5

VOLATILE ORGANIC COMPOUNDS
 BROMOMETHANE
 CHLOROETHANE
 2-CHLOROETHYL VINYLETHER
 CHLOROMETHANE
 1,2-DICHLOROPROPANE
 CIS-1,3-DICHLOROPROPENE
 TRANS-1,3-DICHLOROPROPENE
 1,1,2,2-TETRACHLOROETHANE
 ACROLEIN
 ACRYLONITRILE
 ACETONITRILE
 FREON 12 (CCl2F2)
 FREON 11 (CCl3F)
 1,2-DIBROMOETHANE
 ACETONE
 CIS-1,2-DICHLOROETHYLENE
 2-BUTANONE
 4-METHYL-2-PENTANONE
 STYRENE
 M+P-XYLENE
 CARBON DISULFIDE
 2-HEXANONE

FOOTNOTES : A-DUPLICATE SPIKE
 P-DUP & SPIKE
 B-AVERAGE G-10% RULE EXCEEDED
 C-CALCULATED VALUE H-CHECK NOTES TO USER
 D-INTERFERENCE
 E-AVERAGE OF DUPS

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS															
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2,3-TETRACHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ACETONE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUEBLO HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	SJ09937 09/01/99	BLNK TRIP	SJ09944 09/01/99	BLNK TRIP	SJ09992 09/02/99	BLNK TRIP	SJ09995 09/02/99	BLNK TRIP	SJ10039 09/03/99	BLNK TRIP	SJ10047 09/03/99	BLNK TRIP	SJ10080 09/07/99	BLNK TRIP	SJ10095 09/07/99	BLNK TRIP	SJ10301 09/13/99	BLNK TRIP	SJ10314 09/13/99
VOLATILE ORGANIC COMPOUNDS																					
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS												
BROMOMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<
CHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<
2-CHLOROETHYL VINYLETHER	UG/L	<	1	<	1	<	1	<	1	<	1	<
CHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<
1,2-DICHLOROPROPANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	10	<	10	<	10	<	10	<	10	<
ACROLEIN	UG/L	<	10	<	10	<	10	<	10	<	10	<
ACRYLONITRILE	UG/L	<	20	<	20	<	20	<	20	<	20	<
ACETONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1	<
FREON 12 (CCL2F2)	UG/L	<	1	<	1	<	1	<	1	<	1	<
FREON 11 (CCL3F)	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<
1,2-DIBROMOETHANE	UG/L	<	10	<	10	<	10	<	10	<	10	<
ACETONE	UG/L	<	10	<	10	<	10	<	10	<	10	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<
2-BUTANONE	UG/L	<	10	<	10	<	10	<	10	<	10	<
4-METHYL-2-PENTANONE	UG/L	<	10	<	10	<	10	<	10	<	10	<
STYRENE	UG/L	<	1	<	1	<	1	<	1	<	1	<
M+P-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<
CARBON DISULFIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<
2-HEXANONE	UG/L	<	5	<	5	<	5	<	5	<	5	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA
PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	SJ10329	09/14/99	SJ10343	09/14/99	SJ10387	09/15/99	SJ10399	09/15/99	SJ10474	09/16/99	SJ10479	09/16/99	SJ10526	09/17/99	SJ10539	09/17/99	SJ10582	09/20/99	BLNK TRIP	BLNK TRIP	BLNK TRIP	
ALLYL CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
CHLOROPRENE	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	<	<	<	<
METHYL IODIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
PROPIONITRILE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
1,1,1,2-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	5	<	5	<	5	<	5	<	5	<	5	<	5	<	5	<	5	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
CHLOROFORM	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
BROMOFORM	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
1,1-DICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	<	<	<	<
BENZENE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	<	<	<	<
TOLUENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
ETHYL BENZENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
VINYL ACETATE	UG/L	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	10	<	<	<	<	<
O-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS											
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
TRANS-1,3-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<
1,1,2,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	<	<	<	<	<	<	<	<	<	<
ACETONE	UG/L	<	<	<	<	<	<	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	<	<	<	<	<	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<	<	<	<	<	<	<
STYRENE	UG/L	<	<	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<	<	<	<
2-HEXANONE	UG/L	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE D-INTERFERENCE E-AVERAGE OF DUPS
 F-DUP & SPIKE H-CHECK NOTES TO USER

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
VOLATILE ORGANIC COMPOUNDS													
ALLYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
BROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROPRENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
T-1,4-DICHLORO-2-BUTENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,3-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
2,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROPROPENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
ISOBUTYL ALCOHOL	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
METHACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
METHYL IODIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE BROMIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
PROPIONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-TETRACHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,2,3-TRICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
METHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
ETHYL METHACRYLATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
METHYLENE CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CARBON TETRACHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,1-DICHLOROETHENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
TRICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
TETRACHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
BROMODICHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
DIBROMOCHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
BROMOFORM	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
CHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
VINYL CHLORIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
O-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
M-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
P-DICHLOROBENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2-TRICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
TOLUENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
ETHYL BENZENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
VINYL ACETATE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
O-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<	<
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	<	<	<	<	<	<	<	<	<	<	<

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP	BLNK TRIP
BROMOMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
2-CHLOROETHYL VINYLETHER	UG/L	<	<	<	<	<	<	<	<	<	<	<
CHLOROMETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DICHLOROPROPANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CIS-1,3-DICHLOROPROPENE	UG/L	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
TRANS-1,3-DICHLOROPROPENE	UG/L	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
ACROLEIN	UG/L	<	<	<	<	<	<	<	<	<	<	<
ACRYLONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ACETONITRILE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ACETONE	UG/L	<	<	<	<	<	<	<	<	<	<	<
FREON 12 (CCL2F2)	UG/L	<	<	<	<	<	<	<	<	<	<	<
FREON 11 (CCL3F)	UG/L	<	<	<	<	<	<	<	<	<	<	<
1,2-DIBROMOETHANE	UG/L	<	<	<	<	<	<	<	<	<	<	<
ACETONE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CIS-1,2-DICHLOROETHYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
2-BUTANONE	UG/L	<	<	<	<	<	<	<	<	<	<	<
4-METHYL-2-PENTANONE	UG/L	<	<	<	<	<	<	<	<	<	<	<
STYRENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
M+P-XYLENE	UG/L	<	<	<	<	<	<	<	<	<	<	<
CARBON DISULFIDE	UG/L	<	<	<	<	<	<	<	<	<	<	<
2-HEXANONE	UG/L	<	<	<	<	<	<	<	<	<	<	<

BLNK TRIP SJ10791 09/23/99 SJ13587 12/01/99 SJ13591 12/01/99 SJ13636 12/02/99 SJ13640 12/02/99 SJ13718 12/03/99 SJ13787 12/06/99 SJ13842 12/07/99 SJ13861 12/07/99 SJ13946 12/09/99

VOLATILE ORGANIC COMPOUNDS

B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE

TABLE A.10

WATER QUALITY DATA - QUALITY ASSURANCE/QUALITY CONTROL DATA

PUENTE HILLS LANDFILL

CONSTITUENT/WELL NO.	UNITS	BLNK TRIP		BLNK TRIP		BLNK TRIP		BLNK TRIP		BLNK TRIP	
		12/09/99	12/10/99	12/10/99	12/10/99	12/15/99	12/15/99	12/15/99	12/16/99	12/16/99	12/30/99
ALLYL CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1
BROMOCHLOROMETHANE	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01
CHLOROPRENE	UG/L	<	1	<	1	<	1	<	1	<	1
1,2-DIBROMO-3-CHLOROPROPA	UG/L	<	0.01	<	0.01	<	0.01	<	0.01	<	0.01
T-1,4-DICHLORO-2-BUTENE	UG/L	<	1	<	1	<	1	<	1	<	1
1,3-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1
2,2-DICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1
1,1-DICHLOROPROPENE	UG/L	<	1	<	1	<	1	<	1	<	1
ISOBUTYL ALCOHOL	UG/L	<	1	<	1	<	1	<	1	<	1
METHACRYLONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYL IODIDE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYLENE BROMIDE	UG/L	<	1	<	1	<	1	<	1	<	1
PROPIONITRILE	UG/L	<	1	<	1	<	1	<	1	<	1
1,1,1,2-TETRACHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
1,2,3-TRICHLOROPROPANE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYL METHACRYLATE	UG/L	<	1	<	1	<	1	<	1	<	1
ETHYL METHACRYLATE	UG/L	<	1	<	1	<	1	<	1	<	1
METHYLENE CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROFORM	UG/L	<	1	<	1	<	1	<	1	<	1
1,1,1-TRICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
CARBON TETRACHLORIDE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
1,1-DICHLOROETHENE	UG/L	<	1	<	1	<	1	<	1	<	1
TRICHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
TETRACHLOROETHYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
BROMODICHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
DIBROMOCHLOROMETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
BROMOFORM	UG/L	<	1	<	1	<	1	<	1	<	1
CHLOROBENZENE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
VINYL CHLORIDE	UG/L	<	1	<	1	<	1	<	1	<	1
O-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1
M-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1
P-DICHLOROBENZENE	UG/L	<	1	<	1	<	1	<	1	<	1
1,1-DICHLOROETHANE	UG/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
1,1,2-TRICHLOROETHANE	UG/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
1,2-DICHLOROETHANE	UG/L	<	1	<	1	<	1	<	1	<	1
BENZENE	UG/L	<	1	<	1	<	1	<	1	<	1
TOLUENE	UG/L	<	1	<	1	<	1	<	1	<	1
ETHYL BENZENE	UG/L	<	1	<	1	<	1	<	1	<	1
VINYL ACETATE	UG/L	<	10	<	10	<	10	<	10	<	10
O-XYLENE	UG/L	<	1	<	1	<	1	<	1	<	1
TRANS-1,2-DICHLOROETHYLEN	UG/L	<	1	<	1	<	1	<	1	<	1

FOOTNOTES : A-DUPLICATE SPIKE F-DUP & SPIKE B-AVERAGE G-10% RULE EXCEEDED C-CALCULATED VALUE H-CHECK NOTES TO USER D-INTERFERENCE E-AVERAGE OF DUPS

**COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY**

**PUENTE HILLS LANDFILL
ORDER NOS. 93-062, 90-046, 93-070, AND 94-103
FILE NO. 57-220**

MONITORING AND REPORTING PROGRAM NOS. 2294 AND 7336

1999 EXCEL 97 FILE DIRECTORY

<u>FILE</u>	<u>CONTENTS</u>
991Q-T09.XLS	First Quarter 1999 Groundwater Monitoring Results
991Q-T10.XLS	First Quarter 1999 Groundwater Trip Blank Results
991Q-T11.XLS	First Quarter 1999 Reused Water Sample Results
991Q-T12.XLS	First Quarter 1999 Reused Water Trip Blank Results
991Q-T13.XLS	First Quarter 1999 LCRS Water Sample Results
991Q-T14.XLS	First Quarter 1999 LCRS Water Trip Blank Results
992Q-T09.XLS	Second Quarter 1999 Groundwater Monitoring Results
992Q-T10.XLS	Second Quarter 1999 Groundwater Trip Blank Results
992Q-T11.XLS	First Quarter 1999 Surface Runoff Sample Results
992Q-T12.XLS	First Quarter 1999 Surface Runoff Trip Blank Results
992Q-T13.XLS	Second Quarter 1999 Reused Water Sample Results
992Q-T14.XLS	Second Quarter 1999 Reused Water Trip Blank Results
992Q-T15.XLS	Second Quarter 1999 LCRS Water Sample Results
992Q-T16.XLS	Second Quarter 1999 LCRS Water Trip Blank Results
993Q-T09.XLS	Third Quarter 1999 Groundwater Monitoring Results
993Q-T10.XLS	Third Quarter 1999 Groundwater Trip Blank Results
993Q-T11.XLS	Third Quarter 1999 Reused Water Sample Results
993Q-T12.XLS	Third Quarter 1999 Reused Water Trip Blank Results
993Q-T13.XLS	Third Quarter 1999 LCRS Water Sample Results
993Q-T14.XLS	Third Quarter 1999 LCRS Water Trip Blank Results
994Q-T09.XLS	Fourth Quarter 1999 Groundwater Monitoring Results
994Q-T10.XLS	Fourth Quarter 1999 Groundwater Trip Blank Results
994Q-T11.XLS	Fourth Quarter 1999 Reused Water Sample Results
994Q-T12.XLS	Fourth Quarter 1999 Reused Water Trip Blank Results
994Q-T13.XLS	Fourth Quarter 1999 LCRS Water Sample Results
994Q-T14.XLS	Fourth Quarter 1999 LCRS Water Trip Blank Results