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DRAFT
Remedial Investigation Report

24 March 2005

Prepared for:

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Goodrich Corporation
Four Coliseum Centre
2730 West Tyvola Road
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24 March 2005

Mr. Wayne Praskins
United States Environmental Protection Agency
756 Hawthorne Street SFD 7-3
San Francisco, California 94105

VIA FEDERAL EXPRESS

Subject: Draft Remedial Investigation Report
160-Acre Parcel
Rialto, California

Dear Mr. Praskins:

On behalf of Goodrich Corporation and at the direction of Manatt, Phelps & Phillips, LLP, enclosed herewith please find the three (3) copies of the Draft Remedial Investigation (RI) Report. This Draft RI Report is submitted in response to the 14 July 2003 Administrative Order for Remedial Investigation (the Order) from the United States Environmental Protection Agency (USEPA), Region 9. For your convenience, one (1) copy of the Draft RI Report has been sent directly to Mr. David Towell of CH2M Hill.

If you have any questions regarding the Draft RI Report, please contact Mr. Bruce Amig at (704) 423-7071.

Sincerely,

Phuong Ly
Professional

Karen E. Arteaga, P.E.
Associate

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Copy to: Kurt Berchtold, Regional Water Quality Control Board, Santa Ana (2 copies)
David Towell, CH2MHill
Bruce Amig, Goodrich Corporation
Peter Duchesneau, Esq., Manatt, Phelps & Phillips, LLP (2 copies)
Jeffrey Dintzer, Gibson, Dunn, & Crutcher

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RECYCLED AND RECYCLABLE

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DRAFT REMEDIAL INVESTIGATION REPORT
160-ACRE PARCEL, RIALTO, CALIFORNIA

I certify that this document and all attachments presented in this report are accurate and complete. This report was prepared by the staff of GeoSyntec Consultants under my supervision to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who are directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

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LIST OF ACRONYMS
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APE-West	American Promotional Events – West
bgs	below ground surface
CDHS	California Department of Health Services
COC	constituents of concern
°F	degrees Fahrenheit
ft	feet
GeoSyntec	GeoSyntec Consultants
GLA	GeoLogic Associates
Goodrich	Goodrich Corporation
gpm	gallons per minute
IDW	investigation-derived waste
MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
ml	milliliter
MSL	Mean Sea Level
MVSL	Mid-Valley Sanitary Landfill
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NDMA	N-nitrosodimethylamine
ng/L	nanogram per liter
NTU	Nephelometric Turbidity Units
Order	14 July 2003 USEPA Administrative Order for Remedial Investigation
PCE	tetrachloroethene
PES	PES Environmental, Inc.
PID	photoionization detector
PRG	Preliminary Remediation Goal
PRP	potential responsible party
PVC	polyvinyl chloride
QA	Quality Assurance
QC	Quality Control
RCP	Rialto Concrete Products
RI	Remedial Investigation
RWQCB	Regional Water Quality Control Board, Santa Ana Region
Site	160-Acre Parcel, Rialto, California
TICs	tentatively identified compounds
TCE	trichloroethene

LIST OF ACRONYMS
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TOC	top of casing
ug/L	micrograms per liter
USA	Underground Service Alert
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VOA	volatile organic analysis
VOCs	volatile organic compounds
WCLC	West Coast Loading Corporation

Executive Summary

EXECUTIVE SUMMARY
Draft Remedial Investigation Report
160-Acre Parcel, Rialto, California

BACKGROUND

This Draft *Remedial Investigation Report* (RI Report) was prepared by GeoSyntec Consultants, Inc. (GeoSyntec), on behalf of the Goodrich Corporation (Goodrich), in response to the 14 July 2003 Administrative Order for Remedial Investigation (the Order) from the United States Environmental Protection Agency (USEPA), Region 9 [USEPA, 2003]. This RI Report addresses the area in Rialto, California, referred to by USEPA as the "160-Acre Parcel" (the Site). From the 1940s to the present, a number of entities, which are known or suspected to have handled and / or managed perchlorate or perchlorate-containing materials onsite. These potential responsible parties (PRPs) include, but are not limited to, the United States military, West Coast Loading Corporation [WCLC] / Kwikset Locks, Inc., B.F. Goodrich Company, Ensign-Bickford Company, Ordnance Associates, Pyrotronics Corporation, Pyro Spectaculars, Inc., and American Promotional Events – West (APE-West). The RI was conducted in accordance with the Final RI Work Plan dated 22 April 2004.[1]

PURPOSE OF THE REMEDIAL INVESTIGATION (RI)

Consistent with the requirements of 40 CFR Part 300, *et seq.,* National Oil and Hazardous Substances Pollution Contingency Plan (NCP), established by USEPA [USEPA, 1994], the purpose of this initial RI is to conduct a field investigation to initiate the collection of data necessary to adequately characterize the Site for the purpose of developing and evaluating effective remedial alternatives. The field investigation was conducted to assess exposure or potential exposure pathways and targets (i.e., soil gas, soil, and groundwater), physical characteristics of the Site, characteristics of the soil and groundwater, and the extent to which the source and

[1] The Draft RI Work Plan was approved in a 1 April 2004 letter issued by USEPA. Based on comments received in the 1 April 2004 approval letter, additional changes were made and a final version was issued on 22 April 2004. After additional discussions with USEPA, additional modifications were made and replacement pages were issued on 4 May 2004. Together, these constitute the Final RI Work Plan. Subsequent changes to the Final RI Work Plan were made in consultation with USEPA after the fieldwork commenced and were documented in a series of electronic mail messages with USEPA (19 May 2004, 3 June 2004, and 8 June 2004).

nature of the release or potential release can be adequately identified and characterized. In particular, as stated in the Order, the objectives of this initial phase of the remedial investigation are to: "(a) assess whether historical activities at the Site have resulted in a release or threatened release of hazardous substances, contaminants, or pollutants and (b) determine the nature and extent of contamination and any threat to human health or the environment caused by the release or threatened release of hazardous substances, pollutants, contaminants or solid wastes at or from the Site" [USEPA, 2003]. Constituents of concern (COCs), identified in both the Order and RI Work Plan, were evaluated. Additionally, measures were taken to promote worker health and safety, appropriate documentation of activities, compliance with permit requirements as applicable, and provision of information to USEPA as requested.

SCOPE OF WORK

To comply with the intent of the Order and the NCP, the following activities were conducted as part of the RI from May 2004 through January 2005:

- Soil Gas Investigation – Sampling of soil gas at 61 selected on-site locations to assess the extent of the potential presence of volatile organic compounds (VOCs);

- Soil Investigation – Sampling of soil at 8 selected on-site locations to evaluate the potential presence of COCs in soil;

- Groundwater Investigation – Drilling of 4 wellbores to a maximum depth of 650 feet below ground surface (ft bgs) at one upgradient and three downgradient / crossgradient locations, installation and sampling of 18 temporary wells, and installation of four permanent groundwater monitoring wells and three piezometers to identify the potential presence of COCs in groundwater and to provide information on groundwater conditions in the Site vicinity;

- Geological Investigation – Preparing wellbore logs and geophysical logs for each of the wellbores to assess the geological and hydrogeological conditions beneath the Site and immediate vicinity;

- Groundwater Monitoring – Monthly gauging of water levels in permanent groundwater monitoring wells and piezometers and sampling of monitoring wells[2] to evaluate hydrogeological conditions and the potential presence of COCs in groundwater;

- Data Analysis – Evaluating and summarizing soil gas, soil, and groundwater analytical data; and

- Reporting – Preparing this report to describe the field activities conducted in accordance with the NCP and the USEPA-approved RI Work Plan and to evaluate the results of the RI.

RESULTS

Constituents of Concern (COCs)

Based on the review of historical documents, a list of Site-specific COCs was identified by USEPA in the Order, and these chemicals subsequently were evaluated for their potential presence in soil gas, soil, and / or groundwater at / beneath the Site. Based on the results of the RI, the principal COCs detected at / beneath the Site are perchlorate and trichloroethene (TCE).

Soil Gas and Soil Investigations

With few exceptions, COCs identified in the Final RI Work Plan were not detected in soil gas or soil samples collected at the potential source areas identified by USEPA at the Site. Of the 61 soil gas sampling locations, TCE was detected at 3 locations within the suspected area of a former burn pit (Area C) at a maximum concentration of 1.7 micrograms per liter (ug/L); no VOCs were detected at the areas of the former research lab and small mixers (Area A), the former production mixers (Area B), or the suspected location of a second disposal pit identified by USEPA (Area D).

[2] Sampling events were conducted in October, November, and December 2004 and January 2005; upcoming sampling events are scheduled for April, July, and October 2005.

In accordance with the Final RI Work Plan, soil sampling subsequently was conducted to a maximum explored depth of 12 ft bgs at Areas C and D. Below is a summary of the analytical results.

- No TCE was detected in the soil samples.
- Trace to very low concentrations of other VOCs (e.g., acetone, naphthalene) were detected at both Areas.
- Perchlorate was detected at Area C at a maximum concentration of 0.63 milligrams per kilogram (mg/kg), which is significantly below the industrial Preliminary Remediation Goal (PRG) of 100 mg/kg, as established by the USEPA [USEPA, 2004]. Perchlorate was not detected at Area D.
- Nitrates and sulfates were detected in both Areas.
- 1,4-Dioxane was detected at trace concentrations in Area C.
- N-nitrosodimethylamine (NDMA), RDX, and chlorate were not detected in either Area.
- Metals were detected in both Areas at concentrations below the industrial PRGs and / or consistent with background levels in soils in California [Bradford, et al., 1996].

Groundwater Investigation

GeoLogic Associates (GLA) reports the presence of three laterally continuous aquifers within what the United States Geological Survey [Woolfenden and Kadhim, 1997; Woolfenden and Koczot, 2000] first identifies as the middle water-bearing unit [GLA, 1997 and 2003]. These laterally continuous aquifers include an upper, unconfined aquifer (A Zone), an intermediate, partially confined aquifer (B Zone), and a deep regional aquifer (C Zone). The C Zone provides much of the groundwater that is pumped in the area by municipal supply wells. The three aquifers are separated by aquitards that generally range in thickness from only a few feet to more

than 30 feet [GLA, 1997 and 2003]. First groundwater was encountered in wellbores PW-1 through PW-4 at approximate depths of 440 to 480 feet bgs. Since commencement of groundwater monitoring at the Site, groundwater levels have decreased by approximately 1 ft in the wells and piezometers over the four month period from October 2004 through January 2005 (Table 9, Figures 8 through 15).

GLA reports that the A Zone appears to be dewatered in the vicinity of the Mid-Valley Sanitary Landfill (directly southwest of the Site); therefore, it is assumed that the first water-bearing unit in the vicinity of the 160-Acre Parcel occurs within what GLA defines as the B Zone. The mid-point elevations of the monitoring wells screened in this Zone (wells PW-1 through PW-4) range from 1,591.81 to 1,684.48 feet above mean sea level (ft MSL). Piezometers PW-2A, PW-3A, and PW-4A appear to be installed and screened within the lower portion of the middle water-bearing unit, which corresponds to the C Zone as defined by GLA. Groundwater in the middle water-bearing unit appears to be flowing in a southeast direction (Figures 8 through 11). The groundwater contour maps (Figures 8 through 15) were prepared per the requirements of the Order. The draft groundwater contours and flow directions indicated in Figures 8 through 15 are based upon a very preliminary analysis of the initial data. There is a potential that the monitoring wells and piezometers are not completed in the same water-bearing zones; Figures 8 through 15 are considered draft and preliminary.

No perchlorate or TCE has been detected in the upgradient monitoring well PW-1; the maximum concentration of perchlorate detected in monitoring wells PW-2 through PW-4 was 0.073 milligrams per liter (mg/L); the maximum TCE concentration detected in monitoring wells PW-2 through PW-4 was 62 ug/L. Lower perchlorate and TCE concentrations were detected in monitoring well PW-4 in comparison to monitoring wells PW-2 and PW-3. In the lower portion of the middle water-bearing unit (defined by GLA as the C-Zone), perchlorate and TCE were detected only in temporary wells installed in wellbore PW-4.

CONCLUSIONS AND RECOMMENDATIONS

The objectives of the Order and the requirements of the NCP were addressed in this RI. Potential on-site source areas were evaluated. Soil gas and soil testing indicated very low concentrations of COCs. Downgradient groundwater analytical results for perchlorate and TCE may be indicative of a release from the Site. Additional work is recommended to further investigate the extent of the presence of these chemicals in the vicinity of the Site to collect additional data to adequately characterize the Site for the purpose of developing and evaluating effective remedial alternatives.

ONGOING WORK

In accordance with the Order and the Final RI Work Plan, monthly gauging of the monitoring wells and piezometers will continue through October 2005. Sampling of the groundwater monitoring wells will be conducted in April, July, and October 2005. Results of these events will be reported to USEPA in the required monthly progress reports.

Report

1 INTRODUCTION

1.1 Terms of Reference

This Draft *Remedial Investigation Report* (RI Report) was prepared by GeoSyntec Consultants, Inc. (GeoSyntec), on behalf of the Goodrich Corporation (Goodrich), in response to the 14 July 2003 Administrative Order for Remedial Investigation (the Order) from the United States Environmental Protection Agency (USEPA), Region 9 [USEPA, 2003]. The Order was addressed to Goodrich and Emhart Industries Inc.[1] The RI was conducted in accordance with the Final RI Work Plan dated 22 April 2004.[2]

This RI Report addresses the area in Rialto, California, referred to by USEPA as the "160-Acre Parcel" (the Site). From the 1940s to the present, a number of entities, which are known or suspected to have handled and / or managed perchlorate or perchlorate-containing materials onsite. These potential responsible parties (PRPs) include, but are not limited to, the United States military, West Coast Loading Corporation [WCLC] / Kwikset Locks, Inc., B.F. Goodrich Company, Ensign-Bickford Company, Ordnance Associates, Pyrotronics Corporation, Pyro Spectaculars, Inc., and American Promotional Events – West (APE-West).

This RI Report was prepared by Phuong Ly and reviewed by Walt Grinyer, P.G., and Karen Arteaga, P.E., of GeoSyntec, in accordance with the peer review policy of the firm.

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[1] Emhart Industries Inc. has not complied with the Order and did not participate in this Remedial Investigation.

[2] The Draft RI Work Plan was approved in a 1 April 2004 letter issued by USEPA. Based on comments received in the 1 April 2004 approval letter, additional changes were made and a final version was issued on 22 April 2004. After additional discussions with USEPA, additional modifications were made and replacement pages were issued on 4 May 2004. Together, these constitute the Final RI Work Plan. Subsequent changes to the Final RI Work Plan were made in consultation with USEPA after the fieldwork commenced and were documented in a series of electronic mail messages with USEPA (19 May 2004, 3 June 2004, and 8 June 2004).

1.2 Purpose of the Remedial Investigation (RI)

Consistent with the requirements of 40 CFR Part 300, *et seq.*, National Oil and Hazardous Substances Pollution Contingency Plan (NCP), established by USEPA [USEPA, 1994], the purpose of this initial RI is to conduct a field investigation to initiate the collection of data necessary to adequately characterize the Site for the purpose of developing and evaluating effective remedial alternatives. The field investigation was conducted to assess exposure or potential exposure pathways and targets (i.e., soil gas, soil, and groundwater), physical characteristics of the Site, characteristics of the soil and groundwater, and the extent to which the source and nature of the release or potential release can be adequately identified and characterized. In particular, as stated in the Order, the objectives of this initial phase of the remedial investigation are to: "(a) assess whether historical activities at the Site have resulted in a release or threatened release of hazardous substances, contaminants, or pollutants and (b) determine the nature and extent of contamination and any threat to human health or the environment caused by the release or threatened release of hazardous substances, pollutants, contaminants or solid wastes at or from the Site" [USEPA, 2003]. Constituents of concern (COCs), identified in both the Order and RI Work Plan, were evaluated. Additionally, measures were taken to promote worker health and safety, appropriate documentation of activities, compliance with permit requirements as applicable, and provision of information to USEPA as requested.

1.3 Scope of Work

To comply with the intent of the Order and the NCP, the following activities were conducted as part of the RI from May 2004 through January 2005:

- Soil Gas Investigation – Sampling of soil gas at 61 selected on-site locations to assess the extent of the potential presence of volatile organic compounds (VOCs);

- Soil Investigation – Sampling of soil at 8 selected on-site locations to evaluate the potential presence of COCs in soil;

- Groundwater Investigation – Drilling of 4 wellbores to a maximum depth of 650 feet below ground surface (ft bgs) at one upgradient and three

downgradient / crossgradient locations, installation and sampling of 18 temporary wells, and installation of four permanent groundwater monitoring wells and three piezometers to identify the potential presence of COCs in groundwater and to provide information on groundwater conditions in the Site vicinity;

- Geological Investigation – Preparing wellbore logs and geophysical logs for each of the wellbores to assess the geological and hydrogeological conditions beneath the Site and immediate vicinity;

- Groundwater Monitoring – Periodic gauging of water levels in permanent groundwater monitoring wells and piezometers and sampling of monitoring wells[3] to evaluate hydrogeological conditions and the potential presence of COCs in groundwater;

- Data Analysis – Evaluating and summarizing soil gas, soil, and groundwater analytical data; and

- Reporting – Preparing this report to describe the field activities conducted in accordance with the NCP and the USEPA-approved RI Work Plan and to evaluate the results of the RI.

1.4 Remedial Investigation (RI) Report Organization

This RI Report is organized as follows, with figures, data tables, and appendices supporting the text:

- Section 1, *Introduction*, which includes the purpose and scope of work for this RI, a brief Site description, historical background, and a discussion of previous soil and groundwater investigations onsite or in the Site vicinity;

[3] Sampling events were conducted in October, November, and December 2004 and January 2005; upcoming sampling events are scheduled for April, July, and October 2005.

- Section 2, *Study Area Investigation*, which describes overall Site features, potential source areas, and the field activities conducted as part of the soil gas, soil, and groundwater investigations;

- Section 3, *Physical Characteristics of the Study Area*, in which the physical aspects of the Site are described, including surface features, meteorology, geology, hydrogeology, demography, and ecology;

- Section 4, *Nature and Extent of Chemicals*, which discusses the nature and extent of COCs (if any) detected in soil gas, soil, and groundwater at or beneath the Site, based on the results of the RI;

- Section 5, *Conclusions and Recommendations*, which presents a summary of the findings of the RI, conclusions, and recommendations;

- Section 6, *References*, in which a list of the materials referenced in the RI Report is provided;

- Appendix A, *Remedial Investigation Boring Logs*, which contains boring logs from wellbores PW-1 through PW-4;

- Appendix B, *Borehole Geophysical Logs*, which includes copies of the gamma ray and / or dual induction logs generated for wellbores PW-1 through PW-4;

- Appendix C, *Well Construction Diagrams*, which contains well construction diagrams for monitoring wells PW-1 through PW-4 and piezometers PW-2A through PW-4A;

- Appendix D, *Well Development Logs*, which provides field records for development of the 18 temporary wells, the permanent groundwater monitoring wells PW-1 through PW-4, and piezometers PW-2A through PW-4A;

- Appendix E, *Monitoring Well Purge Logs*, which provides field records for purging of the permanent groundwater monitoring wells PW-1 through PW-4 during the October 2004 through January 2005 monitoring events;

- Appendix F, *Laboratory Data Reports – Soil Gas Investigation*, which includes the laboratory data reports generated by the on-site mobile laboratory during the soil gas sampling activities;

- Appendix G, *Laboratory Data Reports – Soil Investigation*, which includes the laboratory data reports generated from the soil sampling activities conducted at the Site;

- Appendix H, *Laboratory Data Reports – Temporary Groundwater Well Investigation*, which provides the laboratory data reports generated during the temporary well installation and sampling activities;

- Appendix I, *Laboratory Data Reports – Permanent Groundwater Well Investigation*, which provides the laboratory data reports generated during the monthly groundwater sampling events (October 2004 through January 2005);

- Appendix J, *Laboratory Data Reports – Soil Physical Properties,* which provides the data regarding grain size analysis, hydraulic conductivity and other physical data for soil samples collected during drilling of the wellbores; and

- Appendix K, *Data Validation Reports,* which have been provided previously to USEPA and were prepared to evaluate the validity of data generated during the soil gas, soil, and groundwater investigations conducted at the Site.

1.5 Site Background

1.5.1 Site Description

The 160-acre Site is located in the southwest quadrant of Section 21, Township 1 North, and Range 5 West, of the United States Geological Survey (USGS), 7.5 minute series "Devore, California" quadrangle map (1956, photo revised 1980).

The Site is square-shaped and bounded by West Casa Grande Drive on the north, Locust Avenue on the east, the extension of Alder Avenue on the west, and the extension of Summit Avenue on the south in the City of Rialto, San Bernardino County, California (Figure 1). As shown in Figure 2, various buildings and other structures are located throughout the Site and several roadways run through the Site, including West Lowell Street and other unimproved roads. The Site is subdivided into smaller parcels (Figure 2), and there currently are at least 12 property owners within the 160 acres.

Portions of the Site currently are used for commercial and / or industrial purposes, while other areas are open space or vacant. Current on-site activities include the following (Figure 2):

- American Promotional Events – West (APE-West), 3196 North Locust Avenue (Parcel Nos. 14 and 18): Occupying the northern portion of the Site, APE-West imports, stores, and distributes fireworks and pyrotechnic materials [Locus Technologies, 2004].

- Pyro Spectaculars, 3196 North Locust Avenue (Parcel Nos. 16 and 17): Occupying the northern portion of the Site, Pyro Spectaculars is a pyrotechnics company that develops and produces fireworks displays for large, public events [Locus Technologies, 2004].

- Rialto Concrete Products (RCP), 2250 West Lowell Street (Parcel Nos. 5, 19, and 20): Occupying the central and southwestern portion of the Site, RCP manufactures concrete pipes, including sewer pipes, storm drain pipes, and other large-diameter pipes [Marsh, 2001].

- B & B Plastic Recycling Inc., 3040 North Locust Avenue (Parcel No. 13): Occupying the eastern-central portion of the Site, B & B Plastic Recycling Inc. is a facility that appears to warehouse plastic materials for recycling.

1.5.2 Site History

The Site was originally part of the approximately 2,000-acre Rialto Ammunition Storage Point, which was used by the United States military during World War II for the storage and transport of ordnance and explosives. After the military's tenure, the Site was owned and occupied by WCLC from approximately 1952 through 1957. As reported in the Order, WCLC activities at the Site included the loading, assembly, and testing of munitions with perchlorate for the United States Army and United States Navy (Paragraph 12 of the Order). On 1 July 1957, WCLC merged into Kwikset Locks, Inc., and sold the Site to Goodrich on or about 19 July 1957 (Paragraph 13 of the Order). From approximately 1957 to 1963, Goodrich operated at the Site. Goodrich sold the Site in 1966. The Order alleges that Goodrich's operations included grinding oxidizers, mixing propellants, pouring propellant into motor casings, and static-firing of solid propellant rocket motors (Paragraph 19 of the Order). The Order also alleges that various chemicals were used during WCLC's and Goodrich's on-site operations, potentially including perchlorate, metals, and some VOCs (Paragraphs 15 through 21 of the Order). To date, information regarding former Site activities has been obtained from WCLC / Kwikset Locks, Inc. and Goodrich documents, which have been provided to the USEPA.

After Goodrich's departure from the Site, various defense contractors, fireworks and pyrotechnic companies have operated on portions of the Site, including Ensign-Bickford Company, Ordnance Associates, Pyrotronics Corporation, Pyro Spectaculars, Inc., and APE-West. These operations are known to have involved or are suspected to have involved the use of perchlorate and / or perchlorate-containing materials.

Over the past 60 years since the United States military's departure, other nearby parcels in the Site's vicinity also are known or suspected to have operations involving perchlorate or perchlorate-containing materials, including but not limited to Atlas Fireworks, Celebrity Fireworks, Broco, Inc., Broco Environmental, Inc., Denova Environmental, Whittaker Corporation, American Explosives Company, AMEX Products, Inc., Tasker Industries, General Dynamics, Zambelli Fireworks Manufacturing (also known as Zambelli Fireworks Internationale), The Marquardt Corporation, Trojan Fireworks, and Astro Pyrotechnics. Additionally, immediately southwest of the 160-Acre Parcel is the Mid-Valley Sanitary Landfill (MVSL), which is a 487-acre Class III municipal solid waste management facility owned and operated by

the County of San Bernardino since 1958. The MVSL has expanded over the former location of explosive storage bunkers used by the United States military and subsequently by private entities and over areas where some of the above-referenced operations formerly occurred (e.g., Broco, Inc., Celebrity Fireworks, Atlas Fireworks). Other entities in the area, such as the MVSL, are also known sources of other constituents, including the VOC trichloroethene (TCE).

1.5.3 Previous Investigations

1.5.3.1 Overview of On-Site Soil Investigations

Limited soil data are available regarding the 160-Acre Parcel. Soil investigations have been conducted at the northern portion of the Site (address of 3196 North Locust Avenue), which is occupied by APE-West and Pyro Spectaculars. The Below are summaries of available documentation regarding previous and ongoing investigations at the Site (Figure 3).

1.5.3.2 APE-West Facility, 3196 North Locust Avenue

In March 2003, PES Environmental, Inc. (PES), excavated 15 trenches to depths between 2 and 8 ft bgs at areas where fireworks formerly were stored and handled. Soil samples were collected from the trenches and analyzed for perchlorate and / or VOCs. PES reported that no VOCs were detected in the soil samples and that perchlorate was detected only in one trench (T14) at concentrations of 2.9 milligrams per kilogram (mg/kg) at 2 ft bgs and 0.29 mg/kg at 8 ft bgs. Trench T14 reportedly was located adjacent to an area where "off spec" fireworks formerly were burned [PES, 2003].

In December 2003, PES further excavated soils adjacent to trench T14 to assess the lateral and vertical extent of perchlorate in that area [PES, 2004]. This new trench, T16, was excavated to a depth of 8.5 ft bgs. Eight primary soil samples and one duplicate sample were collected at depths of 2 and 8 ft bgs at four locations within trench T16 and analyzed for perchlorate. Perchlorate was detected in four soil samples at concentrations ranging between 0.079 mg/kg (8 ft bgs) and 0.49 mg/kg (2 ft bgs) [PES, 2004].

1.5.3.3 Pyro Spectaculars, Inc., Facility, 3196 North Locust Avenue

In November 2003, three exploratory trenches were excavated to depths of 10 ft bgs and drilled one soil boring to a depth of 50 ft bgs, under the direction of Kleinfelder [Kleinfelder, 2003]. The trenches were located adjacent to current and former storage areas of pyrotechnical equipment. Soil samples were collected at 1, 5, and 10 ft bgs from each of the trenches and at 10-ft depth intervals beginning at 5 ft bgs in the soil boring. Soil samples were analyzed for perchlorate and VOCs. Perchlorate was not detected in the soil samples, and VOCs, specifically 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, xylenes, and naphthalene, were detected in 4 of the 9 trench samples at concentrations below the laboratory reporting limit. Investigation-derived waste (IDW) was reported to be disposed onsite.

1.5.3.4 Wong Chung Ming Property, 3196 North Locust Avenue

In March 2004, soil sampling was conducted by Locus Technologies on behalf of Mr. Wong Chung Ming, the owner of the northern portion of the Site (3196 North Locust Avenue), in accordance with a work plan approved by the RWQCB [Shaw Environmental, 2003]. The investigation consisted of sampling 11 locations throughout the Pyro Spectaculars and APE-West facilities, specifically areas adjacent to clarifier outfalls and one location adjacent to a disposal pile that contained discarded pyrotechnic packaging materials and miscellaneous refuse and debris. At each sampling location, a backhoe was used to excavate exploratory trenches to depths of approximately 15 ft bgs, and soil samples generally were collected from the surface and at depths of 5, 10, and 15 ft bgs. The soil samples were analyzed for perchlorate, VOCs, and / or metals. After sampling, each test pit was backfilled with the excavated materials. Locus Technologies reported that no VOCs or perchlorate were detected in the soil samples and that metals concentrations reportedly were below their respective Preliminary Remediation Goals (PRGs), as established by the USEPA [Locus Technologies, 2004].

1.5.3.5 Rialto Concrete Products, Inc. (RCP), 2250 West Lowell Street

In a 6 February 2004 letter, the RWQCB requested Ken Thompson Inc., the owner of the RCP property, to conduct a soil and groundwater investigation of the area of an alleged former burn pit, which was utilized historically by Pyro Spectaculars, Goodrich, Pyrotronics, Apollo Fireworks, and other former Site occupants [RWQCB, 2004b, 2004e, and 2004f]. The alleged former burn pit is located on the RCP property at the western-central portion of the 160-Acre Parcel. The alleged former burn pit area is the same as the suspected area of the former burn pit investigated as part of this RI (Section 2.2). A work plan was submitted by Pyro Spectaculars for a soil investigation of the alleged former burn pit area, and the work plan was conditionally approved by the RWQCB on 8 April 2004 [RWQCB, 2004g]. A letter was issued by the RWQCB to Pyro Spectaculars on 2 September 2004 directing them to implement the work plan and to submit a report of the soil investigation by 2 November 2004 [RWQCB, 2004i]. No additional information is available to date regarding the status of Pyro Spectacular's investigation of the alleged former burn pit area.

1.5.3.6 Groundwater Investigations in the Site Vicinity

There are previous and ongoing soil and groundwater investigations being conducted on behalf of the County of San Bernardino in association with the MVSL, which is located immediately southwest of the 160-Acre Parcel. Groundwater monitoring at the MVSL began in 1987 with the installation of five groundwater monitoring wells [GeoLogic Associates (GLA), 2003]. A number of chemicals of concern were detected in groundwater below the MVSL. Since then, a series of groundwater investigations have been conducted and a total of approximately 48 monitoring wells and piezometers have been installed to a maximum distance of approximately 2 miles downgradient (i.e., southeast) of the MVSL. The County of San Bernardino also has installed and operates a remediation system to remove VOCs via a series of extraction wells [GLA, 2003]. The two most dominant chemicals of concern detected in groundwater include perchlorate and TCE, with maximum concentrations of 1,000 micrograms per liter (ug/L) (monitoring well N-3 in October 2002) and 440 ug/L (monitoring well N-5 in November 2002), respectively, in the vicinity of the former Bunker Area (northeast portion of the MVSL) [GLA, 2003].

2 STUDY AREA INVESTIGATION

2.1 Site Features

The 160-Acre Parcel is subdivided into smaller parcels (Figure 2), and there currently are at least 12 property owners within the 160 acres. Various buildings and other structures are located throughout the Site. Portions of the Site are currently used for commercial and / or industrial purposes, while other areas are open space or vacant.

2.2 Overview of Potential Source Areas

From the 1940s to present day, numerous on-site operations of a number of PRPs have occurred, which have been confirmed or are suspected to have involved the handling and / or management of perchlorate or perchlorate-containing materials (Section 1.5.2). The RWQCB has issued directives to several of these PRPs to conduct a records investigation of their previous on-site activities and / or to conduct subsurface investigation(s) at the Site [RWQCB, 2005].

Available documentation concerning the former Goodrich operations at the Site has been provided to USEPA. The locations of some of the features of interest, including a former burn pit, a former research lab and area of small mixers, and a former production mixer area, were ascertained from aerial photographs and from statements provided by former B.F. Goodrich Company employees.

Other features (e.g., a second disposal pit, drum storage areas) were identified by USEPA after the issuance of the Order from aerial photographs dated 1960, 1965, 1966, and 1969 (Figure 6). These features generally were located within Areas C and D (identified below) and to the extent possible, these features were investigated as part of the RI.

In accordance with the RI Work Plan, soil gas sampling was conducted at four specific Site areas, designated as Areas A through D (Figures 2, 5, and 6). These are locations where VOCs, perchlorate, and other hazardous substances allegedly were used or disposed, including:

- Area A – The research lab and small mixers;
- Area B – The production mixer area;
- Area C – The suspected location of a former burn pit; and
- Area D – The suspected location of a second disposal pit.

A soil gas survey (Section 2.5) was conducted to evaluate the potential presence of VOCs. Further evaluation of the potential presence of VOCs and perchlorate in soil was conducted subsequent to the soil gas survey (Section 2.6).

Groundwater monitoring wells and piezometers were installed within or adjacent to the boundary of the Site at one upgradient location and three downgradient / crossgradient locations (Figures 2 and 4, Section 2.7).

2.3 Surface-Water and Sediment Investigation

There are no surface water bodies present onsite or located adjacent to the Site. A surface water and sediment investigation was not conducted as part of this RI.

2.4 Geological Investigation

Based on boring logs generated from the soil and groundwater investigations, shallow soils at the Site (above an approximate depth of 100 ft bgs) consisted predominantly of well-graded gravels and sand. Beginning at approximately 100 ft bgs, soils consisting of interbedded and interlensing alluvial sequences of gravels, sands, silts, and clay were encountered to total depth (between 510.5 and 650 ft bgs) in well bores PW-1 through PW-4 (refer to Appendix A for boring logs, Appendix B for borehole geophysical logs). Regional, local, and site-related geologic and hydrogeologic conditions, as evaluated in this RI, are discussed further in Sections 3.4 through 3.6.

2.5 Soil Gas Investigation

2.5.1 General

From 18 May through 4 June 2004, soil gas sampling was conducted at Areas A through D (Figures 2, 5, and 6). The soil borings were advanced using direct-push drilling techniques, performed by PCR Mobile Laboratories of Vista, California, under the oversight of GeoSyntec. Surface concrete coring was conducted by Melroy Concrete of Redondo Beach, California, when necessary. Prior to soil gas sampling, Underground Service Alert (USA) was contacted to identify the presence of underground utility lines, if any, in the general area planned for sampling. Additionally, a geophysical survey was conducted by Spectrum Geophysics of San Fernando, California, at each of the soil boring locations to evaluate the potential existence of subsurface utility lines or other underground obstructions.

Soil borings at Areas A through C were advanced to total depths of 12 ft bgs (Figures 2, 5, and 6). However, refusal was encountered at certain locations and exceptions to total borehole depths are noted below:

- Area A – Borings SG-RL-04 (6 ft bgs), SG-RL-05 (10 ft bgs), SG-RL-06 (6 ft bgs) and SG-RL-14 (9 ft bgs);
- Area B – Borings SG-PM-03 (9 ft bgs), SG-PM-04 (10 ft bgs), SG-PM-05 (10 ft bgs), SG-PM-11 (10 ft bgs) and SG-PM-12 (10 ft bgs); and
- Area C – Boring SG-BP-01 (10 ft bgs).

At Areas A through C, soil gas samples were collected at 6 ft bgs and at the total depth of each boring. During each day of soil gas sampling, an ambient air sample also was collected for VOC analysis (Section 2.5.3).

Soil gas samples at Area D were collected from 17 locations at depths of 5 ft bgs. During the field investigation, the area of investigation was expanded (Figure 6) based on the recommendation of USEPA and a review of the 1965 and 1966 aerial photographs provided by USEPA.

Some sampling locations were adjusted due to surface or underground obstructions, and additional soil gas sampling locations were added when necessary, based on field observations. In some instances, when refusal was encountered at a shallow depth, another borehole was advanced at a location within several feet of the original boring location and these borings were designated with an "A" after the original boring ID, such as SG-PM-05A. Below is a summary of the number of soil gas sampling locations and soil gas samples collected at Areas A through D (Figures 2, 5, and 6):

- Area A – 18 sampling locations (SG-RL-01 through SG-RL-18) and 34 samples collected;
- Area B – 12 sampling locations (SG-PM-01 through SG-PM-12, SG-PM-05A, and SG-PM-12A) and 22 samples collected;
- Area C – 14 sampling locations (SG-BP-01 through SG-BP-14 and SG-BP-02A) and 28 samples collected; and
- Area D – 17 sampling locations (SG-SD-02 through SG-SD-18) and 17 samples collected.

In summary, 101 primary soil gas samples, 12 duplicate samples, and 13 ambient air samples were collected for analysis (Section 2.5.3).

2.5.2 Soil Gas Sampling Procedures

Soil borings for soil gas sampling were advanced using direct push drilling techniques (i.e., hydraulically hammering a 1.25-inch diameter soil gas probe to the desired sampling depth). A modified tip, referred to as a stinger, was attached to the lead probe to allow for soil gas sampling at the bottom of the borehole. Soil gas samples were collected from the tip through tubing running inside the probes. The tubing was inspected after its removal to confirm that it had not been damaged during boring advancement. After reaching the desired sampling depth with the stinger, hydrated bentonite chips were placed around the soil gas probe at ground surface to create a seal. Soil gas samples then were collected after subsurface conditions had been allowed to equilibrate for a minimum of 20 minutes.

Shaving cream, containing a tracer compound (isobutane), was applied around the base of the probe, where the sample tubing exited, to assess the integrity of the bentonite seal around the probe. The soil gas sample was collected in a 125-milliliter glass bulb by withdrawing soil gas from a valve placed on the end of the tubing exiting the probe at ground surface. The soil gas samples were directly handed, under standard chain-of-custody documentation, to the on-site mobile laboratory within 5 minutes of their collection.

A purge test was conducted at the first soil gas sampling location to establish the appropriate purge volume for the remaining soil gas samples. Based on the results of the purge test, subsequent temporary soil gas probes were purged for three well volumes (i.e., combined volume of the bulb and tubing) at each sampling depth prior to sample collection. Non-dedicated sampling equipment was decontaminated between soil gas sampling locations and depths (Section 2.7.8).

After completion of soil gas sampling, each boring was backfilled with bentonite chips, which subsequently were hydrated with water. The surface was finished with a rapid-set concrete, when necessary. Disposal of IDW, such as decontamination fluids, were conducted in accordance to the RI Work Plan.

2.5.3 Soil Gas Analytical Program

Soil gas samples, duplicate samples, and ambient air samples were collected and directly handed, under standard chain-of-custody documentation, to an on-site mobile laboratory, Centrum Analytical of Riverside, California, for VOC analysis by USEPA Method 5030/8260B. The results of the soil gas investigation are discussed in Section 4.3 and presented in Table 1.

2.6 Soil Investigation

2.6.1 General

Based on the results of the soil gas investigation, soil borings RIA-01 through RIA-08 were advanced on 9 June 2004 at Area C and at Area D, after

consultation with USEPA (Figures 2 and 6). At USEPA's request, soil boring SB-BP-10 was advanced at Area C on 3 June 2004 for soil logging purposes only (refer to Section 2.4 for a discussion on soils encountered during drilling). Similar to the soil gas investigation, the soil borings were advanced by PCR Mobile Laboratories, under the oversight of GeoSyntec, using direct-push drilling techniques. Surface concrete coring was conducted when necessary. Prior to soil sampling, USA was contacted to identify underground utility lines that may be located in the areas where sampling was planned. Additionally, a geophysical survey was conducted by Spectrum Geophysics at each of the soil boring locations to evaluate the potential existence of subsurface utility lines or other underground obstructions.

At Area C, soil borings RIA-01 through RIA-04 were advanced to total depths of approximately 12 ft bgs directly adjacent to soil gas locations SG-BP-09, SG-BP-10, and SG-BP-13 (Figure 6), where low levels of TCE were detected in soil gas samples (Table 1, Figure 16). Boring locations RIA-01 through RIA-04 were approved by the USEPA via electronic mail on 8 June 2004, prior to soil sampling. Soil samples were collected at approximate depths of 6 to 8 ft bgs and 10 to 12 ft bgs in each boring. In accordance with USEPA's request, as stated in the 8 June 2004 electronic mail message, soil samples to be analyzed for perchlorate and VOCs were collected from the "dark brown and / or odorous and / or elevated PID [photoionization detector] interval noted on the SB-BP-10 boring log." Dark brown materials were observed at approximately 6 ft bgs in borings RIA-01, RIA-02, and RIA-04.

As discussed in Section 2.5.1, USEPA expanded the extent of investigation at Area D during the soil gas investigation due to information obtained from historical aerial photographs provided by USEPA. Since VOCs were not detected in the soil gas samples collected at Area D, proposed soil borings locations (RIA-05 through RIA-08) were revised in order to better characterize the entire expanded Area D (Figure 6). Final soil sampling locations at Area D were approved by USEPA in the 8 June 2004 electronic mail message. In accordance with the RI Work Plan, soil samples were collected at a depth of 5 ft bgs in each boring.

2.6.2 Soil Sampling Procedures

Borings for soil sampling were advanced using direct-push drilling techniques. A stainless steel piston-type (1.5-inch diameter, 2-ft length) sampling probe

lined with an acetate sleeve was advanced hydraulically into the ground to the desired sampling depth. After reaching the desired sampling depth, the piston was released and soil was driven into the acetate sleeve as the sampling probe was driven into the ground. The RI Work Plan stated that soil samples would be collected in stainless steel sleeves; however, the stainless steel sleeves were unnecessary because the acetate sleeves were able to retrieve the desired quantity of soil and each acetate sleeve was new and dedicated for each sampling depth.

Following retrieval of the soil sample, the sampling probe was removed from the borehole. The acetate sleeve was cut to isolate the selected portion of soil desired for analysis. The ends of the selected sleeve were covered with Teflon™ sheets and fitted with plastic end caps. The RI Work Plan stated that soil samples would be collected in EnCore™ samplers for VOC analysis; however, due to the presence of gravels in the subsurface, it was difficult to retain soil materials in the EnCore™ samplers. As a result, the EnCore™ sampler was not used, but USEPA Method 5035 was utilized by splitting and preserving the soil sample in three 40-milliliter (ml) volatile organic analysis (VOA) bottles containing 5 milliliters (ml) of methanol (one VOA bottle) and 5 ml of sodium hydroxide (2 VOA bottles). After the three VOA bottles were filled with the soil sample, each VOA bottle was capped, labeled, and placed into a plastic bag. The soil samples were then placed temporarily in a cooler containing double-bagged ice and submitted under standard chain-of-custody documentation to the laboratory for analysis (Section 2.6.3).

After completion of the borehole, each soil boring was backfilled with bentonite chips, which subsequently were hydrated with water. The surface was finished with a rapid-set concrete, when necessary. Disposal of IDW, such as decontamination fluids, were conducted in accordance to the RI Work Plan.

During drilling and sampling, a PID was used to monitor both the ambient breathing space and the soil headspace. A small portion of the soil retrieved in each acetate sleeve was placed into a clean plastic bag and sealed. After several minutes, the PID tip was inserted through the bag and the maximum PID value measured in the headspace was recorded in the daily field report. Samples used for PID screening were not used for laboratory analysis and were disposed appropriately.

2.6.3 Soil Analytical Program

Twelve soil samples collected from Areas C and D were submitted to a State-certified analytical laboratory, Del Mar Analytical of Irvine, California, and analyzed for the following parameters using the indicated analytical methods:

- USEPA Methods 6010B or 6020 for metals, including aluminum, arsenic, boron, barium, cerium, chromium, cobalt, copper, lead, lithium, magnesium, manganese, nickel, potassium, sodium, strontium, vanadium, zinc, and zirconium;
- USEPA Method 7199 for hexavalent chromium;
- USEPA Method 314.0 Modified for perchlorate;
- USEPA Method 300.0 for sulfate and nitrate;
- USEPA Method 300.0 Modified for chlorate;
- USEPA Methods 5035 / 8260B for VOCs, including Tentatively Identified Compounds (TICs);
- USEPA Method 8330 for RDX;
- USEPA Method 8270 SIM for N-Nitrosodimethylamine (NDMA); and
- USEPA Method 8260B Modified for 1,4-dioxane.

Section 4.4 discusses the analytical results of the soil investigation.

2.7 Groundwater Investigation

2.7.1 General

From 17 May 2004 through 18 September 2004, four wellbores were drilled by WDC Exploration & Wells of Montclair, California, under the supervision of

GeoSyntec. Groundwater monitoring wells were installed in each of the wellbores and appear to be screened in the middle water-bearing unit or what is defined by GLA as the B Zone (Section 3.6.2), including one upgradient location (PW-1) and three downgradient / crossgradient locations (PW-2 through PW-4) (Figures 2 and 4).

Due to refusal that was encountered at approximately 118 ft bgs in the original wellbore PW-1, the wellbore was re-drilled approximately 20 ft west of the original boring location (Figure 2). USEPA approval was obtained prior to re-drilling wellbore PW-1 (Section 2.7.9.2). The upgradient monitoring well PW-1 subsequently was installed along the southern right-of-way of West Casa Grande Drive, approximately 320 ft west of the intersection of West Casa Grande Drive and North Alder Avenue.

The downgradient / crossgradient monitoring well locations (Figures 2 and 4) are as follows:

- Wellbore PW-2: Approximately 1,500 ft west of the intersection of West Lowell Street and North Locust Avenue along the southern right-of-way of West Lowell Street;

- Wellbore PW-3: Approximately 450 ft south of the intersection of West Lowell Street and North Locust Avenue along the eastern right-of-way of North Locust Avenue; and

- Wellbore PW-4: Approximately 300 ft north of the intersection of West Lowell Street and North Locust Avenue along the eastern right-of-way of North Locust Avenue.

Based on the analytical results of groundwater samples collected from temporary wells installed in wellbores PW-2, PW-3, and PW-4, piezometers appear to be installed and screened in the lower portion of the middle water-bearing unit, which corresponds to the C Zone as defined by GLA (Section 3.6.1). Piezometers PW-2A, PW-3A, and PW-4A were installed in the same wellbores as monitoring wells PW-2, PW-3, and PW-4, respectively (Appendix C). During installation of piezometer PW-2A, the piezometer was damaged and a replacement piezometer was installed in October 2004 in a separate wellbore drilled approximately 20 ft west of the original PW-2 wellbore location (Section 2.7.9.6).

Locations of the monitoring wells, including replacement piezometer PW-2A, were surveyed by a State-licensed land surveyor on 9 November 2004 (Table 8).

2.7.2 Wellbore Drilling

Prior to the drilling of each wellbore, USA was contacted to identify underground utility lines potentially located in the general vicinity of the proposed wellbore locations. Additionally, a geophysical survey was conducted by Spectrum Geophysics at each wellbore location to evaluate the potential existence of subsurface utility lines or other underground obstructions. The upper 8 ft of each wellbore were air-knifed as a further precaution to avoid drilling through potential underground utility lines.

The wellbores were drilled using air-rotary casing hammer (ARCH) techniques to total depths between 510.5 ft bgs and 650 ft bgs. The ARCH drilling method returned drill cuttings to the surface by a continuously-circulating air current that was introduced at the base of the boring through the interior drill rods and the tricone drill bit. Drill cuttings circulated to the surface through the drive casing, exited through a cyclone, and were collected in a hopper. Samples of drill cuttings from the cyclone were collected and logged at 5-ft depth intervals using the Unified Soil Classification System (USCS) and were noted in the boring log with other field observations, including drilling progress, water injection into the wellbore, occurrence of groundwater, soil and groundwater sample collection details, and unusual conditions encountered during the drilling (Appendix A). When the hopper was filled, the drill cuttings were transferred into on-site roll-off bins for temporary storage and disposal offsite.

Wellbore stability was maintained by pneumatically driving and telescoping 13 $^{3}/_{8}$-inch, 11 ¾-inch, and 9 $^{5}/_{8}$-inch diameter steel drive casings along with and following just behind the advancing drill bit, whose diameter also decreased with decreasing diameter drive casing. The final depths of the wellbores were dependent on the analytical results of groundwater samples collected from the temporary wells installed during the advancement of each boring (Section 2.7.9.4) and also on wellbore stability. The steel casings not only served to reduce the risk for wellbore cave-in, but

also reduced the potential for vertical cross-contamination within and between the water-bearing units.

As discussed earlier, difficult drilling conditions were encountered in the original wellbore PW-1. As a result, 16-inch diameter drive casing was used in the re-drilled location of wellbore PW-1 from surface to an approximate depth of 59 ft bgs. Then, 13 $^{3}/_{8}$-inch diameter casing was advanced through the 16-inch diameter casing to a depth of approximately 200 ft bgs. In the remaining wellbores, 13 $^{3}/_{8}$-inch diameter casing was advanced from ground surface to a depth of approximately 200 ft bgs. The 11 ¾-inch diameter casing was telescoped inside the 13 $^{3}/_{8}$-inch casing to total depths of 477 ft bgs (PW-1), 595 ft bgs (PW-2), 500 ft bgs (PW-3), and 499 ft bgs (PW-4). Then the 9 $^{5}/_{8}$-inch casing was telescoped through the 11 ¾-inch diameter casing to depth.

Water was injected downhole during drilling to reduce dust generation from the cyclone and to promote continuous removal of drill cuttings. As a result, headspace readings were not obtained during drilling since the drill cuttings were continuously moist to wet due to water injection. At approximately 400 ft bgs in each wellbore, water injection was terminated, so that the occurrence of groundwater could be observed. After reaching the depth at which a temporary well was desired to be installed, water again was injected downhole to stabilize the wellbore. Water used during drilling generally was supplied from nearby municipal hydrants (Section 2.7.9.3). Water samples were collected from the hydrants and analyzed for various parameters prior to and during usage (Table 7).

2.7.3 Installation and Sampling of Temporary Wells

Groundwater samples were collected from each wellbore during drilling using temporary wells constructed of 2-inch diameter Schedule 80 polyvinyl chloride (PVC) riser pipe with Schedule 80 PVC, 0.020-inch slotted screen intervals of 5- or 10-ft lengths. New PVC casing was designated for each wellbore and a new bottom cap, screened section, and bottom blank sections of PVC casing were used at each sampling depth. The riser pipe was decontaminated between groundwater sampling depths within each wellbore. Temporary wells generally were screened at the following depths:

- When groundwater was first encountered in the wellbore;

- Approximately 50 feet after first groundwater was encountered; and

- Approximately every 25 feet thereafter to the termination of the boring, based on analytical results and with approval of USEPA.

When drilling reached within an approximate depth of 20 feet above the anticipated first groundwater, the wellbore was allowed to equilibrate for approximately 30 minutes to assess the presence of groundwater. If groundwater had not entered the wellbore at that time and depth, the same procedures for equilibration were repeated at subsequent 10-ft intervals until groundwater was encountered.

After reaching the desired sampling depth, the drill bit was used to "open borehole" drill below the drive casing at least 10 ft to assess whether a water-producing zone had been encountered. If water was produced, a temporary well casing was inserted through the drive casing to expose the screen interval at the desired sampling depth. A commercial sand filter pack (#3 sand) was poured through the drive casing and extended from approximately 1 ft below the well screen to 2 ft above the well screen, and a transition sand (generally #2/16 sand) extended approximately 2 ft above the filter pack. A bentonite seal (typically, medium bentonite chips), at least 1 ft thick, was placed above the filter pack to create a seal between the drive casing and the temporary well (Appendix C). A tape measure was placed downhole to evaluate the thickness and uniformity of the filter pack sand and bentonite seal and to check that bridging had not occurred during temporary well construction. Since the bentonite seal was placed within the drive casing, the bentonite seal reduced the potential for groundwater mixing between hydrostratigraphic intervals.

Prior to development of each temporary well, static water levels were measured and recorded to the nearest 0.01 ft using an electronic sounding device. Temporary wells constructed in each of the wellbores were bailed as part of development after fully constructing the temporary wells. The RI Work Plan stated that temporary wells were to be developed by surging after installation of the sand pack and prior to placement of the bentonite seal. However, in the field, surging was not conducted in order to avoid inadvertently pulling up the temporary well. Instead, the temporary wells were developed using a 1.25-inch diameter, 20-ft length, Schedule 40 PVC bailer. The PVC bailer was decontaminated between each temporary well.

At a minimum, one temporary-well-plus-filter-pack volume was removed prior to sampling. Field measurements of water quality parameters (i.e., temperature, pH, conductivity, and turbidity) were recorded periodically during purging using a Horiba U-10 or U-22 (Appendix D). The RI Work Plan stated that a turbidity value of 20 NTU would be targeted prior to groundwater sampling. However, since development was conducted using a bailer, turbidity values remained above 999 Nephelometric Turbidity Units (NTU) (i.e., the upper limit of the measuring device), and sampling was conducted after stabilization of temperature, pH, and conductivity. Groundwater samples were collected using new, disposable polyethylene bailers (one bailer per sample). Unfiltered groundwater samples were transferred into laboratory-supplied and certified clean sampling containers.

Eighteen groundwater samples and three duplicate samples were collected from the 18 temporary wells and analyzed for perchlorate by USEPA Method 314.0 and for VOCs by USEPA Method 5030B/8260B, as indicator compounds (Table 5). Groundwater samples collected from temporary wells at wellbore PW-1 and in the upper four temporary wells installed in wellbore PW-2 also were analyzed for NDMA by USEPA Method 1625C Modified. With the approval of USEPA, subsequent groundwater samples collected from temporary wells installed in the wellbores were not analyzed for NDMA due to issues encountered with the quality control (QC) samples (Section 2.7.9.3). Section 4.5.2 discusses the temporary well sampling results.

The groundwater sample containers were labeled and placed in separate sealable plastic bags. The samples were stored temporarily in a cooled ice chest, and transported to the laboratory by courier with standard chain-of-custody documentation.

An equipment blank sample was collected each day of groundwater sampling and analyzed for the same parameters as the primary groundwater sample (Table 7). In accordance to the RI Work Plan, equipment blank samples typically were collected by filling decontaminated field equipment (e.g., a new, disposable sampling bailer) with laboratory-supplied water or distilled water and placing that water into the proper sampling container after contact with the field equipment.

One trip blank sample was included in each shipping container used to transport the groundwater and equipment blank samples to the laboratory. The trip blank samples were submitted for VOC analysis by USEPA 5030B/8260B (Table 7).

Termination of each wellbore was based on the analytical results of the samples collected from the temporary wells. The RI Work Plan stated that permanent wells would be installed after two consecutive results for perchlorate, NDMA, and VOCs were detected below the laboratory reporting limit. However, after consultation with USEPA, wellbores PW-2 through PW-4 were terminated after a trend of decreasing or generally steady concentrations of target analytes was observed (Section 2.7.9.4). Wellbore PW-1 was terminated after results from two consecutive temporary well samples were non-detect for perchlorate and VOCs (Table 5).

2.7.4 Permanent Monitoring Well Construction

After termination of drilling, interior drill rods and drill bit were removed from the wellbore, and the total depth of the wellbore was measured using a weighted measuring tape to confirm that the wellbore had not collapsed or caved. A permanent monitoring well subsequently was installed in each boring, with the approval of USEPA. The placement of the screen within the wellbore (Table 8, Appendix C) was dependent on several factors: (i) the zone with the most elevated chemical concentrations (based on the analytical results of the groundwater samples collected from the temporary wells), (ii) the request of USEPA to screen wells within each water-bearing unit at similar elevations to facilitate comparisons among wells, and (iii) specific observations made during drilling of each wellbore.

As specified in the RI Work Plan, the permanent monitoring wells were constructed in accordance with California Well Standards (established by the Department of Water Resources) using a 4-inch diameter Schedule 80 PVC riser pipe with a 40-ft Schedule 80 PVC, 0.020-inch slotted well screen. The exception was the upper 60 feet of monitoring well PW-3, which was constructed of Schedule 40 stainless steel to maintain the integrity of the well during installation, specifically during installation of the cement slurry (Section 2.7.9.6). Well materials were new, factory-decontaminated materials. Screen and well casings were flush-threaded, and a bottom cap was installed at the base of each well. Due to fine-grained materials observed in groundwater purged from temporary wells, a 5-ft sump was installed as part of monitoring wells PW-2 through PW-4 (Appendix C). Centralizers were used to promote proper positioning of the well screen in the wellbore, as shown on the well construction diagrams (Appendix C).

The RI Work Plan stated that the sand pack would be installed from 1 ft below to 3 ft above the well screen using tremie placement techniques. However, an adjustment was made in the field to have the filter sand pack extend from approximately 3 ft below the well screen to a minimum of 3 ft above the well screen (Appendix C). Generally, the sand pack was constructed by pouring the sand through the drive casing. An approximate 3-ft layer of fine-grained transition sand then was placed above the sand pack. Above the fine-grained transition sand layer was a minimum 10-ft thick, hydrated, granular bentonite seal (chips or pellets). Bentonite slurry or grout was placed above the bentonite seal by pumping from the surface through the drive casing to fill the remainder of the well annulus. During well construction, a tape measure was placed downhole to evaluate the thickness and uniformity of the filter pack sand and bentonite seal and to confirm that no bridging occurred during well construction activities. The surface was completed with concrete and a flush-mounted, traffic-grade well box was installed. The individual well casings were secured with lockable caps.

2.7.5 Piezometer Construction

Piezometers PW-2A through PW-4A appear to be installed in the lower portion of the middle water-bearing unit, as defined as the C Zone by GLA (Section 3.6.1). The piezometers were installed within the same wellbores as monitoring wells PW-2 through PW-4, respectively (Appendix C). Prior to installation, well screen intervals of the piezometers were established in consultation with USEPA. Similar to the permanent monitoring wells, a filter sand pack extended from approximately 3 ft below the well screen to a minimum of 3 ft above the well screen. Generally, the sand pack was constructed by pouring the sand through the drive casing. An approximate 3-ft layer of fine-grained transition sand then was placed above the sand pack. To separate the sand packs of the monitoring well and the piezometer inside the same wellbore, an approximate 60-ft layer of cement slurry (containing 5 percent bentonite) sandwiched between two approximate 10-ft layers of hydrated bentonite chips were installed between the sand packs of the monitoring well and piezometer (Appendix C).

After installation of the piezometer PW-2A (constructed of 2-inch diameter, Schedule 80 PVC casing), it was discovered that the piezometer had been damaged during construction and was unusable. From 7 through 16 October 2004, a replacement piezometer was installed approximately 20 feet west of the damaged PW-2A piezometer (Section 2.7.9.6). The replacement piezometer PW-2A was installed in a

new wellbore and constructed of 4-inch diameter, Schedule 80 PVC with a 0.020-inch, slotted screen interval similar to the original PW-2A piezometer (i.e., from approximately 622 to 642 ft bgs) (Appendix C).

Piezometer PW-3A was constructed of 2-inch diameter, Schedule 40 carbon steel. A 20-ft, stainless steel wire wrap screen (0.020-inch slot openings) was used (Appendix C). During development of piezometer PW-3A, it was discovered that the piezometer had been damaged during installation, and filter pack sand was found within the casing at a top depth of 606 ft bgs. With approval from USEPA, repair of piezometer PW-3A was attempted on 27 January 2005 by placing a modified, 1-inch diameter Barcad pump and a 1-inch diameter Schedule 80 PVC riser pipe within the 2-inch diameter piezometer. Repair activities were unsuccessful at repairing the piezometer (Section 2.7.9.7).

Piezometer PW-4A was constructed of 2-inch diameter, Schedule 40 carbon steel. A 10-ft, carbon steel, 0.020-inch slotted screen was used (Appendix C).

2.7.6 Permanent Monitoring Well and Piezometer Development

A minimum of 24 hours after well installation, the monitoring wells and piezometers were developed (Appendix D). Prior to development, static water level and total well depth were measured using an electronic sounding device. Monitoring wells were developed first by surging the screen interval with a surge block to draw fine-grained materials into the filter pack and well casing. Then the fine-grained material in the well casing was removed using a stainless steel bailer. The well was then purged with a submersible electric pump. Field measurements of water quality parameters (i.e., temperature, pH, conductivity, and turbidity) were recorded periodically during development using a Horiba U-10 or U-22. The wells were judged satisfactorily developed when water quality parameters stabilized (i.e., after three consecutive field measurements of +/- 1 degree in temperature, +/- 0.1 pH units, +/- 3 % conductivity). A turbidity value of 20 NTU was targeted, and final turbidity values in wells PW-2 through PW-4 were approximately 20 NTU (Appendix D).

Piezometers PW-2A and PW-4A were developed by first surging the screen interval with a surge block and using a stainless steel bailer to remove fine-grained materials in the well casing. A submersible electric pump could not be used to purge

the piezometers due to their total depths. An attempt was made to airlift groundwater from piezometer PW-4A, but due to the slow recharge of water in this water-bearing unit, fine-grained materials could be removed only by bailing. During development of piezometer PW-3A, it was discovered that the piezometer had been damaged during installation and thus, could not be developed (Section 2.7.9.7).

Field measurements of water quality parameters (i.e., temperature, pH, conductivity, and turbidity) were recorded periodically during development of the piezometers using a Horiba U-10 or U-22 (Appendix D). Turbidity could not be significantly reduced using a bailer, and final turbidity values exceeded 999 NTU (i.e., upper limit of the monitoring instrument). The piezometers were judged satisfactorily developed when water quality parameters stabilized (i.e., after three consecutive field measurements of +/- 1 degree in temperature, +/- 0.1 pH units, +/- 3 % conductivity).

2.7.7 Groundwater Monitoring and Sampling Program

Groundwater monitoring wells PW-1 through PW-4 were sampled monthly for the first three months following the completion of development activities at the four wells (i.e., October through December 2004). Thereafter, the sampling frequency changed to quarterly for four quarters (i.e., January 2005, April 2005, July 2005, and October 2005), after which the necessity and frequency of the quarterly monitoring activities will be revisited with USEPA based on the data collected as of that time. Section 4.5.3 discusses the results of groundwater monitoring conducted from October 2004 through January 2005.

Prior to groundwater sampling, static water levels were measured and recorded to the nearest 0.01 feet using an electronic sounding device. Sampling / purging equipment was decontaminated prior to use at each well. Wells were purged using electric submersible pumps at a maximum purging flow rate of approximately 4 gallons per minute (gpm). Field measurements of water quality parameters (i.e., temperature, pH, conductivity, and turbidity) were recorded periodically during purging using a Horiba U-10 or U-22. After a minimum of three well volumes were removed, purging was considered complete when three consecutive field parameter measurements at ¼-well volume intervals (e.g., at 3.0, 3.25, and 3.5 well volumes) had stabilized (i.e., +/- 1 degree in temperature, +/- 0.1 pH units, +/- 3 % conductivity, +/- 10 % turbidity). Double check-valve bailers were used for sampling

the wells. Unfiltered groundwater samples were transferred into laboratory-supplied and certified clean sampling containers. Each sample container was labeled and placed in a separate sealable plastic bag. The samples were stored temporarily in a cooled ice chest, and transported to the laboratory by courier with standard chain-of-custody documentation.

Groundwater samples collected from wells PW-1 through PW-4 during the first monthly monitoring event (October 2004) were analyzed for the following (Tables 10 through 12):

- USEPA Methods 6010B or 6020 for metals, including aluminum, arsenic, boron, barium, calcium, cerium, chromium, cobalt, copper, iron, lead, lithium, magnesium, manganese, nickel, potassium, sodium, vanadium, zinc, and zirconium;
- USEPA Method 7199 for hexavalent chromium;
- USEPA Method 314.0 for perchlorate;
- USEPA Method 300.1 for chlorate;
- USEPA Method 300.0 for sulfate, nitrate, chloride;
- USEPA Method 376.2 for sulfide;
- Method SM 4500-NH_3, F for ammonia-N;
- USEPA Method 160.1 for total dissolved solids (TDS);
- USEPA Method 150.1 / 9040 for pH;
- USEPA Method 2340B for hardness;
- USEPA Method 2320B for alkalinity;

- USEPA Method 5030B/8260B for VOCs, including Tentatively Identified Compounds (TICs);
- USEPA Method 8330A for RDX;
- USEPA Method 1625C Modified for NDMA; and
- USEPA Method 8270C Modified for 1,4-dioxane.

During the second monthly monitoring event (November 2004), groundwater samples collected from wells PW-1 through PW-4 were analyzed for VOCs, dissolved metals, hexavalent chromium, NDMA, perchlorate, and general chemistry (Tables 10 through 12). Groundwater samples collected during the third monthly monitoring event (December 2004) were analyzed for VOCs, NDMA, and perchlorate (Table 10).

After consultation with and approval from USEPA, groundwater samples collected during the first quarterly monitoring event (January 2005) were analyzed for VOCs, dissolved metals, hexavalent chromium, perchlorate, and general chemistry (Tables 10 through 12).

Equipment blank samples were collected each day of monthly and quarterly groundwater sampling and analyzed for the same parameters as the primary groundwater samples, with the exception of general chemistry parameters (Table 13). A trip blank sample was included with each cooler used for each day of sampling and analyzed for VOCs (Table 14).

2.7.8 Decontamination and Waste Handling

Non-dedicated sampling equipment was decontaminated both before and after samples were collected. The equipment was decontaminated using first a solution of decontamination detergent (e.g., Alconox) and water, then a potable water rinse, and finally a distilled water rinse. Drilling equipment was decontaminated prior to and between drilling at each wellbore location by steam cleaning or high-pressure hot water cleaning. Purging equipment and temporary well construction materials were decontaminated between each sampling depth by high-pressure hot water cleaning.

Vehicles and other heavy equipment operated during the field investigation also were cleaned using high-pressure hot water between each wellbore drilling location. At each wellbore location, a bermed, visqueen-covered area was designated for decontamination activities, and waste water generated was pumped into a roll-off bin for temporary storage and off-site disposal.

IDW (i.e., drill cuttings, decontamination wastes, and purge water) were stored in D.O.T. approved containers, specifically roll-off bins. Samples of IDW were collected from each roll-off bin and analyzed for total petroleum hydrocarbons (TPH) full carbon chain, VOCs, perchlorate, and Title 22 metals to evaluate the appropriate method for disposal. The IDW generated as part of field activities was disposed under non-hazardous waste manifests. The roll-off bins containing the IDW were transported offsite by Haz Mat Trans, Inc. of San Bernardino, California, and delivered to an appropriate licensed facility for disposal.

2.7.9 Remedial Investigation (RI) Work Plan Modifications

2.7.9.1 General

Due to unexpected field conditions, some modifications to the RI Work Plan were made. These modifications were communicated to and approved by USEPA. Below is a summary of the modifications to the RI Work Plan.

2.7.9.2 Drilling of Wellbore PW-1

Wellbore PW-1 was re-drilled approximately 20 ft west of the original boring location due to refusal that was encountered at approximately 118 ft bgs in the original wellbore. USEPA approval was obtained prior to re-drilling wellbore PW-1. The original wellbore was backfilled with bentonite slurry and the surface was finished with concrete. The second wellbore was identified as PW-1A (but referred to as "PW-1" throughout this RI report), and a larger diameter drive casing (16-inch diameter) initially was driven in this wellbore to a total depth of 59 ft bgs to assist in reaching the desired total depth. Once the boring was terminated, monitoring well PW-1A was renamed as PW-1, as noted in the boring log (Appendix A), to keep the well nomenclature consistent with the remaining monitoring wells that were installed.

2.7.9.3 N-Nitrosodimethylamine (NDMA) Analysis

Prior to drilling wellbore PW-1, a water sample (Hydrant-1) was collected from the nearby hydrant planned as the water source for drilling of wellbore PW-1. Water sample Hydrant-1 was analyzed for VOCs and perchlorate; results were non-detect for both analytes (Table 7). During drilling of wellbore PW-1 using the hydrant water was used. NDMA (maximum concentration of 5 nanograms per liter [ng/L]) was detected in the temporary well samples (Table 5) collected from the wellbore and in associated equipment blank samples (maximum concentration of 14 ug/L) (Table 7). Due to these NDMA detections, several additional analyses were conducted to ascertain the source of the NDMA. One source was identified to be water supplied by the laboratory for use in preparing the blank samples; that water had a concentration of 14,000 ng/L (based on trip blank sample PW-30-06-11, collected on 11 June 2004) (Table 7).

After discovery of this issue with the laboratory-supplied water, the laboratory began supplying NDMA-free water for use during equipment blank sampling. Drilling at location PW-2 began, again using local hydrant water. The hydrant used as the water source for drilling of wellbore PW-2 was sampled and analyzed for perchlorate, VOCs, and NDMA. A maximum NDMA concentration of 32 ng/L was detected in water sample Hydrant-PW2-3 (Table 7). As a result of these issues related to NDMA detections, approximately 6,000 gallons of deionized water, supplied by US Filter of Los Angeles, California, was transported to the Site on 18 June 2004 and stored in a certified-clean container provided by Rain for Rent of Bakersfield, California. Prior to the delivery of the deionized water from US Filter, a sample of the deionized water (RO/DI Water) was collected at the US Filter facility and analyzed for NDMA. NDMA was detected in sample RO/DI Water at a concentration of 6.8 ng/L (Table 7). Subsequent drilling activities at wellbore PW-2 were conducted using the deionized water supplied by US Filter.

As a result of NDMA detections in available water for use on this project, including hydrant water, imported deionized water, and laboratory-supplied water, USEPA approval was obtained on 22 June 2004 for discontinuation of NDMA analysis in subsequent groundwater samples collected from the temporary wells and associated QC samples. Thereafter, water supplied by nearby hydrants was used for wellbores

PW-3 and PW-4, instead of imported deionized water. NDMA was re-instated as an analyte once permanent wells were installed and the monthly groundwater monitoring activities began (Section 2.7.7).

2.7.9.4 Termination of Wellbores PW-2, PW-3, and PW-4

Termination of each wellbore was based on the analytical results of the samples collected from the temporary wells. In accordance with the Order, the RI Work Plan had stated that permanent wells would be installed after two consecutive results for perchlorate, NDMA, and VOCs were detected below the laboratory reporting limit. However, after consultation with USEPA, wellbores PW-2 through PW-4 were terminated after a trend of decreasing or generally steady concentrations of target analytes was observed. Monitoring well PW-1 was terminated after results from two consecutive temporary well samples were non-detect for perchlorate and VOCs (Table 5).

2.7.9.5 Mud Rotary Drilling of Wellbore PW-4

Wellbore PW-4 was drilled using ARCH drilling techniques. On 31 August 2004, the total depth of the wellbore was approximately 649 ft bgs, and the bottom of the drive casing (9 $^5/_8$-inch diameter) was at an approximate depth of 646 ft bgs. Due the sands and gravels that had heaved into the drive casing to a top depth of 641 ft bgs, piezometer PW-4 was installed to a depth of 641 ft bgs. Procedures commenced for construction of the filter pack, bentonite seal and other materials around the piezometer. During construction of the bentonite seal, a drilling equipment malfunction caused the bentonite chips to bridge inside the 9 $^5/_8$-inch diameter drive casing. As a result, the entire PW-4A piezometer was removed from the wellbore, and the bottom of the drive casing was at approximately 607 ft bgs. While re-advancing the 9 $^5/_8$-inch diameter drive casing, refusal was encountered at an approximate depth of 617 ft bgs, and the tricone drill bit was lost downhole.

With approval from USEPA, mud rotary drilling techniques were employed to re-drill the wellbore to the desired total depth (i.e., 649 ft bgs) and re-install the permanent monitoring well and piezometer. After reaching a total depth of 650 ft bgs using mud rotary drilling techniques, procedures commenced for installation of

piezometer PW-4A. After installation of the cement slurry seal (placed between the screens of the monitoring well and piezometer), it was discovered the cement slurry had not set up at the proper depth and instead, it had set up inside the 9 $^5/_8$-inch diameter drive casing, which caused the piezometer to rise out of the wellbore as the drive casing was being jacked up and removed from the wellbore. Therefore, the monitoring well, piezometer, and the 9 $^5/_8$-inch diameter drive casing were removed from the wellbore, with the bottom of the drive casing (11 ¾-inch diameter) at an approximate bottom depth of 499 ft bgs. Mud rotary drilling techniques again were employed, and the permanent well and piezometer were installed in the wellbore at total depths of 515 and 648 ft bgs, respectively (Appendix C).

2.7.9.6 Replacement of Piezometer PW-2A

After installation of piezometer PW-2A in the same wellbore as monitoring well PW-2, an obstruction was encountered in the piezometer. Using a downhole camera, it was discovered on 15 July 2004 that the piezometer (constructed of 2-inch diameter PVC casing) had melted at an approximate depth of 40 ft bgs, which appeared to be related to the heat generated during curing of the cement slurry pumped downhole as part of well construction activities. With approval from USEPA, a replacement piezometer was installed from 7 through 16 October 2004 in a separate wellbore drilled approximately 20 ft west of the original wellbore location. The replacement PW-2A piezometer was constructed of 4-inch diameter, Schedule 80 PVC with a 0.020-inch, Schedule 80 PVC slotted screen interval similar to the original PW-2A piezometer (i.e. from approximately 622 to 642 ft bgs) (Appendix C).

2.7.9.7 Piezometer PW-3A Repair Activities

During development of piezometer PW-3A, it was discovered on 5 August 2004 that the piezometer had been damaged during installation. Filter pack sand was found within the casing at a top depth of 606 ft bgs. With approval from USEPA on 9 December 2004, repair of piezometer PW-3A was attempted on 27 January 2005 by placing a modified, 1-inch diameter Barcad pump and a 1-inch diameter Schedule 80 PVC riser pipe within the 2-inch diameter piezometer. The Barcad pump was modified to act as a permanent replacement "screen" within the screen interval of the damaged piezometer. The piston was removed from inside the

Barcad pump, a cone was attached to bottom of the pump, holes were drilled into the Barcad pump and attached cone to allow for water jetting during installation, and a metal screen (60 microns) lined the inside of the pump.

As part of the repair activities, water (supplied by the nearby hydrant) was pumped through the riser pipe and modified Barcad pump to entrain the filter pack sand upward and allow for insertion of the pump to the desired depth of 625 ft bgs. As water was pumped through the riser pipe and Barcad pump, water was observed flowing out of the top of the piezometer, and the Barcad pump could not be inserted below the depth of 606 ft bgs. Field observations suggest that the well casing separated or broke apart at a depth of 606 ft bgs, and the offset in the separated casings may be too small for insertion of 1-inch diameter equipment. On 28 January 2005, a 0.75-inch diameter steel pipe attached to 1-inch diameter Schedule 40 PVC riser pipe was inserted into the piezometer to assess the diameter of the offset between the separated well casings. The 0.75-inch diameter steel pipe could not be inserted below 606 ft bgs and thus, from the field observations, it appears that the piezometer may be damaged beyond repair. Additionally, water levels may no longer be measured in the piezometer. The integrity of the piezometer will be evaluated further in consultation with USEPA.

3 PHYSICAL CHARACTERISTICS OF THE STUDY AREA

3.1 Surface Features

According to the United States Geological Survey (USGS), 7.5 minute series "Devore, California" quadrangle (1956, photo revised 1980), the elevation of the Site gently slopes to the southeast from approximately 1,700 ft to 1,610 ft above mean sea level (MSL) (Figure 1). Some of the on-site parcels are paved and covered with buildings, while other areas are unpaved and covered with native vegetation.

The MVSL is located immediately southwest of the Site; adjacent properties to the north, east, west, and south are either undeveloped or developed with industrial facilities or residential buildings. The Site is bounded by the San Gabriel Mountains to the north, the Lytle Creek Wash and Cajon Creek Wash to the northeast, and the alluvial plains of the Upper Santa Ana Valley to the south. An extension of State Freeway Route 210 is under construction approximately 0.5 mile south of the Site. Interstate Freeway I-15 is located approximately 1.5 miles northwest of the Site and Interstate Freeway I-215 is located approximately 3 miles northeast of the Site (Figure 1). The Rialto Municipal Airport is located approximately 1.5 miles south-southeast of the Site (Figure 1).

3.2 Meteorology

San Bernardino County has a Mediterranean climate with hot summers and mild, "wet" winters. Rainfall generally occurs during the winter months (November through April) and average rainfall is approximately 16 inches per year. The average minimum temperature in the winter is approximately 40 degrees Fahrenheit (°F) and average maximum temperature in the summer is approximately 96°F [Western Regional Climate Center, 2000].

3.3 Surface-Water Hydrology

No surface water bodies are located onsite. The nearest surface water body is Lytle Creek Wash, approximately one mile northeast of the Site.

3.4 Regional Geology and Hydrogeology

The Site is located within the northwest portion of the Rialto-Colton groundwater basin (Figure 4). Groundwater flow in the Basin is controlled by several barriers and faults, some of which delineate the boundaries of the basin. The Rialto-Colton Basin extends from Barrier J, which is the located on the northwest, to the Santa Ana River on the southeast. On the northeast, the basin is bounded by the San Jacinto Fault, which separates the Lytle and Bunker Hill groundwater basins. To the southwest is the Rialto-Colton Fault, which separates the Rialto-Colton Basin from the Chino groundwater basin [GLA, 2003].

There is evidence that groundwater recharge in the northwest portion of the Rialto-Colton Basin is almost exclusively by leakage through Barrier J with a minor contribution from infiltration [Dutcher and Garrett, 1963]. Recent work by USGS indicates that significant underflow may occur across the northern portions of the San Jacinto Fault where it is coincident with Lytle Creek [Woolfenden and Kadhim, 1997; Woolfenden and Koczot, 2000]. Southwest of this area, underflow across the San Jacinto Fault (Barrier E) appears to be relatively limited. On the west side of the Rialto-Colton Basin, the northern portion of the Rialto-Colton Fault impedes groundwater flow. Leakage appears to occur in the southeastern portion of Rialto-Colton Basin into the adjacent Chino Basin where the Rialto-Colton Fault crosses the Santa Ana River. Groundwater in the Rialto-Colton Basin occurs within alluvial sediments. Groundwater flow in the northern central portion of the Basin flows to the south and southeast [GLA, 2003].

The USGS identified four hydrostatic units in the Rialto-Colton Basin: river-channel deposits, and the upper, middle, and lower water-bearing units [Woolfenden and Kadhim, 1997; Woolfenden and Koczot, 2000]. The river-channel deposits and upper water-bearing unit are saturated only in areas adjacent to water courses (e.g., Lytle Creek and the Santa Ana River). As reported by Woolfenden and Kadhim, the upper water-bearing unit is highly permeable and freely allows infiltration of precipitation, streamflow, and artificially recharged imported water, which percolates into the water table [Woolfenden and Kadhim, 1997]. The middle water-bearing unit, which comprises the uppermost aquifer beneath the site, is areally extensive throughout the Rialto-Colton basin and primarily consists of coarse to medium sand and interbedded silt and clay. "The middle water-bearing unit ranges in thickness from

about 240 to 600 ft and is thickest in the northwestern part of the basin south of Barrier J" [Woolfenden and Kadhim, 1997]. The lower-water bearing unit also is areally extensive throughout the basin, consisting mainly of interbedded sand and clay, and ranges in thickness from 100 ft (southeastern portion of the basin) to 400 ft in other parts of the basin [Woolfenden and Kadhim, 1997]. The middle water-bearing unit yields abundant groundwater, while the lower water-bearing unit yields smaller volumes.

An unnamed fault is located adjacent to the eastearn boundary of the Site. "The unnamed fault is a partial barrier to groundwater movement in the middle water-bearing unit and an effective barrier in the lower water-bearing unit" [Woolfenden and Kadhim, 1997].

3.5 Local Geology and Hydrogeology

GLA reports the presence of three laterally continuous aquifers within what USGS first identifies as the middle water-bearing unit [GLA, 1997 and 2003]. These laterally continuous aquifers include an upper, unconfined aquifer (A Zone), an intermediate, partially confined aquifer (B Zone), and a deep regional aquifer (C Zone). The C Zone provides much of the groundwater that is pumped in the area by municipal supply wells. The three aquifers are separated by aquitards that generally range in thickness from only a few feet to more than 30 feet [GLA, 1997 and 2003].

While the A Zone had a saturated thickness of approximately 15 to 35 ft between 1996 and 1998, regional drought conditions have resulted in dewatering of this Zone [GLA, 1997 and 2003]. GLA reported that the saturated thickness of the B Zone is approximately 40 to 140 ft in the vicinity of the MVSL. The B Zone consists of a number of small water-bearing units separated by relatively thin aquitards. A downward hydraulic gradient occurs between vertical subunits that comprise the B Zone. The C Zone is estimated to be up to 150 ft thick in the vicinity of the MVSL. GLA reports that the B and C Zones are separated in the vicinity of the MVSL by a thick clay aquitard [GLA, 1997 and 2003]. The groundwater elevations between the B and C Zones differ by greater than 100 ft, suggesting that this aquitard is a competent barrier to vertical flow between these two zones in the vicinity of the MVSL [GLA, 1997 and 2003].

3.6 Site-Related Geologic and Hydrogeologic Conditions

3.6.1 Physical Geology

Ten soil samples were collected while drilling wellbores PW-1 through PW-4 to evaluate soil properties, including total porosity, vertical and horizontal hydraulic conductivity, total and fraction organic carbon, and grain size distribution (Appendix J). These soil samples were collected between depths of 486 and 601.5 ft bgs. Table 6 presents the results of laboratory analyses performed on the soil samples collected.

The hydraulic conductivity values measured from the soil samples collected provide a qualitative comparison of hydraulic conductivity between different vertical horizons at different well locations. However, values of hydraulic conductivity measured in the laboratory from small soil samples from the water-bearing zones may not be sufficiently reliable to be used for estimating groundwater velocity or chemical travel time in an aquifer.

Dual induction geophysical logs were collected for wellbores PW-1 and PW-2 after monitoring well construction. Due to the presence of steel well casings, gamma ray geophysical logs were collected for wellbores PW-3 and PW-4 (Appendix B). Based on soil cuttings from each of the wellbores (Appendix A), physical properties of soil samples (Table 6), and the interpretation of the geophysical logs (Appendix B), fine-grained materials were observed at depths between 540 ft bgs and 600 ft bgs. With the additional information from the temporary wells, including water levels (Table 4) and water chemistry (Appendix D), it appears that temporary wells screened below 600 ft bgs generally were installed within the lower portion of the middle-water bearing unit. Piezometers PW-2A, PW-3A, and PW-4A also appear to be installed and screened within the lower portion of the middle water-bearing unit, which may correspond to the C Zone as defined by GLA (Table 8, Appendix C). However, based on geophysical logs, soil cuttings, and groundwater elevations, there is a potential that some of the temporary wells and permanent piezometers may have been installed in the lower water-bearing unit.

General chemistry data were collected from permanent monitoring wells (PW-1 through PW-4) screened in the aquifer that correlates to GLA's B Zone. These data include alkalinity as carbonate (CaCO3), sulfate, chloride, magnesium, calcium, sodium, potassium, total dissolved solids, and pH. The general chemistry results of groundwater samples collected from monitoring wells PW-1 through PW-3 (Tables 11 and 12), are similar to those reported in the nearby USGS monitoring wells screened within the middle water-bearing unit (i.e., 1N/5W-21K3, 1N/5W-21K4 and 1N/5W-28J2, Figure 7).

3.6.2 Groundwater Elevations and Flow Direction

GLA reports that the A Zone appears to be dewatered in the vicinity of the MVSL; therefore, it is assumed that the first water-bearing unit in the vicinity of the 160-acre parcel occurs within what GLA defines as the B Zone. The mid-point elevations of the monitoring wells screened in this Zone (wells PW-1 through PW-4) ranges from 1,591.81 to 1,684.48 ft MSL. Note that the screen for groundwater monitoring well PW-1 was installed approximately 80 to 100 ft higher than those of monitoring wells PW-2 through PW-4 [4] and that the elevation of monitoring well PW-1 is approximately 65 to 93 feet higher than monitoring wells PW-2 through PW-4.

Table 9 presents groundwater elevations measured at monitoring wells PW-1 through PW-4 and piezometers PW-2A through PW-4A between October 2004 and January 2005. The groundwater elevations decreased by approximately 1 ft in what GLA defines as the B Zone over the four month period. Figures 8 through 15 depict groundwater contours and flow directions using groundwater elevation data collected from monitoring wells PW-1 through PW-4 and piezometers PW-2A through PW-4A. These groundwater contour maps were prepared per the requirements of the Order. The draft groundwater contours and flow directions indicated in Figures 8 through 15 are based upon a very preliminary analysis of the initial data. There is a potential that the monitoring wells and piezometers are not completed in the same water-bearing zones; Figures 8 through 15 are considered draft and preliminary.

[4] Decisions regarding the screen intervals of these permanent wells were made in the field based on based on the temporary well analytical results and geologic conditions during drilling. The decisions were made in consultation with and after approval from USEPA.

3.7 Demography and Land Use

According to the County of San Bernardino website, the estimated population in Rialto in 2004 was 98,100. The distribution of population by race in San Bernardino County is approximately 52 percent non-Hispanic Caucasian, 35 percent Hispanic, 8 percent African-American, 4 percent Asian, and 1 percent American Indian [San Bernardino County, 2004].

The Site vicinity mostly is developed as an urban area (Figures 1 and 2). The Site is located within a mixed industrial and residential area in the City of Rialto. Properties to the north of the Site are developed with residential homes; Alec Fergusson Park is located directly to the northeast of the Site. Properties to the east and south of the Site are developed as industrial facilities, and properties to the west of the Site are mostly undeveloped. The MVSL is located directly southwest of the Site (Figure 1).

3.8 Ecology

According to the California Department of Fish and Game, the predominant natural community of the Site vicinity is mixed chaparral shrublands, which includes Broom series, California annual grassland series, Cheatgrass series, Eucalyptus series, Giant reed series, Introduced perennial grassland series, Kentucky bluegrass series, and Tamarisk series. Commonly-found fauna in the Site area include coyotes, ground squirrels, snakes, lizards, hawks, mice, crows, owls, and other various birds. No significant ecological or natural resources are known to exist onsite. Due to the generally warm and dry climate, fire occurs in the Site region with variable frequency and intensity [California Department of Fish and Game, Habitat Conservation Planning Branch, 2004].

4 NATURE AND EXTENT OF CHEMICALS

4.1 General

Laboratory analytical results from this RI, which was conducted under the oversight of the USEPA, were used to characterize the nature and distribution of COCs detected in soil vapor, soil, and groundwater beneath the Site. Between 18 May 2004 and 27 August 2004, 113 soil vapor samples (including 12 duplicate samples), 8 soil samples, and 21 temporary well groundwater samples (including 3 duplicate samples) were collected at or adjacent to the Site for use in this data evaluation.

Groundwater monitoring wells PW-1 through PW-4 have been sampled monthly for the first three months following the completion of development activities at the four wells (i.e., October through December 2004). Thereafter, the sampling frequency changed to quarterly for four quarters (i.e., January 2005, April 2005, July 2005, and October 2005). This RI Report includes data collected from the October 2004 through January 2005 sampling events.

4.2 Potential Sources

In the Order, USEPA identified locations where perchlorate salts, TCE, and other hazardous substances may have been handled, stored, or disposed. Two additional locations, a sidewinder salvage area and a suspected second disposal pit, were identified by USEPA after the Order was issued. At the request of USEPA, ten locations identified in the Order were deferred for assessment due to on-going investigations being conducted by other parties at the Site. Potential on-site source areas identified in the Order and investigated as part of this RI are:

- Area A – The former research lab and small mixers;
- Area B – The former production mixer area;
- Area C – The suspected location of a former burn pit; and
- Area D – The suspected location of a second disposal pit.

Soil gas sampling was conducted at Areas A through D (Figures 2, 5, 6, and 16). Based on the results of the soil gas investigation and in accordance to the RI Work Plan, soil sampling was conducted at Areas C and D (Figures 6 and 17).

Groundwater monitoring well locations were developed in consultation with USEPA. Groundwater monitoring well PW-2 and piezometer PW-2A were installed downgradient of Area C (Figure 2). Groundwater monitoring well PW-1 was installed upgradient of the Site (Figures 2 and 4). Groundwater monitoring wells and piezometers at the PW-3 and PW-4 locations were installed downgradient / crossgradient of the Site (Figures 2 and 4).

4.3 Soil Gas

At Areas A, B, and D, no VOCs were detected in the soil gas samples collected for analysis (Table 1, Figure 16, Appendix F). At Area C, low concentrations of TCE, up to 1.7 ug/L, were detected in borings SG-BP-09, SG-BP-10, and SG-BP-13 at depths of 6 and / or 12 ft bgs. The three borings were advanced within the existing building occupied by the on-site tenant, Rialto Concrete Products. Based on the results of the soil gas investigation, soil samples were collected in the vicinity of these borings (Section 4.4).

No VOCs were detected in the ambient air samples collected during each day of soil gas sampling. Additionally, the tracer compound, isobutane, was not detected in the soil gas samples collected for VOC analysis. The lack of isobutane detections in the soil gas samples indicates the integrity of the bentonite seal around the probe (Section 2.5.2).

4.4 Soil

4.4.1 General

Based on the results of the soil gas investigation (Section 4.3), eight soil samples were collected from four borings advanced within Area C at depths of 6 and 12 ft bgs (Figures 2, 6, and 17). In accordance with the RI Work Plan and with approval from USEPA, four soil samples were collected at a depth of 5 ft bgs from four borings advanced at Area D (Figures 2, 6, and 17). Soil analytical results are presented in Tables 2 and 3; laboratory data reports are provided in Appendix G.

4.4.2 Area C – Suspected Location of a Former Burn Pit

At Area C, soil borings RIA-01 through RIA-04 were advanced adjacent to locations where TCE had been detected at low levels in the soil gas samples (borings SG-BP-09, SG-BP-10, and SG-BP-13, Section 4.3). Eight soil samples were collected from the borings at similar depths to the soil gas samples (i.e., 6 and 12 ft bgs) and analyzed for the parameters listed in Section 2.6.3.

Three VOCs were detected at Area C (Table 2, Appendix G). Naphthalene was detected in borings RIA-03 and RIA-04 at a trace[5] concentration of 0.0021 mg/kg. Acetone and trimethylsilanol were detected in the same five soil samples at maximum concentrations of 0.052 mg/kg (boring RIA-01 at 12 ft bgs) and 0.023 mg/kg (boring RIA-01 at 12 ft bgs), respectively. Both acetone and trimethylsilanol were detected in the laboratory method blank samples associated with the soil samples and thus, appear to be laboratory contaminants.

Perchlorate concentrations in soil samples collected from borings RIA-01, RIA-02, and RIA-04 ranged from 0.18 mg/kg (boring RIA-04 at 6 ft bgs) to 0.63 mg/kg (boring RIA-04 at 12 ft bgs). Perchlorate was detected in boring RIA-03 at trace concentrations of 0.037 mg/kg (6 ft bgs) and 0.036 mg/kg (12 ft bgs). In summary, perchlorate concentrations detected in soils at Area C (Figure 17, Table 2, Appendix G) are significantly below the industrial PRG for perchlorate, which is 100 mg/kg [USEPA, 2004].

1,4-Dioxane was detected in 2 of the 8 soil samples at a maximum concentration of 0.0011 mg/kg (estimated by the laboratory due to its detection below the laboratory reporting limit). These 1,4-dioxane concentrations are significantly below the industrial PRG of 160 mg/kg (Table 2, Appendix G) [USEPA, 2004].

NDMA, RDX, and chlorate were not detected in the eight soil samples. Nitrate (as nitrogen) and sulfate were detected in the eight samples at maximum concentrations of 61 mg/kg (boring RIA-04 at 12 ft bgs) and 54 mg/kg (boring RIA-04 at 6 ft bgs), respectively (Table 2, Appendix G).

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[5] "Trace" indicates that the constituent was identified but that the reported concentration is estimated. The concentration is below the laboratory's Project Reporting Limit but above the laboratory's Method Detection Limit. "Trace" concentrations are qualified according to USEPA data validation procedures.

The metals concentrations detected in the soil samples (Table 3, Appendix G) were below their respective industrial PRGs [USEPA, 2004] and within the range of background concentrations for California soils [Bradford, et al., 1996].

4.4.3 Area D – Suspected Location of a Second Disposal Pit

At Area D, soil borings RIA-05 through RIA-08 were advanced at selected locations, with approval from USEPA. Four soil samples were collected at similar depths to the soil gas samples (i.e., 5 ft bgs) and analyzed for the parameters listed in Section 2.6.3.

Six VOCs were detected at Area D (Table 2, Appendix G). Naphthalene and toluene were detected once each and at concentrations of 0.0023 mg/kg (boring RIA-05) and 0.00092 mg/kg (boring RIA-08), respectively. Benzene was detected in borings RIA-05, RIA-07, and RIA-08 at trace concentrations (maximum of 0.00054 mg/kg) significantly below the industrial PRG of 1.4 mg/kg [USEPA, 2004]. Acetone and trimethylsilanol were detected at maximum concentrations of 0.031 mg/kg (boring RIA-05) and 0.026 mg/kg (boring RIA-06), respectively. Both acetone and trimethylsilanol were detected in the laboratory method blank samples associated with the soil samples and thus, appear to be laboratory contaminants. 2-Ethyl-1-hexanol was detected in borings RIA-07 and RIA-08 at concentrations of 0.052 mg/kg and 1.6 mg/kg, respectively. According to Rialto Concrete Products representatives, Area D is sprayed periodically for dust control purposes using a chemical solution that appears to contain surfactants. Since surfactants may contain 2-ethyl-1-hexanol, elevated concentrations of this chemical in the soil samples are most likely related to dust control activities associated with the Rialto Concrete Products operations.

Perchlorate, NDMA, 1,4-dioxane, and RDX were not detected in soil samples collected from Area D (Figure 17, Table 2, Appendix G). Nitrate (as nitrogen) and sulfate were detected in the borings at maximum concentrations of 1.0 mg/kg (boring RIA-05) and 13.0 mg/kg (boring RIA-07), respectively (Table 2, Appendix G).

Metals were detected in the soil samples (Table 3, Appendix G) at concentrations below their respective industrial PRGs [USEPA, 2004] and within the range of background concentrations for California soils [Bradford, et al., 1996].

4.5 Groundwater

4.5.1 General

Groundwater data collected during the RI include measurements of groundwater depths (Table 9) and results of chemical analyses (Tables 5 and 10 through 12) for 18 temporary wells (installed in wellbores PW-1 through PW-4) and 4 permanent groundwater monitoring wells (PW-1 through PW-4). Groundwater samples were analyzed for parameters discussed in Sections 2.7.3 and 2.7.7. Tables

4.5.2 Temporary Groundwater Wells

VOCs were not detected in the two temporary wells installed in wellbore PW-1, with the exception of acetone, which is most likely a laboratory contaminant (Table 5, Appendix H). In samples collected from the other 16 temporary wells, VOCs were detected in the downgradient / crossgradient wellbores PW-2 through PW-4 (Table 5). VOCs, except for TCE, benzene, 2-butanone, and 1,2,4-trimethylbenzene, appear to be laboratory contaminants due to their detections below the laboratory reporting limit and their detections in laboratory method blank samples, equipment blank samples, and / or trip blank samples at concentrations equivalent to the primary groundwater samples.

TCE was detected in 13 temporary wells (Figure 18, Table 5, Appendix H) at concentrations ranging from 0.35 ug/L (well PW-4-T03-525) to 59 ug/L (well PW-2-T01-468). TCE was detected in three temporary wells (PW-2-T01-468, PW-2-T02-496, and PW-4-T05-625) at concentrations exceeding the Maximum Contaminant Level (MCL) of 5 ug/L [California Department of Health Services (CDHS), 2003].

Benzene was detected in two temporary wells (PW-3-T03-545 and PW-4-T06-647.5) at a maximum concentration of 0.50 ug/L, which did not exceed the MCL of 1.0 ug/L (Table 5, Appendix H) [CDHS, 2003]. 2-Butanone and 1,2,4-trimethylbenzene were detected once each at concentrations of 4.8 ug/L (well PW-3-T04-585) and 0.26 ug/L (well PW-2-T01-468), respectively.

Groundwater samples collected from temporary wells installed in wellbores PW-1 and PW-2 were analyzed for NDMA (Section 2.7.9.3). NDMA was detected at very low concentrations in the two temporary wells installed in wellbore PW-1 (1.2 and 5.0 ng/L) and was not detected in the first three temporary wells installed in wellbore PW-2. Based on the result of QC samples and hydrant water samples, the detections of NDMA in temporary wells installed in wellbore PW-1 most likely were related to the presence of NDMA in hydrant water and in laboratory-supplied water used for the collection of equipment blank samples (Section 2.7.9.3). In consultation with USEPA, groundwater samples collected from subsequent temporary wells were not analyzed for NDMA (Section 2.7.9.3). NDMA was re-instated as an analyte for the monthly groundwater monitoring events (Section 2.7.7).

Perchlorate was not detected in the temporary wells installed in wellbore PW-1. Perchlorate was detected in samples collected from the downgradient / crossgradient wellbores PW-2 through PW-4. The maximum perchlorate concentration of 0.290 milligrams per liter (mg/L) was detected in temporary well PW-2-T01-468. A drinking water standard for perchlorate is not available for perchlorate, but California has established a Notification Level of 0.006 mg/L [CDHS, 2005]. Eleven groundwater samples collected from the 18 temporary wells exceeded this level.

4.5.3 Permanent Groundwater Monitoring Wells

Fourteen groundwater samples, including two duplicate samples, were collected from permanent monitoring wells PW-1 through PW-4 in October 2004 through January 2005 (Figure 19, Tables 10 through 12, Appendix I). Tables 13 and 14 provide the analytical results of equipment blank and trip blank samples collected during each of the monitoring events (Appendix I).

The most frequently detected VOC was TCE, which was detected in the downgradient / crossgradient monitoring wells PW-2 through PW-4 (Figure 19, Table 10, Appendix I). Concentrations of TCE detected in monitoring wells PW-2 and PW-3 exceed the MCL of 5 ug/L [CDHS, 2003]. TCE concentrations in monitoring well PW-2 range between 45 and 62 ug/L; in monitoring well PW-3, TCE concentrations range between 7.4 and 15 ug/L. The maximum TCE concentration detected in monitoring well PW-4 is 4.3 ug/L, which is below the MCL of 5 ug/L.

Benzene was detected in one groundwater sample (monitoring well PW-2 in November 2004) at a concentration of 1.5 ug/L, which exceeds the MCL of 1.0 ug/L [CDHS, 2003]. Toluene was detected in two groundwater samples (December 2004 monitoring event) collected from monitoring wells PW-3 and PW-4 at concentrations of 3.4 and 0.66 ug/L, respectively. These toluene concentrations are significantly below the MCL of 150 ug/L [CDHS, 2003].

Acetone, chloroform, and chloromethane were detected at trace concentrations in various groundwater samples collected during the October 2004 monitoring event (Table 10, Appendix I). Also during the October 2004 monitoring event, acetone was detected in 2 of 3 equipment blank samples and one trip blank sample at concentrations similar to those detected in the groundwater samples. Chloromethane was detected in one equipment blank sample collected during the October 2004 monitoring event at a concentration of 1.0 ug/L. Due to their trace concentrations and their detections in equipment blank and / or trip blank samples, it is unlikely that these VOC detections are representative of groundwater conditions and are most likely laboratory contaminants (Tables 13 and 14, Appendix I). Similarly, methylene chloride detected at a trace concentration in one groundwater sample collected from monitoring well PW-1 in November 2004 appears to be the result of laboratory contamination. Methylene chloride also was detected in monitoring well PW-2 during each groundwater monitoring event at concentrations ranging from 7.4 to 12 ug/L.

1,4-Dioxane and RDX were not detected in the groundwater samples selected for analysis from monitoring wells PW-1 through PW-4 (Table 10, Appendix I). NDMA was detected in monitoring wells PW-2 and PW-4 during the November 2004 monitoring event (Table 10). The NDMA concentrations were at trace levels (maximum of 1.3 ng/L) and in two of the samples, NDMA also was detected in the associated laboratory method blank sample. Similarly, NDMA was detected in the equipment blank samples collected during the November 2004 monitoring event and in one equipment blank sample collected during the October 2004 monitoring event (Table 13). As a result, NDMA is most likely a laboratory contaminant.

Perchlorate was not detected in groundwater monitoring well PW-1. Perchlorate was detected in downgradient monitoring wells PW-2 through PW-4, with the highest concentrations reported in monitoring wells PW-2 (ranging between 0.04

and 0.073 mg/L) and PW-3 (ranging between 0.046 and 0.067 mg/L) (Table 10). Perchlorate was detected in monitoring well PW-4 at concentrations ranging from 0.0014 to 0.002 mg/L (Table 10). Concentrations of perchlorate detected in monitoring wells PW-2 and PW-3 are above the Notification Level of 0.006 mg/L [CDHS, 2005].

Chlorate, which is a natural degradation product of perchlorate, was detected in monitoring wells PW-1, PW-2, and PW-4 at trace concentrations ranging between 0.0041 and 0.008 mg/L (Table 12, Appendix I). These concentrations are significantly below the Notification Level of 0.8 mg/L [CDHS, 2005]. Chloride and sulfate were detected in monitoring wells PW-1 through PW-4 at maximum concentrations of 6.3 mg/L (well PW-4 in January 2005) and 33 mg/L (well PW-4 in December 2004), respectively. Chlorate and sulfate detections were significantly below their MCLs of 250 mg/L [CDHS, 2003]. General chemistry results were consistent with those reported in nearby USGS groundwater monitoring wells screened within the middle-water bearing unit (Section 3.6.1, Table 12, Figure 7, Appendix I).

Some dissolved metals concentrations within monitoring well PW-4 were dissimilar from those reported in monitoring wells PW-1 through PW-3, in particular for dissolved aluminum, arsenic, barium, calcium, cerium, iron, magnesium, and sodium (Table 11, Appendix I). This most likely was due to the use of mud rotary drilling techniques at PW-4 as compared to the ARCH drilling techniques at the other wellbores (Section 2.7.9.5). As a result, the use and presence of drilling mud in wellbore PW-4 most likely affected the general chemistry and dissolved metals analytical results. Analytical results generally indicate that dissolved metals are not a significant concern in groundwater beneath the Site. Below is a summary of dissolved metals results (Table 11, Appendix I).

- Dissolved lithium and zirconium were not detected in groundwater samples collected from the monitoring wells.

- Dissolved aluminum was detected only in monitoring well PW-4 at concentrations of 450 ug/L (December 2004) and 340 ug/L (January 2005), which are below the MCL of 1,000 ug/L [CDHS, 2003].

- Dissolved arsenic, barium, chromium, copper, iron, manganese, nickel, and zinc were detected in the four monitoring wells at concentrations significantly below their respective MCLs [CDHS, 2003].

- Hexavalent chromium (maximum concentration of 1.7 ug/L in well PW-4) was detected in the downgradient monitoring wells PW-2 through PW-4. Hexavalent chromium does not have an MCL, but the measured concentrations are significantly below the MCL for total chromium, which is 50 ug/L [CDHS, 2003].

- Dissolved boron (maximum concentration of 30 ug/L in well PW-4) was detected in the downgradient monitoring wells PW-2 through PW-4. Boron concentrations are significantly below the Notification Level of 1,000 ug/L [CDHS, 2005]. Boron also was detected in the laboratory method blank samples associated with 3 of the 4 groundwater samples that reported dissolved boron concentrations.

- Dissolved cobalt (maximum concentration of 0.26 ug/L in well PW-2) and lead (maximum concentration of 1.6 ug/L in well PW-4) were detected at trace concentrations.

- Dissolved calcium, boron, magnesium, sodium, and potassium concentrations were consistent with those reported in the nearby USGS groundwater monitoring wells screened within the middle-water bearing unit (Section 3.6.1, Figure 7).

4.6 Data Validation

The data generated by the laboratories during the RI (soil, soil gas and temporary groundwater wells) were subject to independent validation. Generally, Level II data validation was performed on the data. In addition, for a subset of 20 percent of the groundwater data collected from the temporary wells, Level III data validation was performed using Level VI data packages.

The data were considered acceptable for use (Appendix K). The validation process did reveal some issues with respect to proper documentation in the field and at the laboratory. These issues have been addressed and do not affect the quality or usability of the data.

4.7 Chemical Fate and Transport

Based on the results of the RI, the principal COCs detected at or beneath the Site are perchlorate and TCE, in low concentrations. As inferred from groundwater elevations measured during monitoring events, groundwater flow direction is to the southeast (Section 3.6.2). Detections of perchlorate and TCE in downgradient groundwater samples are consistent with a release occurring at the Site and migrating through soil into groundwater. Additional work is recommended to further investigate the extent of the presence of these chemicals in the vicinity of the Site.

5 CONCLUSIONS AND RECOMMENDATIONS

5.1 Summary

From May 2004 through January 2005, a Remedial Investigation (RI) was conducted in response to a 14 July 2003 Administrative Order (the Order) issued by the United States Environmental Protection Agency (USEPA) and in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The RI included the following:

- A soil gas investigation (sampling of 61 specific on-site locations identified from historical documents) to evaluate the potential presence of volatile organic compounds (VOCs);

- A soil investigation (sampling of 8 selected on-site locations based on the results of the soil gas investigation);

- A groundwater investigation consisting of the following:

  - Drilling of one upgradient wellbore (PW-1) and three downgradient / crossgradient wellbores (PW-2 through PW-4);

  - Installation and sampling of 18 temporary wells;

  - Installation of four permanent monitoring wells (PW-1 through PW-4) and three piezometers (PW-2A through PW-4A); and

- A groundwater monitoring program conducted between October 2004 and January 2005, which consisting of the following:

  - Monthly water level gauging of monitoring wells PW-1 through PW-4 and piezometers PW-2A through PW-4A; and

  - Monthly sampling of monitoring wells PW-1 through PW-4.

Field activities generally were conducted in accordance with the Final RI Work Plan approved by USEPA prior to commencement of field activities.

5.2 Results

Based on the review of historical documents, a list of Site-specific constituents of concern (COCs) was identified by USEPA in the Order, and these chemicals subsequently were evaluated for their potential presence in soil gas, soil, and / or groundwater beneath the Site. Based on the results of the RI, the principal COCs detected at or beneath the Site are perchlorate and trichloroethene (TCE).

With few exceptions, COCs identified in the RI Work Plan were not detected in soil gas or soil samples collected at the potential source areas identified by USEPA at the Site. Of the 61 soil gas sampling locations, TCE was detected at 3 locations within the suspected area of a former burn pit (Area C) at a maximum concentration of 1.7 micrograms per liter (ug/L). Soil sampling subsequently was conducted at Area C and also at Area D (suspected location of a second disposal pit). No TCE was detected in the soil samples. Very low concentrations of other VOCs were detected at both Areas. Perchlorate was detected at Area C at a maximum concentration of 0.63 milligrams per kilogram (mg/kg), which is significantly below its industrial PRG of 100 mg/kg [USEPA, 2004]. Perchlorate was not detected at Area D.

GeoLogic Associates (GLA) reports the presence of three laterally continuous aquifers within what the United States Geological Survey [Woolfenden and Kadhim, 1997; Woolfenden and Koczot, 2000] first identifies as the middle water-bearing unit [GLA, 1997 and 2003]. These laterally continuous aquifers include an upper, unconfined aquifer (A Zone), an intermediate, partially confined aquifer (B Zone), and a deep regional aquifer (C Zone). The C Zone provides much of the groundwater that is pumped in the area by municipal supply wells. The three aquifers are separated by aquitards that generally range in thickness from only a few feet to more than 30 feet [GLA, 1997 and 2003]. First groundwater was encountered in wellbores PW-1 through PW-4 at approximate depths of 440 to 480 feet bgs. Since commencement of groundwater monitoring at the Site, groundwater levels have decreased by approximately 1 ft in the wells and piezometers over the four month period from October 2004 through January 2005 (Table 9, Figures 8 through 15).

GLA reports that the A Zone appears to be dewatered in the vicinity of the Mid-Valley Sanitary Landfill (directly southwest of the Site); therefore, it is assumed that the first water-bearing unit in the vicinity of the 160-Acre Parcel occurs within what GLA defines as the B Zone. The mid-point elevations of the monitoring wells

screened in this Zone (wells PW-1 through PW-4) range from 1,591.81 to 1,684.48 feet above mean sea level (ft MSL). Piezometers PW-2A, PW-3A, and PW-4A appear to be installed and screened within the lower portion of the middle water-bearing unit, which corresponds to the C Zone as defined by GLA. However, based on geophysical logs, soil cuttings, and groundwater elevations, there is a potential that some of the temporary wells and permanent piezometers may have been installed in the lower water-bearing unit. Groundwater in the middle water-bearing unit appears to be flowing in a southeast direction.

No perchlorate or TCE has been detected in the upgradient monitoring well PW-1; the maximum concentration of perchlorate detected in monitoring wells PW-2 through PW-4 was 0.073 milligrams per liter (mg/L); the maximum TCE concentration detected in monitoring wells PW-2 through PW-4 was 62 ug/L. Lower perchlorate and TCE concentrations were detected in monitoring well PW-4 in comparison to monitoring wells PW-2 and PW-3. In the lower portion of the middle water-bearing unit (defined by GLA as the C-Zone), perchlorate and TCE were detected only in temporary wells installed in wellbore PW-4.

In accordance with the Order and the Final RI Work Plan, monthly gauging of the monitoring wells and piezometers will continue through October 2005. Sampling of the groundwater monitoring wells will be conducted in April, July, and October 2005. Results of these events will be reported to USEPA in the required monthly progress reports.

5.3 Recommendations

The objectives of the Order and the requirements of the NCP were addressed in this RI. Potential on-site source areas were evaluated. Soil gas and soil testing indicated very low concentrations of COCs. Downgradient groundwater analytical results for perchlorate and TCE may be indicative of a release from the Site. Additional work is recommended to further investigate the extent of the presence of these chemicals in the vicinity of the Site to collect additional data to adequately characterize the Site for the purpose of developing and evaluating effective remedial alternatives.

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Substances Pollution Contingency Plan, Subpart E – Hazardous Substance Response, Section 300.420 – Remedial Site Evaluation (40 CFR Part 300.420).

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Figures

FIGURES

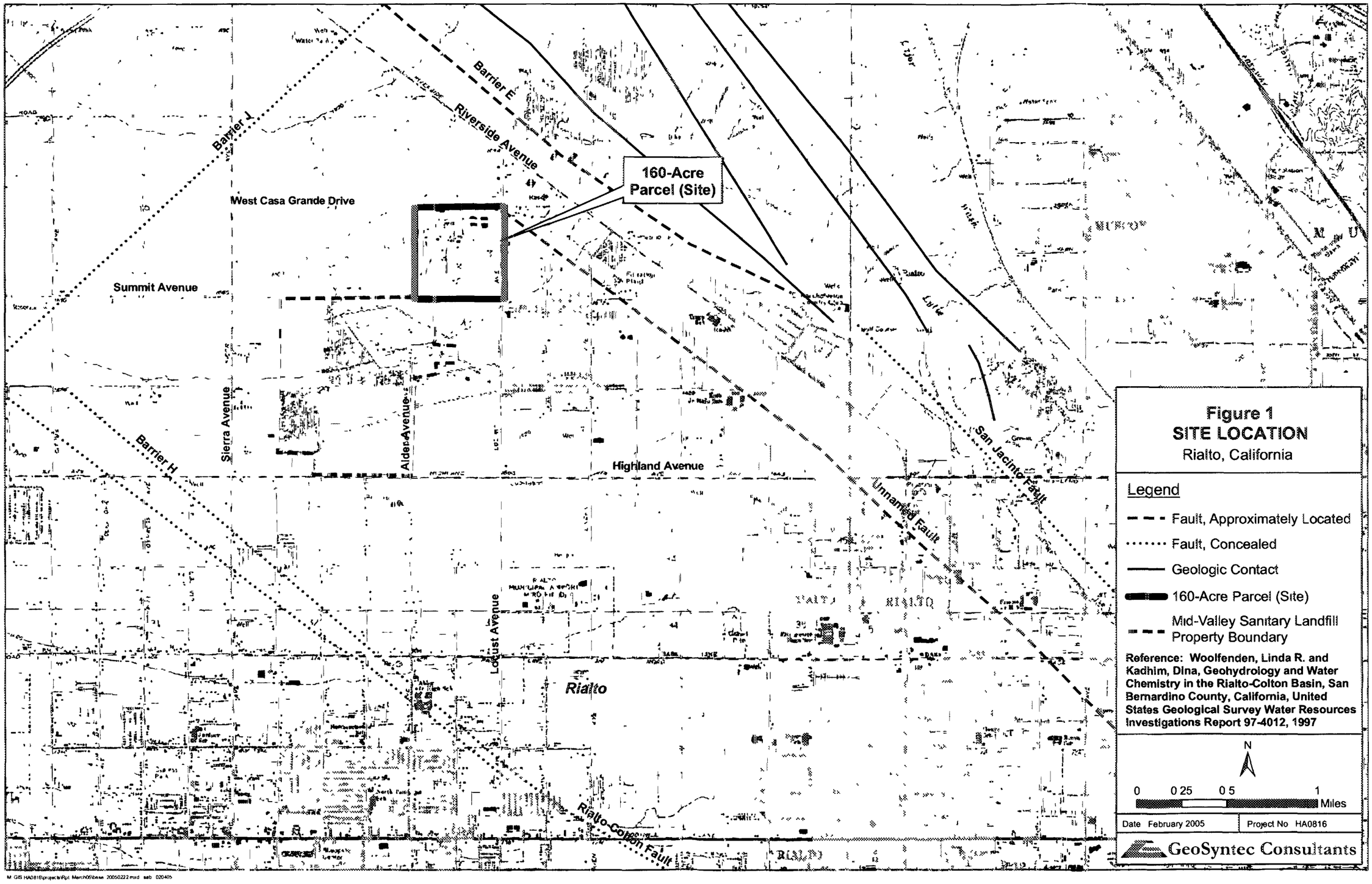

Figure 1
SITE LOCATION
Rialto, California

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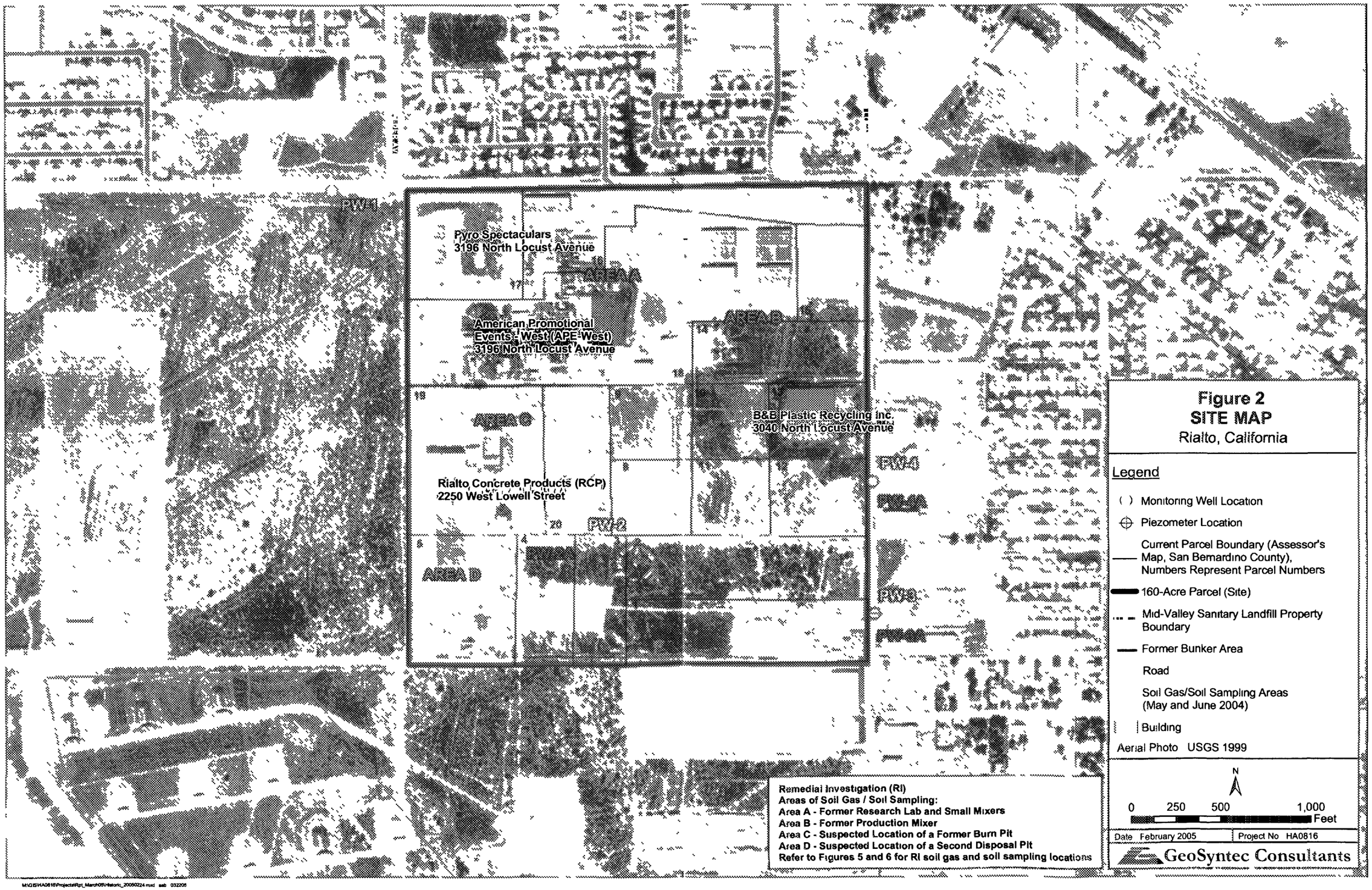

Figure 2
SITE MAP
Rialto, California

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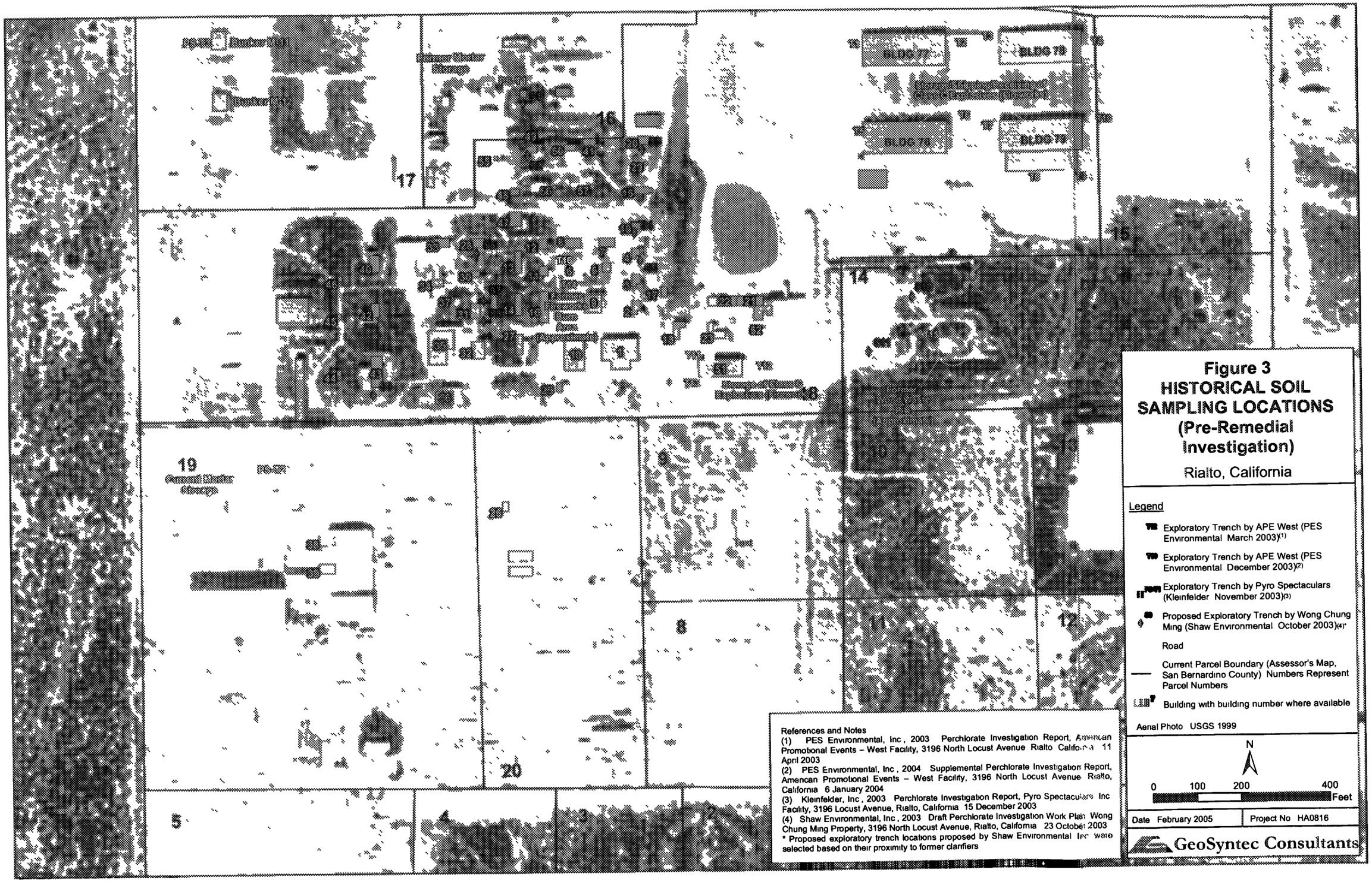
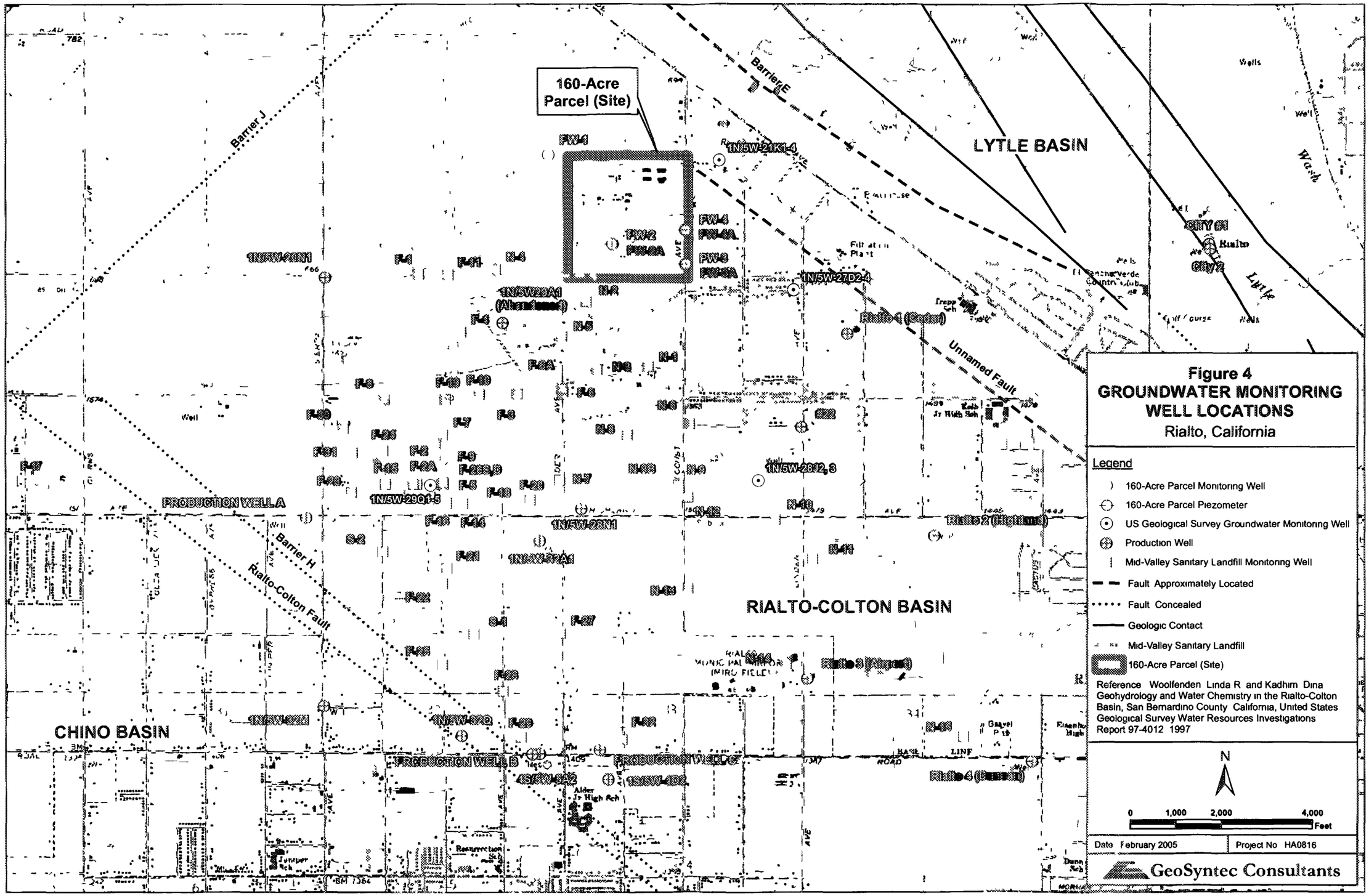
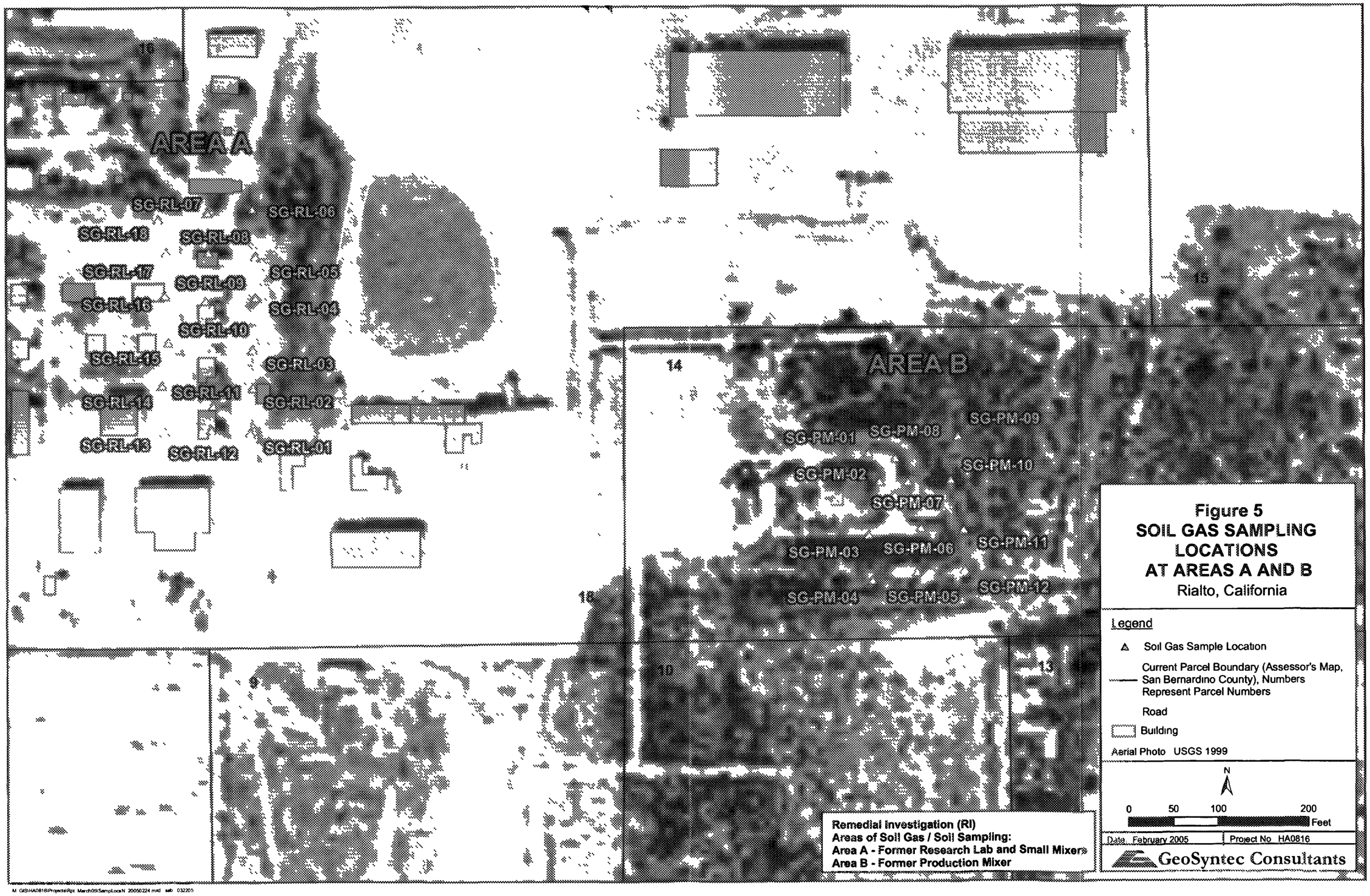


Figure 3
HISTORICAL SOIL SAMPLING LOCATIONS (Pre-Remedial Investigation)
Rialto, California

M GIS\HA0816\Projects Rpt March05\SG 20050204 mxd aab 032205


160-Acre Parcel (Site)
LYTLE BASIN
RIALTO-COLTON BASIN
CHINO BASIN
Barrier J
Barrier E
Barrier H
Rialto-Colton Fault
Unnamed Fault
PRODUCTION WELL A
PRODUCTION WELL B
PW-4
PW-4A
PW-2
PW-2A
PW-3
PW-3A
1N/5W-21K1-4
1N/5W-27D2-4
1N/5W-28J2-3
1N/5W-29Q1-5
1N/5W-28A1 (Abandoned)
Rialto 4 (Capped)
Rialto 2 (Highland)
Rialto 3 (Rialto)
Rialto 4 (Rialto)
CITY OF Rialto
Figure 4
GROUNDWATER MONITORING WELL LOCATIONS
Rialto, California
Legend
160-Acre Parcel Monitoring Well
160-Acre Parcel Piezometer
US Geological Survey Groundwater Monitoring Well
Production Well
Mid-Valley Sanitary Landfill Monitoring Well
Fault Approximately Located
Fault Concealed
Geologic Contact
Mid-Valley Sanitary Landfill
160-Acre Parcel (Site)
Reference Woolfenden Linda R and Kadhim Dina Geohydrology and Water Chemistry in the Rialto-Colton Basin, San Bernardino County California, United States Geological Survey Water Resources Investigations Report 97-4012 1997
N
0 1,000 2,000 4,000 Feet
Date February 2005
Project No HA0816
GeoSyntec Consultants



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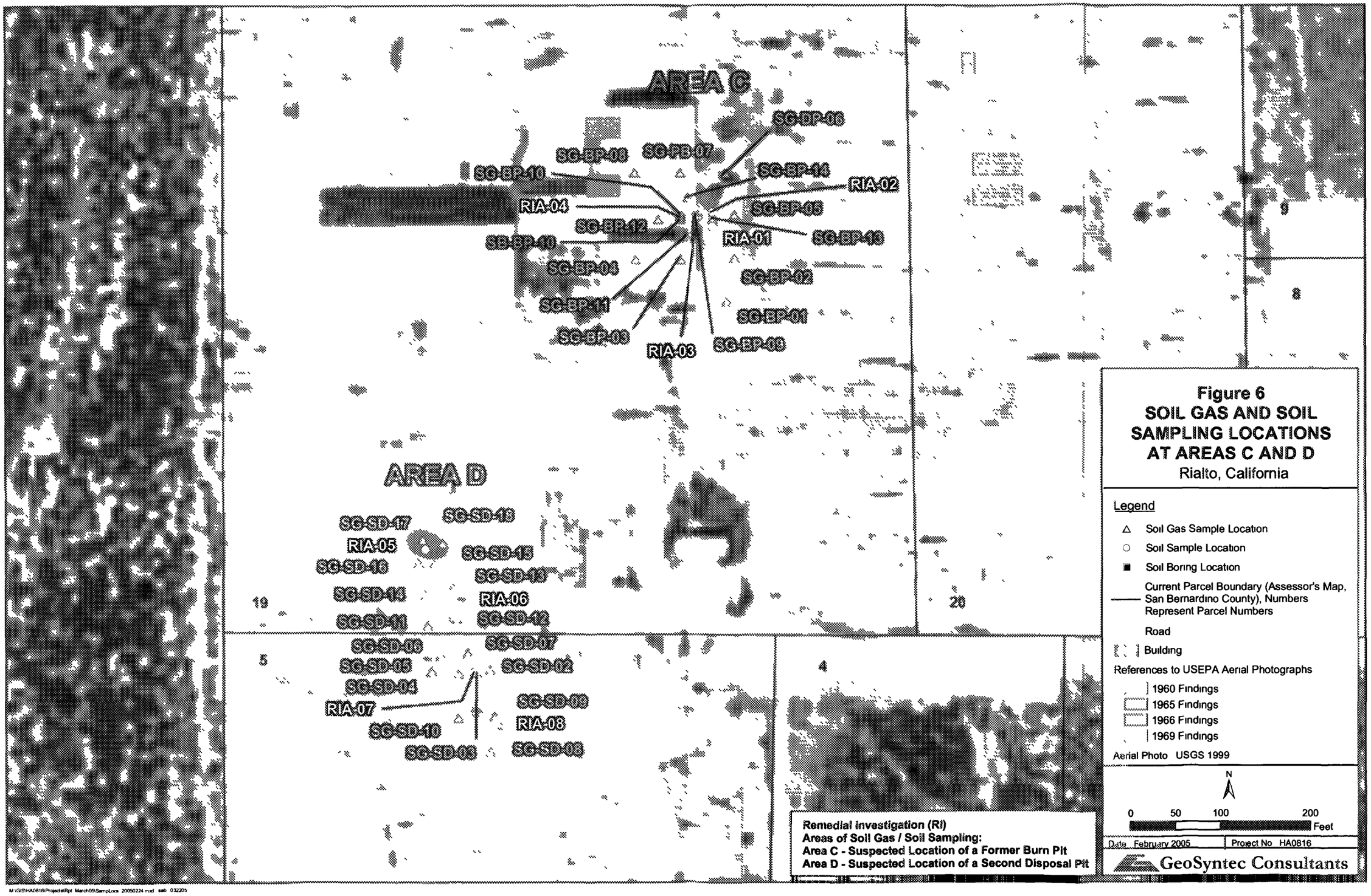

Figure 6
SOIL GAS AND SOIL SAMPLING LOCATIONS AT AREAS C AND D
Rialto, California

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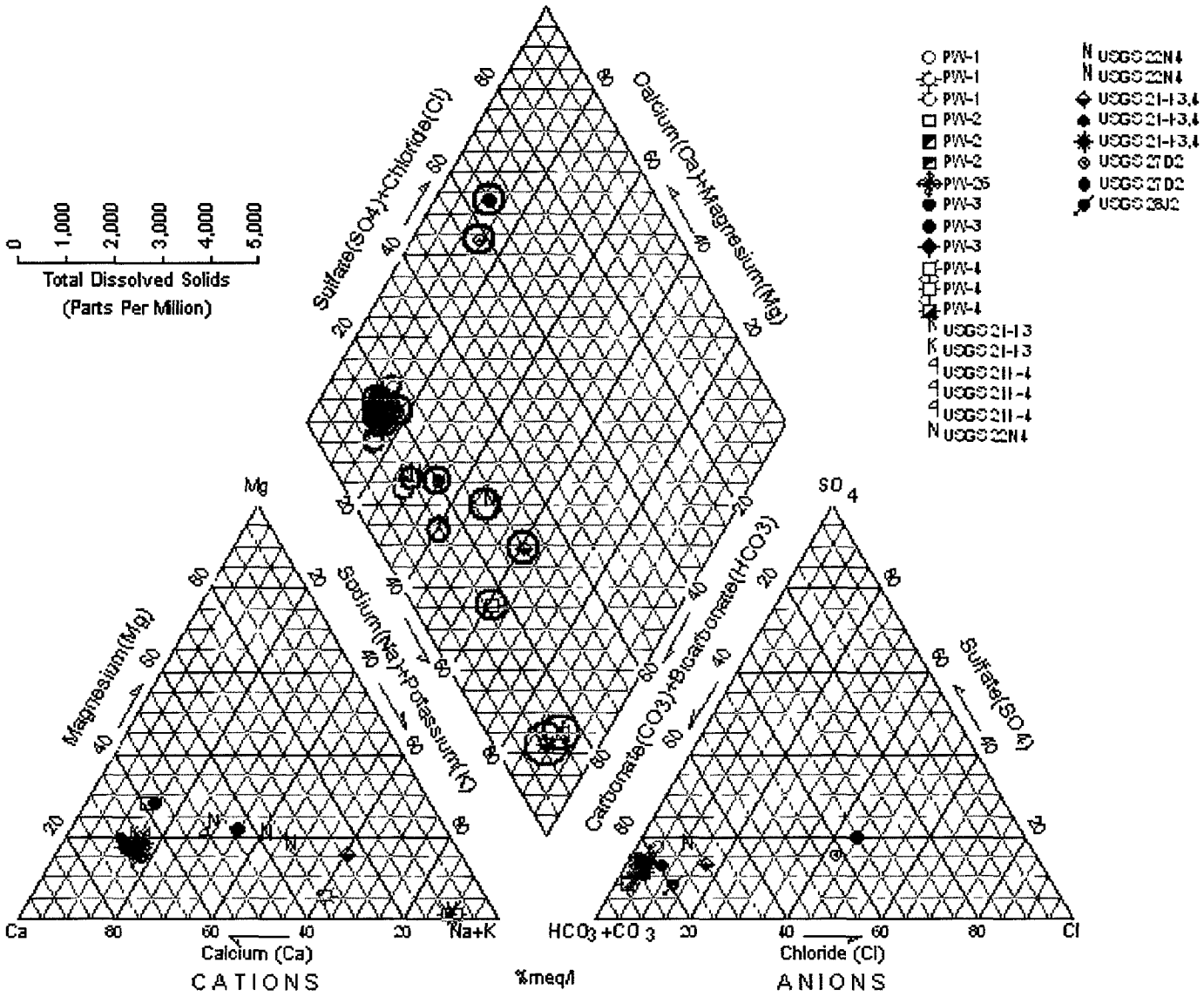

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COMPARISON OF GENERAL CHEMISTRY FOR PERMANENT MONITORING WELLS Remedial Investigation Rialto, California	FIGURE NO.	7
	PROJECT NO.	HA0816
	DATE:	MARCH 2005

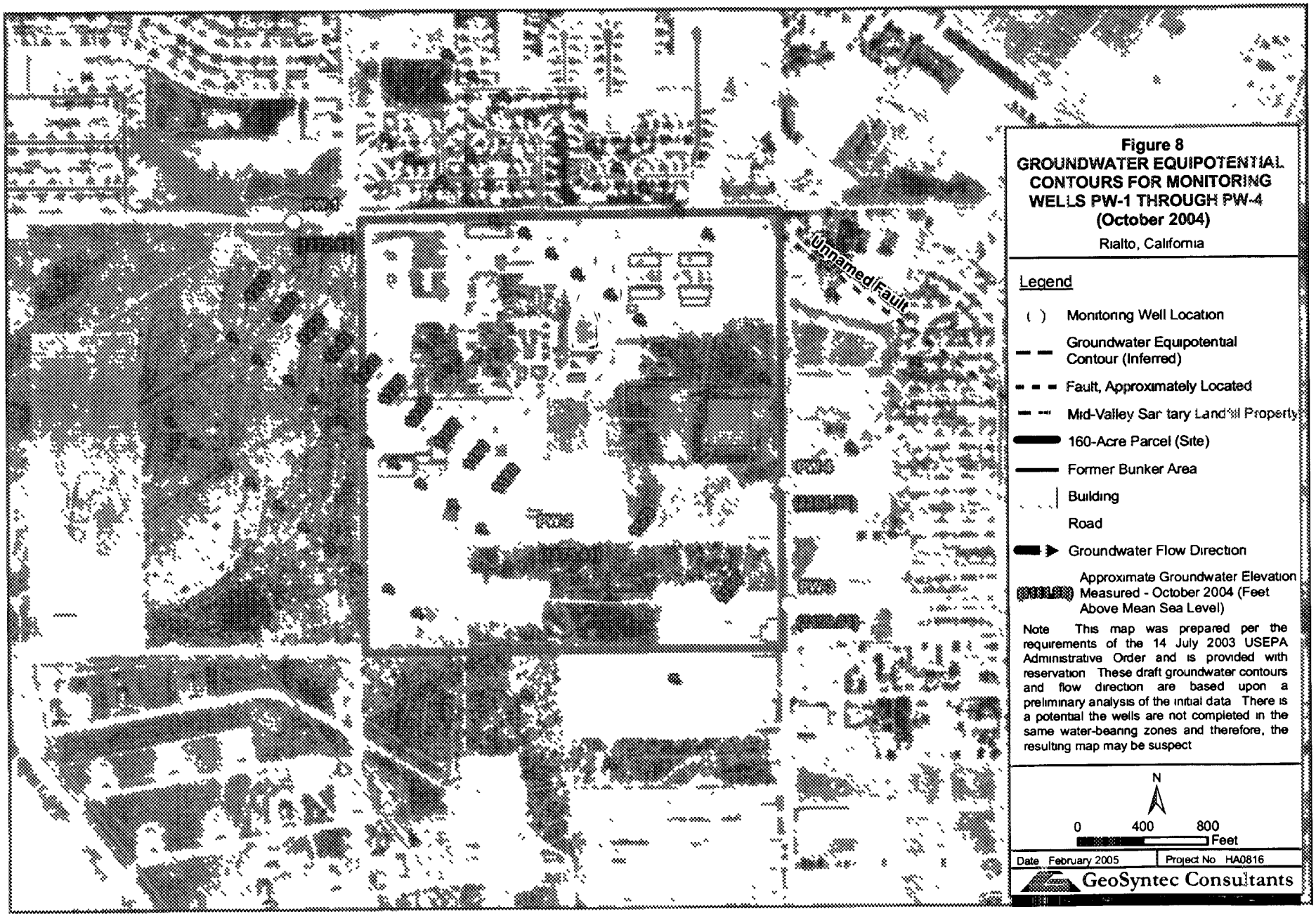


Figure 8
GROUNDWATER EQUIPOTENTIAL CONTOURS FOR MONITORING WELLS PW-1 THROUGH PW-4
(October 2004)
Rialto, California

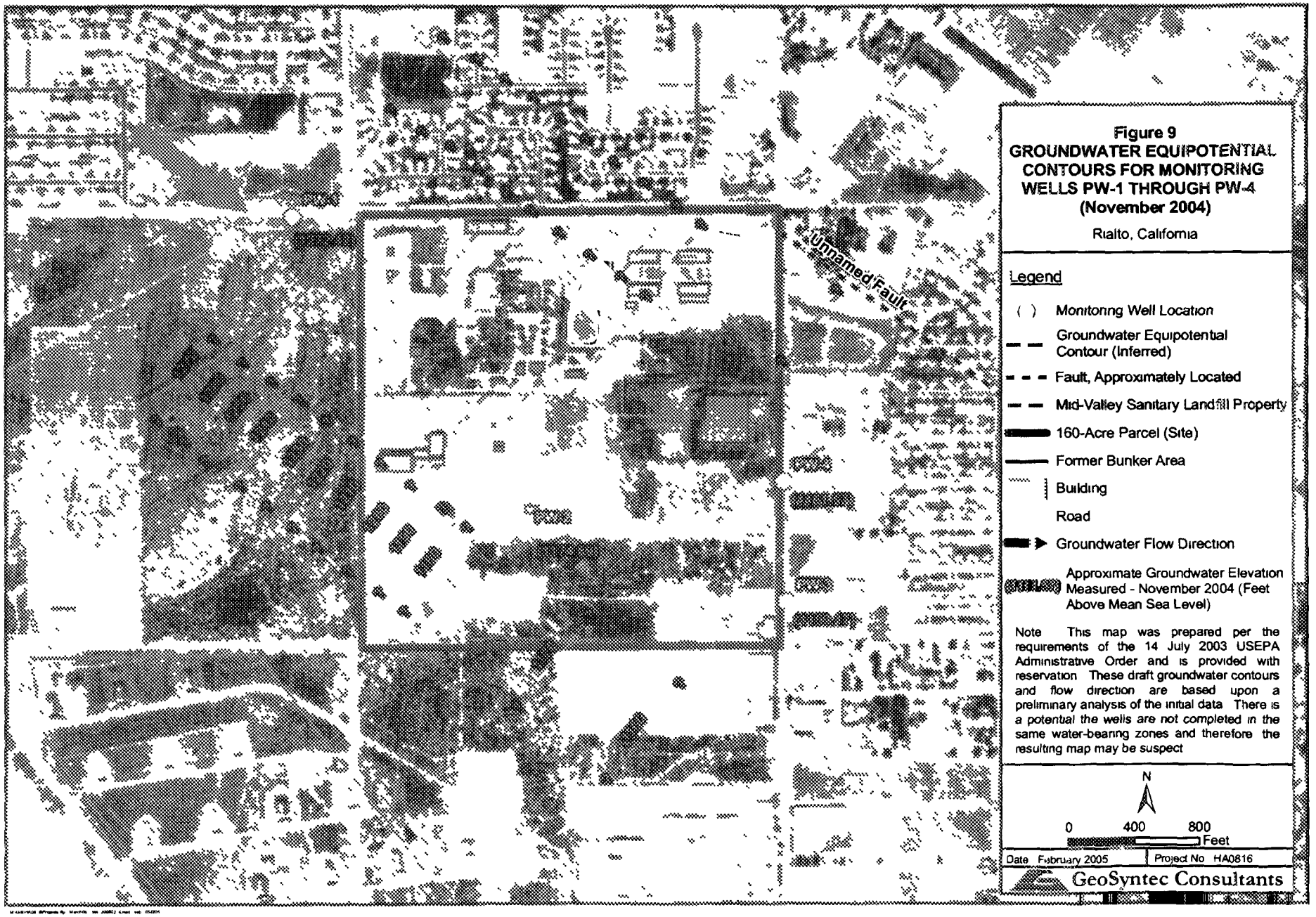


Figure 9
GROUNDWATER EQUIPOTENTIAL CONTOURS FOR MONITORING WELLS PW-1 THROUGH PW-4 (November 2004)

Rialto, California

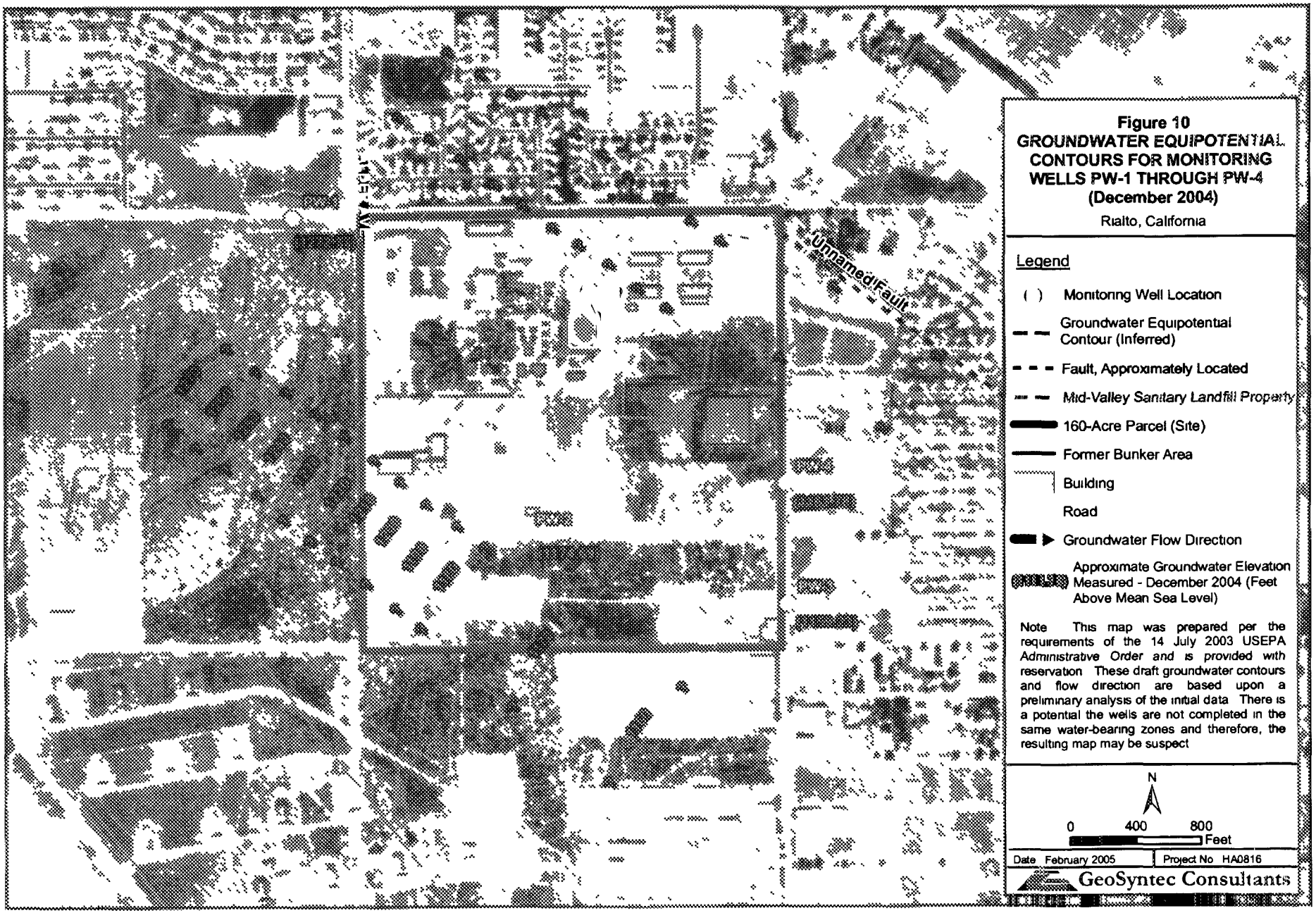


Figure 10
GROUNDWATER EQUIPOTENTIAL CONTOURS FOR MONITORING WELLS PW-1 THROUGH PW-4
(December 2004)
Rialto, California

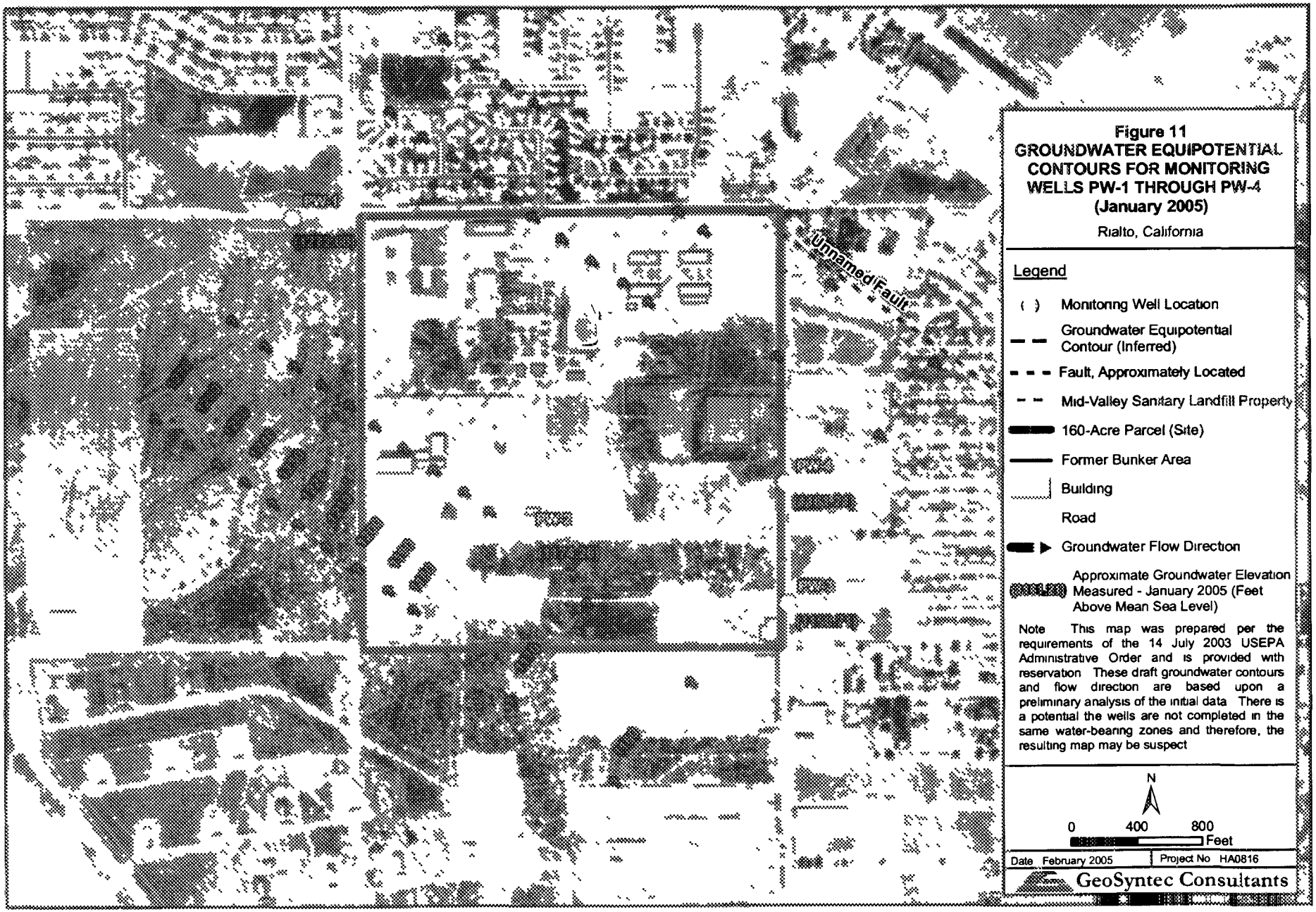


Figure 11
GROUNDWATER EQUIPOTENTIAL CONTOURS FOR MONITORING WELLS PW-1 THROUGH PW-4
(January 2005)
Rialto, California

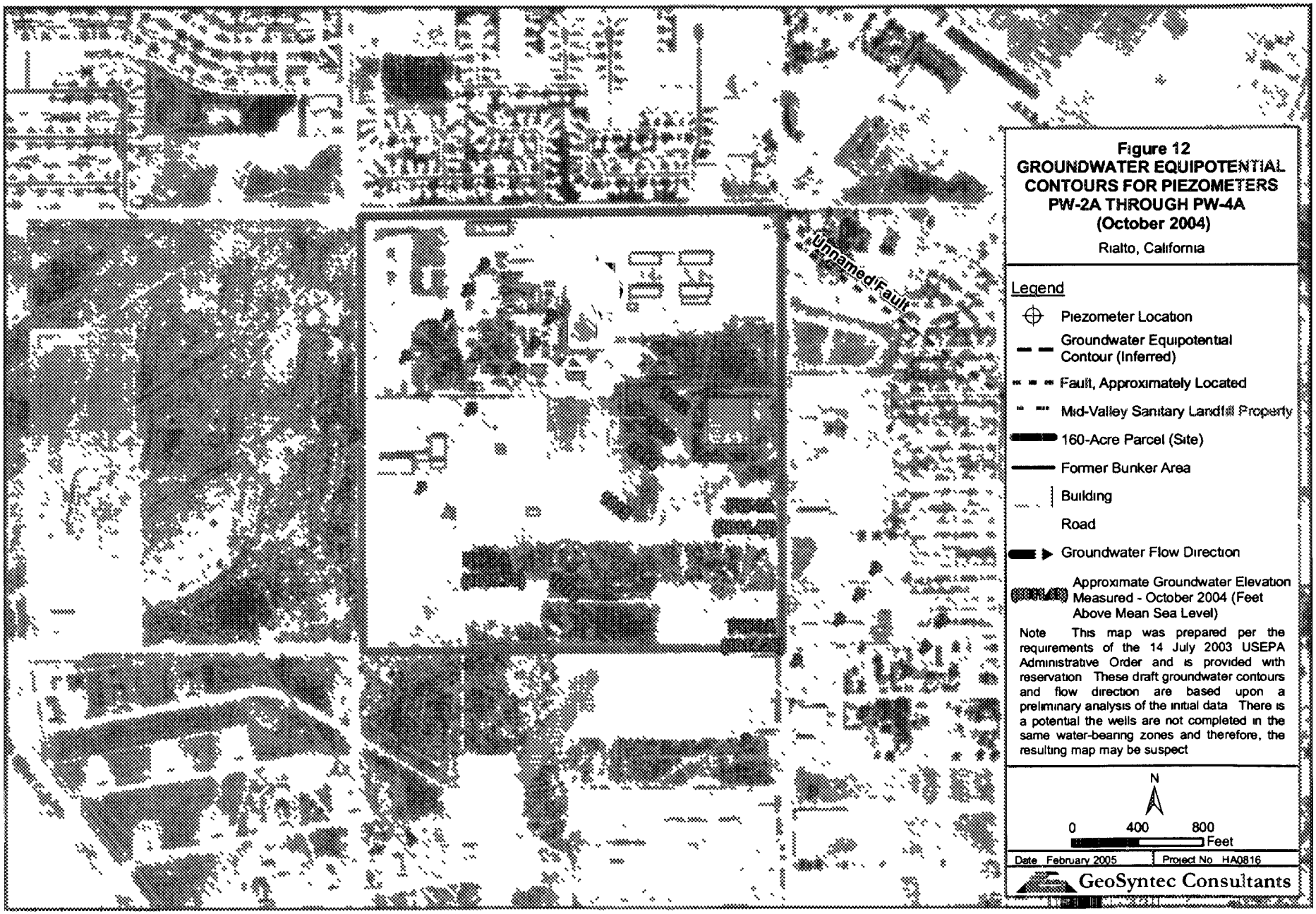


Figure 12
GROUNDWATER EQUIPOTENTIAL CONTOURS FOR PIEZOMETERS PW-2A THROUGH PW-4A (October 2004)
Rialto, California

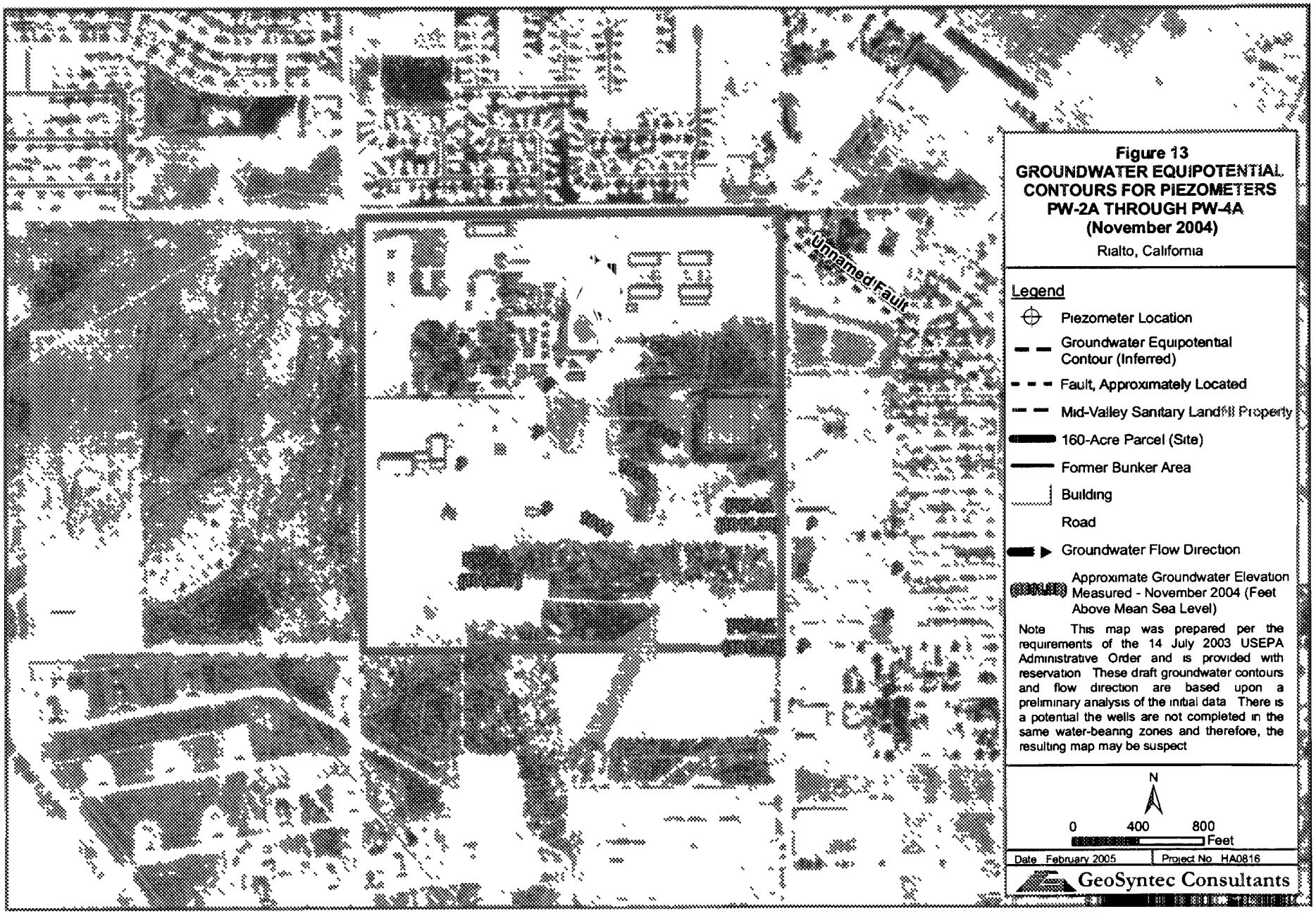


Figure 13
GROUNDWATER EQUIPOTENTIAL CONTOURS FOR PIEZOMETERS PW-2A THROUGH PW-4A (November 2004)
Rialto, California

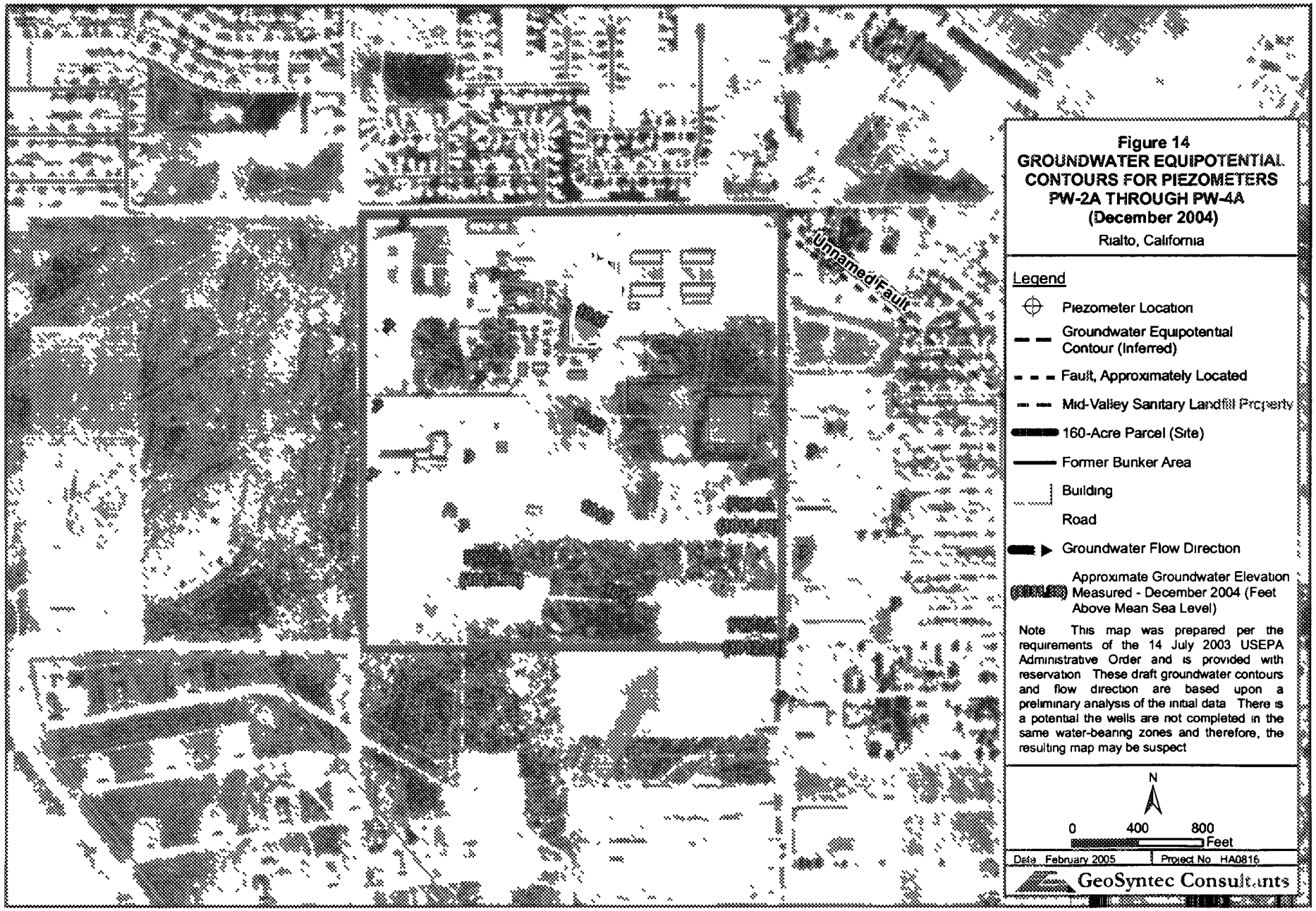


Figure 14
GROUNDWATER EQUIPOTENTIAL CONTOURS FOR PIEZOMETERS PW-2A THROUGH PW-4A
(December 2004)
Rialto, California

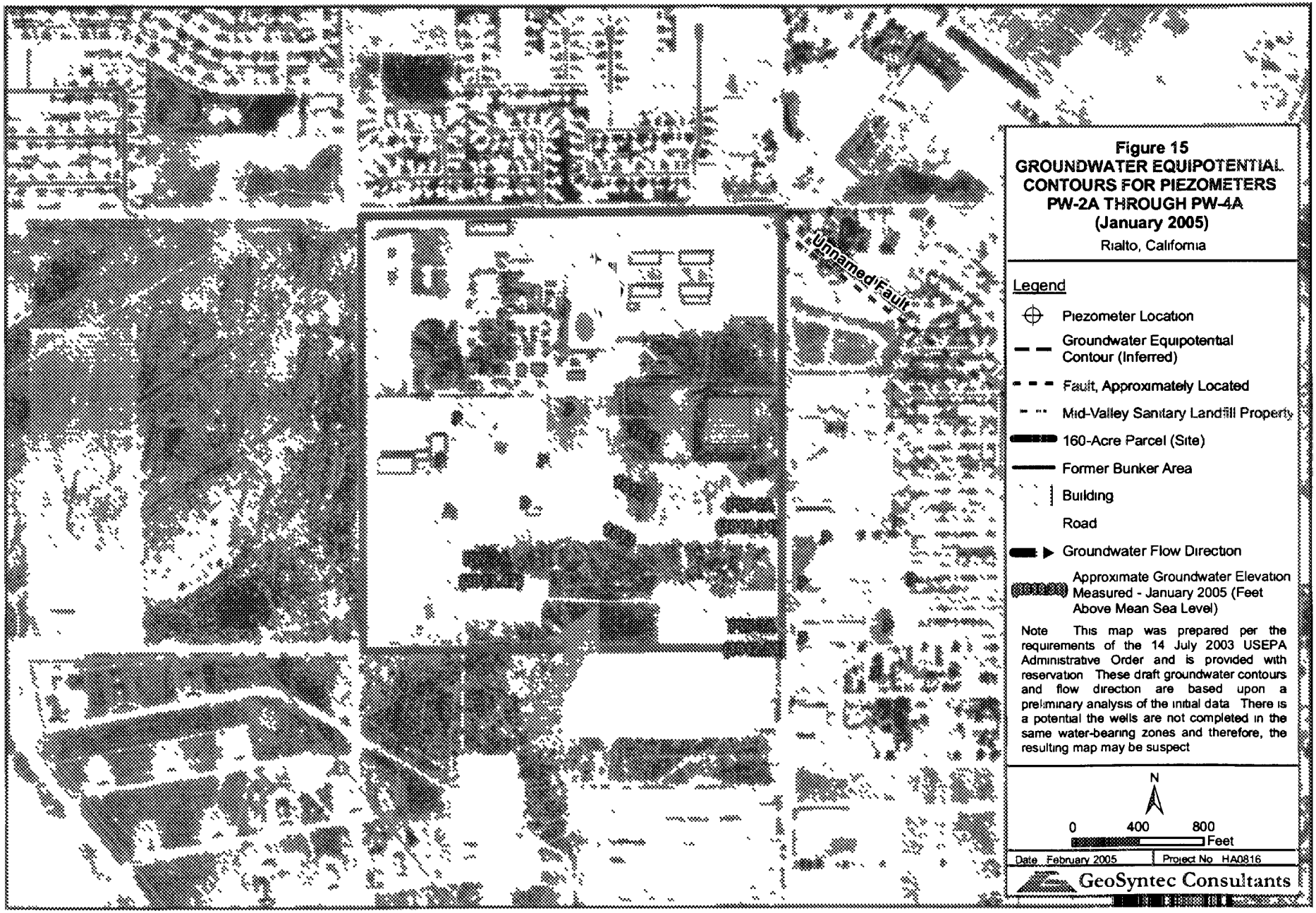
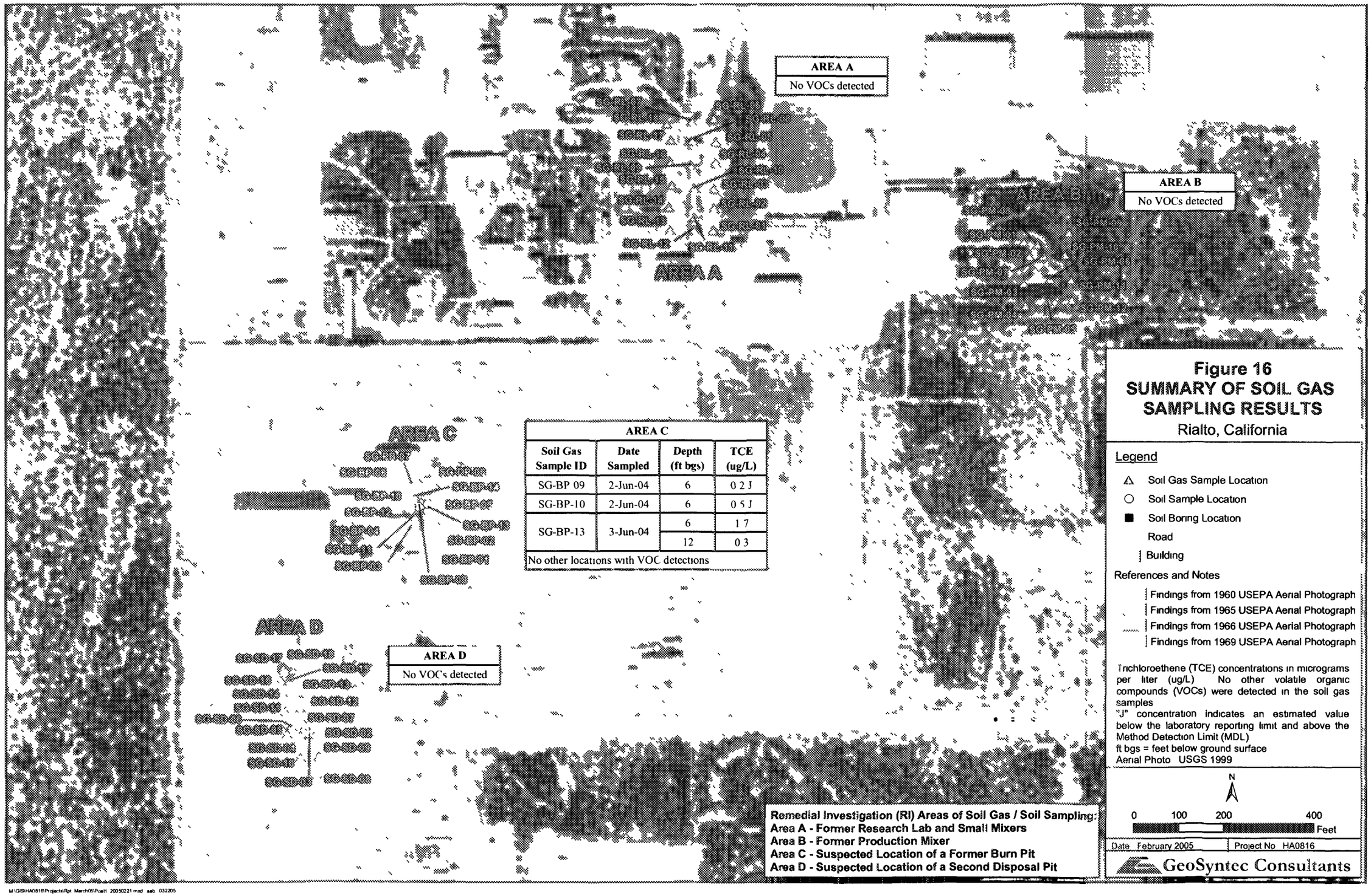


Figure 15
GROUNDWATER EQUIPOTENTIAL CONTOURS FOR PIEZOMETERS PW-2A THROUGH PW-4A (January 2005)
Rialto, California



AREA C

Soil Gas Sample ID	Date Sampled	Depth (ft bgs)	TCE (ug/L)
SG-BP 09	2-Jun-04	6	0 2 J
SG-BP-10	2-Jun-04	6	0 5 J
SG-BP-13	3-Jun-04	6	1 7
		12	0 3
No other locations with VOC detections			

Figure 16
SUMMARY OF SOIL GAS SAMPLING RESULTS
Rialto, California

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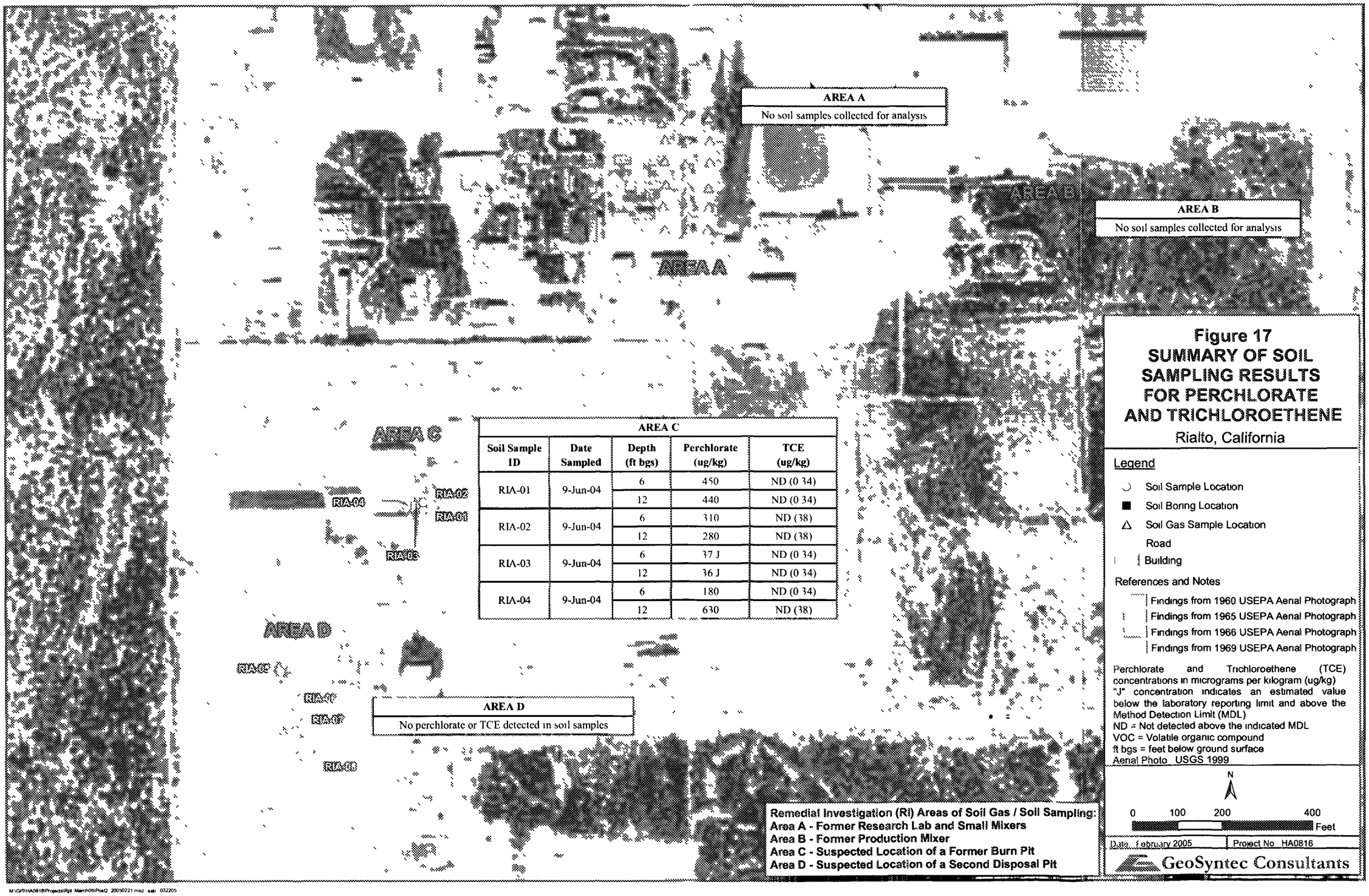

Soil Sample ID	Date Sampled	Depth (ft bgs)	Perchlorate (ug/kg)	TCE (ug/kg)
RIA-01	9-Jun-04	6	450	ND (0 34)
		12	440	ND (0 34)
RIA-02	9-Jun-04	6	310	ND (38)
		12	280	ND (38)
RIA-03	9-Jun-04	6	37 J	ND (0 34)
		12	36 J	ND (0 34)
RIA-04	9-Jun-04	6	180	ND (0 34)
		12	630	ND (38)

Figure 17
SUMMARY OF SOIL SAMPLING RESULTS FOR PERCHLORATE AND TRICHLOROETHENE
Rialto, California

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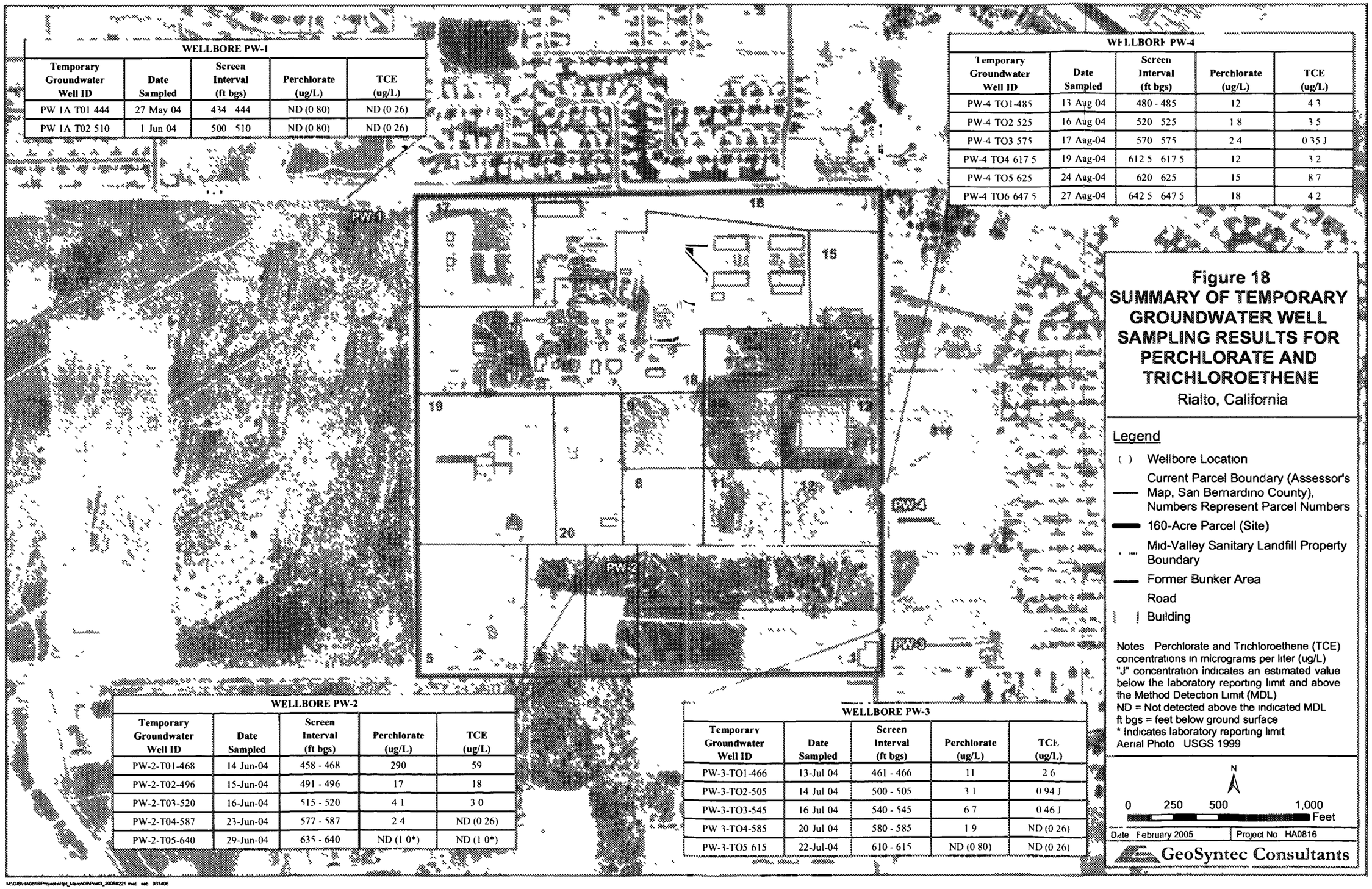

WELLBORE PW-1

Temporary Groundwater Well ID	Date Sampled	Screen Interval (ft bgs)	Perchlorate (ug/L)	TCE (ug/L)
PW 1A T01 444	27 May 04	434 444	ND (0 80)	ND (0 26)
PW 1A T02 510	1 Jun 04	500 510	ND (0 80)	ND (0 26)

WELLBORE PW-4

Temporary Groundwater Well ID	Date Sampled	Screen Interval (ft bgs)	Perchlorate (ug/L)	TCE (ug/L)
PW-4 TO1-485	13 Aug 04	480 - 485	12	4 3
PW-4 TO2 525	16 Aug 04	520 525	1 8	3 5
PW-4 TO3 575	17 Aug-04	570 575	2 4	0 35 J
PW-4 TO4 617 5	19 Aug-04	612 5 617 5	12	3 2
PW-4 TO5 625	24 Aug-04	620 625	15	8 7
PW-4 TO6 647 5	27 Aug-04	642 5 647 5	18	4 2

WELLBORE PW-2

Temporary Groundwater Well ID	Date Sampled	Screen Interval (ft bgs)	Perchlorate (ug/L)	TCE (ug/L)
PW-2-T01-468	14 Jun-04	458 - 468	290	59
PW-2-T02-496	15-Jun-04	491 - 496	17	18
PW-2-T03-520	16-Jun-04	515 - 520	4 1	3 0
PW-2-T04-587	23-Jun-04	577 - 587	2 4	ND (0 26)
PW-2-T05-640	29-Jun-04	635 - 640	ND (1 0*)	ND (1 0*)

WELLBORE PW-3

Temporary Groundwater Well ID	Date Sampled	Screen Interval (ft bgs)	Perchlorate (ug/L)	TCE (ug/L)
PW-3-TO1-466	13-Jul 04	461 - 466	11	2 6
PW-3-TO2-505	14 Jul 04	500 - 505	3 1	0 94 J
PW-3-TO3-545	16 Jul 04	540 - 545	6 7	0 46 J
PW 3-TO4-585	20 Jul 04	580 - 585	1 9	ND (0 26)
PW-3-TO5 615	22-Jul-04	610 - 615	ND (0 80)	ND (0 26)

Figure 18
SUMMARY OF TEMPORARY GROUNDWATER WELL SAMPLING RESULTS FOR PERCHLORATE AND TRICHLOROETHENE

Rialto, California

Legend

- ( ) Wellbore Location
- Current Parcel Boundary (Assessor's Map, San Bernardino County), Numbers Represent Parcel Numbers
- 160-Acre Parcel (Site)
- Mid-Valley Sanitary Landfill Property Boundary
- Former Bunker Area
- Road
- Building

Notes Perchlorate and Trichloroethene (TCE) concentrations in micrograms per liter (ug/L)
"J" concentration indicates an estimated value below the laboratory reporting limit and above the Method Detection Limit (MDL)
ND = Not detected above the indicated MDL
ft bgs = feet below ground surface
* Indicates laboratory reporting limit
Aerial Photo USGS 1999

N

0 250 500 1,000 Feet

Date February 2005 | Project No HA0816

GeoSyntec Consultants

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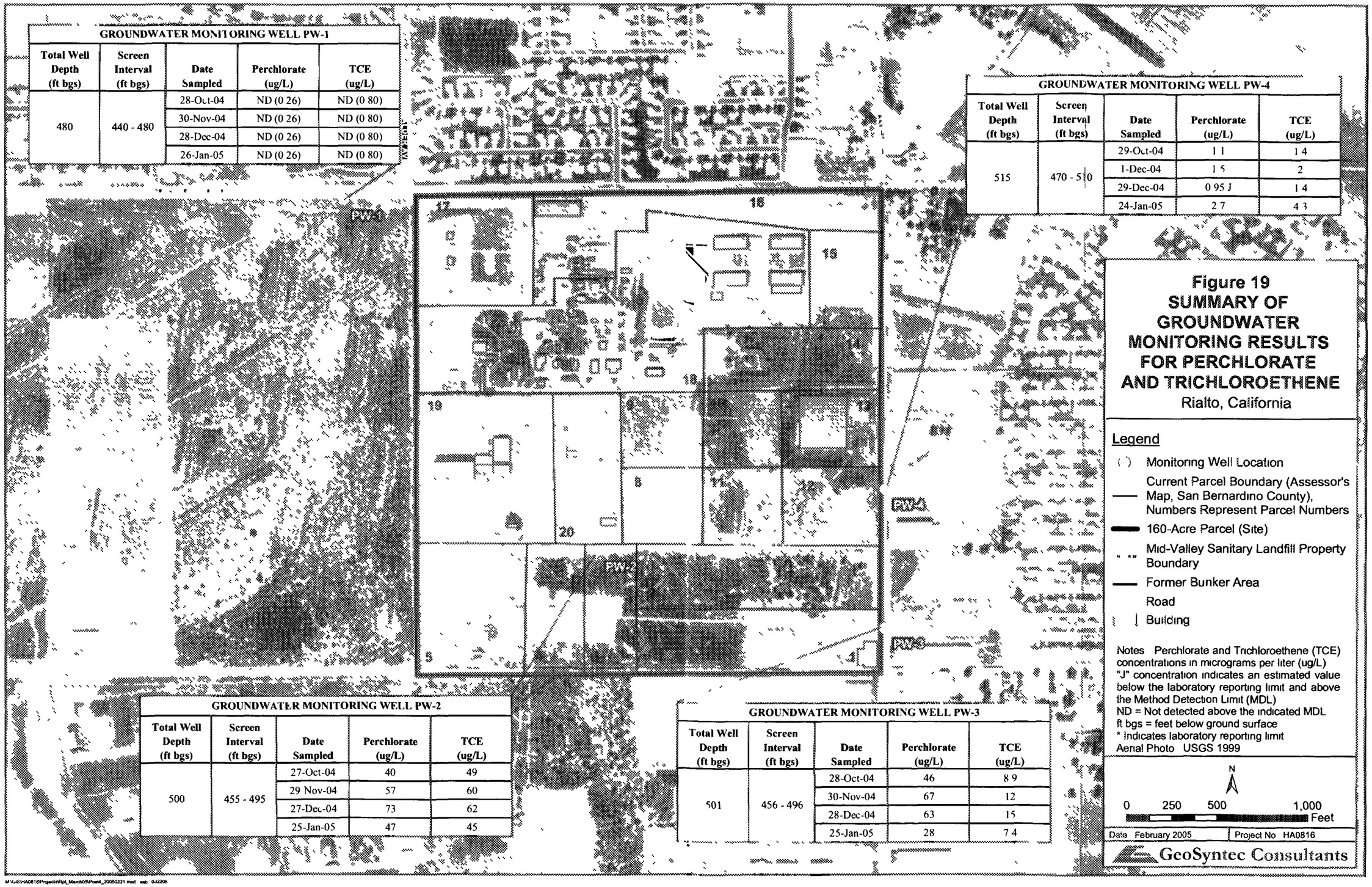

GROUNDWATER MONITORING WELL PW-1

Total Well Depth (ft bgs)	Screen Interval (ft bgs)	Date Sampled	Perchlorate (ug/L)	TCE (ug/L)
480	440 - 480	28-Oct-04	ND (0 26)	ND (0 80)
		30-Nov-04	ND (0 26)	ND (0 80)
		28-Dec-04	ND (0 26)	ND (0 80)
		26-Jan-05	ND (0 26)	ND (0 80)

GROUNDWATER MONITORING WELL PW-4

Total Well Depth (ft bgs)	Screen Interval (ft bgs)	Date Sampled	Perchlorate (ug/L)	TCE (ug/L)
515	470 - 510	29-Oct-04	1 1	1 4
		1-Dec-04	1 5	2
		29-Dec-04	0 95 J	1 4
		24-Jan-05	2 7	4 3

GROUNDWATER MONITORING WELL PW-2

Total Well Depth (ft bgs)	Screen Interval (ft bgs)	Date Sampled	Perchlorate (ug/L)	TCE (ug/L)
500	455 - 495	27-Oct-04	40	49
		29 Nov-04	57	60
		27-Dec-04	73	62
		25-Jan-05	47	45

GROUNDWATER MONITORING WELL PW-3

Total Well Depth (ft bgs)	Screen Interval (ft bgs)	Date Sampled	Perchlorate (ug/L)	TCE (ug/L)
501	456 - 496	28-Oct-04	46	8 9
		30-Nov-04	67	12
		28-Dec-04	63	15
		25-Jan-05	28	7 4

Figure 19
SUMMARY OF GROUNDWATER MONITORING RESULTS FOR PERCHLORATE AND TRICHLOROETHENE
Rialto, California

Legend

- ( ) Monitoring Well Location
- Current Parcel Boundary (Assessor's Map, San Bernardino County), Numbers Represent Parcel Numbers
- 160-Acre Parcel (Site)
- Mid-Valley Sanitary Landfill Property Boundary
- Former Bunker Area
- Road
- Building

Notes Perchlorate and Trichloroethene (TCE) concentrations in micrograms per liter (ug/L)
"J" concentration indicates an estimated value below the laboratory reporting limit and above the Method Detection Limit (MDL)
ND = Not detected above the indicated MDL
ft bgs = feet below ground surface
* Indicates laboratory reporting limit
Aerial Photo USGS 1999

N

0 250 500 1,000 Feet

Date February 2005 | Project No HA0816

GeoSyntec Consultants

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Tables

TABLES

Table 1

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Acetone	tert-Amyl Methyl Ether (TAME)	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	tert-Butanol (TBA)	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Research Lab and Small Mixers Area (Area A)																				
SG-RL-01	18-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-02	18-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-03	18-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-503 (Duplicate of SG-RL-03)	18-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-04	18-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-05	19-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-06	19-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-506 (Duplicate of SG-RL-06)	19-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-07	19-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-08	19-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-09	20-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-10	20-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-11	20-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-12	20-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromoethane	1,2-Dibromomethane	1,2-Dibromo-3-chloropropane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Research Lab and Small Mixers Area (Area A)																				
SG-RL-01	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-02	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-03	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-503 (Duplicate of SG-RL-03)	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-04	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-05	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1 0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1 0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-06	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-506 (Duplicate of SG-RL-06)	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-07	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1 0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-08	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-09	20-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-10	20-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-11	20-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-12	20-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Diisopropyl Ether (DIPE)	Ethylbenzene	Ethyl tert-Butyl Ether (EtBE)	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4-Methyl-2-pentanone	Methyl tert-butyl ether (MtBE)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Research Lab and Small Mixers Area (Area A)																				
SG-RL-01	18-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-02	18-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-03	18-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-503 (Duplicate of SG-RL-03)	18-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-04	18-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-05	19-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5 0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-06	19-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-506 (Duplicate of SG-RL-06)	19-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-07	19-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-08	19-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-09	20-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1 0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-10	20-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-11	20-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-12	20-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trichloropropane	Trichlorofluoromethane	Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylenes, m-,p-	Xylene, o-	Tentatively Identified Compounds (TICs)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Research Lab and Small Mixers Area (Area A)																			
SG-RL-01	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-02	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-03	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-503 (Duplicate of SG-RL-03)	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-04	18-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-05	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-06	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-506 (Duplicate of SG-RL-06)	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-07	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-08	19-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-09	20-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-10	20-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-11	20-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-RL-12	20-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Acetone	tert-Amyl Methyl Ether (TAME)	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	tert-Butanol (TBA)	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Research Lab and Small Mixers Area (Area A)																				
SG-RL-512 (Duplicate of SG-RL-12)	20-May-04	12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-13	20-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-14	21-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		9	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-15	21-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-16	21-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-17	21-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-18	21-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-RL-518 (Duplicate of SG-RL-18)	21-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Alleged Former Production Mixer Area (Area B)																				
SG-PM-01	24-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-02	24-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-03	24-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		9	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromethane	1,2 Dibromo 3 chloropropane	Dibromomethane	1,2-Dichlorobenzene	1,3 Dichlorobenzene	1,4 Dichlorobenzene	Dichlorodifluoromethane	1,1 Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2 Dichloroethene	trans 1,2 Dichloroethene	1,2 Dichloropropane	1,3 Dichloropropane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Research Lab and Small Mixers Area (Area A)																				
SG-RL-512 (Duplicate of SG-RL-12)	20-May-04	12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-RL-13	20-May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-RL-14	21-May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		9	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-RL-15	21-May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL-16	21-May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-RL-17	21-May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-RL-18	21-May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL 518 (Duplicate of SG-RL-18)	21-May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
Alleged Former Production Mixer Area (Area B)																				
SG-PM-01	24 May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-PM-02	24-May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM-03	24 May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		9	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	2 2 Dichloropropane	1 1 Dichloropropene	cis 1 3 Dichloropropene	trans 1 3 Dichloropropene	Diisopropyl Ether (DIPE)	Ethylbenzene	Ethyl tert Butyl Ether (ETBE)	Hexachlorobutadiene	2 Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4 Methyl 2 pentanone	Methyl tert butyl ether (MtBE)	Naphthalene	n Propylbenzene	Styrene	1,1 1 2 Tetrachloroethane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Research Lab and Small Mixers Area (Area A)																				
SG RL-512 (Duplicate of SG RL-12)	20-May-04	12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL-13	20-May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL-14	21 May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		9	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL-15	21 May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL 16	21 May 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL 17	21 May 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL 18	21 May 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG RL-518 (Duplicate of SG RL 18)	21 May 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
Alleged Former Production Mixer Area (Area B)																				
SG PM-01	24-May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM-02	24-May 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM-03	24-May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		9	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California
Page 8 of 25

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	1 1 2 2 Tetrachloroethane	Tetrachloroethene	Toluene	1 2 3 Trichlorobenzene	1 2 4 Trichlorobenzene	1 1 1 Trichloroethane	1 1 2 Trichloroethane	Trichloroethene	1 2 3 Trichloropropane	Trichlorofluoromethane	Trichlorotrifluoroethane	1 2 4 Trimethylbenzene	1 3 5 Trimethylbenzene	Vinyl chloride	Xylenes m p	Xylene o	Tentatively Identified Compounds (TICs)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Research Lab and Small Mixers Area (Area A)																			
SG RL-512 (Duplicate of SG-RL 12)	20-May 04	12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG RL 13	20-May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG RL-14	21 May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		9	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG RL 15	21 May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG RL 16	21 May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG RL 17	21 May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG RL-18	21 May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG RL 518 (Duplicate of SG RL 18)	21 May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
Alleged Former Production Mixer Area (Area B)																			
SG PM 01	24-May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG PM-02	24-May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG PM 03	24-May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		9	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Acetone	tert Amyl Methyl Ether (TAME)	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	tert Butanol (TBA)	2 Butanone	n Butylbenzene	sec Butylbenzene	tert Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Production Mixer Area (Area B)																				
SG PM 503 (Duplicate of SG PM-03)	24-May-04	9	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 04	25-May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		10	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 05	25 May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 505 (Duplicate of SG PM-05)	25 May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM-05A	25 May-04	10	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM-06	25 May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 07	24-May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 09	26 May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 10	26-May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 11	25 May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		10	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 12	25 May-04	6	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG PM 12A	25 May-04	10	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromoethane	1,2-Dibromethane	1,2-Dibromo-3-chloropropane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Production Mixer Area (Area B)																				
SG-PM-503 (Duplicate of SG-PM-03)	24-May-04	9	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-04	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-05	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-505 (Duplicate of SG-PM-05)	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-05A	25-May-04	10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-06	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-07	24-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-09	26-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-10	26-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-11	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-12	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-12A	25-May-04	10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Diisopropyl Ether (DIPE)	Ethylbenzene	Ethyl tert-Butyl Ether (EtBE)	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4-Methyl-2-pentanone	Methyl tert-butyl ether (MtBE)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Production Mixer Area (Area B)																				
SG-PM-503 (Duplicate of SG-PM-03)	24-May-04	9	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-04	25-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-05	25-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-505 (Duplicate of SG-PM-05)	25-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-05A	25-May-04	10	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-06	25-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-07	24-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-09	26-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-10	26-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-11	25-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-12	25-May-04	6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-PM-12A	25-May-04	10	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (50)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trichloropropane	Trichlorofluoromethane	Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylenes, m-,p-	Xylene, o-	Tentatively Identified Compounds (TICs)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Production Mixer Area (Area B)																			
SG-PM-503 (Duplicate of SG-PM-03)	24-May-04	9	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-04	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-05	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-505 (Duplicate of SG-PM-05)	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-05A	25-May-04	10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-06	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-07	24-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-09	26-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-10	26-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-11	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-12	25-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-PM-12A	25-May-04	10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Acetone	tert-Amyl Methyl Ether (TAME)	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	tert-Butanol (TBA)	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Burn Pit (Area C)																				
SG-BP-01	22-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-02	22-May-04	5.5	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-02A	22-May-04	12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-03	1-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-503 (Duplicate of SG-BP-03)	1-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-04	22-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-504 (Duplicate of SG-BP-04)	22-May-04	12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-05	1-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-06	1-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-07	27-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SG-BP-507 (Duplicate of SG-BP-07)	27-May-04	12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-08	27-May-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromethane	1,2-Dibromo-3-chloropropane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Burn Pit (Area C)																				
SG-BP-01	22-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		10	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-02	22-May-04	5.5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-02A	22-May-04	12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-03	1-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-503 (Duplicate of SG-BP-03)	1-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-04	22-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-504 (Duplicate of SG-BP-04)	22-May-04	12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-05	1-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-06	1-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-07	27-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SG-BP-507 (Duplicate of SG-BP-07)	27-May-04	12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-08	27-May-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	2,2 Dichloropropane	1,1-Dichloropropene	cis 1 3 Dichloropropene	trans 1,3 Dichloropropene	Diisopropyl Ether (DIPE)	Ethylbenzene	Ethyl tert Butyl Ether (EtBE)	Hexachlorobutadiene	2 Hexanone	Isopropylbenzene	p Isopropyltoluene	Methylene chloride	4 Methyl 2 pentanone	Methyl tert butyl ether (MtBE)	Naphthalene	n Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Burn Pit (Area C)																				
SG-BP-01	22-May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		10	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-02	22-May-04	5 5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-02A	22-May-04	12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-03	1-Jun-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-503 (Duplicate of SG-BP-03)	1-Jun-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP-04	22-May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-504 (Duplicate of SG-BP 04)	22-May-04	12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-05	1-Jun-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-06	1-Jun 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-07	27-May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SG BP-507 (Duplicate of SG BP-07)	27-May-04	12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-BP-08	27-May-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	1 1 2 2 Tetrachloroethane	Tetrachloroethene	Toluene	1 2 3 Trichlorobenzene	1 2 4 Trichlorobenzene	1 1 1 Trichloroethane	1 1 2 Trichloroethane	Trichloroethene	1 2 3 Trichloropropane	Trichlorofluoromethane	Trichlorotrifluoroethane	1 2 4 Trimethylbenzene	1 3 5 Trimethylbenzene	Vinyl chloride	Xylenes m p	Xylene o	Tentatively Identified Compounds (TICs)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Burn Pit (Area C)																			
SG BP-01	22 May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		10	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP-02	22 May-04	5 5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP-02A	22 May-04	12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP-03	1 Jun-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP 503 (Duplicate of SG BP 03)	1 Jun 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP-04	22 May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP 504 (Duplicate of SG BP 04)	22 May 04	12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP-05	1 Jun-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP-06	1 Jun 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP-07	27 May-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
SG BP 507 (Duplicate of SG BP 07)	27 May 04	12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
SG BP-08	27 May 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (2 0)	ND (1 0)	ND

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Acetone	tert-Amyl Methyl Ether (TAME)	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	tert-Butanol (TBA)	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Burn Pit (Area C)																				
SG-BP-508 (Duplicate of SG-BP-08)	27-May-04	12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	NR	NR	NR	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-09	2-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	NR	NR	NR	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	NR	NR	NR	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-10	2-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	NR	NR	NR	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	NR	NR	NR	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-510 (Duplicate of SG-BP-10)	2-Jun-04	12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-11	2-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-12	3-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-13	3-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-BP-14	4-Jun-04	6	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
		12	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Alleged Former Second Disposal Pit (Area D)																				
SG-SD-02	26-May-04	5	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-SD-03	26-May-04	5	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
SG-SD-04	26-May-04	5	ND (50)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (10)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Chloromethane	2 Chlorotoluene	4 Chlorotoluene	Dibromochloromethane	1 2 Dibromethane	1 2 Dibromo 3 chloropropane	Dibromomethane	1 2 Dichlorobenzene	1 3 Dichlorobenzene	1 4 Dichlorobenzene	Dichlorodifluoromethane	1 1 Dichloroethane	1 2 Dichloroethane	1 1 Dichloroethene	cis 1 2 Dichloroethene	trans 1 2 Dichloroethene	1 2 Dichloropropane	1 3 Dichloropropane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Burn Pit (Area C)																				
SG BP 508 (Duplicate of SG BP-08)	27 May-04	12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	NR	ND (1 0)	NR	NR	NR	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP-09	2 Jun-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	NR	ND (1 0)	NR	NR	NR	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	NR	ND (1 0)	NR	NR	NR	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 10	2 Jun-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	NR	ND (1 0)	NR	NR	NR	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	NR	ND (1 0)	NR	NR	NR	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 510 (Duplicate of SG BP 10)	2 Jun-04	12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 11	2 Jun-04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 12	3 Jun 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 13	3 Jun 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 14	4-Jun 04	6	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
Alleged Former Second Disposal Pit (Area D)																				
SG SD-02	26 May 04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 03	26 May 04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-04	26 May 04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	2 2 Dichloropropane	1 1 Dichloropropene	cis 1 3 Dichloropropene	trans 1 3 Dichloropropene	Diisopropyl Ether (DIPE)	Ethylbenzene	Ethyl tert Butyl Ether (EtBE)	Hexachlorobutadiene	2 Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4 Methyl 2 pentanone	Methyl tert butyl ether (MtBE)	Naphthalene	n Propylbenzene	Styrene	1 1 1 2 Tetrachloroethane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Burn Pit (Area C)																				
SG BP 508 (Duplicate of SG BP-08)	27 May-04	12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	NR	ND (10)	ND (1 0)	NR	ND (50)	ND (10)	ND (1 0)	NR	ND (1 0)	ND (1 0)	ND (1 0)
SG BP-09	2 Jun-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	NR	ND (10)	ND (1 0)	NR	ND (50)	ND (10)	ND (1 0)	NR	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	NR	ND (10)	ND (1 0)	NR	ND (50)	ND (10)	ND (1 0)	NR	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 10	2 Jun 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	NR	ND (10)	ND (1 0)	NR	ND (50)	ND (10)	ND (1 0)	NR	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	NR	ND (10)	ND (1 0)	NR	ND (50)	ND (10)	ND (1 0)	NR	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 510 (Duplicate of SG BP 10)	2 Jun-04	12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 11	2 Jun 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 12	3 Jun 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 13	3 Jun-04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG BP 14	4-Jun 04	6	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
		12	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
Alleged Former Second Disposal Pit (Area D)																				
SG SD 02	26 May 04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 03	26 May-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 04	26 May 04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,2,3-Trichloropropane	Trichlorofluoromethane	Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylenes, m-,p-	Xylene, o-	Tentatively Identified Compounds (TICs)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Burn Pit (Area C)																			
SG-BP-508 (Duplicate of SG-BP-08)	27-May-04	12	ND (2.0)	ND (1.0)	ND (1.0)	NR	NR	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	NR	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-BP-09	2-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	NR	NR	ND (1.0)	ND (1.0)	**0.2 J**	ND (2.0)	ND (1.0)	ND (5.0)	NR	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	NR	NR	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	NR	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-BP-10	2-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	NR	NR	ND (1.0)	ND (1.0)	**0.5 J**	ND (2.0)	ND (1.0)	ND (5.0)	NR	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	NR	NR	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	NR	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-BP-510 (Duplicate of SG-BP-10)	2-Jun-04	12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-BP-11	2-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-BP-12	3-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-BP-13	3-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	**1.7**	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	**0.3**	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-BP-14	4-Jun-04	6	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
		12	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
Alleged Former Second Disposal Pit (Area D)																			
SG-SD-02	26-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-03	26-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-04	26-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Acetone	tert Amyl Methyl Ether (TAME)	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	tert Butanol (TBA)	2 Butanone	n Butylbenzene	sec Butylbenzene	tert Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Second Disposal Pit (Area D)																				
SG SD-05	26-May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-06	26-May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 506 (Duplicate of SG-SD 06)	26-May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-07	26-May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-08	27 May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-09	4 Jun-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 10	4 Jun-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 11	4 Jun-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 12	4 Jun-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 13	4 Jun-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-513 (Duplicate of SG SD 13)	4-Jun-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 14	4 Jun-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 15	27 May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 16	27 May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 17	27 May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-18	27 May-04	5	ND (50)	ND (5 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (2 0)	ND (10)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	Chloromethane	2-Chlorotoluene	4 Chlorotoluene	Dibromochloromoethane	1,2-Dibromethane	1,2 Dibromo-3-chloropropane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4 Dichlorobenzene	Dichlorodifluoromethane	1,1 Dichloroethane	1,2 Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	1,2-Dichloropropane	1,3 Dichloropropane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Second Disposal Pit (Area D)																				
SG-SD-05	26-May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-06	26-May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-506 (Duplicate of SG-SD-06)	26-May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1.0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-07	26 May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-08	27-May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-09	4 Jun-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-10	4-Jun-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-11	4-Jun 04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-12	4-Jun-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD 13	4-Jun-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-513 (Duplicate of SG SD-13)	4-Jun-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-14	4-Jun-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-15	27-May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-16	27-May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-17	27-May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-18	27-May-04	5	ND (2 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3 Dichloropropene	trans 1,3 Dichloropropene	Diisopropyl Ether (DIPE)	Ethylbenzene	Ethyl tert Butyl Ether (EtBE)	Hexachlorobutadiene	2 Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4 Methyl 2-pentanone	Methyl tert butyl ether (MtBE)	Naphthalene	n Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Second Disposal Pit (Area D)																				
SG-SD-05	26-May 04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-06	26-May-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-506 (Duplicate of SG-SD-06)	26-May-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-07	26-May-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD 08	27-May 04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD 09	4-Jun-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-10	4-Jun-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-11	4-Jun 04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-12	4-Jun 04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-13	4-Jun 04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-513 (Duplicate of SG-SD-13)	4-Jun-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-14	4-Jun-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-15	27-May 04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD 16	27-May-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG-SD-17	27-May-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)
SG SD-18	27-May-04	5	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (5 0)	ND (1 0)	ND (10)	ND (1 0)	ND (1 0)	ND (50)	ND (10)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)	ND (1 0)

TABLE 1
SOIL GAS ANALYTICAL RESULTS
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Gas Sample Location ID	Date Sampled	Sample Depth (feet below ground surface)	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3 Trichlorobenzene	1,2,4 Trichlorobenzene	1,1,1-Trichloroethane	1,1,2 Trichloroethane	Trichloroethene	1,2,3 Trichloropropane	Trichlorofluoromethane	Trichlorotrifluoroethane	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	Vinyl chloride	Xylenes, m-,p-	Xylene, o	Tentatively Identified Compounds (TICs)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Alleged Former Second Disposal Pit (Area D)																			
SG-SD-05	26-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-06	26-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-506 (Duplicate of SG-SD 06)	26-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-07	26-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD 08	27-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD 09	4-Jun-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-10	4-Jun 04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG SD 11	4-Jun-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-12	4-Jun-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-13	4-Jun-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG SD-513 (Duplicate of SG-SD-13)	4-Jun-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-14	4-Jun-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-15	27 May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-16	27 May 04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG SD-17	27-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND
SG-SD-18	27-May-04	5	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (1.0)	ND (5.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND

NOTES:

All soil gas samples were analyzed for Volatile Organic Compounds by USEPA Method 8260 using an on-site mobile laboratory (Centrum Analytical of Riverside, California)

"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the Method Detection Limit (MDL)

ND = Not detected above the indicated Laboratory Project Reporting Limit

NR = Not reported or analyzed due to laboratory instrument error.

μg/L = micrograms per liter

Table 2

TABLE 2
SOIL ANALYTICAL RESULTS
VOCs, 1,4-Dioxane, RDX, Perchlorate, NDMA, Nitrate-N, Sulfate, and Chlorate
Remedial Investigation
160-Acre Parcel, Rialto, California
Page 1 of 6

Soil Boring ID	Date Sampled	Sample Depth (feet below ground surface)	VOLATILE ORGANIC COMPOUNDS (VOCs)													
			Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2 Butanone (MEK)	n Butylbenzene	sec Butylbenzene	tert Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Alleged Former Burn Pit (Area C)																
RIA-01	9 Jun-04	6	**0 022 B**	ND (0 0005)	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)
		12	**0 052 B**	ND (0 0005)	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)
RIA-02	9-Jun-04	6	ND (1 1)	ND (0 034)	ND (0 034)	ND (0 05)	ND (0 031)	ND (0 039)	ND (0 045)	ND (0 72)	ND (0 034)	ND (0 031)	ND (0 027)	ND (0 028)	ND (0 03)	ND (0 045)
		12	ND (1 1)	ND (0 034)	ND (0 034)	ND (0 05)	ND (0 031)	ND (0 039)	ND (0 045)	ND (0 72)	ND (0 034)	ND (0 031)	ND (0 027)	ND (0 028)	ND (0 03)	ND (0 045)
RIA-03	9 Jun-04	6	**0 029 B**	ND (0 0005)	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)
		12	**0 039 B**	ND (0 0005)	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)
RIA-04	9 Jun-04	6	**0 037 B**	ND (0 0005)	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)
		12	ND (1 1)	ND (0 034)	ND (0 034)	ND (0 05)	ND (0 031)	ND (0 039)	ND (0 045)	ND (0 72)	ND (0 034)	ND (0 031)	ND (0 027)	ND (0 028)	ND (0 03)	ND (0 045)
Alleged Former Second Disposal Pit (Area D)																
RIA 05	9 Jun-04	5	**0 031 B**	**0 00054 J**	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)
RIA 06	9 Jun-04	5	**0 027 B**	ND (0 0005)	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)
RIA-07	9 Jun-04	5	ND (0 0068)	**0 00052 J**	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)
RIA-08	9 Jun-04	5	ND (0 0068)	**0 0012 J**	ND (0 00084)	ND (0 00044)	ND (0 00042)	ND (0 0008)	ND (0 00092)	ND (0 0073)	ND (0 00072)	ND (0 00067)	ND (0 00062)	ND (0 00066)	ND (0 00052)	ND (0 0011)

TABLE 2
SOIL ANALYTICAL RESULTS
VOCs, 1,4-Dioxane, RDX, Perchlorate, NDMA, Nitrate-N, Sulfate, and Chlorate
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Boring ID	Date Sampled	Sample Depth (feet below ground surface)	VOLATILE ORGANIC COMPOUNDS (VOCs)													
			Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibrochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromomethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Alleged Former Burn Pit (Area C)																
RIA-01	9-Jun-04	6	ND (0 00040)	ND (0 0014)	ND (0 00087)	ND (0 00074)	ND (0 00056)	ND (0.0015)	ND (0 00066)	ND (0 00062)	ND (0.00095)	ND (0 00084)	ND (0 00094)	ND (0 00082)	ND (0 00037)	ND (0 00058)
		12	*ND (0 00040)*	*ND (0 0014)*	*ND (0 00087)*	*ND (0 00074)*	*ND (0 00056)*	*ND (0 0015)*	*ND (0 00066)*	*ND (0 00062)*	*ND (0 00095)*	*ND (0 00084)*	*ND (0 00094)*	*ND (0 00082)*	*ND (0 00037)*	*ND (0 00058)*
RIA-02	9-Jun-04	6	ND (0 044)	ND (0 05)	ND (0 032)	ND (0 032)	ND (0 027)	ND (0 059)	ND (0 04)	ND (0 042)	ND (0 032)	ND (0 031)	ND (0 034)	ND (0 061)	ND (0 04)	ND (0 041)
		12	ND (0 044)	ND (0 05)	ND (0 032)	ND (0 032)	ND (0 027)	ND (0 059)	ND (0 04)	ND (0 042)	ND (0 032)	ND (0 031)	ND (0 034)	ND (0 061)	ND (0 04)	ND (0 041)
RIA-03	9-Jun-04	6	ND (0 00040)	ND (0 0014)	ND (0 00087)	ND (0 00074)	ND (0 00056)	ND (0 0015)	ND (0 00066)	ND (0 00062)	ND (0 00095)	ND (0 00084)	ND (0 00094)	ND (0 00082)	ND (0 00037)	ND (0 00058)
		12	ND (0 00040)	ND (0 0014)	ND (0 00087)	ND (0 00074)	ND (0 00056)	ND (0 0015)	ND (0 00066)	ND (0 00062)	ND (0 00095)	ND (0 00084)	ND (0 00094)	ND (0 00082)	ND (0 00037)	ND (0 00058)
RIA-04	9-Jun-04	6	ND (0 00040)	ND (0 0014)	ND (0 00087)	ND (0 00074)	ND (0 00056)	ND (0 0015)	ND (0 00066)	ND (0 00062)	ND (0 00095)	ND (0 00084)	ND (0 00094)	ND (0 00082)	ND (0 00037)	ND (0 00058)
		12	ND (0 044)	ND (0 05)	ND (0 032)	ND (0 032)	ND (0 027)	ND (0 059)	ND (0 04)	ND (0 042)	ND (0 032)	ND (0 031)	ND (0 034)	ND (0 061)	ND (0 04)	ND (0 041)
Alleged Former Second Disposal Pit (Area D)																
RIA-05	9-Jun-04	5	ND (0 00040)	ND (0 0014)	ND (0 00087)	ND (0 00074)	ND (0 00056)	ND (0 0015)	ND (0 00066)	ND (0 00062)	ND (0 00095)	ND (0 00084)	ND (0 00094)	ND (0 00082)	ND (0 00037)	ND (0 00058)
RIA-06	9-Jun-04	5	ND (0 00040)	ND (0 0014)	ND (0 00087)	ND (0 00074)	ND (0 00056)	ND (0 0015)	ND (0 00066)	ND (0 00062)	ND (0 00095)	ND (0 00084)	ND (0 00094)	ND (0 00082)	ND (0 00037)	ND (0 00058)
RIA-07	9-Jun-04	5	ND (0 00040)	ND (0 0014)	ND (0 00087)	ND (0 00074)	ND (0 00056)	ND (0 0015)	ND (0 00066)	ND (0 00062)	ND (0 00095)	ND (0 00084)	ND (0 00094)	ND (0 00082)	ND (0 00037)	ND (0 00058)
RIA-08	9-Jun-04	5	ND (0 00040)	ND (0 0014)	ND (0 00087)	ND (0 00074)	ND (0 00056)	ND (0 0015)	ND (0 00066)	ND (0 00062)	ND (0 00095)	ND (0 00084)	ND (0 00094)	ND (0 00082)	ND (0 00037)	ND (0 00058)

TABLE 2
SOIL ANALYTICAL RESULTS
VOCs, 1,4-Dioxane, RDX, Perchlorate, NDMA, Nitrate-N, Sulfate, and Chlorate
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Boring ID	Date Sampled	Sample Depth (feet below ground surface)	VOLATILE ORGANIC COMPOUNDS (VOCs)													
			1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	p-Isopropyltoluene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Alleged Former Burn Pit (Area C)																
RIA-01	9-Jun-04	6	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (0.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)
		12	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (0.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)
RIA-02	9-Jun-04	6	ND (0.048)	ND (0.048)	ND (0.05)	ND (0.035)	ND (0.036)	ND (0.027)	ND (0.039)	ND (0.036)	ND (0.035)	ND (0.027)	ND (0.039)	ND (0.1)	ND (0.035)	ND (0.048)
		12	ND (0.048)	ND (0.048)	ND (0.05)	ND (0.035)	ND (0.036)	ND (0.027)	ND (0.039)	ND (0.036)	ND (0.035)	ND (0.027)	ND (0.039)	ND (0.1)	ND (0.035)	ND (0.048)
RIA-03	9-Jun-04	6	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (0.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)
		12	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (0.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)
RIA-04	9-Jun-04	6	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (0.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)
		12	ND (0.048)	ND (0.048)	ND (0.05)	ND (0.035)	ND (0.036)	ND (0.027)	ND (0.039)	ND (0.036)	ND (0.035)	ND (0.027)	ND (0.039)	ND (0.1)	ND (0.035)	ND (0.048)
Alleged Former Second Disposal Pit (Area D)																
RIA-05	9-Jun-04	5	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)
RIA-06	9-Jun-04	5	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)
RIA-07	9-Jun-04	5	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)
RIA-08	9-Jun-04	5	ND (0.00045)	ND (0.00035)	ND (0.00041)	ND (0.00030)	ND (0.00063)	ND (0.00045)	ND (.00028)	ND (0.00044)	ND (0.00051)	ND (0.00051)	ND (0.00073)	ND (0.0091)	ND (0.00054)	ND (0.00072)

TABLE 2
SOIL ANALYTICAL RESULTS
VOCs, 1,4-Dioxane, RDX, Perchlorate, NDMA, Nitrate-N, Sulfate, and Chlorate
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Boring ID	Date Sampled	Sample Depth (feet below ground surface)	VOLATILE ORGANIC COMPOUNDS (VOCs)													
			Methylene chloride	4-Methyl-2-pentanone (MBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Alleged Former Burn Pit (Area C)																
RIA-01	9-Jun-04	6	ND (0.0065)	ND (0.0032)	ND (0.0011)	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	ND (0.00091)	ND (0.001)	ND (0.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)
		12	ND (0.0065)	ND (0.0032)	ND (0.0011)	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	ND (0.00091)	ND (0.001)	ND (.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)
RIA-02	9-Jun-04	6	ND (0.43)	ND (0.39)	ND (0.081)	ND (0.036)	ND (0.03)	ND (0.021)	ND (0.054)	ND (0.044)	ND (0.033)	ND (0.058)	ND (0.051)	ND (0.038)	ND (0.053)	ND (0.038)
		12	ND (0.43)	ND (0.39)	ND (0.081)	ND (0.036)	ND (0.03)	ND (0.021)	ND (0.054)	ND (0.044)	ND (0.033)	ND (0.058)	ND (0.051)	ND (0.038)	ND (0.053)	ND (0.038)
RIA-03	9-Jun-04	6	ND (0.0065)	ND (0.0032)	ND (0.0011)	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	ND (0.00091)	ND (0.001)	ND (0.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)
		12	ND (0.0065)	ND (0.0032)	**0.0021 J**	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	ND (0.00091)	ND (0.001)	ND (0.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)
RIA-04	9-Jun-04	6	ND (0.0065)	ND (0.0032)	**0.0021 J**	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	ND (0.00091)	ND (0.001)	ND (0.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)
		12	ND (0.43)	ND (0.39)	ND (0.081)	ND (0.036)	ND (0.03)	ND (0.021)	ND (0.054)	ND (0.044)	ND (0.033)	ND (0.058)	ND (0.051)	ND (0.038)	ND (0.053)	ND (0.038)
Alleged Former Second Disposal Pit (Area D)																
RIA-05	9-Jun-04	5	ND (0.0065)	ND (0.0032)	**0.0023 J**	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	ND (0.00091)	ND (0.001)	ND (0.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)
RIA-06	9-Jun-04	5	ND (0.0065)	ND (0.0032)	ND (0.0011)	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	ND (0.00091)	ND (0.001)	ND (0.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)
RIA-07	9-Jun-04	5	ND (0.0065)	ND (0.0032)	ND (0.0011)	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	ND (0.00091)	ND (0.001)	ND (0.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)
RIA-08	9-Jun-04	5	ND (0.0065)	ND (0.0032)	ND (0.0011)	ND (0.00061)	ND (0.00058)	ND (0.00057)	ND (0.00077)	ND (0.00049)	**0.00092 J**	ND (0.001)	ND (0.001)	ND (0.00039)	ND (0.00076)	ND (0.00034)

TABLE 2
SOIL ANALYTICAL RESULTS
VOCs, 1,4-Dioxane, RDX, Perchlorate, NDMA, Nitrate-N, Sulfate, and Chlorate
Remedial Investigation
160-Acre Parcel, Rialto, California

Soil Boring ID	Date Sampled	Sample Depth (feet below ground surface)	VOLATILE ORGANIC COMPOUNDS (VOCs)								
			Trichlorofluoromethane	1 2 3 Trichloropropane	1 2 4 Trimethylbenzene	1 3 5 Trimethylbenzene	Vinyl chloride	o Xylene	m p Xylenes	Methyl tert butyl Ether (MTBE)	Tentatively Identified Compounds (TICs)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Alleged Former Burn Pit (Area C)											
RIA-01	9-Jun-04	6	ND (0 00054)	ND (0 0017)	ND (0 00078)	ND (0 00063)	ND (0 00091)	ND (0 00047)	ND (0 00075)	ND (0 001)	**Trimethylsilanol = 0 013 B,J**
		12	ND (0 00054)	ND (0 0017)	ND (0 00078)	ND (0 00063)	ND (0 00091)	ND (0 00047)	ND (0 00075)	ND (0 001)	**Trimethylsilanol = 0 023 B,J**
RIA-02	9 Jun-04	6	ND (0 058)	ND (0 048)	ND (0 033)	ND (0 03)	ND (0 065)	ND (0 028)	ND (0 053)	ND (0 062)	ND
		12	ND (0 058)	ND (0 048)	ND (0 033)	ND (0 03)	ND (0 065)	ND (0 028)	ND (0 053)	ND (0 062)	ND
RIA-03	9 Jun 04	6	ND (0 00054)	ND (0 0017)	ND (0 00078)	ND (0 00063)	ND (0 00091)	ND (0 00047)	ND (0 00075)	ND (0 001)	**Trimethylsilanol = 0 019 B,J**
		12	*ND (0 00054)*	*ND (0 0017)*	*ND (0 00078)*	*ND (0 00063)*	*ND (0 00091)*	*ND (0 00047)*	*ND (0 00075)*	*ND (0 001)*	***Trimethylsilanol = 0 02 B,J***
RIA-04	9 Jun 04	6	ND (0 00054)	ND (0 0017)	ND (0 00078)	ND (0 00063)	ND (0 00091)	ND (0 00047)	ND (0 00075)	ND (0 001)	**Trimethylsilanol = 0 021 B,J**
		12	ND (0 058)	ND (0 048)	ND (0 033)	ND (0 03)	ND (0 065)	ND (0 028)	ND (0 053)	ND (0 062)	ND
Alleged Former Second Disposal Pit (Area D)											
RIA-05	9 Jun 04	5	ND (0 00054)	ND (0 0017)	ND (0 00078)	ND (0 00063)	ND (0 00091)	ND (0 00047)	ND (0 00075)	ND (0 001)	**Trimethylsilanol = 0 018 B,J**
RIA-06	9 Jun-04	5	ND (0 00054)	ND (0 0017)	ND (0 00078)	ND (0 00063)	ND (0 00091)	ND (0 00047)	ND (0 00075)	ND (0 001)	**Trimethylsilanol = 0 026 B,J**
RIA-07	9 Jun 04	5	ND (0 00054)	ND (0 0017)	ND (0 00078)	ND (0 00063)	ND (0 00091)	ND (0 00047)	ND (0 00075)	ND (0 001)	**2-Ethyl-1-hexanol = 0 052** **Trimethylsilanol = 0 016 B,J**
RIA-08	9 Jun 04	5	ND (0 00054)	**0 003 J**	ND (0 00078)	ND (0 00063)	ND (0 00091)	ND (0 00047)	ND (0 00075)	ND (0 001)	**2-Ethyl-1-hexanol = 1 6**

TABLE 2
SOIL ANALYTICAL RESULTS
VOCs, 1,4-Dioxane, RDX, Perchlorate, NDMA, Nitrate-N, Sulfate, and Chlorate
Remedial Investigation
160-Acre Parcel, Rialto, California
Page 6 of 6

Soil Boring ID	Date Sampled	Sample Depth (feet below ground surface)	1 4 Dioxane	RDX	Perchlorate	N nitrosodimethylamine (NDMA)	Nitrate-N	Sulfate	Chlorate *
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Alleged Former Burn Pit (Area C)									
RIA-01	9 Jun-04	6	ND (0 0011)	ND (0 11)	**0.45**	ND (0 00012)	**2 1**	**32**	ND (0 1)
		12	ND (0 0011)	ND (0 11)	**0.44**	ND (0 00012)	**3 1**	**49**	ND (0 1)
RIA 02	9 Jun-04	6	ND (0 0011)	ND (0 11)	**0.31**	ND (0 00012)	**7 8**	**30**	ND (0 1)
		12	**0 0011 J,B**	ND (0 11)	**0.28**	ND (0 00012)	**3 0**	**15**	ND (0 1)
RIA-03	9 Jun 04	6	ND (0 0011)	ND (0 11)	**0 037 J**	ND (0 00012)	**7.4**	**20**	ND (0 1)
		12	ND (0 0011)	ND (0 11)	**0 036 J**	ND (0 00012)	**6 0**	**19**	ND (0 1)
RIA-04	9-Jun 04	6	ND (0 0011)	ND (0 11)	**0 18**	ND (0 00012)	**12**	**54**	ND (0 1)
		12	**0 0011 J**	ND (0 11)	**0 63**	ND (0 00012)	**61**	**42**	ND (0 1)
Alleged Former Second Disposal Pit (Area D)									
RIA-05	9 Jun-04	5	ND (0 0011)	ND (0 11)	ND (0 008)	ND (0 00012)	**1 0 J**	**5 0**	ND (0 1)
RIA-06	9 Jun 04	5	ND (0 0011)	ND (0 11)	ND (0 008)	ND (0 00012)	ND (0 72)	**12**	ND (0 1)
RIA-07	9 Jun-04	5	ND (0 0011)	ND (0 11)	ND (0 008)	ND (0 00012)	**0.87 J**	**13**	ND (0 1)
RIA 08	9 Jun 04	5	ND (0 0011)	ND (0 11)	ND (0 008)	ND (0 00012)	**0.8 J**	**10**	ND (0 1)

NOTES

ND = Not detected above the indicated Method Detection Limit (MDL)

Where * is indicated, detection limit provided is the Laboratory Project Reporting Limit

"J" indicates concentration is an estimated value due to its detection below the Laboratory Project Reporting Limit and above the MDL

"B" indicates the analyte was detected in the associated laboratory Method Blank sample

µg/kg = micrograms per kilogram

Volatile Organic Compounds analyzed by USEPA Method 5030B/8260B

1,4-Dioxane analyzed by USEPA Method 3520C

RDX analyzed by USEPA Method 8330

Perchlorate analyzed by USEPA Method 314 0

N Nitrosodimethylamine analyzed by USEPA Method 1625C Modified

Nitrate-N analyzed by USEPA Method 300 0

Sulfate analyzed by USEPA Method 300 0

Chlorate analyzed by USEPA Method 300 1

Table 3

TABLE 3
SOIL ANALTYICAL RESULTS - METALS
Remedial Investigation
160-Acre Parcel, Rialto, California
Page 1 of 2

Soil Boring ID	Date Sampled	Sample Depth (ft bgs)	Aluminum	Cerium	Arsenic	Barium	Boron	Calcium	Chromium (Total)	Chromium VI	Cobalt	Copper	Iron	Lead	Lithium	Manganese
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Alleged Former Burn Pit (Area C)																
RIA-01	9-Jun-04	6	12,000	13	5 9	140	ND (1 9)	4,800 B-1	13	0 056 J	3 4	11	21,000 B-1	4 5	13	140
		12	3,800	9 1	2 9	25	ND (0 93)	1,100 B-1	9 9	0 041 J	3 6	8 3	7,200 B-1	4 3	ND (5 6)	160
RIA-02	9-Jun-04	6	13,000	6 4	2 5	51	ND (0 93)	5,600 B-1	10	ND (0 0 13)	3 3	8 5	14,000 B-1	5 6	9 9	140
		12	12,000	3 9	1 3	36	ND (0 93)	4,600 B-1	8 5	0 055 J	6 2	3 7	19,000 B-1	1 1	14	180
RIA-03	9-Jun-04	6	5,900	3 3	0 45 J	22	ND (0 93)	1,900 B-1	13	0 016 J	3 1	3 4	9,600 B-1	9 2	7 7	180
		12	8,700	13	2 7	32	ND (0 93)	2,900 B 1	8 0	0 049 J	3 8	11	12,000 B-1	3 6	9 6	180
RIA-04	9-Jun-04	6	8,700	65	2 1	39	ND (0 93)	2,600 B-1	16	0 18 J	3 9	9 3	15,000 B-1	33	12	180
		12	7 800	7 9	1 6	23	ND (0 93)	3,100 B 1	11	0 063 J	4 5	13	12,000 B-1	2 7	9 3	180
Alleged Former Second Disposal Pit (Area D)																
RIA-05	9-Jun 04	5	9,700	25	1 9	36	ND (0 93)	4,000 B-1	17	0 048 J	5 5	14	14,000 B-1	3 5	15	200
RIA-06	9-Jun 04	5	7,200	13	1 4	46	ND (0 93)	2,600 B-1	12	0 079 J	5 2	6 9	12,000 B-1	3 7	11	220
RIA-07	9-Jun 04	5	6,600	8 7	1 7	30	ND (0 93)	2,600 B-1	10	0 096 J	4 6	7 5	10,000 B-1	2 7	8 9	180
RIA-08	9-Jun-04	5	7,200	7 8	2 5	39	ND (0 93)	3,300 B-1	17	ND (0 013)	5 3	12	11,000 B-1	2 7	9 7	180
		Average	8,550	14 7	2 41	43	ND	3,258	12 1	0 0683	4 4	9 1	13,067	6	11	177
		Maximum	13,000	65	5 9	140	ND	5,600	17	0 18	6 2	14	21,000	33	15	220
		USEPA Region 9 PRGs[1]	76,000	NA	0 062	5,400	16,000	NA	210	30	900	3100	23,000	150	1,600	1,800
		California Soils[2] Mean	7 3	159	3 5	509	19	14,466	122	NA	14 9	28 7	4	24	23	646
		California Soils[2] Maximum	10 6	305	11 0	1,400	74	45,577	1,579	NA	46 9	96 4	9	97	90	1,687

TABLE 3
SOIL ANALTYICAL RESULTS - METALS
Remedial Investigation
160-Acre Parcel, Rialto, California
Page 2 of 2

Soil Boring ID	Date Sampled	Sample Depth (ft bgs)	Magnesium	Nickel	Potassium	Sodium	Strontium	Vanadium	Zinc	Zirconium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Alleged Former Burn Pit (Area C)										
RIA-01	9-Jun-04	6	7,700 B-1	6 3	5,200	270	29	21	24 B-1	1 4 B, J
		12	1,800 B-1	6 4	1,100	180	5 4	18	28 B-1	ND (0 73)
RIA-02	9-Jun-04	6	4,700 B-1	6 1	2,100	220	28	20	21 B-1	2 7 B, J
		12	7,400 B-1	6 4	1,200	210	25	21	34 B-1	1 2 B, J
RIA-03	9-Jun-04	6	2,800 B-1	4 1	1,000	110	13	17	31 B-1	0 75 B, J
		12	4,000 B-1	7 0	1,000	350	20	22	26 B-1	1 4 B, J
RIA-04	9-Jun-04	6	4,800 B-1	5 9	1,300	130	14	22	25 B-1	1 3 B, J
		12	4,000 B-1	6 3	960	130	24	21	27 B-1	1 3 B, J
Alleged Former Second Disposal Pit (Area D)										
RIA-05	9-Jun-04	5	5,700 B-1	20	1,500	110	33	28	35 B-1	1 2 B, J
RIA-06	9-Jun-04	5	3,900 B-1	4 8	1,800	160	30	31	25 B-1	1 1 B, J
RIA-07	9-Jun-04	5	3,100 B-1	5 2	1,500	110	18	27	27 B-1	1 2 B, J
RIA-08	9-Jun-04	5	3,700 B-1	15	1,600	220	35	18	23 B-1	1 1 B, J
		Average	4,467	8	1,688	183	23	22	27	1 33
		Maximum	7,700	20	5,200	350	35	31	35	2 7
		USEPA Region 9 PRGs[1]	NA	1,600	NA	NA	47,000	78	23,000	NA
		California Soils[2] Mean	9,923	57	2	15,838	128	112	149	93
		California Soils[2] Maximum	32,378	509	3	73,400	271	288	236	610

NOTES:

ND = Not detected above the indicated Method Detection Limit (MDL)

NA = Not available

"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the MDL

"B" indicates the analyte was also detected in the associated laboratory Method Blank sample

"B-1" indicates the analyte was detected in the associated laboratory Method Blank sample The analyte concentration in the soil sample is greater than 10x the concetration found in the laboratory Method Blank sample

mg/kg = milligrams per kilogram

ft bgs = feet below ground surface

All metals analyzed by USEPA Method 6010B/6020, with the exception of Chromium VI by USEPA Method 7199

[1]United States Environmental Protection Agency (USEPA), Region 9, 2004 EPA Region 9 Preliminary Remediation Goals (PRGs) Table October 1

[2]Bradford, et al , 1996 "Background Concentrations of Trace and Major Elements in California Soils " Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California. March

Table 4

TABLE 4
TEMPORARY GROUNDWATER WELL DATA
Remedial Investigation
160-Acre Parcel, Rialto, California

Wellbore ID	Total Wellbore Depth (ft bgs)	First Encountered Groundwater Depth (ft bgs)	Temporary Well ID	Installation Date of Temporary Well	Total Temporary Well Depth (ft bgs)	Screened Interval (ft bgs)	Approximate Water-Producing Interval[1] (ft bgs)	Approximate Static Water Level (ft bgs)	Approximate Static Water Level (ft MSL)
PW-1	510.5	440	PW-1A-T01-444	26-May-04	480	434 - 444	434 - 444	430.98	1,274
			PW-1A-T02-510	28-May-04	510	500 - 510	477 - 510	504.15	1,201
PW-2	644	465	PW-2-T01-468	11-Jun-04	468	458 - 468	437 - 470	462.54	1,177
			PW-2-T02-496	15-Jun-04	496	491 - 496	487 - 497	462.50	1,177
			PW-2-T03-520	16-Jun-04	520	515 - 520	516 - 521	498.79	1,141
			PW-2-T04-587	23-Jun-04	572	577 - 587	577 - 588	572.22	1,068
			PW-2-T05-640	29-Jun-04	640	635 - 640	637 - 642	621.49	1,019
PW-3	629	458	PW-3-TO1-466	13-Jul-04	466	461 - 466	457 - 467	450.71	1,161
			PW-3-TO2-505	14-Jul-04	505	500 - 505	499 - 510	458.00	1,154
			PW-3-TO3-545	16-Jul-04	545	540 - 545	537 - 547	512.50	1,100
			PW-3-TO4-585	20-Jul-04	585	580 - 585	585.5 - 586.5	564.65	1,047
			PW-3-TO5-615	22-Jul-04	615	610 - 615	616 - 624	590.95	1,021

TABLE 4
TEMPORARY GROUNDWATER WELL DATA
Remedial Investigation
160-Acre Parcel, Rialto, California

Wellbore ID	Total Wellbore Depth (ft bgs)	First Encountered Groundwater Depth (ft bgs)	Temporary Well ID	Installation Date of Temporary Well	Total Temporary Well Depth (ft bgs)	Screened Interval (ft bgs)	Approximate Water-Producing Interval[1] (ft bgs)	Approximate Static Water Level (ft bgs)	Approximate Static Water Level (ft MSL)
PW-4	650	480	PW-4-TO1-485	12-Aug-04	485	480 - 485	476 - 486	460.3	1,167
			PW-4-TO2-525	13-Aug-04	525	520 - 525	516 - 526	464.42	1,163
			PW-4-TO3-575	16-Aug-04	575	570 - 575	566 - 576	566.10	1,061
			PW-4-TO4-617.5	19-Aug-04	617.5	612.5 - 617.5	616 - 627	615.55	1,011
			PW-4-TO5-625	23-Aug-04	625	620 - 625	628 - 630	567.90	1,059
			PW-4-TO6-647.5	26-Aug-04	647.5	642.5 - 647.5	646 - 648	615.50	997

NOTES:

[1]Exposed native materials between the bottom of the drive casing and the bottom of the borehole

ft bgs = feet below ground surface

ft MSL = feet above Mean Sea Level

Table 5

TABLE 5
GROUNDWATER ANALYTICAL RESULTS OF TEMPORARY WELL SAMPLING
Remedial Investigation
160-Acre Parcel, Rialto, California

Temporary Groundwater Well Sample ID	Screened Interval (feet below ground surface)	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)																
			Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene
			µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
Wellbore PW-1																			
PW-1A-T01-444	434 - 444	27-May-04	**8.9 J**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)
PW-1A-T02-510	500 - 510	1-Jun-04	**5.6 J**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)
Wellbore PW-2																			
PW-2-T01-468	458 - 468	14-Jun-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0 34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)
PW-2-T02-496	491 - 496	15-Jun-04	**4.5 J**	ND (0.28)	ND (0 27)	ND (0.32)	ND (0.30)	ND (0 32)	ND (0.34)	ND (3.8)	ND (0 37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)
PW-2-T03-520	515 - 520	16-Jun-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0 33)	ND (0.33)	ND (0.30)	ND (0.28)
PW-26-TO3-520 (Duplicate of PW-2-T03-520)	515 - 520	16-Jun-04	**4.8 J**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0 33)	ND (0.30)	ND (0.28)
PW-2-T04-587	577 - 587	23-Jun-04	**7.1 J**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)
PW-2-T05-640	635 - 640	29-Jun-04	**9.1 J**	ND (0.50) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (10) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (0.50) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *
Wellbore PW-3																			
PW-3-TO1-466	461 - 466	13-Jul-04	**8.6 J**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)
PW-3-TO2-505	500 - 505	14-Jul-04	**5.2 J**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0 30)	ND (0 32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)
PW-3-TO3-545	540 - 545	16-Jul-04	**20**	**0.46 J**	ND (0.27)	ND (0.32)	ND (0 30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0 22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)
PW-3-TO4-585	580 - 585	20-Jul-04	**23**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	**4.8 J**	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0 33)	ND (0.30)	ND (0.28)
PW-3-TO5-615	610 - 615	22-Jul-04	**23**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.37)	ND (0.25)	ND (0.22)	ND (0.28)	ND (0.36)	ND (0 33)	ND (0.33)	**0.31 J**	ND (0.28)

TABLE 5
GROUNDWATER ANALYTICAL RESULTS OF TEMPORARY WELL SAMPLING
Remedial Investigation
160-Acre Parcel, Rialto, California

Temporary Groundwater Well Sample ID	Screened Interval (feet below ground surface)	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)																
			4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromomethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane
			µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
Wellbore PW-1																			
PW-1A-T01-444	434 - 444	27-May-04	ND (0.29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
PW-1A-T02-510	500 - 510	1-Jun-04	ND (0.29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
Wellbore PW-2																			
PW-2-T01-468	458 - 468	14-Jun-04	ND (0.29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0 35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
PW-2-T02-496	491 - 496	15-Jun-04	ND (0.29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
PW-2-T03-520	515 - 520	16-Jun-04	ND (0 29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
PW-26-TO3-520 (Duplicate of PW-2-T03-520)	515 - 520	16-Jun-04	ND (0.29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0 35)	ND (0.30)	ND (0.29)
PW-2-T04-587	577 - 587	23-Jun-04	ND (0 29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0 28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
PW-2-T05-640	635 - 640	29-Jun-04	ND (1 0) *	ND (1.0) *	ND (5 0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1 0) *	ND (5.0) *	ND (1.0) *	ND (0.50) *	ND (1.0) *	ND (1 0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *
Wellbore PW-3																			
PW-3-TO1-466	461 - 466	13-Jul-04	ND (0.29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0 35)	ND (0.30)	ND (0.29)
PW-3-TO2-505	500 - 505	14-Jul-04	ND (0.29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
PW-3-TO3-545	540 - 545	16-Jul-04	ND (0 29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0 35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
PW-3-TO4-585	580 - 585	20-Jul-04	ND (0.29)	ND (0 28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)
PW-3-TO5-615	610 - 615	22-Jul-04	ND (0.29)	ND (0.28)	ND (0.92)	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.32)	ND (0.27)	ND (0.35)	ND (0.30)	ND (0.29)

TABLE 5
GROUNDWATER ANALYTICAL RESULTS OF TEMPORARY WELL SAMPLING
Remedial Investigation
160-Acre Parcel, Rialto, California

Temporary Groundwater Well Sample ID	Screened Interval (feet below ground surface)	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)																
			1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4-Methyl-2-pentanone (MBK)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene
			µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
Wellbore PW-1																			
PW-1A-T01-444	434 - 444	27-May-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	ND (0.48)	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-1A-T02-510	500 - 510	1-Jun-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	ND (0.48)	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
Wellbore PW-2																			
PW-2-T01-468	458 - 468	14-Jun-04	ND (0 28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	**2.1 J**	ND (2.5)	**0.47 J**	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-2-T02-496	491 - 496	15-Jun-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0 28)	**6.2**	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-2-T03-520	515 - 520	16-Jun-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	**0.68 J**	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-26-TO3-520 (Duplicate of PW-2-T03-520)	515 - 520	16-Jun-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	**0.95 J**	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-2-T04-587	577 - 587	23-Jun-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	ND (0.48)	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-2-T05-640	635 - 640	29-Jun-04	ND (1.0) *	ND (0.50) *	ND (0.50) *	ND (1.0) *	ND (1.0) *	ND (10) *	ND (1.0) *	ND (1.0) *	ND (5.0) *	ND (10) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *
Wellbore PW-3																			
PW-3-TO1-466	461 - 466	13-Jul-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	ND (0.48)	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-3-TO2-505	500 - 505	14-Jul-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	ND (0.48)	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-3-TO3-545	540 - 545	16-Jul-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	ND (0.48)	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-3-TO4-585	580 - 585	20-Jul-04	ND (0.28)	ND (0.22)	ND (0.24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	**0.87 B, J**	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)
PW-3-TO5-615	610 - 615	22-Jul-04	ND (0.28)	ND (0.22)	ND (0 24)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.28)	**0.87 B, J**	ND (2.5)	ND (0.41)	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)

TABLE 5
GROUNDWATER ANALYTICAL RESULTS OF TEMPORARY WELL SAMPLING
Remedial Investigation
160-Acre Parcel, Rialto, California

Temporary Groundwater Well Sample ID	Screened Interval (feet below ground surface)	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)																
			1,2,3 Trichlorobenzene	1,2,4 Trichlorobenzene	1,1,1-Trichloroethane	1,1,2 Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3 Trichloropropane	1 2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	Vinyl chloride	o-Xylene	m p-Xylenes	Xylenes, Total	Methyl tert butyl Ether (MTBE)	Tentatively Identified Compounds (TICs)	Perchlorate	N nitrosodimethylamine (NDMA)
			µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	mg/l	ng/l
Wellbore PW-1																			
PW-1A-T01-444	434 - 444	27-May-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	**1.2 J**
PW-1A-T02-510	500 - 510	1-Jun-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	**5.0**
Wellbore PW-2																			
PW-2-T01-468	458 - 468	14-Jun-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**59**	ND (0 34)	ND (0 85)	**0.26**	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.29**	ND (2 0) *
PW-2-T02-496	491 - 496	15-Jun-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**18**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.017**	ND (2 0) *
PW-2-T03-520	515 - 520	16-Jun-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**3.0**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.0041**	ND (2 0) *
PW-26-TO3-520 (Duplicate of PW-2-T03-520)	515 - 520	16-Jun-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**2.0**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0.24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.0046**	ND (2 0) *
PW-2-T04-587	577 - 587	23-Jun-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.0024**	NA
PW-2-T05-640	635 - 640	29-Jun-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND	ND (0 001) *	NA
Wellbore PW-3																			
PW-3-TO1-466	461 - 466	13-Jul-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**2.6**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.011**	NA
PW-3-TO2-505	500 - 505	14-Jul-04	**0.64 B, J**	ND (0 48)	ND (0 30)	ND (0 30)	**0.94 J**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.0031**	NA
PW-3-TO3-545	540 - 545	16-Jul-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**0.46 J**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.0067**	NA
PW-3-TO4-585	580 - 585	20-Jul-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.0019**	NA
PW-3-TO5-615	610 - 615	22-Jul-04	**0.61 J**	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA

TABLE 5
GROUNDWATER ANALYTICAL RESULTS OF TEMPORARY WELL SAMPLING
Remedial Investigation
160-Acre Parcel, Rialto, California

Temporary Groundwater Well Sample ID	Screened Interval (feet below ground surface)	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)																
			Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2 Butanone (MEK)	n Butylbenzene	sec Butylbenzene	tert Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2 Chlorotoluene
			µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
Wellbore PW-4																			
PW-4-TO1-485	480 - 485	13-Aug-04	**7.8 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0.25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)	**0.31 J**	ND (0.28)
PW-4-TO2-525	520 - 525	16-Aug-04	**4.9 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)	ND (0 30)	ND (0 28)
PW-28-T02-525 (Duplicate of PW-4-T02-525	520 - 525	16-Aug-04	**4.8 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)	**0.64 J**	ND (0 28)
PW-4-TO3-575	570 - 575	17-Aug-04	**16 B**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)	**0.51 J**	ND (0 28)
PW-4-TO4-617 5	612 5 - 617 5	19-Aug-04	**15**	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	**0.51 J**	ND (1 0) *
PW-28-T04 617 5 (Duplicate of PW-4 T04-617 5)	612 5 - 617 5	20-Aug-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-4-TO5-625	620 - 625	24-Aug-04	**5.0 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)	ND (0 30)	ND (0 28)
PW-4-TO6-647 5	642 5 - 647 5	27-Aug-04	**11**	**0.50**	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)	**0.51 J**	ND (0 28)

TABLE 5
GROUNDWATER ANALYTICAL RESULTS OF TEMPORARY WELL SAMPLING
Remedial Investigation
160-Acre Parcel, Rialto, California
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Temporary Groundwater Well Sample ID	Screened Interval (feet below ground surface)	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)																
			4 Chlorotoluene	Dibromochloromethane	1 2 Dibromo 3 chloropropane	1 2 Dibromomethane (EDB)	Dibromomethane	1 2 Dichlorobenzene	1 3 Dichlorobenzene	1 4 Dichlorobenzene	Dichlorodifluoromethane	1 1 Dichloroethane	1,2 Dichloroethane	1 1 Dichloroethene	cis 1,2 Dichloroethene	trans 1,2 Dichloroethene	1 2 Dichloropropane	1,3 Dichloropropane	2,2 Dichloropropane
			µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
Wellbore PW-4																			
PW-4-TO1-485	480 - 485	13-Aug-04	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)
PW-4 TO2-525	520 - 525	16-Aug 04	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)
PW-28-T02-525 (Duplicate of PW-4-T02-525	520 - 525	16-Aug-04	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)
PW-4-TO3 575	570 - 575	17 Aug-04	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)
PW-4-TO4 617 5	612 5 - 617 5	19-Aug 04	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW-28-T04-617 5 (Duplicate of PW-4 T04-617 5)	612 5 - 617 5	20-Aug-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-4-TO5 625	620 - 625	24-Aug 04	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)
PW-4-TO6-647 5	642 5 - 647 5	27-Aug-04	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)

TABLE 5
GROUNDWATER ANALYTICAL RESULTS OF TEMPORARY WELL SAMPLING
Remedial Investigation
160-Acre Parcel, Rialto, California

Temporary Groundwater Well Sample ID	Screened Interval (feet below ground surface)	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)																
			1,1 Dichloropropene	cis 1,3 Dichloropropene	trans-1,3 Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4 Methyl 2 pentanone (MBK)	Naphthalene	n Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2 Tetrachloroethane	Tetrachloroethene	Toluene
			µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
Wellbore PW-4																			
PW-4-TO1-485	480 - 485	13-Aug-04	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.60 J**	ND (2 5)	ND (0 41)	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)
PW-4-TO2-525	520 - 525	16-Aug-04	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**1.3 B, J**	ND (2 5)	ND (0 41)	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)
PW-28-T02-525 (Duplicate of PW-4-T02-525	520 - 525	16-Aug-04	ND (0 28)	ND (0 22)	ND (0.24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**2.2 J**	ND (2 5)	ND (0 41)	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)
PW-4-TO3-575	570 - 575	17-Aug-04	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)
PW-4-TO4-617 5	612 5 - 617 5	19-Aug-04	ND (1 0) *	ND (0 50) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	**0.51 B, J**	ND (10) *	**0.51 J**	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW-28-T04-617 5 (Duplicate of PW-4-T04-617 5)	612 5 - 617 5	20-Aug-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-4-TO5-625	620 - 625	24-Aug-04	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.54 J**	ND (2 5)	**0.43 J**	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)
PW-4-TO6-647 5	642 5 - 647 5	27-Aug-04	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.69 J**	ND (2 5)	ND (0 41)	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)

TABLE 5
GROUNDWATER ANALYTICAL RESULTS OF TEMPORARY WELL SAMPLING
Remedial Investigation
160-Acre Parcel, Rialto, California

Temporary Groundwater Well Sample ID	Screened Interval (feet below ground surface)	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)															Perchlorate	N nitrosodimethylamine (NDMA)
			1,2 3 Trichlorobenzene	1 2 4 Trichlorobenzene	1,1,1 Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1 2,3 Trichloropropane	1 2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	Vinyl chloride	o-Xylene	m p Xylenes	Xylenes, Total	Methyl tert butyl Ether (MTBE)	Tentatively Identified Compounds (TICs)		
			µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	mg/l	ng/l
Wellbore PW-4																			
PW-4-TO1-485	480 - 485	13-Aug-04	**0.61 J**	ND (0 48)	ND (0 30)	ND (0 30)	**4.3**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.012**	NA
PW-4-TO2-525	*520 - 525*	*16-Aug-04*	*ND (0 45)*	*ND (0 48)*	*ND (0 30)*	*ND (0 30)*	***3.5***	*ND (0 34)*	*ND (0 85)*	*ND (0 23)*	*ND (0 26)*	*ND (0 26)*	*ND (0 24)*	*ND (0 52)*	*ND (0 52)*	*ND (0 32)*	*ND*	***0.0018***	*NA*
PW-28-T02-525 (Duplicate of PW-4-T02-525	520 - 525	16-Aug-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**2.7**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.0016**	NA
PW-4-TO3-575	570 - 575	17-Aug 04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**0.35 J**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.0024**	NA
PW-4-TO4-617 5	612 5 - 617 5	19-Aug-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	**3.2**	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND	**0.012**	NA
PW-28-T04 617 5 (Duplicate of PW-4-T04-617 5)	612 5 - 617 5	20-Aug-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.013**	NA
PW-4-TO5-625	620 - 625	24-Aug-04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**8.7**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.015**	NA
PW-4-TO6-647 5	642 5 - 647 5	27-Aug 04	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	**4.2**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	**0.018**	NA

NOTES

ND = Not detected above the indicated Method Detection Limit (MDL)
NA = Not analyzed
µg/L = micrograms per liter
mg/L = milligrams per liter
ng/L = nanograms per liter

Where * is indicated, detection limit provided is the Laboratory Project Reporting Limit
"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the MDL
"B" indicates analyte was also detected in the associated laboratory Method Blank sample
Volatile organic compounds (VOCs) analyzed by USEPA Method 5030B/8260B
Perchlorate analyzed by USEPA Method 314 0
N-nitrosodimethylamine (NDMA) analyzed by USEPA Method 1625C Modified

Table 6

TABLE 6
PHYSICAL PROPERTIES OF SOIL SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Wellbore ID	Soil Sample ID	Depth (ft bgs)	Date Sampled	Porosity (%Vb[1])	Total Organic Carbon (mg/kg)	Fraction Organic Carbon (g/g)	Vertical Permeability (millidarcy)	Horizontal Permeability (millidarcy)	Vertical Hydraulic Conductivity (cm/sec)	Horizontal Hydraulic Conductivity (cm/sec)
PW-1	PW-1A-TO2-486	486	28-May-04	39.3	930	9.30E-04	13.6	10.4	1.36E-05	1.04E-05
PW-2	PW-2-T03-522.5-GT	522.5	16-Jun-04	33.0	1500	1.50E-03	13.3	13.7	1.32E-05	1.36E-05
	PW-2-552-GT	552	17-Jun-04	32.5	1900	1.90E-03	5.57	2.30	5.54E-06	2.28E-06
	PW-2-T04-589-GT	589	22-Jun-04	33.6	940	9.40E-04	132	70	1.31E-04	6.94E-05
	PW-2-TO5-643.5-GT	643.5	12-Jul-04	Not Analyzed	Not Analyzed	Not Analyzed	141	Not Available	1.43E-04	Not Available
PW-3	PW-3-TO1-468.5-GT	468.5	13-Jul-04	33.0	920	9.20E-04	39.7	49.9	3.91E-05	4.89E-05
	PW-3-T03-548-GT	548	15-Jul-04	Not Analyzed	Not Analyzed	Not Analyzed	11.6	Not Available	1.18E-05	Not Available
PW-4	PW-4-TO1-487.5-GT	487.5	12-Aug-04	42.1	570	5.70E-04	5.34	4.17	5.36E-06	4.20E-06
	PW-4-TO2-527.5-GT	527.5	13-Aug-04	36.9	260	2.60E-04	82.1	28.9	8.13E-05	2.89E-05
	PW-4-601.5-GT	601.5	18-Aug-04	39.9	1650	1.65E-03	10.8	13.3	1 12E-05	1.35E-05

NOTES:

[1]Total Porosity = no pore fluids in place; all interconnected pore channels;
Air Filled Porosity = pore channels not occupied by pore fluids

[2]Native State = As received with pore fluids in place

[3]Permeability to water and conductivity measured at saturated conditions
Vb = Bulk Volume, cc
N/A = Not Available
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
g/g = grams per gram
mm = millimeter
Total porosity analyzed by Method API RP40
Total and fraction organic carbon analyzed by the Walkley-Black Method
Vertical and horizontal permeability and hydraulic conductivity analyzed by USEPA Method 9100
Grain size analyzed by Method ASTMD422M

TABLE 6
PHYSICAL PROPERTIES OF SOIL SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Wellbore ID	Soil Sample ID	Depth (ft bgs)	Grain Size Description[1]	Grain Size (mm)	Particle Size Distribution (weight percent)						
					Gravel	Sand Size			Silt	Clay	Silt & Clay
						Coarse	Medium	Fine			
PW-1	PW-1A-TO2-486	486	Silt	0.047	0.00	0.00	4.84	34.28	48.10	12.78	60.88
PW-2	PW-2-T03-522.5-GT	522.5	Medium sand	0.408	0.00	10.20	38.96	33.95	N/A	N/A	16.89
	PW-2-552-GT	552	Medium sand	0.320	0.00	9.37	33.84	36.14	N/A	N/A	20.65
	PW-2-T04-589-GT	589	Medium sand	0.408	0.00	0.00	49.29	28.85	16.67	5.19	21.86
	PW-2-TO5-643.5-GT	643.5	Gravel	1.236	32.36	12.26	27.11	24.08	N/A	N/A	4.19
PW-3	PW-3-TO1-468.5-GT	468.5	Coarse sand	0.733	23.22	10.71	27.08	23.16	N/A	N/A	15.84
	PW-3-T03-548-GT	548	Silt	0.046	0.00	0.00	0.06	31.72	56.53	11.69	68.22
PW-4	PW-4-TO1-487.5-GT	487.5	Silt	0.041	0.00	0.00	5.63	32.13	47.59	14.65	62.24
	PW-4-TO2-527.5-GT	527.5	Medium sand	0.604	12.78	13.70	32.83	25.75	N/A	N/A	14.94
	PW-4-601.5-GT	601.5	Fine sand	0.182	0.00	0.00	34.29	30.55	27.06	8.10	35.16

NOTES:

[1]Total Porosity = no pore fluids in place; all interconnected pore channels;
Air Filled Porosity = pore channels not occupied by pore fluids

[2]Native State = As received with pore fluids in place

[3]Permeability to water and conductivity measured at saturated conditions
Vb = Bulk Volume, cc
N/A = Not Available
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
g/g = grams per gram
mm = millimeter
Total porosity analyzed by Method API RP40
Total and fraction organic carbon analyzed by the Walkley-Black Method
Vertical and horizontal permeability and hydraulic conductivity analyzed by USEPA Method 9100
Grain size analyzed by Method ASTMD422M

Table 7

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Equipment Blank Samples																
PW-29-05-26	26-May-04	**7.0 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-06-01	1-Jun-04	**8.4 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0.34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-06-09	9-Jun-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29B-06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-29G 06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-29 06-14	14-Jun 04	**5.8 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-06-15	15-Jun-04	**7.0 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-06-16	16-Jun 04	**5.1 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW 29-06-23	23-Jun-04	**5.3 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-06-29	29-Jun-04	**4.9 J**	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW-29-07-13	13-Jul 04	**14**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-07-14	14-Jul-04	**6.2 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-07-16	16-Jul-04	**6.1 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-07-20	20-Jul-04	**6.7 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-07-22	22-Jul 04	**6.2 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-08-13	13-Aug-04	**5.5 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-08-16	16-Aug-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-29-08-17	17-Aug-04	**6.4 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3 chloropropane	1,2 Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Equipment Blank Samples																
PW-29-05-26	26-May-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0.32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-06-01	1-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-06-09	9-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29B-06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-29G-06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-29-06-14	14-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-06-15	15-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-06-16	16-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-06 23	23-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-06-29	29-Jun 04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *
PW-29-07-13	13 Jul-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	**2.0 J**	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-07-14	14-Jul-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	**2.0 J**	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-07-16	16-Jul-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-07-20	20-Jul-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-07-22	22-Jul 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-08-13	13-Aug-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-08-16	16-Aug-04	**0.35 J**	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-29-08-17	17-Aug-04	**0.71 J**	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		trans 1,2-Dichloroethene	1,2 Dichloropropane	1,3 Dichloropropane	2,2 Dichloropropane	1,1 Dichloropropene	cis 1,3 Dichloropropene	trans-1,3 Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4 Methyl 2-pentanone (MBK)	Naphthalene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Equipment Blank Samples																
PW-29-05-26	26-May-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0.24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-29-06-01	1-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0.24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW 29-06-09	9-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**1.3 J**	ND (2 5)	ND (0 41)
PW-29B-06-11	11-Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-29G-06-11	11 Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW 29-06 14	14-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-29-06 15	15 Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	**0.51 B, J**
PW-29-06-16	16-Jun 04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-29-06-23	23 Jun 04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-29-06-29	29-Jun-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (10) *	ND (1 0) *
PW 29-07 13	13-Jul-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-29-07-14	14-Jul-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.51 B, J**	ND (2 5)	ND (0 41)
PW 29-07-16	16-Jul 04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.94 B, J**	ND (2 5)	ND (0 41)
PW-29-07-20	20-Jul-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**1.4 B, J**	ND (2 5)	ND (0 41)
PW-29-07-22	22 Jul 04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.62 B, J**	ND (2 5)	ND (0 41)
PW 29-08 13	13-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.82 J**	ND (2 5)	ND (0 41)
PW-29-08-16	16-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**2.0 J**	ND (2 5)	ND (0 41)
PW-29-08-17	17-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Equipment Blank Samples																
PW-29-05-26	26-May-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-06-01	1-Jun-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-06-09	9-Jun-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29B-06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-29G-06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-29-06-14	14-Jun-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-06-15	15-Jun-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-06-16	16-Jun-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-06-23	23-Jun-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-06-29	29-Jun-04	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *	ND (1.0) *
PW-29-07-13	13-Jul-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-07-14	14-Jul-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-07-16	16-Jul-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-07-20	20-Jul-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-07-22	22-Jul-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-08-13	13-Aug-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-08-16	16-Aug-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)
PW-29-08-17	17-Aug-04	ND (0.27)	ND (0.16)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.45)	ND (0.48)	ND (0.30)	ND (0.30)	ND (0.26)	ND (0.34)	ND (0.85)	ND (0.23)	ND (0.26)

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)							
		Vinyl chloride	o-Xylene	m,p-Xylenes	Xylenes, Total	Methyl-tert-butyl Ether (MTBE)	Tentatively Identified Compounds (TICs)	Perchlorate	N-nitrosodimethylamine (NDMA)
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	ng/L
Equipment Blank Samples									
PW-29-05-26	26-May-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	**14,000**
PW-29-06-01	1-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	**14,000 E3**
PW-29-06-09	9-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW-29B-06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	ND (0 70)
PW-29G-06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	**1.2 J**
PW 29-06 14	14-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	ND (2 0) *
PW-29-06-15	15-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	ND (2 0) *
PW-29-06-16	16-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	ND (2 0) *
PW-29-06-23	23-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW-29-06-29	29-Jun-04	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND	ND (0 001) *	NA
PW-29-07-13	13-Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 001) *	NA
PW-29-07-14	14-Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW-29-07-16	16-Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW-29-07-20	20-Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW-29-07-22	22-Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW-29-08-13	13-Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW-29-08-16	16-Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW-29-08-17	17-Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n Butylbenzene	sec-Butylbenzene	tert Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Equipment Blank Samples																
PW-29-08-19	19-Aug-04	**5.7 J**	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0.50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW-29-08-24	24-Aug-04	**6.7 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW29-08-27	27-Aug-04	**5.9 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
Trip Blank Samples																
PW-30-05-26-01	26-May-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-06 01-01	1-Jun-04	**6.4 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-06 07-01	7-Jun-04	**6.1 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-06-09-01	*9-Jun-04*	***5.0 J***	*ND (0 28)*	*ND (0 27)*	*ND (0 32)*	*ND (0 30)*	*ND (0 32)*	*ND (0 34)*	*ND (3 8)*	*ND (0 37)*	*ND (0 25)*	*ND (0 22)*	*ND (0 28)*	*ND (0 36)*	*ND (0 33)*	*ND (0 33)*
PW-30-06 11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-30-06-14-01	14-Jun-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-06-15-01	15-Jun-04	**6.7 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-06-16-01	16-Jun-04	**4.7 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-06-23-01	23-Jun-04	**5.4 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-06-29-01	29-Jun 04	**4.9 J**	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW-30-07-13-01	13-Jul-04	**10**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-07-14-01	14-Jul-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-07-16-01	16-Jul 04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-07-20-01	20-Jul-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		Chloromethane	2 Chlorotoluene	4 Chlorotoluene	Dibromochloromethane	1 2 Dibromo 3 chloropropane	1 2 Dibromoethane	Dibromomethane	1 2 Dichlorobenzene	1 3 Dichlorobenzene	1 4 Dichlorobenzene	Dichlorodifluoromethane	1 1 Dichloroethane	1 2 Dichloroethane	1 1 Dichloroethene	cis 1 2 Dichloroethene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Equipment Blank Samples																
PW 29-08-19	19 Aug-04	**0.33 J**	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *
PW 29-08 24	24-Aug-04	**0.35 J**	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0.36)	ND (0.32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0.28)	ND (0 32)	ND (0 32)
PW29-08 27	27 Aug-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
Trip Blank Samples																
PW 30 05 26 01	26 May 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30-06 01-01	1 Jun 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30 06 07 01	7 Jun 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30-06 09 01	9 Jun 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30-06-11	11 Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW 30-06 14-01	14-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30 06 15 01	15 Jun 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30-06 16 01	16-Jun 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30-06-23-01	23 Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30 06 29-01	29 Jun 04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *
PW 30 07 13 01	13 Jul 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30-07 14-01	14 Jul 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30 07 16-01	16 Jul 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW 30 07 20-01	20 Jul 04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		trans-1,2-Dichloroethene	1,2 Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2 Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4 Methyl-2-pentanone (MBK)	Naphthalene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Equipment Blank Samples																
PW-29-08-19	19-Aug-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	**1.0 J**	ND (10) *	ND (1 0) *
PW-29-08-24	24-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0.28)	ND (0 22)	ND (0 24)	ND (0.25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.52 J**	ND (2 5)	ND (0 41)
PW29-08-27	27-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
Trip Blank Samples																
PW-30-05-26-01	26-May-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30-06-01-01	1-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW 30-06-07 01	7-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30 06 09-01	9-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30 06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-30-06-14-01	14-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30-06-15-01	15 Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	**1.0 B**
PW-30-06-16-01	16-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30-06-23-01	23-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30-06-29-01	29-Jun-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (10) *	ND (1 0) *
PW-30 07-13-01	13-Jul-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30-07-14-01	14-Jul-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30-07-16-01	16-Jul-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.76 B, J**	ND (2 5)	ND (0 41)
PW-30-07-20-01	20-Jul-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**1.2 B, J**	ND (2 5)	ND (0 41)

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		n Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2 Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3 Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4 Trimethylbenzene	1,3,5-Trimethylbenzene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Equipment Blank Samples																
PW-29-08-19	19-Aug-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW-29-08-24	24-Aug-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW29-08 27	27-Aug-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
Trip Blank Samples																
PW-30-05-26-01	26-May-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-06-01-01	1-Jun-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-06-07-01	7-Jun-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-06-09-01	9-Jun 04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-06-11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW 30-06-14-01	14-Jun-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-06-15-01	15-Jun-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-06-16-01	16-Jun-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-06-23-01	23-Jun-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-06 29-01	29-Jun-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW 30-07-13-01	13-Jul-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW 30 07-14-01	14-Jul-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	**0.63 J**	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-07-16-01	16-Jul-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW-30-07-20-01	20-Jul-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)							
		Vinyl chloride	o-Xylene	m p-Xylenes	Xylenes, Total	Methyl-tert butyl Ether (MTBE)	Tentatively Identified Compounds (TICs)	Perchlorate	N nitrosodimethylamine (NDMA)
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	ng/L
Equipment Blank Samples									
PW-29-08-19	19-Aug-04	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND	ND (0 001) *	NA
PW-29-08-24	24-Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
PW29-08-27	27-Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
Trip Blank Samples									
PW-30-05 26-01	26 May-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-06-01-01	1-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-06-07-01	7-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW 30 06-09-01	9-Jun 04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30 06 11	11-Jun-04	NA	NA	NA	NA	NA	NA	NA	**14,000**
PW-30-06-14-01	14-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-06-15-01	15-Jun 04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-06-16-01	16-Jun 04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW 30-06 23-01	23-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-06-29-01	29-Jun-04	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND	NA	NA
PW-30-07-13-01	13 Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30 07-14-01	14-Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30 07 16-01	16 Jul 04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-07-20-01	20-Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trip Blank Samples																
PW-30-07-22-01	22-Jul-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-08-13	13-Aug-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW-30-08-16-01	16-Aug-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW 30-08 17 01	17-Aug-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW30 08 19 01	19 Aug-04	ND (10) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW-30-08-24-01	24-Aug-04	**5.7 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
PW30-08-27-01	27-Aug-04	**6 9 J**	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
Hydrant and Related Water Issue Samples																
Hydrant -1	6-May-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	**0.42 J**	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	**0.68 J**
Hydrant PW2-01	7-Jun-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	**16**	**1.0**	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	**15**
Hydrant-PW3/PW4-01	7-Jun-04	ND (4 5)	ND (0 28)	ND (0 27)	ND (0 32)	ND (0 30)	ND (0 32)	ND (0 34)	ND (3 8)	ND (0 37)	ND (0 25)	ND (0 22)	ND (0 28)	ND (0 36)	ND (0 33)	ND (0 33)
RO/DI Water	16 Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW1-2	17-Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant PW2 3	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Tank Rinse	18-Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pumped Tank Rinse	18 Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW2-4	23-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		Chloromethane	2 Chlorotoluene	4 Chlorotoluene	Dibromochloromethane	1,2 Dibromo-3 chloropropane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3 Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trip Blank Samples																
PW-30-07-22-01	22-Jul-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0.32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-30-08-13	13-Aug-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0.32)	ND (0 36)	ND (0.32)	ND (0.35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-30-08-16-01	16-Aug-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW-30-08-17-01	17-Aug-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW30-08-19-01	19-Aug-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (5 0) *	ND (1 0) *	ND (0 50) *	ND (1 0) *	ND (1 0) *
PW-30 08 24 01	24-Aug-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
PW30-08-27-01	27-Aug-04	**0.68 J**	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
Hydrant and Related Water Issue Samples																
Hydrant 1	6-May-04	ND (0 30)	ND (0 28)	ND (0 29)	**0.32 J**	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
Hydrant-PW2-01	7-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	**11**	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
Hydrant-PW3/PW4-01	7-Jun-04	ND (0 30)	ND (0 28)	ND (0 29)	ND (0 28)	ND (0 92)	ND (0 32)	ND (0 36)	ND (0 32)	ND (0 35)	ND (0 37)	ND (0 79)	ND (0 27)	ND (0 28)	ND (0 32)	ND (0 32)
RO/DI Water	16-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW1-2	17-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW2-3	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Tank Rinse	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pumped Tank Rinse	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW2-4	23-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3 Dichloropropane	2,2-Dichloropropane	1,1 Dichloropropene	cis-1,3 Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2 Hexanone	Isopropylbenzene	p-Isopropyltoluene	Methylene chloride	4-Methyl-2-pentanone (MIBK)	Naphthalene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trip Blank Samples																
PW-30-07-22-01	22-Jul-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0.22)	ND (0 24)	ND (0.25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.71 J**	ND (2 5)	ND (0 41)
PW-30-08-13	13-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0.22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.73 J**	ND (2 5)	ND (0 41)
PW-30-08-16-01	16-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW-30-08-17 01	17-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
PW30-08 19-01	19-Aug-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (0 50) *	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (10) *	ND (1 0) *	ND (1 0) *	**0.62 J**	ND (10) *	ND (1 0) *
PW-30-08-24-01	24-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	**0.46 J**
PW30-08-27-01	27-Aug-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**0.60 J**	ND (2 5)	ND (0 41)
Hydrant and Related Water Issue Samples																
Hydrant -1	6-May-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	**1.0 J**	ND (2 5)	ND (0 41)
Hydrant PW2-01	7-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	ND (0 25)	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
Hydrant-PW3/PW4-01	7-Jun-04	ND (0 27)	ND (0 35)	ND (0 30)	ND (0 29)	ND (0 28)	ND (0 22)	ND (0 24)	**0.37 J**	ND (0 38)	ND (2 6)	ND (0 25)	ND (0 28)	ND (0 48)	ND (2 5)	ND (0 41)
RO/DI Water	16-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW1-2	17-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW2-3	18-Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Tank Rinse	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pumped Tank Rinse	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW2-4	23-Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)														
		n Propylbenzene	Styrene	1 1 1,2 Tetrachloroethane	1 1 2 2 Tetrachloroethane	Tetrachloroethene	Toluene	1 2 3 Trichlorobenzene	1 2 4 Trichlorobenzene	1 1 1 Trichloroethane	1 1 2 Trichloroethane	Trichloroethene	Trichlorofluoromethane	1 2 3 Trichloropropane	1 2 4 Trimethylbenzene	1 3 5 Trimethylbenzene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trip Blank Samples																
PW 30-07 22-01	22 Jul-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW 30-08 13	13 Aug-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW 30-08 16 01	16 Aug-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW 30 08 17 01	17 Aug-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW30-08 19-01	19 Aug-04	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *
PW 30-08 24 01	24-Aug-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
PW30 08 27 01	27 Aug-04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
Hydrant and Related Water Issue Samples																
Hydrant 1	6 May 04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
Hydrant PW2-01	7 Jun 04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
Hydrant PW3/PW4-01	7 Jun 04	ND (0 27)	ND (0 16)	ND (0 27)	ND (0 24)	ND (0 32)	ND (0 36)	ND (0 45)	ND (0 48)	ND (0 30)	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)
RO/DI Water	16-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant PW1 2	17 Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant PW2 3	18 Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Tank Rinse	18 Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pumped Tank Rinse	18 Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant PW2-4	23 Jun 04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 7
ANALYTICAL RESULTS OF QUALITY CONTROL AND MISCELLANEOUS WATER SAMPLES
ASSOCIATED WITH TEMPORARY WELL INSTALLATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Sample ID	Date Sampled	VOLATILE ORGANIC COMPOUNDS (VOCs)							
		Vinyl chloride	o-Xylene	m,p-Xylenes	Xylenes, Total	Methyl-tert-butyl Ether (MTBE)	Tentatively Identified Compounds (TICs)	Perchlorate	N-nitrosodimethylamine (NDMA)
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	ng/L
Trip Blank Samples									
PW-30-07-22-01	22-Jul-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-08-13	13-Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-08-16-01	16-Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW-30-08-17-01	17-Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW30 08-19-01	19-Aug-04	ND (0 50) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND (1 0) *	ND	NA	NA
PW-30-08-24-01	24-Aug 04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
PW30-08-27-01	27 Aug-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	NA	NA
Hydrant and Related Water Issue Samples									
Hydrant -1	6-May-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	NA	ND (0 0008)	NA
Hydrant-PW2 01	7-Jun-04	ND (0 26)	ND (0 24)	ND (0 52)	ND (0 52)	ND (0 32)	ND	ND (0 0008)	NA
Hydrant-PW3/PW4-01	7-Jun-04	ND (0 26)	**0.83 J**	ND (0 52)	**1.2**	ND (0 32)	ND	ND (0 0008)	NA
RO/DI Water	16-Jun-04	NA	NA	NA	NA	NA	NA	NA	**6.8**
Hydrant-PW1-2	17-Jun-04	NA	NA	NA	NA	NA	NA	NA	ND (0 70)
Hydrant-PW2-3	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	**32**
Water Tank Rinse	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA
Pumped Tank Rinse	18-Jun-04	NA	NA	NA	NA	NA	NA	NA	NA
Hydrant-PW2-4	23-Jun-04	NA	NA	NA	NA	NA	NA	NA	ND (2 0) *

NOTES:

ND = Not detected above the indicated Method Detection Limit (MDL)

NA = Not analyzed

Where * is indicated, detection limit provided is the Laboratory Project Reporting Limit

"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the MDL

"B" indicates the analyte was also detected in the associated laboratory Method Blank sample

"E3" indicates the concentration was estimated because the analyte exceeded the calibration range. Reanalysis not performed due to holding time requirements

µg/L = micrograms per liter

mg/L = milligrams per liter

ng/L = nanograms per liter

Volatile organic compounds (VOCs) analyzed by USEPA Method 5030B/8260B

N-nitrosodimethylamine (NDMA) analyzed by USEPA Method 1625C Modified

Perchlorate analyzed by USEPA Method 314 0

Sample "Hydrant-PW2-3" was analyzed by Severn Trent Laboratories in West Sacramento, California

Table 8

TABLE 8
PERMANENT GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS
Remedial Investigation
160-Acre Parcel, Rialto, California

Well ID	Well Installation Date	Total Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Diameter (inches)	Top of Casing (TOC) Elevation* (ft MSL)
PW-1	8-Jun-04	480	440 - 480	4	1,704.48
PW-2	9-Jul-04	500	455 - 495	4	1,639.36
PW-2A	16-Oct-04	642	622 - 642	4	1,639.58
PW-3	2-Aug-04	501	456 - 496	4	1,611.81
PW-3A	2-Aug-04	626	606 - 626	2	1,611.81
PW-4	18-Sep-04	515	470 - 510	4	1,626.56
PW-4A	18-Sep-04	648	638 - 648	2	1,626.56

NOTES:

*Well elevations surveyed from punch mark placed at the top of casing at the north point.

ft bgs = feet below ground surface

ft MSL = feet above Mean Sea Level

Table 9

TABLE 9
GROUNDWATER ELEVATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California
Page 1 of 2

Well ID	Date Measured	Top of Casing (TOC) Elevation* (ft above MSL)	Static Depth to Water (ft TOC)	Groundwater Elevation (ft MSL)	Change in Groundwater Elevation (ft MSL)
Monitoring Wells					
PW-1	28-Oct-04	1,704.48	431.61	1,272.87	0.00
	29-Nov-04		432.06	1,272.42	-0.45
	27-Dec-04		431.71	1,272.77	0.35
	24-Jan-05		431.88	1,272.60	-0.17
PW-2	27-Oct-04	1,639.36	463.95	1,175.41	0.00
	29-Nov-04		464.47	1,174.89	-0.52
	27-Dec-04		464.67	1,174.69	-0.20
	24-Jan-05		465.10	1,174.26	-0.43
PW-3	28-Oct-04	1,611.81	452.00	1,159.81	0.00
	29-Nov-04		452.64	1,159.17	-0.64
	27-Dec-04		452.58	1,159.23	0.06
	24-Jan-05		453.10	1,158.71	-0.52
PW-4	29-Oct-04	1,626.56	464.58	1,161.98	0.00
	29-Nov-04		464.99	1,161.57	-0.41
	27-Dec-04		464.78	1,161.78	0.21
	24-Jan-05		465.35	1,161.21	-0.57

TABLE 9
GROUNDWATER ELEVATIONS
Remedial Investigation
160-Acre Parcel, Rialto, California

Well ID	Date Measured	Top of Casing (TOC) Elevation* (ft above MSL)	Static Depth to Water (ft TOC)	Groundwater Elevation (ft MSL)	Change in Groundwater Elevation (ft MSL)
Piezometers					
PW-2A	28-Oct-04	1,639.58	623.85	1,015.73	0.00
	29-Nov-04		625.21	1,014.37	-1.36
	27-Dec-04		625.62	1,013.96	-0.41
	24-Jan-05		626.11	1,013.47	-0.49
PW-3A	28-Oct-04	1,611.81	597.55	1,014.26	0.00
	29-Nov-04		598.36	1,013.45	-0.81
	27-Dec-04		599.00	1,012.81	-0.64
	24-Jan-05		599.30	1,012.51	-0.30
PW-4A	29-Oct-04	1,626.56	615.16	1,011.40	0.00
	29-Nov-04		615.17	1,011.39	-0.01
	27-Dec-04		615.17	1,011.39	0.00
	24-Jan-05		616.25	1,010.31	-1.08

NOTES:

*Well elevations surveyed from punch mark placed at the top of casing at the north point.

ft bgs = feet below ground surface

ft MSL = feet above Mean Sea Level

Table 10

TABLE 10
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM
VOCs, 1,4-DIOXANE, RDX, PERCHLORATE, AND NDMA
Remedial Investigation
160-Acre Parcel, Rialto, California

Groundwater Monitoring Well ID	Sampling Date	VOLATILE ORGANIC COMPOUNDS (VOCs)																		
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PW-1	28-Oct-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	**0.43 J**	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	30-Nov-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	28-Dec-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	26-Jan-05	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
PW-25	28-Dec-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
PW-2	27-Oct-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	**0.83 J**	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	29-Nov-04	ND (4.5)	**1.5**	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0 30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	27-Dec-04	ND (4.5)	ND (0 28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	25-Jan-05	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
PW-26	29-Nov-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
PW-3	28-Oct-04	**7.5 J**	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	30-Nov-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	28-Dec-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0 32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0 22)	ND (0.92)	ND (0.28)
	25-Jan-05	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0 34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
PW-4	29-Oct-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	**0.94 J**	**0.33 J**	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	1-Dec-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0 36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	29-Dec-04	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)
	24-Jan-05	ND (4.5)	ND (0.28)	ND (0.27)	ND (0.32)	ND (0.30)	ND (0.32)	ND (0.34)	ND (3.8)	ND (0.28)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.30)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.22)	ND (0.92)	ND (0.28)

TABLE 10
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM
VOCs, 1,4-DIOXANE, RDX, PERCHLORATE, AND NDMA
Remedial Investigation
160-Acre Parcel, Rialto, California
Page 2 of 4

Groundwater Monitoring Well ID	Sampling Date	VOLATILE ORGANIC COMPOUNDS (VOCs)																		
		1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	m,p-Xylene	4-Methyl-2-pentanone (MIBK)
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PW-1	28-Oct-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	30-Nov-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	28-Dec-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	26-Jan-05	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
PW-25	28-Dec-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0 29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
PW-2	27-Oct-04	ND (0.32)	ND (0 36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	29-Nov-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0 79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	27-Dec-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	25-Jan-05	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0 27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
PW-26	29-Nov-04	ND (0 32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
PW-3	28-Oct-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	30-Nov-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	28-Dec-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0 35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0 35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	25-Jan-05	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
PW-4	29-Oct-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	1-Dec-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	29-Dec-04	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)
	24-Jan-05	ND (0.32)	ND (0.36)	ND (0.32)	ND (0.35)	ND (0.37)	ND (0.79)	ND (0.27)	ND (0.28)	ND (0.32)	ND (0.35)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.25)	ND (0.38)	ND (2.6)	ND (0.25)	ND (0.52)	ND (2.5)

TABLE 10
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM
VOCs, 1,4-DIOXANE, RDX, PERCHLORATE, AND NDMA
Remedial Investigation
160-Acre Parcel, Rialto, California

Groundwater Monitoring Well ID	Sampling Date	VOLATILE ORGANIC COMPOUNDS (VOCs)																		
		Methyl tert-butyl ether (MTBE)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PW-1	28-Oct-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	30-Nov-04	ND (0.32)	**0.48 J**	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	28-Dec-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	26-Jan-05	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
PW-25	28-Dec-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
PW-2	27-Oct-04	ND (0.32)	**12**	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	29-Nov-04	ND (0.32)	**8.8**	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	27-Dec-04	ND (0.32)	**8.8**	ND (0 41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	25-Jan-05	ND (0.32)	**7.4**	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
PW-26	29-Nov-04	ND (0.32)	**8.9**	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
PW-3	28-Oct-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	30-Nov-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0 32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	28-Dec-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	**3.4**	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	25-Jan-05	ND (0.32)	**0.60 J**	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
PW-4	29-Oct-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	1-Dec-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0 25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	29-Dec-04	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	**0.66 J**	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)
	24-Jan-05	ND (0.32)	ND (0.48)	ND (0.41)	ND (0.37)	ND (0.27)	ND (0.24)	ND (0.28)	ND (0.25)	ND (0.16)	ND (0.22)	ND (0.27)	ND (0.24)	ND (0.32)	ND (0.36)	ND (0.27)	ND (0.24)	ND (0.45)	ND (0.48)	ND (0.30)

TABLE 10
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM
VOCs, 1,4-DIOXANE, RDX, PERCHLORATE, AND NDMA
Remedial Investigation
160-Acre Parcel, Rialto, California

Groundwater Monitoring Well ID	Sampling Date	VOLATILE ORGANIC COMPOUNDS (VOCs)											
		1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene	Vinyl chloride	Tentatively Identified Compounds (TICs)	1,4 Dioxane	RDX	Perchlorate	N-nitrosodimethylamine (NDMA)
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	ng/L
PW-1	28-Oct-04	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	ND (0 33)	ND (0 37)	ND (0 0008)	ND (0 70)
	30-Nov-04	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0.26)	ND (0 26)	ND	NA	NA	ND (0 0008)	ND (0 70)
	28-Dec-04	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0.23)	ND (0 26)	ND (0 26)	ND	NA	NA	ND (0 0008)	ND (0 70)
	26-Jan-05	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	ND (0 0008)	NA
PW-25	28 Dec-04	ND (0 30)	ND (0 26)	ND (0 34)	ND (0 85)	ND (0 23)	ND (0.26)	ND (0 26)	ND	NA	NA	ND (0 0008)	ND (0 70)
PW-2	27-Oct-04	ND (0 30)	**49**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	ND (0 33)	ND (0 37)	**0.040**	ND (0 70)
	29 Nov 04	ND (0 30)	**60**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0 057**	**1.3 B,J**
	27-Dec-04	ND (0 30)	**62**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0 073**	ND (0 70)
	25-Jan-05	ND (0 30)	**45**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0 047**	NA
PW-26	29-Nov 04	ND (0 30)	**60**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0.054**	**0 73 B,J**
PW-3	28-Oct-04	ND (0 30)	**8.9**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	ND (0 33)	ND (0 35)	**0.046**	ND (0 70)
	30 Nov 04	ND (0 30)	**12**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0 067**	ND (0 70)
	28-Dec-04	ND (0 30)	**15**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0 063**	ND (0 70)
	25-Jan-05	ND (0 30)	**7.4**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0.028**	NA
PW-4	29-Oct-04	ND (0 30)	**1 4**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	ND (0 33)	ND (0 37)	**0.0011**	ND (0 70)
	1-Dec-04	ND (0 30)	**2**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0.0015**	**0.9 J**
	29-Dec-04	ND (0 30)	**1.4**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0.00095 J**	ND (0 70)
	24-Jan 05	ND (0 30)	**4.3**	ND (0 34)	ND (0 85)	ND (0 23)	ND (0 26)	ND (0 26)	ND	NA	NA	**0.0027**	NA

NOTES:

ND = Not detected above the indicated Method Detection Limit (MDL)

NA = Not analyzed

"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the MDL

"B" indicates the analyte was detected in the associated laboratory Method Blank sample

µg/L = micrograms per liter

mg/L = milligrams per liter

ng/L = nanograms per liter

Volatile organic compounds (VOCs) analyzed by USEPA Method 5030B/8260B

1,4-Dioxane analyzed by USEPA Method 3520C

RDX analyzed by USEPA Method 8330

Perchlorate analyzed by USEPA Method 314 0

N-Nitrosodimethylamine (NDMA) analyzed by USEPA Method 1625C Modified

Monitoring well I D PW-25 is a duplicate of monitoring well I D PW-1

Monitoring well I D PW-26 is a duplicate of monitoring well I D PW-2

Table 11

TABLE 11
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - METALS
Remedial Investigation
160-Acre Parcel, Rialto, California
Page 1 of 2

Groundwater Monitoring Well ID	Sampling Date	Aluminum	Arsenic	Barium	Boron	Calcium	Cerium	Chromium (Total)	Chromium VI	Cobalt	Copper	Iron	Lead	Lithium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PW-1	28-Oct-04	2,500	4.4	31	30 J	56,000	3.2	64	0.28 J	1.9	26	7,000	21	ND (45)
	30-Nov-04	ND (47)	2.5	22	ND (7.4)	56,000	ND (0.037)	0.42 J	ND (0.041)	0.12 J	ND (0.49)	ND (8.8)	ND (0.13)	ND (45)
	25-Jan-05	ND (47)	2.4	21	ND (7.4)	57,000	ND (0.037)	ND (0.26)	0.39 J	0.12 J	1.0 J	9.6 J	ND (0.13)	ND (45)
PW-2	27-Oct-04	37,000	40	210 B	ND (7.4)	69,000	34	140	0.57 B, H, J	19	40	73,000	29	ND (45)
	29-Nov-04	ND (47)	1.6	13	25 B, J	54,000	ND (0.037)	1.2	0.10 J	0.26 J	0.71 J	ND (8.8)	0.18 B, J	ND (45)
	25-Jan-05	ND (47)	1.9	18	ND (7.4)	54,000	ND (0.037)	ND (0.26)	0.54 B, J	0.22 J	ND (0.49)	11 J	ND (0.13)	ND (45)
PW-26	29-Nov-04	ND (47)	1.3	14	24 B, J	53,000	ND (0.037)	1.3	0.35 J	0.12 J	0.60 J	ND (8.8)	ND (0 13)	ND (45)
PW-3	28-Oct-04	40,000	6.1	200	38 J	60,000	35	69	0.23 J	11	21	150,000	14	48 J
	30-Nov-04	ND (47)	1.8	18	18 B, J	49,000	ND (0.037)	ND (0.26)	0.37 J	0.17 J	0.55 J	ND (8.8)	ND (0.13)	ND (45)
	25-Jan-05	ND (47)	3 3	18	9.1 J	50,000	ND (0.037)	ND (0.26)	0.40 B, J	0.10 J	0.49 J	14 J	ND (0.13)	ND (45)
PW-4	29-Oct-04	5,600	22	41	28 J	33,000	22	29	1.3	1.7	19	11,000	21	ND (45)
	1-Dec-04	450	16	5.9	25 J	6,100	2.4	2.5	1.7 B, J	0.11 J	1.0 J	180	0.80 J	ND (45)
	24-Jan-05	340	18	14	30 J	8,300	5.3	3.3	1.2	0.22 J	2.0	210	1.6	ND (45)

TABLE 11
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - METALS
Remedial Investigation
160-Acre Parcel, Rialto, California

Groundwater Monitoring Well ID	Sampling Date	Manganese	Magnesium	Nickel	Potassium	Sodium	Vanadium	Zinc	Zirconium
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PW-1	28-Oct-04	89	9,100	30	5,200	10,000	6.9	1,100	ND (29)
	30-Nov-04	3.7	9,100	1.4	4,000	11,000	1.5	120	ND (29)
	25-Jan-05	3.7	8,700	1.5	2,700	11,000	1.3	51	NA
PW-2	27-Oct-04	880	20,000	64	9,600	11,000	83	780	ND (29)
	29-Nov-04	4.6	8,300	1.4	2,700	11,000	1.1	22	ND (29)
	25-Jan-05	52	8,300	1.5	3,700	12,000	1.3	8.3 J	NA
PW-26	29-Nov-04	4.1	8,100	1.3	2,800	12,000	1.4	6.6 B,J	ND (29)
PW-3	28-Oct-04	820	18,000	11	8,900	12,000	34	340	ND (29)
	30-Nov-04	12	7,400	2.4	2,900	11,000	2.1	56	ND (29)
	25-Jan-05	5.3	7,500	1.2	2,600	11,000	1.7	25	NA
PW-4	29-Oct-04	330	3,300	42	4,700	66,000	18	560	ND (29)
	1-Dec-04	5.3	480	0.57 J	5,000	75,000	12	6.7 J	ND (29)
	24-Jan-05	11	430	1.2	4,700	79,000	11	9.0	NA

NOTES:

ND = Not detected above the indicated Method Detection Limit (MDL)

NA = Not analyzed

"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the MDL

"B" indicates the analyte was detected in the associated laboratory Method Blank sample

"H" indicates sample analysis performed past method-specified holding time.

µg/L = micrograms per liter

Metals analyzed by USEPA Method 6010B/6020, with the exception of chromium VI analyzed by USEPA Method 7199. Analytical results in October 2004 reflect total metals concentrations. Subsequent groundwater samples were filtered and data reflect dissolved metals concentrations.

Monitoring well I.D. PW-26 is a duplicate of monitoring well I.D. PW-2

Table 12

TABLE 12
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - GENERAL CHEMISTRY
Remedial Investigation
160-Acre Parcel, Rialto, California

Groundwater Monitoring Well ID	Date Sampled	Alkalinity (as CaCo3)	Ammonia-N	Chlorate	Chloride	Hardness (as CaCO3)	Nitrate-N	Sulfate	Sulfide	Total Dissolved Solids	pH
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
PW-1	28-Oct-04	120	ND (0.11)	ND*	4.5	180	3.3	23	0.011 J	230	7.58
	30-Nov-04	160	ND (0.11)	0.0066 J	4.9	180	4.4	23	0.046 B, J	250	7.55
	26-Jan-05	160	ND (0.11)	0.008 J	4.9	180	3.9	23	0.85	250	7.64
PW-2	27-Oct-04	170	ND (0.11)	ND*	4.3	260	3.1	22	ND (0.010)	230	7.23
	29-Nov-04	170	ND (0.11)	0.0069 J	4.3 J	170	3.4	22	ND (0.010)	250	7.85
	25-Jan-05	160	ND (0.11)	0.0051 J	4.2	170	3.2	22	0.39	260	7.46
PW-26	29-Nov-04	170	ND (0.11)	0.0041 J	4.4	170	3.4	23	ND (0.010)	250	7.84
PW-3	28-Oct-04	150	ND (0.11)	ND*	4.1	220	3.0	20	0.045 J	210	7.54
	30-Nov-04	160	ND (0.11)	ND*	4.1	150	3.3	21	ND (0.010)	250	7.40
	25-Jan-05	150	ND (0.11)	ND*	3.8	160	2.9	20	0.57	240	7.48
PW-4	29-Oct-04	170	0.15 J	ND*	4.5	96	4.0	26	0.14	340	9.90
	1-Dec-04	220	0.27 J	0.0059 J	4.8	17	4.0	33	ND (0.010)	810	8.92
	24-Jan-05	290	0.14 J	ND*	6.3	280	4.2	26	ND (0.010)	1,100	9.54

NOTES:

*Indicates constituent was not detected above a Laboratory Project Reporting Limit of 0.01 mg/L.
ND = Not detected above the indicated Method Detection Limit (MDL)
"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the MDL
"B" indicates analyte was detected in the associated laboratory Method Blank sample
mg/L = milligrams per liter
Monitoring well I.D. PW-26 is a duplicate of monitoring well I.D. PW-2

Alkalinity as CaCO3 analyzed by Method SM2320B
Ammonia-N analyzed by Method SM4500-NH3,F
Chlorate analyzed by USEPA Method 300.1
Chloride analyzed by USEPA Method 300.0
Hardness (as CaCO3) analyzed by Method SM2340B
Nitrate-N analyzed by USEPA Method 300.0
Sulfate analyzed by USEPA Method 300.0
Sulfide analyzed by USEPA Method 376.2
Total Dissolved Solids analyzed by USEPA Method 160.1
pH analyzed by USEPA Method 150.1

Table 13

TABLE 13
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - EQUIPMENT BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-29-10-27	PW-29-10-28	PW-29-10-29	PW-29-11-29	PW-29-11-30	PW-29-12-01	PW-29-12-27	PW-29-12-28	PW-29-12-29	PW-29-01-24	PW-29-01-25	PW-29-01-26
	27-Oct-04	28-Oct-04	29-Oct-04	29-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Volatile Ogranic Compounds (VOCs) in µg/L												
Acetone	ND (4.5)	**5.9 J**	**12**	**5.4 J**	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	**7.4 J**	ND (4.5)	**4.5 J**
Benzene	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0 28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Bromobenzene	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Bromochloromethane	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Bromodichloromethane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
Bromoform	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Bromomethane	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
2-Butanone (MEK)	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*	*ND (3.8)*
Carbon tetrachloride	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0 28)	ND (0.28)	ND (0.28)	ND (0.28)
Chlorobenzene	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
Chloroethane	ND (0.33)	ND (0.33)	ND (0 33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Chloroform	ND (0.33)	ND (0.33)	ND (0 33)	ND (0 33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0 33)
Chloromethane	**1.0**	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
2-Chlorotoluene	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
4-Chlorotoluene	ND (0.29)	ND (0.29)	ND (0 29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
cis-1,2-Dichloroethene	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
cis-1,3-Dichloropropene	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0 22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0 22)	ND (0.22)
1,2-Dibromo-3-chloropropane	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)
Dibromochloromethane	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
1,2-Dibromoethane	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0 32)	ND (0.32)	ND (0 32)	ND (0.32)	ND (0.32)	ND (0.32)
Dibromomethane	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
1,2-Dichlorobenzene	ND (0.32)	ND (0 32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)

TABLE 13
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - EQUIPMENT BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-29-10-27	PW-29-10-28	PW-29-10-29	PW-29-11-29	PW-29-11-30	PW-29-12-01	PW-29-12-27	PW-29-12-28	PW-29-12-29	PW-29-01-24	PW-29-01-25	PW-29-01-26
	27-Oct-04	28-Oct-04	29-Oct-04	29-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Volatile Ogranic Compounds (VOCs) in µg/L												
1,3-Dichlorobenzene	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)
1,4-Dichlorobenzene	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
Dichlorodifluoromethane	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
1,1-Dichloroethane	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dichloroethane	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
1,1-Dichloroethene	ND (0.32)	ND (0.32)	ND (0.32)	**0.82 J**	**0.34 J**	ND (0.32)	ND (0.32)	ND (0.32)	**0.43 J**	ND (0.32)	ND (0.32)	**0.66 J**
1,2-Dichloropropane	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)
1,3-Dichloropropane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
2,2-Dichloropropane	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1-Dichloropropene	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Ethylbenzene	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Hexachlorobutadiene	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
2-Hexanone	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)
Isopropylbenzene	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
m,p-Xylene	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	**1.2**	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)
2-Methyl-2-pentanone (MBK)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
Methyl tert-butyl ether (MTBE)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Methylene Chloride	ND (0.48)	ND (0.48)	**1.0 J**	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	**0.96 J**	ND (0.48)
Naphthalene	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
n-Butylbenzene	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
n-Propylbenzene	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)

TABLE 13
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - EQUIPMENT BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-29-10-27	PW-29-10-28	PW-29-10-29	PW-29-11-29	PW-29-11-30	PW-29-12-01	PW-29-12-27	PW-29-12-28	PW-29-12-29	PW-29-01-24	PW-29-01-25	PW-29-01-26
	27-Oct-04	28-Oct-04	29-Oct-04	29-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Volatile Ogranic Compounds (VOCs) in µg/L												
o-Xylene	ND (0.24)	ND (0.24)	ND (0.24)	ND (0 24)	ND (0.24)	**0.41 J**	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
p-Isopropyltoluene	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
sec-Butylbenzene	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Styrene	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
tert-Butylbenzene	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,1,1,2-Tetrachloroethane	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,1,2,2-Tetrachloroethane	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Tetrachloroethene	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Toluene	ND (0 36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0 36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
trans-1,2-Dichloroethene	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0 27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
trans-1,3-Dichloropropene	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0 24)	ND (0.24)	ND (0.24)	ND (0.24)
1,2,3-Trichlorobenzene	ND (0.45)	ND (0.45)	ND (0.45)	ND (0 45)	ND (0.45)	ND (0.45)	ND (0 45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)
1,2,4-Trichlorobenzene	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)
1,1,1-Trichloroethane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,1,2-Trichloroethane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
Trichloroethene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Trichlorofluoromethane	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0 34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
1,2,3-Trichloropropane	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)
1,2,4-Trimethylbenzene	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	**0.87 J**	ND (0.23)	ND (0.23)	ND (0 23)	ND (0.23)	ND (0.23)	ND (0.23)
1,3,5-Trimethylbenzene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	**0.31 J**	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Vinyl chloride	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0 26)	ND (0.26)	ND (0.26)	ND (0.26)
Tentatively Identified Compounds (TICs)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 13
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - EQUIPMENT BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-29-10-27	PW-29-10-28	PW-29-10-29	PW-29-11-29	PW-29-11-30	PW-29-12-01	PW-29-12-27	PW-29-12-28	PW-29-12-29	PW-29-01-24	PW-29-01-25	PW-29-01-26
	27-Oct-04	28-Oct-04	29-Oct-04	29-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Metals in µg/L												
Aluminum	ND (47)	ND (47)	ND (47)	ND (47)	ND (47)	ND (47)	NA	NA	NA	ND (47)	ND (47)	ND (47)
Arsenic	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	NA	NA	NA	ND (0.49)	ND (0.49)	ND (0.49)
Barium	**4.2 J**	ND (2.8)	**3.9 J**	ND (0.14)	ND (0.14)	ND (0.14)	NA	NA	NA	ND (0.14)	**0.82 J**	ND (0.14)
Boron	**7.7 J**	ND (7.4)	**8.2 J**	ND (7.4)	ND (7.4)	ND (7.4)	NA	NA	NA	ND (7.4)	ND (7.4)	**91**
Calcium	**64 B,J**	**59 B,J**	**43 B,J**	**20 J**	ND (15)	**25 J**	NA	NA	NA	**15 J**	**30 B, J**	**27 B, J**
Cerium	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	NA	NA	NA	ND (0.037)	ND (0.037)	ND (0.037)
Chromium, Total	ND (0.26)	**0.38 B,J**	**0.28 B,J**	**1.4**	ND (0.26)	**0.30 J**	NA	NA	NA	ND (0.26)	ND (0.26)	ND (0.26)
Chromium VI	**0.16 B,H,J**	ND (0.041)	**0.15 J**	ND (0.041)	**0.066 J**	**0.067 J**	NA	NA	NA	ND (0.041)	**0.089 B, J**	**0.090 J**
Cobalt	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	NA	NA	NA	ND (0.10)	ND (0.10)	ND (0.10)
Copper	**0.66 J**	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	NA	NA	NA	ND (0.49)	ND (0.49)	ND (0.49)
Iron	**23 B,J**	**15 B,J**	**24 B,J**	ND (8 8)	ND (8.8)	ND (8.8)	NA	NA	NA	ND (8.8)	ND (8.8)	ND (8 8)
Lead	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	NA	NA	NA	ND (0.13)	ND (0.13)	ND (0.13)
Lithium	ND (45)	ND (45)	ND (45)	ND (45)	ND (45)	ND (45)	NA	NA	NA	ND (45)	ND (45)	ND (45)
Manganese	**0.81 J**	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	NA	NA	NA	ND (0.44)	ND (0.44)	**2.1**
Magnesium	**4.5 B,J**	**5.3 B,J**	ND (3.0)	**9.4 B, J**	ND (3.0)	ND (3.0)	NA	NA	NA	**6.1 J**	**11 J**	**5.9 J**
Nickel	ND (0 15)	ND (0.15)	ND (0.15)	**0.27 B, J**	ND (0.15)	ND (0.15)	NA	NA	NA	ND (0.15)	**0.26 J**	ND (0.15)
Potassium	**120 B,J**	**99 B,J**	**81 B,J**	ND (66)	**120 J**	ND (66)	NA	NA	NA	ND (66)	**100 J**	ND (66)
Sodium	**190 B,J**	**190 B,J**	**470 B,J**	**160 J**	**150 B, J**	ND (95)	NA	NA	NA	ND (95)	ND (95)	ND (95)
Vanadium	ND (0 86)	ND (0.86)	ND (0.86)	ND (0.86)	ND (0.86)	ND (0.86)	NA	NA	NA	ND (0.86)	ND (0.86)	**0.94 J**
Zinc	3.9 J	ND (3.1)	ND (3.1)	ND (3.1)	**6.3 J**	ND (3.1)	NA	NA	NA	ND (3.1)	ND (3.1)	**3.1 J**
Zirconium	ND (29)	ND (29)	ND (29)	ND (29)	ND (29)	ND (29)	NA	NA	NA	NA	NA	NA

TABLE 13
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - EQUIPMENT BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-29-10-27	PW-29-10-28	PW-29-10-29	PW-29-11-29	PW-29-11-30	PW-29-12-01	PW-29-12-27	PW-29-12-28	PW-29-12-29	PW-29-01-24	PW-29-01-25	PW-29-01-26
	27-Oct-04	28-Oct-04	29-Oct-04	29-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Additional Constituents of Concern in µg/L												
1,4-Dioxane	ND (0 33)	ND (0 33)	ND (0 33)	NA	NA	NA	NA	NA	NA	NA	NA	NA
RDX	ND (0 37)	ND (0 39)	ND (0 37)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perchlorate	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)	ND (0 80)
N-Nitrosodimethylamine (NDMA)	**0.00079 J**	ND (0 00070)	ND (0 00070)	**0.0012 B,J**	**0.0019 B,J**	**0.0011 J**	ND (0 00070)	ND (0 00070)	ND (0 00070)	NA	NA	NA

NOTES.

ND = Not detected above the indicated Method Detection Limit (MDL)

NA = Not analyzed

"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the MDL

"B" indicates the analyte was detected in the associated laboratory Method Blank sample

µg/L = micrograms per liter

Volatile organic compounds (VOCs) analyzed by USEPA Method 5030B/8260B

1,4 Dioxane analyzed by USEPA Method 3520C

RDX analyzed by USEPA Method 8330

Perchlorate analyzed by USEPA Method 314 0

N nitrosodimethylamine (NDMA) analyzed by USEPA Method 1625C Modified

Metals analyzed by USEPA Method 6010B/6020, with the exceptiono of chromium VI analyzed by USEPA Method 7199 Analytical results in October 2004 reflect total metals concentrations. Subsequent groundwater samples were filtered and data reflect dissolved metals concentrations

Table 14

TABLE 14
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - TRIP BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-30-10-27-1	PW-30-10-27-2	PW-30-10-28-1	PW-30-10-28-2	PW-30-10-28-3	PW-30-10-29-1	PW-30-10-29-2	PW-30-11-29-01	PW-30-11-29-02	PW-30-11-30-01	PW-30-11-30-02	PW-30-12-01-01	PW-30-12-27-01	PW-30-12-28-01	PW-30-12-28-02	PW-30-12-29-01	PW-30-01-24-01	PW-30-01-25-01	PW-30-01-26-01
	27-Oct-04	27-Oct-04	28-Oct-04	28-Oct-04	28-Oct-04	29-Oct-04	29-Oct-04	29-Nov-04	29-Nov-04	30-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Volatile Organic Compounds, µg/L																			
Acetone	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	11	ND (4.5)	ND (4.5)	ND (4.5)	ND (4 5)	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)	ND (4.5)
Benzene	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Bromobenzene	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
Bromochloromethane	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Bromodichloromethane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
Bromoform	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Bromomethane	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
2-Butanone (MEK)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)	ND (3.8)
Carbon tetrachloride	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Chlorobenzene	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0 36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
Chloroethane	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Chloroform	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
Chloromethane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0 30)
2-Chlorotoluene	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
4-Chlorotoluene	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
cis-1,2-Dichloroethene	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
cis-1,3-Dichloropropene	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0 22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,2-Dibromo-3-chloropropane	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)

TABLE 14
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - TRIP BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-30-10-27-1	PW-30-10-27-2	PW-30-10-28-1	PW-30-10-28-2	PW-30-10-28-3	PW-30-10-29-1	PW-30-10-29-2	PW-30-11-29-01	PW-30-11-29-02	PW-30-11-30-01	PW-30-11-30-02	PW-30-12-01-01	PW-30-12-27-01	PW-30-12-28-01	PW-30-12-28-02	PW-30-12-29-01	PW-30-01-24-01	PW-30-01-25-01	PW-30-01-26-01
	27-Oct-04	27-Oct-04	28-Oct-04	28-Oct-04	28-Oct-04	29-Oct-04	29-Oct-04	29-Nov-04	29-Nov-04	30-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Volatile Ogranic Compounds, µg/L																			
Dibromochloromethane	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
1,2-Dibromoethane	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0 32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Dibromomethane	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
1,2-Dichlorobenzene	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
1,3-Dichlorobenzene	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)
1,4-Dichlorobenzene	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
Dichlorodifluoromethane	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
1,1-Dichloroethane	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0 27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dichloroethane	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
1,1-Dichloroethene	ND (0.32)	ND (0 32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0 32)	ND (0.32)	ND (0.32)	ND (0 32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0 32)	ND (0.32)	ND (0.32)
1,2-Dichloropropane	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)
1,3-Dichloropropane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
2,2-Dichloropropane	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1-Dichloropropene	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
Ethylbenzene	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0 25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Hexachlorobutadiene	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0 38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)
2-Hexanone	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)
Isopropylbenzene	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)

TABLE 14
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - TRIP BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-30-10-27-1	PW-30-10-27-2	PW-30-10-28-1	PW-30-10-28-2	PW-30-10-28-3	PW-30-10-29-1	PW-30-10-29-2	PW-30-11-29-01	PW-30-11-29-02	PW-30-11-30-01	PW-30-11-30-02	PW-30-12-01-01	PW-30-12-27-01	PW-30-12-28-01	PW-30-12-28-02	PW-30-12-29-01	PW-30-01-24-01	PW-30-01-25-01	PW-30-01-26-01
	27-Oct-04	27-Oct-04	28-Oct-04	28-Oct-04	28-Oct-04	29-Oct-04	29-Oct-04	29-Nov-04	29-Nov-04	30-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Volatile Ogranic Compounds, µg/L																			
m,p-Xylene	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0 52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0 52)	ND (0.52)
2-Methyl-2-pentanone	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
Methyl tert-butyl ether	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Methylene Chloride	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	**0.83 B,J**	**0.74 J**	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	**0.57 J**	ND (0.48)
Naphthalene	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
n-Butylbenzene	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0 37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
n-Propylbenzene	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
o-Xylene	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
p-Isopropyltoluene	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
sec-Butylbenzene	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Styrene	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
tert-Butylbenzene	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
1,1,1,2-Tetrachloroethane	ND (0.27)	ND (0.27)	ND (0 27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0 27)	ND (0.27)	ND (0.27)
1,1,2,2-Tetrachloroethane	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
Tetrachloroethene	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Toluene	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0 36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)
trans-1,2-Dichloroethene	ND (0.27)	ND (0.27)	ND (0.27)	ND (0 27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
trans-1,3-Dichloropropene	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0 24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)

TABLE 14
ANALYTICAL RESULTS OF GROUNDWATER MONITORING PROGRAM - TRIP BLANK SAMPLES
Remedial Investigation
160-Acre Parcel, Rialto, California

Analyte and Units	PW-30-10-27-1	PW-30-10-27-2	PW-30-10-28-1	PW-30-10-28-2	PW-30-10-28-3	PW-30-10-29-1	PW-30-10-29-2	PW-30-11-29-01	PW-30-11-29-02	PW-30-11-30-01	PW-30-11-30-02	PW-30-12-01-01	PW-30-12-27-01	PW-30-12-28-01	PW-30-12-28-02	PW-30-12-29-01	PW-30-01-24-01	PW-30-01-25-01	PW-30-01-26-01
	27-Oct-04	27-Oct-04	28-Oct-04	28-Oct-04	28-Oct-04	29-Oct-04	29-Oct-04	29-Nov-04	29-Nov-04	30-Nov-04	30-Nov-04	1-Dec-04	27-Dec-04	28-Dec-04	28-Dec-04	29-Dec-04	24-Jan-05	25-Jan-05	26-Jan-05
Volatile Ogranic Compounds, µg/L																			
1,2,3-Trichlorobenzene	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)
1,2,4-Trichlorobenzene	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)
1,1,1-Trichloroethane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,1,2-Trichloroethane	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
Trichloroethene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Trichlorofluoromethane	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)
1,2,3-Trichloropropane	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)	ND (0.85)
1,2,4-Trimethylbenzene	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0 23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
1,3,5-Trimethylbenzene	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Vinyl chloride	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0 26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Tentatively Identified Compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
ND = Not detected above the indicated Method Detection Limit (MDL)
NA = Not analyzed
"J" indicates estimated concentration below the Laboratory Project Reporting Limit and above the MDL
"B" indicates analyte was detected in the associated laboratory Method Blank sample
µg/L = micrograms per liter
Volatile organic compounds (VOCs) analyzed by USEPA Method 5030B/8260B

APPENDIX A

Remedial Investigation Boring Logs

GEOSYNTEC CONSULTANTS
200 E Del Mar Boulevard Suite 250
Pasadena, California 91105
Tel (626) 449-0664 Fax (626) 449-0411

GS FORM WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-1**		**SHEET 1 OF 18**
START DRILL DATE	May 21, 04	**ELEVATION DATA**	
FINISH DRILL DATE	May 28, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1704 48 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	ARTIFICIAL FILL Asphalt Surface, 6" thick										07 30	Borehole telescoping diameters and approximate depths 16-inch diameter steel casing (0' - 59'), 13 3/8" diameter steel casing (59' - 199'), 11 3/4" diameter steel casing (199' - 477'), 10 5/8" open borehole (477' - 510 5') Air knifing to 8'
5	SAND with GRAVEL (SP-GW) olive brown [2 5Y 4/4] 10% fine to coarse gravel, cobbles, 80% poorly graded medium-grained sand, 10% fines, dry, no staining, no unusual odors, (10,80,10)										08 00	
10	Well-Graded GRAVEL with SAND (GW) olive brown [2 5Y 4/4], 80% fine to coarse gravel (subangular to angular, <3" diameter), 20% medium- to coarse-grained sand, trace fines no staining, no unusual odors, (80,20,tr)									20	13 25	
15										25 8	13 47	
20	@ 20' - decrease in sand to 10%, color change to dark olive brown [2 5Y 3/3], (90,10,tr)									23 4	14 20	From 0' - 20', rate of drilling is 0 44 ft/min
25	@ 25' - gravel (angular to subangular, 1" to 4" diameter), sand (angular to subangular)									28 9	14 25	
30												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES This boring was originally identified as PW-1A However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVEL with SAND (GW) 1" - 4" diameter gravels, (90,10,tr)									69 2	14 30	PID headspace reading sample placed in baggie, condensation apparent in baggie
35												From 20' - 40', rate of drilling is approximately 0 4 ft/min
40										10 2	15 10	
45	Well-Graded GRAVEL with SAND (GW) olive brown [2 5Y 4/4], 90% fine to coarse gravel (angular to subangular, <4" diameter), 10% coarse- to medium-grained sand, trace fines, dry, no staining, no unusual odors, (90,10,tr)									86 6	15 20	PID headspace reading, sample placed in baggie, condensation apparent in baggie
50										90 7	15 27	PID headspace reading sample placed in baggie, condensation apparent in baggie
55	@ 55' - angular to subangular gravels and sands									102	15 32	PID headspace reading, sample placed in baggie, condensation apparent in baggie
60												Bottom of 16" diameter steel casing is at 59'

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G
NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM NAD-83 Zone 5

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL (GW) olive [5Y 4/4], coarse gravel (angular to subangular, <3" diameter) trace fines, (100,0,tr)										16 15	@ approximately 60' - 65', appear to be grinding through a boulder or large cobbles
65										12 0	16 22	
70	@ 70' - very wet soil cuttings due to water injection in the borehole									4 8	16 30	From 60' - 80', rate of drilling is approximately 0 6 ft/min
75										5 2	16 40	
80										3 1	16 45	
85	@ 85' - decrease in gravel size, angular to subangular gravels									11 7	17 00	@ 85' continue to grind through large cobbles or boulders
90												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES: This boring was originally identified as PW-1A However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA.
GROUND SURF NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well Graded GRAVEL (GW) increase in gravel size									12 2	17 12	
95										13 5	17 25	From 80' 95' rate of drilling is approximately 0 38 ft/min
100	@ 100' - color change to very dark gray [2 5Y 3/1] very wet soils due to water injection									15 0	07 45	All subsequent PID readings are from the hopper
105	@ 105' - trace fines wet due to water injection in borehole									0 9	07 53	Background PID reading is 0 9 ppm
110	@ 110' - gravel (angular to subangular <1" diameter)									0 9	08 05	
115	Well Graded GRAVEL with SAND (GW SW) very dark grayish brown [2 5Y 3/2], 70% well graded gravel (<0 5" diameter) 30% coarse to medium grained sand, trace fines, wet due to water injection in borehole (70,30 tr)									1 2	08 10	From 98' 115' rate of drilling is 0 425 ft/min
120												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16" 13 3/8" 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM. NAD-83 Zone 5

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GS FORM WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA.
GROUND SURF. NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW-SW) angular to subangular sands and gravels									1 2	08 15	
125										1 2	08 20	
130	maximum size of gravels is 0 5" diameter									1 1	08 24	
135	@ 135' - increase in gravel size (<0 75" diameter), angular to subangular									1 3	08 27	From 115' -135', rate of drilling is approximately 1 18 ft/min
140	@ 140' - color change to olive brown [2 5Y 4/4], 70% well-graded gravel (angular to subangular, <0 5" diameter), 20% medium- to coarse-grained sand, 10% fines, moist due to water injection into the borehole, (70,20,10)									0 6	13 30	From 140' - 150', rate of drilling is approximately 0 45 ft/min
145										0 0	13 45	
150												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM: NAD-83 Zone 5

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW-SW) angular to subangular sands and gravels									0 4	13 52	PID headspace reading, sample placed in baggie, condensation apparent in baggie
155	@ 155' - color change to olive [5Y 4/4]									4 1	14 13	
160	@ 160' - color change to dark olive gray [5Y 3/2], 80% fine to coarse gravel (<0 75" diameter), 10% coarse-grained sand, 10% fines; no staining, no unusual odor; moist due to water injection into the borehole, (80,10,10)									3 3	14 25	From 150' -160', rate of drilling is approximately 0 22 ft/min
165	GRAVEL with SILTY SAND (GW-SM) dark olive gray [5Y 3/2], 60% well-graded fine gravel (<0 25" diameter), 20% medium- to coarse-grained sand, 20% fines, moist due to water injection into the borehole, (60,20,20)									0 9	15 20	
170										0 9	15 30	
175	@ 175' - angular to subangular sands and gravels									0 9	15 37	
180												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216.65
COORDINATE SYSTEM: NAD-83 Zone 5

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVEL with SILTY SAND (GW-SM) increase in gravel size (<1 25" diameter)									0 8	15 45	From 160' - 180', rate of drilling is 0 33 ft/min
185										0 6	15 55	
190	@ 190' - damp									0 8	16 07	
195										0 5	16 15	
200										0 4	16 25	Bottom of 13 3/8" diameter steel casing is at 199'
205	@ 205' - color change to dark olive brown [2 5Y 3/3]									3 4	08 45	PID readings from the air return at hopper
210												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM: NAD-83 Zone 5

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816
ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVEL with SILTY SAND (GW-SM) gravel sizes <1 25" diameter									3 5	08 48	Background PID reading is 3 4 ppm
215										3 6	08 52	
220	@ 220' - 60% well-graded fine gravel (angular and subangular), increase in well-graded medium- to coarse-grained sand to 25%, decrease in fines to 15%, moist due to water injection into the borehole, no staining, no unusual odors, (60,25,15)									5 2	09 05	From 205' - 215', rate of drilling is approximately 1 0 ft/min
225										2 6	09 15	
230										2 3	09 22	
235	@ 235' - angular to subangular gravels and sands									2 2	09 30	From 220' - 235', rate of drilling is approximately 0 8 ft/min
240												

CONTRACTOR WDC Exploration & Wells
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DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
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REVIEWER Walt Grinyer, P G
NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM: NAD-83 Zone 5

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA.
GROUND SURF. NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6'	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVEL with SILTY SAND (GW-SM) angular to subangular gravels									2 7	09 50	
245										2 0	09 55	
250	@ 250' - gravel sizes <1 25" diameter									2 1	09 59	
255										2 0	10 05	From 240' - 255', rate of drilling is approximately 1 0 ft/min
260	@ 260' - decrease in gravel sizes (<0 5" diameter)									2 0	10 18	
265										1 9	10 24	
270												

CONTRACTOR WDC Exploration & Wells
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COORDINATE SYSTEM: NAD-83 Zone 5

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BOREHOLE LOG

BORING PW-1
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FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVEL with SILTY SAND (GW SM) gravel sizes <0 5" diameter									1 7	10 30	
275										1 7	10 35	From 260' - 275', rate of drilling is approximately 1 0 ft/min
280										1 7	10 48	
285	@ 285' - moist due to water injection into the borehole									1 6	10 53	
290										1 5	10 58	
295	@295' - angular to subangular gravels									1 5	11 02	From 280' - 295', rate of drilling is approximately 1 0 ft/min
300												

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NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM: NAD-83 Zone 5

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GS FORM WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-1**		**SHEET 11 OF 18**
START DRILL DATE	May 21, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	May 28, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1704 48 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVEL with SILTY SAND (GW-SM) gravel sizes <0 5" diameter (angular to subangular)									1 5	11 16	
305										1 5	11 20	
310										1 5	11 25	
315	Well-Graded GRAVEL with SAND (GW-SW) dark olive gray [5Y 3/2], 50% fine gravel (angular and subangular), 40% well-graded medium- to coarse-grained sand, 10% fines; moist due to water injection; no staining, no unusual odors, (50,40,10)									1 6	11 30	
320	@ 320' - gravel sizes <0 5" diameter									1 6	11 39	
325										1 5	11 42	
330												

CONTRACTOR WDC Exploration & Wells
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DRILL MTHD Air Rotary Casing Hammer
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REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM: NAD-83 Zone 5

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1 **SHEET** 12 **OF** 18
START DRILL DATE May 21, 04 **ELEVATION DATA:**
FINISH DRILL DATE May 28, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1704 48 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW-SW) angular to subangular gravels									1 5	11 48	
335	@ 335' - decrease in gravel sizes (<0 25" diameter)									1 5	11 55	From 320' - 335', rate of drilling is approximately 1 0 ft/min
340										1 4	12 10	
345										1 4	12 14	
350	@ 350' - moist due to water injection									4 2	12 20	
355										3 6	12 30	From 340' - 355', rate of drilling is approximately 1 0 ft/min
360												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1880289 14
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6737216 65
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES: This boring was originally identified as PW-1A However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

GEOSYNTEC CONSULTANTS
200 E Del Mar Boulevard Suite 250
Pasadena, California 91105
Tel (626) 449-0664 Fax (626) 449-0411

GS FORM WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-1**		**SHEET 13 OF 18**
START DRILL DATE	May 21, 04	**ELEVATION DATA**	
FINISH DRILL DATE	May 28, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1704 48 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW-SW) increase in well-graded fine gravel to 75% (angular and subangular), decrease in sand to 15% decrease in fines to 10% no staining no unusual odors, (75 15 10)									1 4	14 10	From 360' - 375' rate of drilling is approximately 0 6 ft/min
365										1 4	14 17	
370	GRAVEL with SILTY SAND (GW SM) dark olive brown [2 5Y 3/3] 50% well graded fine gravel (angular and subangular) 35% well graded medium to coarse grained sand 15% fines, damp due to water injection (50 35 15)									1 4	14 25	
375											14 35	
												@ 377, very difficult drilling appear to be encountering a cemented zone (approximately 377' - 390)
380											14 10	
385	Well Graded GRAVEL with SAND (GW SW) olive brown [2 5Y 4/4] 80% well graded gravel (angular and subangular) 15% fine- to coarse grained sand, 5% fines, damp due to water injection no staining no unusual odors (80,15 5)									1 2	15 23	
390												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM NAD-83 Zone 5

NOTES. This boring was originally identified as PW-1A However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW-SW) angular to subangular gravels									1 3	15 30	
395	@ 395' - decrease in well-graded fine gravel to 50% (angular to subangular, <0 25" diameter), increase in well-graded fine- to coarse-grained sand to 45%, 5% fines, no staining; no unusual odors, (50,45,5)									2 1	15 40	
400										3 0	15 57	
405										2 4	16 05	
410	@ 410' - damp due to water injection into the borehole									3 1	16 15	
415										1 7	16 25	From 400' - 415', rate of drilling is approximately 0 43 ft/min
420												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES: This boring was originally identified as PW-1A However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan

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Tel: (626) 449-0664 Fax: (626) 449-0411

GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1704.48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW-SW): gravel sizes <0.25" diameter; (50,45,5)									1.8	16:43	Stopped injecting water into borehole.
425	SANDY SILT with GRAVEL (ML): olive brown [2.5Y 4/4]; 15% very fine to fine gravel; 30% well-graded fine- to coarse-grained sand; 55% fines; moist; no plasticity; (15,30,55)									1.5	16:50	No subsequent PID readings due to moist soils.
430				Temporary well PW-1A-T01-444 screened from 434' - 444'. Static water level measured at 430.98'.							17:00	
435											17:15	From 420' - 435', rate of drilling is approximately 0.33 ft/min.
					PW-1A-T01-444 (Groundwater Sample)							
440	@ 440' - saturated			@ 440', encountered first groundwater. NOTE: TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-1							07:30	From 434' - 444', drilled open hole with 10 5/8" drill bit to install Temporary Well PW-1A-T01-444.
445	SANDY GRAVEL with CLAY (GW-GC): olive brown [2.5Y 4/4]; 60% fine gravel (angular to subangular); 30% medium- to coarse-graded sand; 10% fines (clay lenses); wet; no plasticity; no dilatancy; (60,30,10)										08:05	
450												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P.G.

NORTHING 1880289.14
EASTING 6737216.65
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES: This boring was originally identified as PW-1A. However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF NA ft
TOP OF CASING 1704 48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	CLAYEY SAND (SC) olive brown [2 5Y 4/3], trace gravel, 90% well-graded medium to coarse-grained sand (angular to subangular), 10% fines (clay lenses), wet, no plasticity no dilatancy, (tr,90,10)										08 10	
455	SANDY CLAY (CL) light olive brown [2 5Y 5/4], 10% medium-grained sand (angular to subangular), 90% clay, wet, low dilatancy, no plasticity, (0,10,90)										08 20	
460	@ 460' - increase in sand to 40% (angular to subangular), 60% clay, wet, (0,40,60)										08 30	
465	CLAYEY GRAVEL (GC) light olive brown [2 5Y 5/4], 60% angular to subangular fine gravel, 10% medium- to coarse-grained sand, 30% clay, low dilatancy, no plasticity, wet, (60,10,30)										08 55	
470	@ 470' - gravel sizes <0 25" diameter										09 00	Borehole producing lots of water
475	@ 475' - increase in gravel size (<0 35" diameter)										09 05	
480												@ 477', bottom of 11 3/4" diameter steel casing From 477' - 510 5', open hole drilling (10 5/8" diameter)

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1880289 14
EASTING 6737216 65
COORDINATE SYSTEM. NAD-83 Zone 5

NOTES: This boring was originally identified as PW-1A However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-1
START DRILL DATE May 21, 04
FINISH DRILL DATE May 28, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816
ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1704.48 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	CLAYEY GRAVEL (GC): increase in gravel size (<0.5" diameter); interbedded lenses of clay; wet; (60,10,30)										09:10	
485	CLAYEY GRAVEL with SAND (GC-SW): light olive brown [2.5Y 5/4]; 40% angular to subangular fine gravel; 30% medium to coarse sand; 30% clay; moist to wet; low dilatancy, no plasticity; (40,30,30) @ 486.5' - SANDY SILT with CLAY (ML): olive brown [2.5Y 4/4]; 30% very fine-grained sand (rounded to subangular); 70% fines; medium plasticity; moist; slow dilatancy; (0,30,70)					PW-1A-T02-486 (Soil Sample)		18-6" 32/10"	100		10:00	From 486' - 487.5', drive soil sample PW-1A-T02-486 collected using a 325-lb hammer.
490												
495				Temporary well PW-1A-T02-510 screened from 500' - 510'. Static water level measured at 504'.								@ 495' - 500', no recovery of cuttings for logging. No water observed from cyclone.
500												
505	Well-Graded SAND with SILT (SW-SM): olive brown [2.5Y 4/4]; 90% well-graded fine- to medium-grained sand (angular to subangular); 10% fines; moist; (0,90,10)			NOTE: TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-1		PW-1A-T02-510 (Groundwater Sample)					14:30	
510												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8"
LOGGER Phuong Ly
NORTHING 1880289.14
EASTING 6737216.65
COORDINATE SYSTEM: NAD-83 Zone 5
REVIEWER Walt Grinyer, P.G.

NOTES: This boring was originally identified as PW-1A. However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan.

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-1 **SHEET** 18 **OF** 18
START DRILL DATE May 21, 04 **ELEVATION DATA:**
FINISH DRILL DATE May 28, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1704.48 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND and SILT (GW-SM): olive brown [2.5Y 4/4]; 50% well-graded gravel (angular and subangular, <0.03" diameter); 40% well-graded medium to coarse sand; 10% fines; dry; (50,40,10)										14:40	
515	Boring terminated at a depth of 510.5'. Permanent well PW-1 was subsequently installed. Refer to well construction log for permanent well PW-1.											
520												
525												
530												
535												
540												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1880289.14
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6737216.65
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 16", 13 3/8", 11 3/4", 10 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P.G.

NOTES: This boring was originally identified as PW-1A. However, the boring ID has been revised to PW-1 to be consistent with naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the project work plan.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 1 **OF** 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	ARTIFICIAL FILL Asphalt Surface, 2" thick											Borehole telescoping diameters and approximate depths 13 3/8" diameter steel casing (0' - 199'), 11 3/4" diameter steel casing (199' - 587'), 9 5/8" diameter steel casing (587' - 642'), 8 1/2" diameter open borehole (642' - 642 5') Air knifing to 8 2'
5	Well-Graded GRAVEL (GW) olive brown [2 5Y 4/4], 60% fine to coarse gravel, 20% cobbles (<8" diameter), 20% well-graded fine- to coarse-grained sand, trace fines, dry, loose, (20,60,20,tr)											
10	@ 10' - becomes damp due to water injection										0830	
15	Well-Graded GRAVEL (GW) dark olive gray [5Y 3/2], fine to coarse gravel (angular and subangular, <1 5" diameter), cobbles, trace fines, damp due to water injection, (100,0,tr)										0845	
20											0905	From 20' - 35', rate of drilling is approximately 0 75 ft/min
25											0910	
30												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329 50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651 87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM.**
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 2 OF 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW) olive brown [2 5Y 4/3], 50% fine to coarse gravel (angular and subangular), 40% well-graded fine- to coarse-grained sand, 10% fines, moist due to water injection, (50,40,10)										0915	
35	@ 35' - increase in gravel to 60% (<1 75" diameter), decrease in well-graded sand to 35%, 5% fines, (60,35,5)										0920	
40											0945	From 40' - 55', rate of drilling is approximately 0 6 ft/min
	@ 42' - very large cobbles/boulders											Difficult drilling due to very large cobbles/boulders
45											0958	
50											1005	
55	@ 55' - large cobbles/boulders, damp due to water injection										1015	
60												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329 50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651 87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2
START DRILL DATE Jun 3, 04
FINISH DRILL DATE Jun 29, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1639 36 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW) olive brown [2 5Y 4/3], 60% fine to coarse gravel (angular and subangular), 35% well-graded fine- to coarse-grained sand, 5% fines, moist due to water injection, (60 35,5)										1038	From 60' -75', rate of drilling is approximately 1 25 ft/min
65											1043	
70											1046	
75	@ 75' - gravel sizes <1 75" diameter										1050	
80											1105	
85	@ 85' - moist due to water injection										1115	
90												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1878329 50
EASTING 6738651 87
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2
START DRILL DATE Jun 3, 04
FINISH DRILL DATE Jun 29, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1639 36 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW) olive brown [2 5Y 4/3], 60% fine and coarse gravel, 35% well-graded fine- to coarse-grained sand, 5% fines, moist due to water injection, (60,35,5)										1120	
95											1130	
100											1315	
105	@ 105' - decrease in gravel size to maximum of 0 25" diameter, slight increase in fines										1320	
110	@ 110' - increase in gravel size to maximum of 1 5" diameter										1327	
115	Well-Graded SAND with GRAVEL and SILT (SW-GW) olive brown [2 5Y 4/3], 30% fine gravel (angular to subangular), 60% well-graded fine- to coarse-grained sand, 10% fines, moist due to water injection, (30,60,10)										1332	
120												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1878329 50
EASTING 6738651 87
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 5 OF 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded SAND with GRAVEL and SILT (SW-GW) slight increase in fines, (30,60,10)										1337	
125											1340	
130	@ 130' - coarse gravel <1 5" diameter										1343	
135											1348	
140	@ 140' - moist due to water injection										1405	From 140' - 155', rate of drilling is approximately 1 33 ft/min
145											1410	
150												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329 50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651 87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P.G

NOTES:

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

GEOSYNTEC CONSULTANTS
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Pasadena, California 91105
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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 6 **OF** 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded SAND with GRAVEL and SILT (SW-GW) angular to subangular gravels <1 5" diameter, (30,60,10)										1415	
155											1425	
160											1450	From 160' - 175', rate of drilling is approximately 0 5 ft/min
165	GRAVELLY SAND/SANDY GRAVEL (GW-SW). olive brown [2 5Y 4/3], 40% fine to coarse gravel (angular to subangular, <1" diameter), 45% well-graded fine- to coarse-grained sand, 15% fines, no staining or unusual odors, (40,45,15)										1455	
170											1510	
175											1520	
180												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5"
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NORTHING 1878329 50
EASTING 6738651 87
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-2**		**SHEET 7 OF 22**
START DRILL DATE	Jun 3, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jun 29, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1639 36 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVELLY SAND/SANDY GRAVEL (GW-SW) gravel sizes <1" diameter, (40,45,15)										1540	
185											1550	From 185' - 200', rate of drilling is approximately 0 3 ft/min
190											1558	
195	Well-Graded GRAVEL with SAND (GW) olive brown [2 5Y 4/3], 80% fine to coarse gravel (angular to subangular, <1 25" diameter), 20% poorly graded coarse-grained sand, 5% fines, wet due to water injection, no staining, no unusual odors, (80,20,5)										1615	
200											1640	@ 199', bottom of 13 3/8" diameter casing Begin telescoping 11 3/4" steel casing
205	GRAVELLY SAND/SANDY GRAVEL (GW-SW) olive brown [2 5Y 4/4], 45% gravel (angular to subangular, <1" diameter), 45% well-graded fine- to coarse-grained sand, 10% fines, moist due to water injection, no staining, no unusual odors, (45,45,10)										0932	From 205' - 235', rate of drilling is approximately 0 54 ft/min
210												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G
NORTHING 1878329 50
EASTING 6738651 87
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 8 **OF** 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVELLY SAND/SANDY GRAVEL (GW-SW) angular to subangular gravels <1" diameter, (45,45,10)										0935	
215	@ 215' - decrease in gravel sizes to maximum 0 5" diameter (fine gravels)										0938	
220	@ 220' - increase in fine gravel to 65%, 25% poorly graded medium-grained sand, 10% fines, (65,25,10)										0952	From 220' - 235', rate of drilling is approximately 0 54 ft/min
225	Well-Graded SAND with GRAVEL and SILT (SW-GW) olive brown [2 5Y 4/4], 35% fine gravel, 55% well-graded coarse- to fine-grained sand, 10% fines, moist due to water injection, (35,55,10)										0955	
230	GRAVELLY SAND/SANDY GRAVEL (GW-SW) olive brown [2 5Y 4/4], 45% fine gravel, 45% well-graded coarse- to medium-grained sand, 10% fines; moist due to water injection, (45,45,10)										1000	
235	@ 235' - increase in fine to coarse gravel size to maximum 1" diameter										1020	
240												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329 50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651 87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 9 **OF** 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	GRAVELLY SAND/SANDY GRAVEL (GW-SW) angular to subangular gravel, (45,45,10)										1040	From 240' - 255', rate of drilling is approximately 0 88 ft/min
245											1045	
250	Well-Graded SAND with GRAVEL and SILT (SW-GW) olive brown [2 5Y 4/4], 35% fine gravel (angular to subangular, <0 5" diameter), 55% well-graded fine- to coarse-grained sand, 10% fines, moist due to water injection, (35,55,10)										1050	
255											1057	
260											1115	From 260' - 275', rate of drilling is approximately 0 65 ft/min
265	@ 265' - increase in fine gravel to 40%, 50% well-graded fine- to coarse-grained sand, 10% fines, (40,50,10)										1120	
270												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329 50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651 87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 10 **OF** 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded SAND with GRAVEL and SILT (SW-GW) angular to subangular gravel, (40,50,10)										1130	
275											1138	
280	@ 280' - decrease in fine gravel to 25%, 65% well-graded fine- to coarse-grained sand, 10% fines, (25,65,10)										1155	From 280' - 295', rate of drilling is approximately 0 75 ft/min
285	SILTY SAND (SM) olive brown [2 5Y 4/4], 10% fine gravel (angular to subangular), 65% well-graded fine- to coarse-grained sand, 25% fines, no staining, no unusual odor, (10,65,25)										1200	
290											1205	
295											1215	
300												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329 50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651 87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-2**		**SHEET 11 OF 22**
START DRILL DATE	Jun 3, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jun 29, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1639 36 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SM) olive brown [2 5Y 4/4], 15% fine gravel, 60% well-graded coarse- to fine-grained sand, 25% fines, moist due to water injection, (15,60,25)										1330	
305											1334	
310	@ 310' - increase in gravel size (well-graded fine to coarse gravels)										1338	
315											1343	
320	@ 320' - angular to subangular gravel										1347	
325											1410	From 325' - 335', rate of drilling is approximately 0 33 ft/min
330												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878329 50
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6738651 87
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	NAD-83 Zone 5
DIAMETER	13 3/8", 11 3/4", 10 5/8", 8 5"		
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 12 **OF** 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA.**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND/SANDY SILT (SM-ML) olive brown [2 5Y 4/4], 5% fine gravel, 55% well-graded fine- to coarse-grained sand, 40% fines, (5,55,40)										1420	
335	Well-Graded GRAVEL with SAND (GW-SW) olive brown [2 5Y 4/4], 60% well-graded fine to coarse gravel (subangular to angular, <0 75" diameter), 20% medium- to coarse-grained sand, 10% fines, (60,20,10)										1430	
340	SILTY SAND/SANDY SILT (SM-ML) olive brown [2 5Y 4/4], 5% fine gravel, 50% well-graded coarse- to medium-grained sand, 45% fines, moist due to water injection, no staining, no unusual odors, (5,50,45)										1452	From 340' - 355', rate of drilling is approximately 0 65 ft/min
345											1457	
350	SILTY SAND (SM) olive brown [2 5Y 4/4], 5% fine gravel, 60% well-graded coarse- to fine-grained sand, 35% fines, moist due to water injection, (5,60,35)										1505	
355											1515	
360												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329 50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651 87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-2**		**SHEET 13 OF 22**
START DRILL DATE	Jun 3, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jun 29, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1639 36 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) angular to subangular gravel, (5,60,35)										1530	From 360' - 375', rate of drilling is approximately 0 83 ft/min
365											1535	@ 365', stopped injecting water into borehole
370	SILTY SAND/SANDY SILT (SM-ML) olive brown [2 5Y 4/4], 5% fine gravel, 50% well-graded fine- to medium-grained sand, 45% fines, damp due to water injection, (5,50,45)										1542	
375											1548	
380	@ 380' - 20% fine gravel (angular to subangular), 40% well-graded fine- to coarse-grained sand, 40% fines, damp no staining, no unusual odors, (20,40,40)										1600	From 380' - 395', rate of drilling is approximately 1 0 ft/min
385											1605	
390												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1878329 50
EASTING 6738651 87
COORDINATE SYSTEM NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2
START DRILL DATE Jun 3, 04
FINISH DRILL DATE Jun 29, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1639 36 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND/SANDY SILT (SM-ML) angular to subangular gravel, (20,40,40)										1610	
395											1615	
400	SANDY SILT with CLAY (ML-CL) dark yellowish brown [10YR 4/6], 5% fine gravel, 20% poorly graded fine-grained sand, 75% fines, very moist, medium plasticity, no staining, no unusual odors, (5,20,75)										1646	From 400' - 415', rate of drilling is approximately 1 25 ft/min
405											1650	
410	CLAYEY SAND/SILTY SAND (SC-SM) dark yellowish brown [10YR 4/6], 5% fine gravel, 55% well-graded fine- to coarse-grained sands, 40% fines, damp, no plasticity, no staining, no unusual odors, (5,55,40)										1655	
415	@ 415' - increase in coarse-grained sand, (5,55,40)										1658	
											0710	
420												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1878329 50
EASTING 6738651 87
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-2**		**SHEET 15 OF 22**
START DRILL DATE	Jun 3, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jun 29, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1639.36 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	CLAYEY SAND/SILTY SAND (SC-SM): damp; (5,55,40)						X				0720	
425							X				0723	
430	SANDY SILT with CLAY (ML-CL): light olive brown [2.5Y 5/4]; trace fine gravel; 25% well-graded very fine- to coarse-grained sand; 75% fines; damp; medium plasticity (tr,25,75)						X				0727	
435	SILTY SAND/SANDY SILT (SM-ML): light olive brown [2.5Y 5/4]; trace fine gravel; 55% well-graded very fine- to coarse-grained sand; 45% fines; lenses of very fine-grained sand and fine gravel; damp; (tr,55,45)						X				0735	From 437' - 470', open borehole drilling with a 10 5/8-inch diameter drill bit beginning at 0750 on 11 June 2004.
440	@ 440' - increase in coarse-grained sand; angular to subangular gravel; (tr,55,45)						X				0752	
445	@ 445' - decrease in coarse-grained sand; becomes very moist; (tr,55,45)						X				0754	
450												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878329.50
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6738651.87
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 10 5/8", 8.5"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P.G.

NOTES:

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 16 **OF** 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639.36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND/SANDY SILT (SM-ML): poorly graded very fine- to medium-grained sand; dry; (tr,55,45)			Temporary well PW-2-T01-468 screened from 458' - 468'. Static water level measured at 462.5'.							0835	
455	@ 455' - increase in medium-grained sand; becomes moist; (tr,55,45)										0838	
460	@ 460' - well-graded fine- to coarse-grained sand; moist; (tr,55,45)				PW-2-T01-468 (Groundwater Sample)						0842	
465	CLAYEY SAND (SC): dark yellowish brown [10YR 4/6]; 60% poorly graded very fine- to fine-grained sand (angular to subangular); 40% fines; very moist; (tr,60,40)			∇ @ 465', encountered first groundwater NOTE: TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-2							1026	
470	@ 470' - 75% well-graded fine- to medium-grained sand; 25% fines; moist; (tr,75,25)										1030	
475												@ 475', no recovery for logging.
480												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329.50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651.87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8.5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P.G.

NOTES:

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

GEOSYNTEC CONSULTANTS
200 E. Del Mar Boulevard Suite 250
Pasadena, California 91105
Tel: (626) 449-0664 Fax: (626) 449-0411

GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-2
START DRILL DATE Jun 3, 04
FINISH DRILL DATE Jun 29, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1639.36 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded SAND with GRAVEL and SILT (SW-SM): light olive brown [2.5Y 5/4]; 25% fine gravel; 60% fine- to coarse-grained sand; 15% fines; damp; (25,60,15)										1338	
485	CLAY with SAND and GRAVEL (CL-SC): olive brown [2.5Y 4/4]; 20% fine gravel; 20% medium- to coarse-grained sand; 60% fines; lenses of very fine-grained sand and fines; very moist; medium plasticity; slow dilatancy; (20,20,60)			Temporary well PW-2-T02-496 screened from 491' - 496'. Static water level measured at 462.5'.							1405	
490	@ 490' - increase in coarse-grained sand to 30%; decrease in fines to 50%; 20% fine gravel; very moist; (20,30,50)										1420	
	CLAYEY GRAVEL (GW-CL): olive brown [2.5Y 4/4]; 60% fine to coarse gravel (angular to subangular, <1" diameter); 10% well-graded medium- to coarse-grained sand; 30% fines, wet; (60,10,30)			@ 492', encountered groundwater	PW-2-T02-496 (Groundwater Sample)						1600	heaving gravels, no soil sample collected.
495	@ 495' - color change to light olive brown [2.5Y 5/6]; increase in gravel size to <1.25" diameter			NOTE: TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-2							1615	
	GRAVELLY CLAY (CL-GW): light olive brown [2.5Y 5/6]; 30% fine to coarse gravel; 10% well-graded fine- to coarse-grained sand; 70% fines; wet; (30,10,70)										1620	
500	@ 500' - increase in gravel size to <1" diameter										0802	
505	SANDY CLAY (CL): yellowish brown [10YR 5/6]; 5% fine gravel; 10% well-graded fine- to coarse-grained sand; 85% clay; wet; medium dilatancy; (5,10,85)										0812	
510												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8.5"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P.G.

NORTHING 1878329.50
EASTING 6738651.87
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2 **SHEET** 18 **OF** 22
START DRILL DATE Jun 3, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jun 29, 04 **GROUND SURF** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1639 36 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	CLAYEY SAND (SC) yellowish brown [10YR 5/6], 15% fine gravel (angular to subangular, <1" diameter) 70% well-graded medium- to coarse-grained sand, 15% fines wet, (15,70,15)			Temporary well PW-2-T03-520 screened from 515' - 520' Static water level measured at 498 79'							0840	
515	@ 515' - color change to dark yellowish brown [10YR 4/6], trace fine gravel, 85% poorly graded fine- to medium-grained sand (angular to subangular) 15% fines, wet (tr 85,15)										0845	
					PW-2 T03-520 (Groundwater Sample)							
520	@ 520' - color change to light olive brown [2 5Y 5/4], 10% fine gravel (angular to subangular), 75% well-graded medium- to coarse-grained sand (angular to subangular), 15% fines, iron oxide staining, wet, (10 75,15)			NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-2	PW-2 T03-522 5-GT (Soil Sample)			5-26-38				From 521' - 522 5' collected drive soil samples PW-2-522-GT & PW-2-T03-522 5 using a 325-lb hammer
525	SILTY SAND (SM-ML) light olive brown [2 5YR 5/4], trace gravel (angular to subangular), 65% sand (30% fine grained, angular to subangular sand), 35% fines, wet, (tr 65 35)										0710	
530	@ 530' - increase in gravel to <5%											
535	@ 535' - little to no gravel, interbedded lenses of clay and sand										0820	
540												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878329 50
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6738651 87
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8" 11 3/4", 10 5/8", 8 5" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES.

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-2
START DRILL DATE Jun 3, 04
FINISH DRILL DATE Jun 29, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1639.36 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM-ML): 70% poorly graded sand (>50% fine-grained, rounded to subangular); 30% fines; (0,70,30)											
545	SILT (ML): yellowish brown [10YR 5/6]; 5% sand; 95% fines; (0,5,95)											
550	@ 550' - increase in silt; (0,tr,100)					PW-2-552-GT (Soil Sample)						@ 522', free water in borehole.
555	SILTY SAND with GRAVEL (SM): yellowish brown [10 YR 5/4]; 15% fine gravel; 70% well-graded fine- to coarse-grained sand; 15% fines; medium dilatancy; wet; (15,70,15)										1357	From 557' - 567', rate of drilling is approximately 0.11 ft/min.
560	SANDY CLAY with GRAVEL (CL-SC): dark yellowish brown [10YR 4/4]; 10% fine gravel, 35% well-graded medium- to coarse-grained sands (angular and subangular); 55% fines; medium dilatancy; wet due to water injection into borehole; (10,35,55)										1420	@ 562', injecting water into borehole.
565											1515	
570												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8.5"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P.G.

NORTHING 1878329.50
EASTING 6738651.87
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-2**		**SHEET 20 OF 22**
START DRILL DATE	Jun 3, 04	**ELEVATION DATA.**	
FINISH DRILL DATE	Jun 29, 04	**GROUND SURF**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1639 36 ft
PROJECT	160-Acre Parcel, Rialto CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG / WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO / TYPE / BLOWS PER 6" / RECOVERY (%) / PID READING (ppm) / TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY CLAY with GRAVEL (CL SC) wet (10 35 55)				1530	@ 570' borehole producing abundant water
			Temporary well PW 2 T04-587 screened from 577' - 587' Static water level measured at 572 22'		0925	
575	SANDY SILT with CLAY (ML) yellowish brown [10YR 4/6], trace fine gravel, 15% poorly graded medium- to coarse-grained sand, 85% fines, dry lense, (tr,15,85) @ 576' - wet @ 577' - sand grain size decreases to poorly graded medium to fine-grained sand				0935 0955	From 575' - 576 , borehole not producing water (dry lens)
580	@ 580' - color change to olive brown [2 5YR 4/4], 5% fine gravel 25% well graded medium- to coarse grained sand, 70% fines wet (5 25 70)		@ 580', encountered groundwater	PW-2 T04-587 (Groundwater Sample)	1020	@ 580' borehole producing abundant water
585	CLAYEY SAND/SILTY SAND (SC SM) olive brown [2 5YR 4/6] 5% fine gravel, 55% poorly graded fine- to medium grained sand 40% fines, wet (5 55 40)		NOTE TEMPORARY WELL SHOWN PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-2	PW 2 T04-589-GT (Soil Sample)	1030 21-37-56 / 100	@ 587' bottom of 11 3/4" diameter steel drive casing Begin telescoping 9 5/8" diameter steel drive casing
590	@ 590' - increase in grain size to well-graded medium to coarse-grained sand, (5 55,40) @ 591' - SILTY SAND (SM) olive brown [2 5YR 4/4], trace gravel, 80% well-graded fine- to coarse-grained sand, 20% fines wet (tr 80,20)				1035 0810	From 588' - 589 5', drive soil sample PW 2 T04-589 GT collected using a 325 lb hammer @ 590', borehole producing less water From 591 - 594', borehole producing abundant water
595	CLAYEY SAND/SILTY SAND (SC-SM) olive brown [2 5Y 4/4] 0% gravel, 60% well graded fine- to medium grained sand, 40% fines dry				0825	
600						

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878329 50
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6738651 87
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM**	
DIAMETER	13 3/8", 11 3/4", 10 5/8", 8 5"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-2**		**SHEET 21 OF 22**
START DRILL DATE	Jun 3, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jun 29, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1639 36 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded SAND with SILT (SW) olive brown [2 5Y 4/4], 0% gravel, 90% well-graded fine- to medium-grained sand (angular to subrounded), 10% fines, moist, (0,90,10)										0955	
605	Well-Graded SAND with GRAVEL and SILT (SW-GW) olive brown [2 5Y 4/4], 25% fine to coarse gravel (subangular, <0 75" diameter), 65% well-graded fine- to coarse-grained sand (angular to subrounded), 10% fines, moist, (25,65,10)										1010	
610	@ 610' - damp to moist										1020	
615	@ 615' - gravel diameter increases to <1 0"										1030	
620											1047	
625	@ 625' - increasing gravels										1100	
630												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878329 50
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6738651 87
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 10 5/8", 8 5"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-2
START DRILL DATE Jun 3, 04
FINISH DRILL DATE Jun 29, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1639 36 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded SAND with GRAVEL and SILT (SW-GW) 40% well-graded fine to coarse gravel, 50% well graded medium- to coarse-grained sand, 10% fines, wet, (40,50,10)			@ 630' encountered groundwater							1110	@ 630', borehole producing abundant water
635	@ 635' - 25% fine to coarse gravel, 65% well-graded fine- to coarse-grained sand, 10% fines, moist, (25,65,10)			Temporary well PW-2-T05-640 screened from 635' - 640' Static water level measured at 621 49'							1117	
	@ 637' - trace clay										1120	
						PW-2-T05-640 (Groundwater Sample)						
640				NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-2								
						PW-2-T05-643 5 (Soil Sample)		17-12-26	66			From 642' - 643 5', drive soil sample PW-2-T05-643 5 collected using a 325-lb hammer
645												@ 642', bottom of 9 5/8" diameter steel drive casing Open borehole diameter 8 5" from 642' to total depth
	Boring terminated at a depth of 644' Borehole caved up to 642 5' Permanent well PW-2 was subsequently installed Refer to well construction diagram for permanent well PW-2											
650												
655												
660												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 10 5/8", 8 5"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1878329 50
EASTING 6738651 87
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-3**		**SHEET 1 OF 22**
START DRILL DATE	Jul 8, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jul 26, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1611 81 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6'	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	ARTIFICIAL FILL Asphalt Surface, 2 5" thick											Borehole telescoping diameters and approximate depths 13 3/8" diameter steel casing (0' - 199'), 11 3/4" diameter steel casing (199' - 500') 9 5/8" diameter steel casing (500' - 627'), 8 5" diameter open borehole to (627' - 629')
5	SANDY GRAVEL (GW) olive brown [2 5Y 4/4], 50% well-graded fine to coarse gravel, 20% cobbles (up to 8" diameter), 30% well graded fine- to coarse-grained sand, trace fines, dry, medium dense, (70,30,tr)										0845	Air knifing from 0' - 8' Grab sample collected every 5' unless otherwise noted From 0' - 17', rate of drilling is approximately 0 49 ft/min
10	@ 10' - becomes moist due to water injection, gravel sizes <1 5" diameter (angular to subrounded)										1035	Water injection into borehole
15	SANDY GRAVEL/GRAVELLY SAND (GW) olive brown [2 5Y 4/3], 40% fine to coarse gravel, 50% well-graded fine- to coarse-grained sand, 10% fines, (40,50,10)										1100	Very slow drilling due to large cobbles/boulders From 17' - 37', rate of drilling is approximately 1 33 ft/min
20	@ 20' - very large cobbles/boulders										1122	
25											1125	
30												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1877913 40
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740260 99
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM**	NAD-83 Zone 5
DIAMETER	13 3/8", 11 3/4", 9 5/8"		
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3 **SHEET** 2 **OF** 22
START DRILL DATE Jul 8, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jul 26, 04 **GROUND SURF** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1611 81 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY GRAVEL/GRAVELLY SAND (GW) cobble fragments, (40,50,10)										1127	
35											1130	
												From 37' - 57', rate of drilling is approximately 1 0 ft/min
40											1147	
45	@ 45' - moist due to water injection										1150	
50											1155	
55	@ 55' - slight increase in gravels, (45,45,10)										1200	
												From 57' - 77', rate of drilling is approximately 0 51 ft/min
60												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1877913 40
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740260 99
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM.**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3
START DRILL DATE Jul 8, 04
FINISH DRILL DATE Jul 26, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF NA ft
TOP OF CASING 1611 81 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY GRAVEL/GRAVELLY SAND (GW) very large cobbles/boulders, (45,45,10)										1325	
65	@ 65' very large cobbles/boulders										1335	
70											1340	
75											1349	
												From 77' - 97', rate of drilling is approximately 0 57 ft/min
80	@ 80' - angular and subangular gravel <1" diameter										1420	
85											1430	
	@ 87' - very large cobbles/boulders										1435	
90												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1877913 40
EASTING 6740260 99
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3 **SHEET** 4 OF 22
START DRILL DATE Jul 8, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jul 26, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1611 81 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SILTY SANDY (GW-SM) olive brown [2 5Y 4/3], 50% fine to coarse gravel (angular to subangular, <1 5" diameter), 25% well-graded fine- to coarse-grained sand, 15% fines, moist due to water injection, large cobbles/boulders, (50,25,15)										1440	
95											1445	From 97' - 117', rate of drilling is approximately 1 5 ft/min
100	SILTY SAND with GRAVEL (SM-GW) olive brown [2 5Y 4/3], 35% well-graded fine to coarse gravel (angular to subangular, <1" diameter) 45% fine- to medium-grained sand (angular to subangular), 20% fines moist due to water injection, (35,45,20)										1505	
105	@ 105' - sand becomes well-graded fine- to medium-grained sand, (35,45,20)										1507	
110											1511	
115											1516	From 117' - 127', rate of drilling is approximately 1 33 ft/min
120												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1877913 40
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740260 99
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3
START DRILL DATE Jul 8 04
FINISH DRILL DATE Jul 26, 04
LOCATION Rialto CA
PROJECT 160-Acre Parcel Rialto, CA
NUMBER HA0816

ELEVATION DATA.
GROUND SURF NA ft
TOP OF CASING 1611 81 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6'	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well Graded GRAVEL with SILTY SANDY (GW SM) olive brown [2 5YR 4/3], 60% well graded fine to coarse gravel (angular to subrounded, <1 25" diameter), 20% medium- to coarse grained sand, 20% fines, moist due to water injection, no unusual odors or stains (60 20 20)										1535	
125											1538	
												From 127 - 157', rate of drilling is approximately 1 67 ft/min
130											1541	
135											1545	
140	Well Graded GRAVEL with CLAY and SAND (GW SC) olive brown [2 5Y 4/4], 45% well graded fine and coarse gravel 25% well-graded fine- to coarse grained sand 30% fines, wet due to water injection, no unusual odors (45 25 30)										1615	@ 140, continue injecting water into the borehole to remove cuttings
145											1617	
150												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer P G

NORTHING 1877913 40
EASTING 6740260 99
COORDINATE SYSTEM NAD-83 Zone 5

NOTES.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

GEOSYNTEC CONSULTANTS
200 E Del Mar Boulevard Suite 250
Pasadena, California 91105
Tel (626) 449-0664 Fax (626) 449-0411

GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3
START DRILL DATE Jul 8, 04
FINISH DRILL DATE Jul 26, 04
LOCATION Rialto CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA
GROUND SURF NA ft
TOP OF CASING 1611 81 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well Graded GRAVEL with CLAY and SAND (GW SC) slight increase in gravel, (45 25 30)										1620	
155											1622	
160											1628	@ 160', continue injecting water into the borehole to remove soil cuttings
165	@ 165' wet due to water injection										0712	
170											0715	
175	@ 175' - well-graded fine to coarse gravel (45 25 30)										0721	
180												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8" 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1877913 40
EASTING 6740260 99
COORDINATE SYSTEM. NAD-83 Zone 5

NOTES

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-3**		**SHEET 7 OF 22**
START DRILL DATE	Jul 8 04	**ELEVATION DATA**	
FINISH DRILL DATE	Jul 26 04	**GROUND SURF**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1611 81 ft
PROJECT	160-Acre Parcel Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION 1) Lithology 5) Content (%) 2) Color 6) Plasticity 3) Moisture 7) Hardness 4) Grain Size 8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS 1) Rig 2) Odor 3) Air Monitoring
	Well Graded GRAVEL with CLAY and SAND (GW SC) moist due to water injection (45 25 30)										0730	
185	@ 185' large cobbles/boulders										0740	From 185 199 difficult drilling due to large cobbles/boulders
190											0750	
195	@ 195 cobble fragments										0803	
200											1021	@ 199 bottom of 13 3/8" diameter steel drive casing Begin telescoping 11 3/8" diameter steel drive casing
205	Well Graded GRAVEL with CLAYEY SAND (GW SC) light olive brown [2 5Y 5/4] 30% fine gravel 50% well graded fine to coarse grained sand (angular to subangular) 20% fines moist due to water injection no unusual odors (30 50,20)										1025	
210												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1877913 40
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740260 99
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM.**	
DIAMETER	13 3/8" 11 3/4" 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer P G

NOTES

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3 **SHEET** 8 OF 22
START DRILL DATE Jul 8, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jul 26, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1611 81 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) olive brown [2 5Y 4/4], 70% well graded very fine- to coarse-grained sand (angular to subangular), 30% fines, damp due to water injection, no unusual odors (tr,70,30)										1039	
215											1047	
220											1057	
225	@ 225' - decrease in fine-grained sand, (tr,70 30)										1101	
230											1104	
	@ 232' - increase in fine gravel to 20%, (20,50 30)											From 232' - 245', difficult drilling due to large cobbles/boulders
235	SILTY SAND with GRAVEL (SM-GW) olive brown [2 5Y 4/4], 25% fine to coarse gravel (<0 5" diameter), 45% well-graded very fine- to coarse-grained sand, 30% fines, damp due to water infection, (25,45,30)										1110	
240												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1877913 40
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740260 99
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3
START DRILL DATE Jul 8, 04
FINISH DRILL DATE Jul 26, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1611 81 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SM-GW) increase in gravel to 35%, decrease in gravel size (<0 25" diameter), (35,35,30)										1131	From 240' - 255', rate of drilling is approximately 1 7 ft/min
245											1132	
250	@ 250' - color change to dark yellowish brown [10YR 4/6], decrease in gravel to 25%, increase in very fine-grained sand, (25,45,30)										1136	
255	@ 255' - slightly plastic fines, gravel (subangular to angular), (25,45,30)										1140	From 255' - 259', difficult drilling due to large cobbles/boulders From 257' - 277', rate of drilling is approximately 1 18 ft/min
260	SILTY SAND (SM) light olive brown [2 5Y 5/4], trace fine gravel, 85% well-graded very fine- to coarse-grained sand (angular to subrounded), 15% fines, dry, no unusual odors, (tr,85,15)										1300	
265											1302	
270												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1877913 40
EASTING 6740260 99
COORDINATE SYSTEM. NAD-83 Zone 5

NOTES

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	PW-3		**SHEET** 10 **OF** 22
START DRILL DATE	Jul 8, 04	**ELEVATION DATA.**	
FINISH DRILL DATE	Jul 26, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1611 81 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) angular to subrounded sand, (tr 85,15)										1305	
	@ 272' - sand becomes poorly-graded, (0,85,15)											From 273' - 275', difficult drilling due to large cobbles/boulders
275											1310	
	@ 276' - sand becomes well-graded, (0,85 15)											From 277' - 297', rate of drilling is approximately 1 18 ft/min
280											1342	
285											1345	
290	@ 290' - increase in coarse-grained sand, (0,85,15)										1348	
295	@ 295' - increase in graves to 10%, (10,80,10)										1352	
	Poorly Graded SAND (SP) light olive brown [2 5Y 5/4], 95% very fine- to fine-grained sand, 5% fines, dry, (0 95,5)										1405	From 297' - 317', rate of drilling is approximately 1 05 ft/min
300												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1877913 40
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740260 99
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM.**	NAD-83 Zone 5
DIAMETER	13 3/8", 11 3/4", 9 5/8"		
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-3**		**SHEET 11 OF 22**
START DRILL DATE	Jul 8, 04	**ELEVATION DATA.**	
FINISH DRILL DATE	Jul 26, 04	**GROUND SURF.** NA ft	
LOCATION	Rialto, CA	***TOP OF CASING*** *1611 81 ft*	
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION 1) Lithology 5) Content (%) 2) Color 6) Plasticity 3) Moisture 7) Hardness 4) Grain Size 8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS 1) Rig 2) Odor 3) Air Monitoring
	Poorly Graded SAND (SP) very fine- to fine-grained sand, (0,95,5) Well-Graded SAND (SW) light olive brown [2 5Y 5/4], 95% fine- to medium-grained sand, 5% fines, dry, (0,95,5)											
305											1411	
310											1414	
315											1420	
	SILTY SAND (SM) light olive brown [2 5Y 5/4], 70% poorly graded very fine-grained sand, 30% fines, damp due to water injection, (0,70,30)											From 317' - 337', rate of drilling is approximately 0 8 ft/min
320											1437	
325	SILTY SAND (SM) olive brown [2 5Y 4/4], 80% well graded fine- to medium-grained sand, 20% fines, damp due to water injection, (0,80,20)										1443	
330												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1877913 40
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740260 99
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM.**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3
START DRILL DATE Jul 8, 04
FINISH DRILL DATE Jul 26, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1611 81 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	CLAYEY SAND with GRAVEL (SW-GC) light olive brown [2 5Y 5/4], 35% fine to coarse gravel (subangular to subrounded, <0 75" diameter), 35% medium- to coarse-grained sand, 30% fines, damp due to water injection, (35,35,30) @ 332' - SILTY SAND (SM) olive brown [2 5Y 5/4], trace fine gravel, 65% well graded fine- to coarse-grained sand, 35% fines, damp, (tr,65,35)										1450	
											1453	
335											1458	
	SILTY SAND/SANDY SILT (SM-ML) light olive brown [2 5Y 5/4], 50% poorly graded very fine-grained sand, 50 % fines, damp, (0,50,50)										1510	
340											1513	
345	@ 345' - increase in sand grain size to fine sand, (0,55,45)										1516	
350	@ 350' - increase in sand grain size to well graded fine- to medium-grained, (0,55,45)										1520	
355	@ 355' - 60% poorly graded very fine- to fine-grained sand, 40% fines, damp due to water injection, (0,60,40)										1528	From 355' - 357', rate of drilling is approximately 1 11 ft/min From 357' - 377', rate of drilling is approximately 1 33 ft/min
360												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1877913 40
EASTING 6740260 99
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-3
START DRILL DATE Jul 8, 04
FINISH DRILL DATE Jul 26, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1611.81 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND/SANDY SILT (SM-ML): subangular to subrounded sand; (0,60,40)						X				1550	
365	@ 365' - color change to yellowish brown [10YR 5/6]; increase in sand grain size to well-graded very fine- to medium-grained sand; (0,60,40)						X				1554	
370	@ 370' - color change to dark yellowish brown [10YR 4/6]						X				1557	
375	SILTY SAND (SM): light olive brown [2.5Y 5/4]; 70% well-graded fine- to medium-grained sand; 30% fines; damp due to water injection; (0,70,30)						X				1600	From 377' - 397', rate of drilling is approximately 1.11 ft/min.
380							X				1614	
385	@ 385' - trace coarse-grained sand						X				1616	
390												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P.G.

NORTHING 1877913.40
EASTING 6740260.99
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3 **SHEET** 14 **OF** 22
START DRILL DATE Jul 8, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jul 26, 04 **GROUND SURF** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1611 81 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) 70% well-graded fine- to coarse grained sand, 30% fines, (0,70,30)										1619	
395	@ 395' - color changes to olive brown [2 5Y 4/4]										1630	@ 397', terminated water injection into borehole
400	@ 400' - damp										1643	
	@ 401' to 403' - poorly graded very fine- to fine-grained sand, (0,70,30)											
405	@ 405' - 70% well-graded fine- to coarse-grained sand 30% fines, damp, (0,70,30)										1646	
410	@ 410' - 70% poorly graded fine- to medium-grained sand, 30% fines, damp, (0,70,30)										1649	
415											1652	From 417' - 427', open borehole drilling, no water in open borehole
420												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1877913 40
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740260 99
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3 **SHEET** 15 **OF** 22
START DRILL DATE Jul 8, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jul 26, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1611 81 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	CLAYEY SAND (SC) light olive brown [2 5Y 5/4], 70% poorly graded fine-grained sand (angular to subangular grains), 30% fines, moist, no plasticity, (0,70,30)										1702	
425	SILTY SAND (SM) light olive brown [2 5Y 5/4], 70% well graded fine- to medium-grained sand (angular to subangular), 30% fines, damp, (0,70,30)										1706	@ 427', no free water observed
430	@ 430' - color change to olive brown [2 5Y 4/4], poorly graded fine-grained sand (angular to subangular), 30% fines, damp, (0,70,30)										0826	
435	@ 435' - color change to light olive brown [2 5Y 5/4], 5% fine gravel (angular to subangular, <0 2" diameter), 65% well-graded fine- to coarse-grained sand, 30% fines, dry, no unusual odors, (5,65,30)									2 7	0839	From 437' - 447', rate of drilling is approximately 1 25 ft/min
440	@ 440' - color change to olive brown [2 5Y 4/4], no gravel, decrease in fines to 15%, 85% well-graded fine- to coarse-grained sand, dry, (0,85,15)										0932	
445										3 4	0934	From 447' - 457', rate of drilling is approximately 1 17 ft/min
450												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1877913 40
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740260 99
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3 **SHEET** 16 OF 22
START DRILL DATE Jul 8, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jul 26, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1611 81 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) damp (0,85,15)										0948	
455	@ 455' - 5% fine gravel (angular to subangular, <0 2" diameter), (5,80,15)										0955	
	@ 457' - decrease in gravel to trace, 85% well-graded fine- to coarse-grained sand, 15% fines, damp, (tr 85,15)			@ 458', encountered first groundwater							1015	From 457' - 467', open borehole drilling, water injected to stabilize borehole
460	@ 458' - Well-Graded GRAVEL with SILT (GW) olive brown [2 5Y 4/4], 80% well-graded gravel (angular to subangular, <2"diameter), 20% fines, wet, (80,0,20)			Temporary well PW-3-T01-466 screened from 461' - 466' Static water level measured at 450 71'	PW-3-T01-466 (Groundwater Sample)						1020	
465				NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-3							1025	
	SILTY SAND (SM) light olive brown [2 5Y 5/6], trace fine gravel (angular to subangular) 85% well-graded fine- to coarse grained sand (angular to subangular), 15% fines, wet, (tr,85,15)					PW 3-T01-468 5 (Soil Sampling)		12-19-31	70%		1035	From 467' - 468 5', drive soil sample PW-3-T01-468 5 collected using a 325-lb hammer
470											0759	From 467' - 477', rate of drilling is approximately 0 83 ft/min From 467' - 510', borehole producing abundant water
475	CLAYEY SAND with GRAVEL (SC) light yellowish brown (2 5Y 6/4), 25% fine to coarse gravel (angular to subangular, <1 5" diameter), 40% poorly graded fine- to medium-grained sand, 35% fines, wet, no unusual odors, (25,40,35)										0804	From 477' - 487', producing lots of water; rate of drilling is approximately 0 43 ft/min
480												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1877913 40
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740260 99
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

GEOSYNTEC CONSULTANTS
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Pasadena, California 91105
Tel: (626) 449-0664 Fax: (626) 449-0411

GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-3**		**SHEET 17 OF 22**
START DRILL DATE	Jul 8, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jul 26, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1611.81 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY CLAY with GRAVEL (CL): light yellowish brown [2.5Y 6/4]; 10% fine gravel (angular to subangular, <0.5" diameter); 20% poorly graded fine- to medium-grained sand; 70% fines; slow dilatancy; wet; (10,20,70)										0830	
485											0841	From 487' - 497', rate of drilling is approximately 0 43 ft/min.
490	SANDY SILT with CLAY (ML-CL): light yellowish brown (2.5Y 6/4); 10% fine gravel; 25% well-graded medium- to coarse-grained sand; 65% fines (10% clay, 55% silt); wet; (10,25,65)										0915	
495				*Temporary well* PW-3-T02-505 screened from 500' - 505'. Static water level measured at 458.00'.							0923	
500	SILTY SAND with GRAVEL (SM): olive brown (2.5Y 4/4); 20% fine gravel (angular to subangular, <0.25" diameter); 50% well-graded medium- to coarse-grained sand (angular to subangular); 30% fines; wet; (20,50,30)				PW-3-T02-505 (Groundwater Sample)						0955	@ 500', bottom of 11 3/4" diameter steel drive casing. Begin telescoping 10 5/8" diameter steel drive casing.
505				NOTE: TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-3							0957	
510												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1877913.40
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740260.99
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P.G.

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-3**		**SHEET 18 OF 22**
START DRILL DATE	Jul 8, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jul 26, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1611 81 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SM) angular to subangular gravel, (20,50,30)										1008	@ 513', little to no free water observed
515	CLAYEY SAND/SANDY CLAY (SC-CL) light olive brown [2 5Y 5/4], 15% fine gravel, 45% well-graded fine- to coarse-grained sand, 40% fines, wet, (15,45,40)										1022	
520	@ 520' - 5% gravel, 60% well-graded fine- to coarse-grained sand, 35% fines, wet, (5 60,35)										1055	
525	CLAYEY SAND (SC) olive brown [2 5Y 4/4], 80% well-graded fine- to medium-grained sand, 20% fines, moist, (0 80,20)										1100	
530	Poorly Graded SAND (SP) light olive brown [2 5Y 5/4], 95% fine-grained sand, 5% fines, damp, (0,95,5)										1103	
535	Well Graded SAND (SW) olive brown [2 5Y 4/4], 95% well-graded fine- to coarse-grained sand, 5% fines, damp, (0,95,5)										1105	
540												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1877913 40
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740260 99
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	NAD-83 Zone 5
DIAMETER	13 3/8", 11 3/4", 9 5/8"		
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-3 **SHEET** 19 **OF** 22
START DRILL DATE Jul 8, 04 **ELEVATION DATA:**
FINISH DRILL DATE Jul 26, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1611.81 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	CLAYEY SAND/SANDY CLAY (SC-CL): light olive brown [2.5Y 5/4]; 55% well-graded fine- to coarse-grained sand; 45% fines; wet; (0,55,45)			@ 540', encountered groundwater Temporary well PW-3-T03-545 screened from 540' - 545'. Static water level measured at 512.50'.							1115	
					PW-3-T03-545 (Groundwater Sample)							
545	@ 545' - 15% fine gravels (angular to subangular, <0.2" diameter); 40% well-graded fine- to coarse-grained sand; 45% fines; wet (15,40,45)			NOTE: TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-3							1120	
	CLAYEY SILT (ML): yellowish brown [10YR 5/6]; *no plasticity; dry; firm; mostly silt*				PW-3-T03-548-GT (Soil Sample)				100			From 547' - 548.5', drive soil sample PW-3-T03-545 collected using a 325-lb hammer. @ 548', no free water observed.
550											0940	
555	SILTY SAND (SM): olive brown [2.5Y 4/3]; 10% fine gravels (angular to subangular); 65% well-graded fine- to coarse-grained *sand (angular to subangular); 25% fines;* moist; (10,65,25)										0950	
560	@ 560' - 5% fine gravel (angular to subangular); 80% well-graded fine- to *coarse-grained sand (angular to subangular);* 15% fines; damp; (5,80,15)										1011	
565	@ 565' - becomes dry										1017	
570												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1877913.40
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740260.99
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P.G.

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-3 **SHEET** 20 **OF** 22
START DRILL DATE Jul 8, 04 **ELEVATION DATA·**
FINISH DRILL DATE Jul 26, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1611 81 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) dry (5,80,15)										1030	
575				Temporary well PW-3-T04-585 screened from 580' - 585' Static water level measured at 564 65'							1040	
580	@ 580' - trace gravel 85% well graded fine- to medium-grained sand, 15% fines, very moist, (tr,85,15)				PW-3-T04-585 (Groundwater Sample)						1142	
585	Well-Graded SAND with GRAVEL (SW) light olive brown [2 5Y 5/4], 15% fine gravel, 85% well graded fine- to coarse-grained sand, trace fines, very moist, (15 85,tr)			NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-3							1151	Free water observed between 587' - 599'
590	SILTY SAND/SANDY SILT (SM-ML) light olive brown [2 5Y 5/4], 55% poorly graded fine-grained sand, 45% fines, wet, no plasticity, slow dilatancy, (0,55,45)											
595	@ 595' - trace gravel, 55% well graded very fine- to coarse-grained sand (angular to subangular), 45% fines, wet, (tr, 55,45)										1302	
600												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1877913 40
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740260 99
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-3**		**SHEET 21 OF 22**
START DRILL DATE	Jul 8, 04	**ELEVATION DATA.**	
FINISH DRILL DATE	Jul 26, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	***TOP OF CASING***	1611 81 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SM) olive brown [2 5Y 4/3], 15% well-graded fine to coarse gravel (subangular to subrounded, <1" diameter), 60% poorly graded medium to coarse sand 25% fines, moist, (15 60 25)										0755	
605	@ 605' - 15% fine gravel, 70% poorly graded medium- to coarse-grained sand, 15% fines, moist, no plasticity, (15,70,15)			Temporary well PW-3-T05-615 screened from 610' - 615' Static water level measured at 590 95'							0800	
610	@ 610' - 70% well-graded medium- to coarse-grained sand, very moist, (15,70,15)										0847	
					PW-3 T05-615 (Groundwater Sample)							From 613' - 616', very difficult hammering due to heaving sands
615				NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-3							0916	
				@ 619', encountered groundwater								
620	@ 620' - 20% fine to coarse gravel (angular to subangular, <2" diameter), 50% well graded fine- to medium-grained sand, 30% fines, wet, (20,50,30)										0936	
												@ 622', borehole producing lots of water water injected to clean out borehole
625											0930	
												@ 627' - bottom of 9 5/8" diameter steel drive casing 8 5" diameter open borehole to total depth
630												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G
NORTHING 1877913 40
EASTING 6740260 99
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES.

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING	PW-3		**SHEET** 22 **OF** 22
START DRILL DATE	Jul 8, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Jul 26, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1611.81 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION 1) Lithology 5) Content (%) 2) Color 6) Plasticity 3) Moisture 7) Hardness 4) Grain Size 8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS 1) Rig 2) Odor 3) Air Monitoring
	Boring terminated at a depth of 629'. Permanent monitoring well PW-3 and piezometer PW-3A was subsequently installed in the same borehole. Refer to well construction log for permanent well PW-3.											
635												
640												
645												
650												
655												
660												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1877913.40
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740260.99
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P.G.

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-4**		**SHEET 1 OF 22**
START DRILL DATE	Jul 23, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Aug 25, 04	**GROUND SURF**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1626 56 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	ARTIFICIAL FILL Asphalt Surface, 3" thick											Borehole telescoping diameters and approximate depths 13 3/8" diameter steel casing (0' - 199'), 11 3/4" diameter steel casing (199' - 499') 9 5/8" diameter steel casing (499' - 516'), 8 1/2" diameter open borehole (516' - 650') Air knifing from 0' - 7' Grab sample collected every 5' unless *otherwise noted*
5	Well-Graded GRAVEL with SAND (GW) olive brown [2 5Y 4/4], 50% well-graded fine and coarse gravel, 20% cobbles (<8" diameter), 30% well-graded fine- to coarse-grained sand, trace fines, dry, medium dense (70,30,tr)										1500	
10	@ 10' - color change to very dark grayish brown [2 5Y 3/2], wet due to water injection, subangular to subrounded gravel										1055	Water injected into borehole to assist in removing cuttings, no headspace reading due to continued water injection
15	@ 15' - gravel sizes <1 5" diameter										1330	
20											1215	
25	SANDY GRAVEL/GRAVELLY SAND (GW-SW) olive gray [5Y 4/2] 40% well-graded fine to coarse gravel (angular to subangular, <1 5" diameter), 40% well-graded fine- to coarse-grained sand, 20% fines, damp due to water injection, (40,40 20)										1219	
30												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878655 92
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740248 93
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4
START DRILL DATE Jul 23, 04
FINISH DRILL DATE Aug 25, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF NA ft
TOP OF CASING 1626 56 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY GRAVEL/GRAVELLY SAND (GW-SW) large cobbles/boulders, (40 40 20)										1228	
35											1240	
												From 38' - 41', difficult drilling due to large cobbles/boulders
40	@ 40' - color change to olive [5Y 4/3] wet due to water injection										1520	
45											0950	
50	SANDY GRAVEL with SILT (GW) olive gray [5Y 4/2], 55% well-graded fine to coarse gravel (angular to subrounded, <1 5" diameter), 30% well-graded medium- to coarse-grained sand 15% fines wet due to water injection, (55,30,15)										0952	
55											1003	
60												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer P G

NORTHING 1878655 92
EASTING 6740248 93
COORDINATE SYSTEM NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 3 **OF** 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA.**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626 56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY GRAVEL with SILT (GW) gravel size <1 5" diameter (55,30,15)										1006	
65	SILTY SAND with GRAVEL (SW-SM) olive [5Y 4/3], 35% fine and coarse gravel, 45% well-graded fine- to coarse-grained sand, 15% fines, moist due to water injection (35,45,15)										1125	
	@ 68' - large cobbles/boulders											From 68' - 105', very difficult drilling due to large cobbles/boulders
70	SANDY GRAVEL with SILT (GW) olive [5Y 4/3], 55% well-graded fine to coarse gravel (angular to subangular, <2" diameter), 30% well-graded medium- to coarse-grained sand (angular to subangular), 15% fines, wet due to water injection, (55,30,15)										1133	
75											1138	
80	@ 80' - large cobbles/boulders										1405	
85											1409	
90												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655 92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248 93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM.**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4
START DRILL DATE Jul 23, 04
FINISH DRILL DATE Aug 25, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1626 56 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY GRAVEL with SILT (GW) color change to light olive brown [2 5Y 5/3], (55,30,15)										1418	
95	SANDY GRAVEL/GRAVELLY SAND (GW-SW) light olive brown [2 5Y 5/3], 40% well-graded fine to coarse gravel (angular to subrounded, <2" diameter), 40% well-graded medium- to coarse-grained sand, 20% fines, wet due to water injection, (40,40,20)										1426	From 96' - 116', rate of drilling is approximately 0 91 ft/min
100	@ 100' - decrease in fine gravel to 35% (angular to subangular, <0 75" diameter), 50% well-graded medium- to coarse-grained sand, 15% fines, wet due to water injection, (35,50,15)										1447	
105	@ 105' - increase in fine to coarse gravel to 45% (angular to subrounded, <1" diameter), 40% well-graded medium- to coarse-grained sand, 15% fines, wet due to water injection, (45,40,15)										1450	
110	@ 110' - decrease in fine gravel to 35% (angular to subangular, <0 5" diameter), 40% well-graded fine- to coarse-grained sand, 25% fines, wet due to water injection, (35,40,25)										1457	
115	@ 115' - increase in fine to coarse gravel to 40% (angular to subrounded, <1" diameter), 40% well-graded fine- to coarse-grained sand (angular to subrounded), 20% fines, wet due to water injection, (40,40,20)										1504	From 116' - 136', rate of drilling is approximately 0 71 ft/min
120												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1878655 92
EASTING 6740248 93
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GEOSYNTEC CONSULTANTS
200 E Del Mar Boulevard Suite 250
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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-4**		**SHEET 5 OF 22**
START DRILL DATE	Jul 23, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Aug 25, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1626 56 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY GRAVEL/GRAVELLY SAND (GW-SW) well-graded fine to coarse gravel (<1" diameter), (40,40,20)										1525	
125											1530	
130											1535	
135	@ 135' - wet due to water injection										1545	From 136' - 156', rate of drilling is approximately 0 71 ft/min
140											1605	
145	@ 145' - 40% angular to subrounded well-graded fine- to coarse-grained sand, (40,40,20)										1611	
150												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878655 92
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740248 93
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES.

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-4
START DRILL DATE Jul 23, 04
FINISH DRILL DATE Aug 25, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1626.56 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY GRAVEL/GRAVELLY SAND (GW-SW): decrease in gravel sizes to <0.5" diameter; (40,40,20)										1619	
155											1625	
160	Well-Graded GRAVEL with SAND (GW): olive [5Y 4/4]; gravel/cobble fragments (angular, <0.5" diameter); fines primarily coating gravel fragments; (60,35,5)										0725	Continuous injection of water into borehole to remove cuttings.
165												
170												
175	@ 175' - very angular gravel/cobble fragments											
180												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P.G.

NORTHING 1878655.92
EASTING 6740248.93
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-4**		**SHEET 7 OF 22**
START DRILL DATE	Jul 23, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Aug 25, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1626 56 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded GRAVEL with SAND (GW) angular, fine to coarse gravel, (60,35,5)										1615	
185	@ 185' - gravel sizes <0 5" diameter (cobble fragments)										1620	
190											1645	
195	@ 195' - very large cobbles/boulders										1700	
												From 197' - 217', rate of drilling is approximately 0 59 ft/min
200	SILTY SAND with GRAVEL (SW-SM) olive brown [2 5Y 4/3], 25% fine gravel (angular to subangular fragments <0 5" diameter), 55% well-graded very fine- to coarse-grained sand, 20% fines, moist due to water injection, (25,60,15)										1120	
205											1125	
210												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878655 92
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740248 93
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES.

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 8 **OF** 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA:**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626 56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SW-SM) 25% fine gravel (angular to subangular, <0 5" diameter), (25,60,15)										1130	
215											1142	
	Well-Graded GRAVEL (GW) grayish brown [2 5Y 5/2], 80% gravel (angular cobble fragments, <0 75" diameter), 10% well-graded fine- to coarse-grained sand, 10% fines, dry, (80,10,10)										1150	From 217' - 237', rate of drilling is approximately 0 59 ft/min
220	SILTY SAND with GRAVEL (SW-SM) olive brown [2 5Y 4/3], 30% fine gravel (angular fragments, <0 5" diameter), 45% well-graded fine- to coarse-grained sand, 25% fines, moist due to water injection into borehole, (30,45,25)										1319	
225											1325	
230											1335	
235	@ 235' - decrease in gravels to 15% (angular to subangular, <0 25" diameter), 70% well-graded fine- and coarse-grained sand, 15% fines, damp due to water injection into borehole, (15,70,15)										1340	From 237' - 257', rate of drilling is approximately 1 05 ft/min
240												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655 92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248 93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 9 **OF** 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA:**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626 56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SW-SM) 70% well-graded fine- to coarse-grained sand, (15,70,15)										1400	
245											1403	
250											1407	
255	@ 255' - color change to yellowish brown [10YR 5/4]										1410	
												From 257' - 277', rate of drilling is approximately 0 69 ft/min
260											1425	
265	@ 265' - moist due to water injection into the borehole										1428	
270												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655 92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248 93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM.**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 10 **OF** 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA:**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626 56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SW-SM) color change to olive brown [2 5Y 4/3], (15,70,15)										1432	
275	@ 275' - decrease in gravel size to <0 1" diameter										1447	From 277' - 297', rate of drilling is approximately 1 25 ft/min
280	@ 280' - color change to light olive brown [2 5Y 5/4], 5% fine gravel (angular to subangular), 75% well-graded very fine- to fine- sand (angular to subangular), 20% fines, damp due to water injection, (5,75,20)										1500	
285											1505	
290											1509	
295	@ 295' - 10% fine gravel (angular, <0 5" diameter), 75% well-graded very fine- to medium-grained sand, 15% fines, dry,(10,75,15)										1512	
300												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655 92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248 93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4
START DRILL DATE Jul 23, 04
FINISH DRILL DATE Aug 25, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816

ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1626 56 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SW-SM) color change to olive brown [2 5Y 4/4], 10% fine gravel, 80% well-graded very fine- to medium-grained sand (angular to subangular), 20% fines, damp, (10,70,20)										1537	
305											1541	
310	@ 310' - 10% fine gravels (angular to subangular, <0 25" diameter), 55% well-graded very fine- to fine-grained sand, 35% fines, damp, (10,55,35)										1545	
315											1548	
320											1607	
325	@ 325' - damp due to water injection into the borehole										1610	
330												

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER *13 3/8", 11 3/4", 9 5/8"*
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G

NORTHING 1878655 92
EASTING 6740248 93
COORDINATE SYSTEM: *NAD-83 Zone 5*

NOTES.

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GS FORM. WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 12 **OF** 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA:**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626 56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SW-SM) 10% fine gravel (<0 25" diameter), (10,55,35)										1615	
335	@ 335' - 10% fine gravel, 55% well-graded angular to subangular fine- to coarse-grained sand, 35% fines, moist due to water injection, (10,55,35)										1625	
340											1240	
345	@345' - damp due to limited water injection into the borehole										1304	
350											1319	
355	@355' - angular to subangular sand grains, (10,55,35)										1325	From 357' - 377', rate of drilling is approximately 1 33 ft/min
360												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655 92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248 93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-4**		**SHEET 13 OF 22**
START DRILL DATE	Jul 23, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Aug 25, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1626 56 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SW-SM) 10% fine gravel (angular to subangular), (10,55,35)										1443	
365											1449	
370											1453	
375	@ 375' - color change to dark yellowish brown [10YR 4/6], 5% fine gravel (angular to subangular, <0 25" diameter), 80% well-graded fine- to medium-grained sand, 15% fines, damp due to limited water injection, (5,80,15)										1522	
380											1553	
385	@ 385' - decreasing fines										1601	
390												From 387' - 417', very difficult drilling/hammering (possible cemented zone)

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878655 92
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740248 93
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 14 **OF** 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA:**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626 56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION 1) Lithology 5) Content (%) 2) Color 6) Plasticity 3) Moisture 7) Hardness 4) Grain Size 8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS 1) Rig 2) Odor 3) Air Monitoring
	Well-Graded SAND (SW) light olive brown [2 5Y 5/3], 10% fine gravel (angular, fragmented, <0 2" diameter), 85% fine- to coarse-grained sand (angular, fragmented), 5% fines, dry, (10,85,5)										1630	
395											1650	
400											0837	@ 400', terminated water injection into borehole
405	@ 405' - dry										1145	
410											1322	
415	@ 415' - increasing fines										1335	
420												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655 92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248 93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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GS FORM: WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 15 OF 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA:**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626.56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded SAND (SW): angular to subrounded fine gravel; (10,85,5)										0836	
425											0839	
	SANDY SILT/SILTY SAND (ML): dark yellowish brown [10YR 4/6]; 5% fine gravel (angular to subrounded, <0.15" diameter); 45% poorly graded fine sand; 50% fines; damp; (5,45,50)											
430											0854	
435	@ 435' - trace fine gravel; 40% poorly graded fine sand; 60% fines; damp; no unusual odors; (tr,40,60)										0900	
440	SANDY SILT with CLAY (ML-CL): dark yellowish brown [10YR 3/6]; trace fine gravel; 30% poorly graded fine-grained sand; 70% fines; low plasticity; damp; (tr,30,70)										0914	
445	SANDY SILT with CLAY (ML): yellowish brown [10YR 5/4]; trace fine gravel; 40% well-graded fine- to coarse-grained sand; 60% fines; damp; low plasticity; (tr,40,60)										0920	
450												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655.92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248.93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P.G.

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WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-4**		**SHEET 16 OF 22**
START DRILL DATE	Jul 23, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Aug 25, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1626 56 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) olive brown [2 5Y 4/4], 5% fine gravel (angular to subangular, <0 1" diameter), 85% well-graded fine- to coarse-grained sand, 10% fines, damp, (5,85,10)										0945	
455	@ 455' - trace fine gravel, 70% poorly graded fine-grained sand, 30% fines, moist, (tr,70,30)										0951	From 457' - 470', no free water encountered
460	@ 460' - increase in fine gravel to 5% (angular to subangular, <0 15" diameter), 85% well-graded fine- to coarse-grained sand, 10% fines, moist, (5,85,10)										1000	
465	@ 465' - color change to light olive brown [2 5Y 5/6], trace fine gravel, 85% poorly graded very fine-grained sand, 15% fines, moist, (tr,85,15)										1003	From 467' - 480', no free water encountered
470	@ 470' - 5% fine gravel (angular to subangular, <0 2" diameter), 75% well-graded very fine- to coarse-grained sand, 20% fines, moist, (5,75,20)										1006	
475											1040	
480				@ 480', encountered first groundwater								

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878655 92
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740248 93
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM.**	NAD-83 Zone 5
DIAMETER	13 3/8", 11 3/4", 9 5/8"		
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES:

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

GEOSYNTEC CONSULTANTS
200 E Del Mar Boulevard Suite 250
Pasadena, California 91105
Tel. (626) 449-0664 Fax· (626) 449-0411

GS FORM WELL BORE 12/03

BOREHOLE LOG

BORING PW-4
START DRILL DATE Jul 23, 04
FINISH DRILL DATE Aug 25, 04
LOCATION Rialto, CA
PROJECT 160-Acre Parcel, Rialto, CA
NUMBER HA0816
ELEVATION DATA:
GROUND SURF. NA ft
TOP OF CASING 1626 56 ft
DATUM NGVD-29

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG / WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY GRAVEL/GRAVELLY SAND (GW-SW) olive brown [2 5Y 4/4], 40% well-graded fine and coarse gravel (angular to subangular, <0 5" diameter), 35% well-graded fine- to coarse-grained sand, 25% fines, wet, (40,35,25)		Temporary well PW-4-T01-485 screened from 480' - 485' Static water level measured at 460 3' NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-4	PW-4-T01-485 (Groundwater Sample)						1049	
485	SILTY SAND/SANDY SILT (SM-ML) light olive brown [2 5Y 5/4], 10% fine gravel (angular to subangular, < 0 2" diameter), 55% poorly graded fine sand, 35% fines, wet, (10,55,35) @ 486' - color change to dark yellowish brown [10YR 4/6], trace coarse-grained sand and 40% very fine-grained sand, 60% fines, damp, no plasticity, (0,40,60)			PW-4-T01-487 5-GT (Soil Sample)			7-11-16	60		1315	From 486' - 487 5', drive soil sample PW-4T01-487 5-GT collected using a 325-lb hammer From 487 5' - 526', borehole producing abundant water
490	@ 490' - 30% fine and coarse gravel (angular to subangular, < 0 5" diameter), 30% well-graded fine- to coarse-grained sand (angular to subrounded), 40% fines, wet, (30,30,40)									0906	
495	SANDY GRAVEL/GRAVELLY SAND (GW-SW) light olive brown [2 5Y 5/4], 40% fine and coarse gravel (angular to subangular, <0 5" diameter), 40% well-graded fine- to coarse-grained sand (angular to subrounded), 20% fines, wet, (40,40,20)									0915	
500	@ 500 5' - Well-Graded SAND with SILT (SW-SM) brown [10YR 4/6], 90% poorly graded very fine sand, 10% fines, wet, (0,90,10) @ 501' - 5% fine gravel (angular to subangular, <0 75" diameter), 85% well-graded fine- to coarse-grained sand, 10% fines, wet, (5,85,10)						20-28-42	60		1049	@ 499', bottom of 11 3/4" diameter steel drive casing Begin telescoping 9 5/8" diameter steel drive casing From 500' - 501 5', drive soil sample collected using a 325-lb hammer
505	@ 501 5' - SILTY CLAY (CL) olive [5Y 4/3], high toughness, hard, dry SILTY SAND (SM) olive brown [2 5Y 4/4], 10% fine and coarse gravel (angular to subangular, <1" diameter), 70% well-graded fine- to coarse-grained sand, 20% fines, wet, (10,70,20)									1508	
510											

CONTRACTOR WDC Exploration & Wells
EQUIPMENT Peterbilt SpeedStar 30K
DRILL MTHD Air Rotary Casing Hammer
DIAMETER 13 3/8", 11 3/4", 9 5/8"
LOGGER Phuong Ly
REVIEWER Walt Grinyer, P G
NORTHING 1878655 92
EASTING 6740248 93
COORDINATE SYSTEM: NAD-83 Zone 5

NOTES:

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Tel (626) 449-0664 Fax: (626) 449-0411

GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 18 OF 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA:**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626 56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) fine to coarse gravels <1" diameter, (10,70,20)										1510	
515				Temporary well PW-4-T02-525 screened from 520' - 525' Static water level measured at 464 42'							1512	From 516' - 526', borehole generating abundant water
520											1524	
				NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-4	PW-4-T02-525 (Groundwater Sample)							
525	@ 525' - wet										1520	
						PW-4-T02-527 5-GT (Soil Sample)		7-30-44	40			From 526' - 541', borehole generating abundant water
530											1033	
535	@ 535' - 20% fines (10,70,20)										1035	
540												

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655 92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248 93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

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Pasadena, California 91105
Tel (626) 449-0664 Fax: (626) 449-0411

GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-4**		**SHEET 19 OF 22**
START DRILL DATE	Jul 23, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Aug 25, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1626 56 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND (SM) wet, (10,70,20)										1047	
	SANDY SILT with CLAY (ML-CL) light olive brown [2 5Y 5/4], 30% very fine-grained sand and trace medium-grained sand, 70% fines, wet, slow dilatancy, (0,30,70)											@ 541', decreasing water production in borehole
545											1049	
550											1052	
												@ 552', no free water observed
555	Well-Graded SAND (SW) olive brown [2 5Y 4/4], 90% medium- to coarse-grained sand, 10% fines, moist, (0,90,10)										1100	
												From 556' - 576', borehole producing abundant water
560	@ 560' - trace fine gravel (<0 2" diameter), 90% well-graded fine- to medium-grained sand, 10% fines, dry, (tr,90,10)										1115	
565	@ 565' - dry										1117	
570				@ 570', encountered groundwater								

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878655 92
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740248 93
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-4**		**SHEET 20 OF 22**
START DRILL DATE	Jul 23, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Aug 25, 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1626 56 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	Well-Graded SAND (SW) damp to moist, (tr,90,10)			Temporary well PW-4-T03-575 screened from 570' - 575' Static water level measured at 567 90' NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-4							1127	
					PW-4-T03-575 (Groundwater Sample)							
575	@ 575' - increase in fine to coarse gravel to 20% (angular to subangular, <1 25" diameter), 60% well-graded fine- to coarse-grained sand, 20% fines, damp to moist, (20,60,20)										1130	From 575'- 586', very difficult drilling
580	CLAYEY SAND/SANDY CLAY (SC-CL) olive brown [2 5Y 4/3], 20% fine and coarse gravel (angular to subrounded, <0 75" diameter), 35% well-graded fine- to coarse-grained sand, 35% fines, wet, no plasticity, slow dilatancy, (20,35,35)										0855	
	@ 582' - Well-Graded GRAVEL with SILTY SAND (GW-SM) olive brown [2 5Y 4/3], 40% fine and coarse gravel (angular to subrounded, <1" diameter), 30% well-graded medium- to coarse-grained sand, 30% fines, wet, (40,30,30)											
585											0815	
	SANDY SILT with CLAY (ML-CL) olive brown [2 5Y 4/4], trace fine gravel, 30% poorly graded fine-grained sand, 70% fines (50% silt, 20% clay), wet, slow dilatancy, no plasticity, (tr,30,70)											From 587' - 591', borehole producing abundant water
590	SILTY SAND (SM) olive brown [2 5Y 4/4], 70% poorly graded fine- to medium-grained sand (angular to subangular), 30% fines, wet, (0,70,30)										0840	From 591' - 596', very difficult drilling
595	@ 595' - increase in sand grain size to poorly graded medium- to coarse-grained, wet, (tr,70,30)										0850	From 596' - 606', very difficult hammering/drilling
600												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878655 92
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740248 93
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM:**	NAD-83 Zone 5
DIAMETER	13 3/8", 11 3/4", 9 5/8"		
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES:

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING	**PW-4**		**SHEET 21 OF 22**
START DRILL DATE	Jul 23, 04	**ELEVATION DATA:**	
FINISH DRILL DATE	Aug 25, 04	**GROUND SURF**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	1626 56 ft
PROJECT	160-Acre Parcel, Rialto, CA	**DATUM**	NGVD-29
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SANDY CLAY with SILT (SC-ML) light olive brown [2 5Y 5/6], 50% poorly graded fine- to medium-grained sand, 50% fines, no plasticity, very moist to wet, (0,70,30)					PW-4 601 5-GT (Soil Sample)			40		1415	From 600' - 601 5', drive soil sample PW-4 601 5-GT collected using a 325 lb hammer
605	SILTY SAND (SM) dark yellowish brown [10YR 4/6], 70% well-graded fine- to coarse-grained sand, 30% fines, very moist, (0,70,30)										1515	
610				Temporary well PW-4-T04-617 5 screened from 612 5' - 617 5' Static water level measured at 615 55'							1519	
						PW-4 T04-617 5 (Groundwater Sample)						
615											1612	
				Temporary well PW-4-T05 625 screened from 620' - 625' Static water level measured at 567 9'								
620											1613	
				NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW 4		PW-4 T05-625 (Groundwater Sample)						
625	SILTY SAND with GRAVEL (SW) light olive brown [2 5Y 5/4], 35% fine and coarse gravel (angular to subrounded, <1 25" diameter) 40% well-graded fine- to coarse-grained sand 25% fines (trace clay), very moist, (35,40,25)			@ 625', encountered groundwater							1710	
630												

CONTRACTOR	WDC Exploration & Wells	**NORTHING**	1878655 92
EQUIPMENT	Peterbilt SpeedStar 30K	**EASTING**	6740248 93
DRILL MTHD	Air Rotary Casing Hammer	**COORDINATE SYSTEM.**	
DIAMETER	13 3/8", 11 3/4", 9 5/8"		NAD-83 Zone 5
LOGGER	Phuong Ly	**REVIEWER**	Walt Grinyer, P G

NOTES.

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

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GS FORM
WELL BORE 12/03

BOREHOLE LOG

BORING PW-4 **SHEET** 22 **OF** 22
START DRILL DATE Jul 23, 04 **ELEVATION DATA:**
FINISH DRILL DATE Aug 25, 04 **GROUND SURF.** NA ft
LOCATION Rialto, CA **TOP OF CASING** 1626 56 ft
PROJECT 160-Acre Parcel, Rialto, CA **DATUM** NGVD-29
NUMBER HA0816

DEPTH (ft-bgs)	DESCRIPTION (1) Lithology (2) Color (3) Moisture (4) Grain Size (5) Content (%) (6) Plasticity (7) Hardness (8) Other (Staining, etc)	GRAPHIC LOG / WELL LOG	GROUNDWATER/ STRUCTURE	ELEVATION (ft)	SAMPLES: SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS (1) Rig (2) Odor (3) Air Monitoring
	SILTY SAND with GRAVEL (SW) decreasing gravels, (35,40,25)									1110	
635										1630	From 636' - 646', no free water observed
			Temporary well PW-4-T06-647 5 screened from 642 5' - 647 5' Static water level measured at 615 45'								
640	@ 640' - decrease in gravel to 5%, 90% well-graded fine- to coarse-grained sand, 5% fines, very moist to wet									1645	@ 642', due to limited recovery of cuttings, injected water into borehole and resumed drilling
645	@ 645' - becomes wet		NOTE TEMPORARY WELL SHOWN, PLEASE REFER TO WELL CONSTRUCTION LOG FOR PERMANENT WELL PW-4	PW-4-T06-647 5 (Groundwater Sample)						1315	@ 645', borehole producing abundant water @ 646', no free water observed, bottom of 9 5/8" diameter steel drive casing Due to equipment problem encountered during permanent well installation, 9 5/8" diameter steel casing was removed from the borehole and mud drilling techniques were employed to total depth (with approval from USEPA). @ 648', very limited free water observed
650											
	Boring terminated at a depth of 650' Permanent well PW-4 and piezometer PW-4A was subsequently installed in the borehole Refer to well construction log for monitoring well PW-4 and piezometer PA-4A										
655											
660											

CONTRACTOR WDC Exploration & Wells **NORTHING** 1878655 92
EQUIPMENT Peterbilt SpeedStar 30K **EASTING** 6740248 93
DRILL MTHD Air Rotary Casing Hammer **COORDINATE SYSTEM:**
DIAMETER 13 3/8", 11 3/4", 9 5/8" NAD-83 Zone 5
LOGGER Phuong Ly **REVIEWER** Walt Grinyer, P G

NOTES:

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

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Pasadena, CA 91105
Phone: (626) 449-0664

GS FORM
WELL BORE 01/04

DRAFT BOREHOLE LOG

BORING	**SB-BP-10**		**SHEET 1 OF 1**
START DRILL DATE	3 Jun 04	**ELEVATION DATA:**	
FINISH DRILL DATE	3 Jun 04	**GROUND SURF.**	NA ft
LOCATION	Rialto, CA	**TOP OF CASING**	NA ft
PROJECT	160 -Acre Parcel, Rialto, CA	**DATUM**	Mean Sea Level
NUMBER	HA0816		

DEPTH (ft-bgs)	DESCRIPTION (1) Unit/Formation, Mem (2) Soil/Rock Name (3) Color (4) Moisture (5) Grain Size (6) Percentage (7) Plasticity (8) Density/Consistency (9) Structure (10) Other (Mineralization, Discoloration, Odor, etc)	GRAPHIC LOG	WELL LOG	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE NO	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME (00.00)	COMMENTS (1) Rig Behavior (2) Air Monitoring
	Concrete surface, 5-inch thick											
	Gravelly SAND (SW) dark brown [10YR 3/3], 30% gravel (up to 1" in size), 55% fine- to medium-grained sand (angular to subangular), 15% fines, moist, medium dense								100	8 0	21 35	
									60	6 5	21 50	
									80	6 9	22 00	
5												@ 5 ft-bgs become difficult to drill
	@ 5 5' - becomes very pale brown [10YR 8/2]											
	@ 6' - becomes brown [10YR 5/3], increase in gravel to 40%, decrease in fines, (40,50,10) dark brown [10YR 3/3]								60	22 0	22 20	
	@ 7 5' - small layer very pale brown [10YR 8/2], some odor											
	grayish brown [10YR 5/2], fine- to coarse-grained sand (angular)								70	10 7	22 40	
	@ 9 5' - layer of very pale brown [10YR 8/2], approximately 0 3" thick											Very difficult drilling, appears to be chipped rock
10	becomes grayish brown [10YR 5/2]											Very difficult drilling
	becomes light olive brown [2 5YR 5/3]								60	9 1	23 30	
	Boring terminated @ 12 5 ft-bgs Groundwater not encountered Backfilled with bentonite to 5 in-bgs and concrete patch to surface											
15												

CONTRACTOR	PCR Laboratories	**NORTHING**	1878824 49
EQUIPMENT	Hurricane Rig	**EASTING**	6738145 19
DRILL MTHD	Direct push	**COORDINATE SYSTEM:**	
DIAMETER	1 5 inch		NAD83 CA ST PL ZN5 ft
LOGGER	CL	**REVIEWER**	KA

NOTES: Inside concrete curing building high humidity Direct push with 1 5 in-diameter sampler lined with acetate sleeves

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

APPENDIX B
Borehole Geophysical Logs

PACIFIC SURVEYS

DUAL INDUCTION GAMMA RAY

Job No 11663	Company	GEOSYNTEC CONSULTANTS	
	Well	PW-1	
File No.	Field	RIALTO	
	County	SAN BERNARDINO	State CA
Location CASA GRANDE DR			Other Services HOME

Permanent Datum	G.L.	Elevation	Elevation
Log Measured From	G.L.	0' above perm. datum	K.B.
Drilling Measured From	G.L.		D.F.
	G.L.		G.L.

Date	4-Nov-04
Run Number	ONE
Depth Driller	4500'
Depth Logger	4497'
Bottom Logged Interval	4497'
Top Log Interval	1400'
Casing Driller Size	N/A
Casing Logger	N/A
Bit Size	12 1/4"
Type Fluid in Hole	N/A
Dens. / Visc.	N/A
PH / Fluid Loss	N/A
Source of Sample	N/A
Rm @ Meas. Temp.	12.00 AM
Rmf @ Meas. Temp.	12.00 AM
Rmc @ Meas. Temp.	12.00 AM
Source: Rmf / Rmc	N/A
Rm @ BHT	N/A
Time Since Circ.	12 HRS
Max. Rec. Temp.	75 F
Equipment Location	L.A.
Recorded By	DOUGHERTY
Witnessed By	F.V.

Run Number	Bit Size	Casing Driller Size	Casing Logger	Depth Driller	Depth Logger	Bottom Logged Interval	Top Log Interval
ONE	12 1/4"	N/A	N/A	4500'	4497'	4497'	1400'

Run Number	Type Log	From	To	Size	Weight	Type Fluid	Top	Bottom
ONE	DIL	1400'	4497'	8"	24#	PHG	0'	4497'
	GR							
	Gamma Ray Scale							
	Line Speed Scale							
	Precision Setting							
	Linear							

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All interpretations are opinions based on inferences from electrical or other measurements and Pacific Surveys cannot and do not guarantee the accuracy or correctness any interpretation and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurr or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Pacific Surveys' general terms and conditions set out in our current Price Schedule.

Comments

Dual Induction Calibration Report

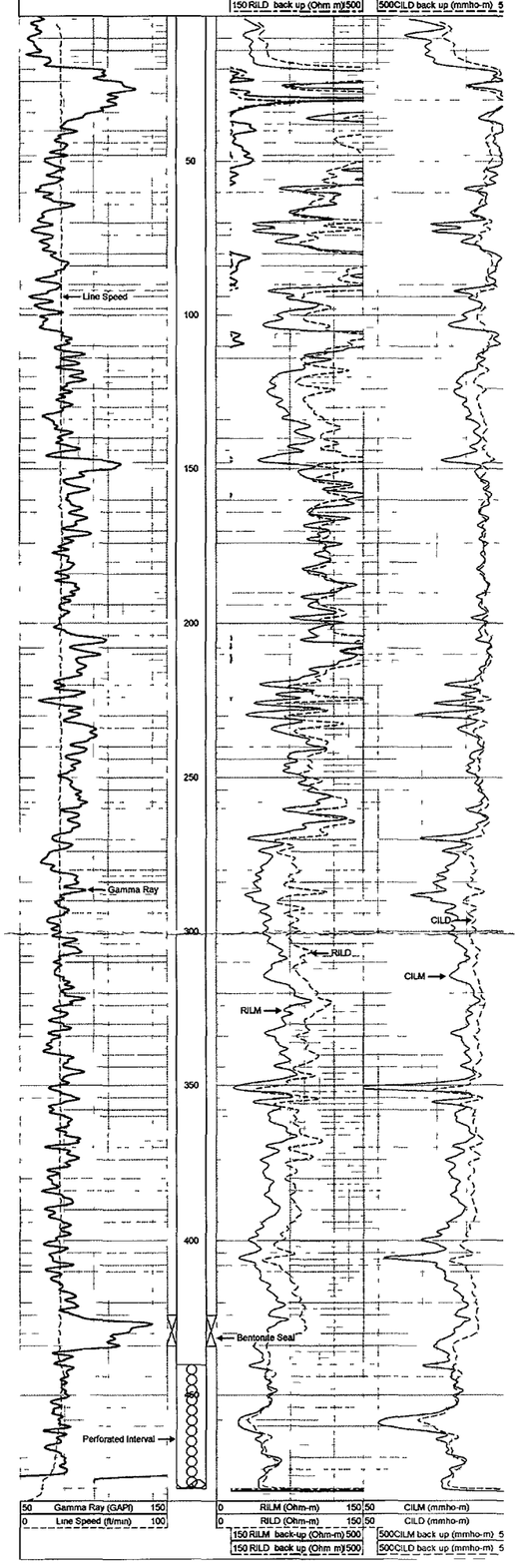
Serial-Model 0001-ALT
Surface Cal Performed

Loop	Readings Air	Readings Loop		References Air	References Loop		Results m	Results b
Deep	1460 030	4075 090	cps	0 000	612 000	mmho-m	0.234	-341 690
Medium	1985 080	14095 100	cps	0 000	1960 000	mmho m	0 162	-321.285

Gamma Ray Calibration Report

Serial Number	PS_1	
Tool Model	01	
Performed	Sun Oct 10 12 43.25 2004	
Calibrator Value	162	GAPI
Background Reading	41 4943	cps
Calibrator Reading	170 423	cps
Sensitivity	1.2563	GAPI/cps

Database File	11663 db
Dataset Pathname	GeoSyn/PW1/run1/DIL.1
Presentation Format	DIL
Dataset Creation	Thu Nov 04 13 05 48 2004 by Calc 6 0
Charted by	Depth in Feet scaled 1.240



PACIFIC SURVEYS

DUAL INDUCTION GAMMA RAY

Job No. 11983	
Company	GEOSYNTEC CONSULTANTS
Well	PW 2
Field	RIALTO
File No.	
County	SAN BERNARDINO State CA
Location	LOWELL ST
Other Services:	NONE

			Elevation above perm. datum	Elevation
Permanent Datum	GL			
Log Measured From	GL	0'		KB
Drilling Measured From	GL			DF
	-604			
	ONE			
	642'			
	642'			
Bottom Logged Interval	640'			
Top Log Interval	0'			
Open Hole Size	NA			
Type Fluid	WATER			
Density, Viscosity	NA			
Fluid Level	63'			
Bentonite Seal	57'-61'8"			
Time Well Ready	0 00 AM			
Time Logger on Bottom	0 30 AM			
Equipment Number	56-3			
Location	LA			
Recorded By	LOGARTE			
Witnessed By	F. LY			

Bottom Record				Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Weight	Top	Bottom
Surface String	4"	STEEL	0'	60'
Prod. String	4	PVC	60'	642'
Production String				
Liner				

All interpretations we express based on inference from electrical or other measurements and we hereby disclaim all other representations and warranties, express or implied, as to the accuracy or completeness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our standard terms and conditions set out in our current Price Schedule.

(Continued)

Dual Induction Calibration Report

0001-ALT

Serial-Model
Surface Cal Performed

Road logs	Air	Loop	Results	m	b
Loop	0.000	0.000	mmho/v	0.294	-341.960
Deep	1490.000	4575.000	mmho-m	0.162	-331.285
Medium	1890.000	14205.000			

Gamma Ray Calibration Report

Serial Number	PS_1
Tool Model	Sn
Calibration Date	Wed Oct 13 12:43:25 2004
Calibrator Value	162 GAPI
Background Reading	41.043 cps
Calibrator Reading	170.423 cps
Sensitivity	1.2563 GAPI/cps

Database File 11983.db
Dataset Pathname GeoSynPrV2\run1\DIL
Dataset Presentation Thu Nov 04 10:23:21 2004 by Log 6.0
Dataset Creation Depth in Feet scaled 1:240
Created by

PACIFIC SURVEYS

GAMMA RAY

API No. 11003	Company	GEOSYNTEC CONSULTANTS	
	Well	PW-3	
File No.	Field	RIALTO	
	County	SAN BERNARDINO	State CA

Location: LOCUST ST

Other Services: NONE

Permanent Datum: G.L. | Elevation: 0' | Elevation above perm. datum: | K.B. | D.F. | G.L.

Log Measured From: RKB 11.5ft

Drilling Measured From: G.L.

Date	11-5-04
Run Number	ONE
Depth Driller	1240
Depth Logger	1236
Bottom Logged Interval	1236
Top Log Interval	SURF
Casing Driller Size @ Depth	8 @ 0
Casing Logger	8 @ 0
Bit Size	6 1/8
Type Fluid in Hole	WATER
Dens. / Visc.	N/A
PH / Fluid Loss	N/A
Source of Sample	FLOWING
Rm @ Meas. Temp.	0.000 @ 0
Rmf @ Meas. Temp.	0.000 @ 0
Rmc @ Meas. Temp.	0.000 @ 0
Source: Rmf / Rmc	N/A / N/A
Rm @ BHT	0.000 @ 0
Time Logger on Bottom	11:15 AM
Unit Number / Location	1 / 2
Recorded By	K.Y.
Witnessed By	

Run Number: ONE | Bit No.: 1 | From: SURF | To: 1236 | Size: 6 1/8 | Weight: | Type: | Rotary Speed: | Bit Type: | Jets: | Hours: | Depth Out: | Depth In: | Total Footage: | Cum. Hours:

<<< End Data >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pacific Surveys cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Pacific Surveys general terms and conditions set out in our current Price Schedule.

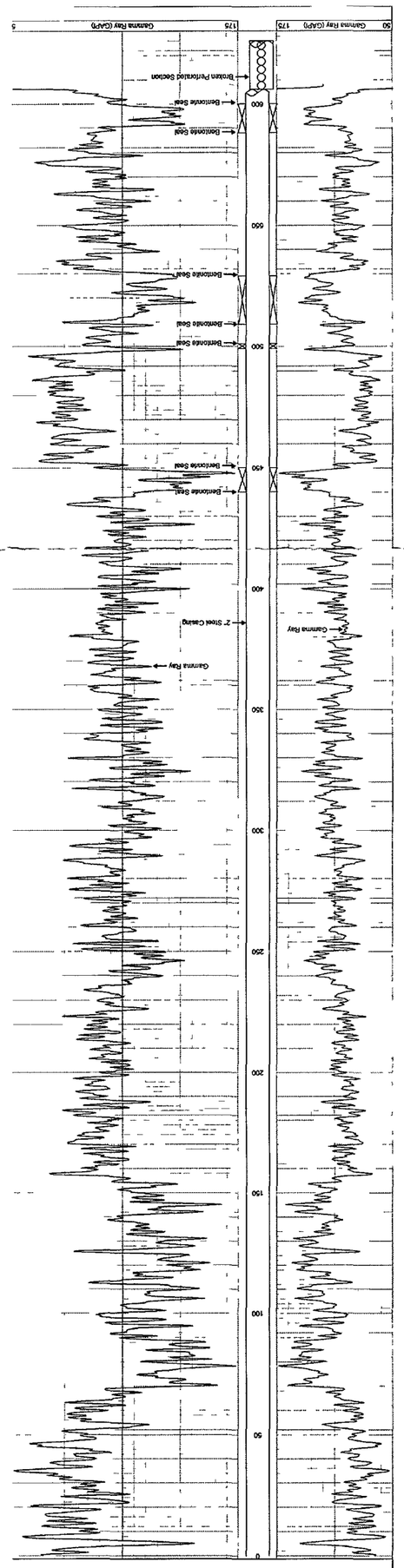
Comments:

PERFORATED INTERVAL FROM 505-625
CASING BROKEN ABOVE PERFORATED INTERVAL.

Gamma Ray Calibration Report

Serial Number	Computer		
Tool Model	GRCH		
Performed	Fri Aug 27 10:57:28 2004		
Calibrator Value	162	GAPI	
Background Reading	17.5228	cps	
Calibrator Reading	93.6513	cps	
Serial#/Key	2 12796	GAPI/cps	

Datalogger File: 11663.dp
Dataset Pathname: Geosyn/PW3/run1/GR
Presentation Format: CNT
Dataset Creation: Thu Nov 04 11:14:20 2004 by Log 6.0
Charted by: Depth in Feet scaled 1:240



PACIFIC SURVEYS

GAMMA RAY

Job No: 11663
File No.

Company: GEOSYNTEC CONSULTANTS
Well: PW-4
Field: RIALTO
County: SAN BERNARDINO State: CA

Location:

LOCATE GT

Other Services: NONE

Permanent Datum: G.L.
Log Measured from: G.L.
Drilling Measured from: G.L.

Elevation: 0'
Above perm. datum

Elevation: G.L.: 0'
K.B.:

Date: 04-Aug-04
Run Number: One
Depth Driller: 640'
Depth Logger: 640'
Bottom Log Interval: 640'
Top Log Interval: 0'
Casing Driller: WATER
Casing Logger: N/A
Bit Size: 8 3/4"
Type Fluid in Hole: N/A
Dens.: N/A
Visc.: N/A
Max. Rec. Temp.: 0 F 0 F
Estimated Cement Top: N/A
Time Logger on Bottom: 0 F 0 F
Equipment: 0 F 0 F
Location: 0 F 0 F
Witnessed by:

Run Number	Bit Size	Depth Driller	Depth Logger	Type Fluid in Hole	Dens.	Visc.	Max. Rec. Temp.	Equipment Location
		From	To					
		Size	Weight	Grade	Type	Depth Driller	Depth Logger	Bottom Log Interval
Casing Driller	2"	0'SSL	Top	0'				
Casing Logger								
Bit Size								
Type Fluid in Hole								
Dens. Visc.								
Top Log Interval								
Bottom Log Interval								

Field Name >>>

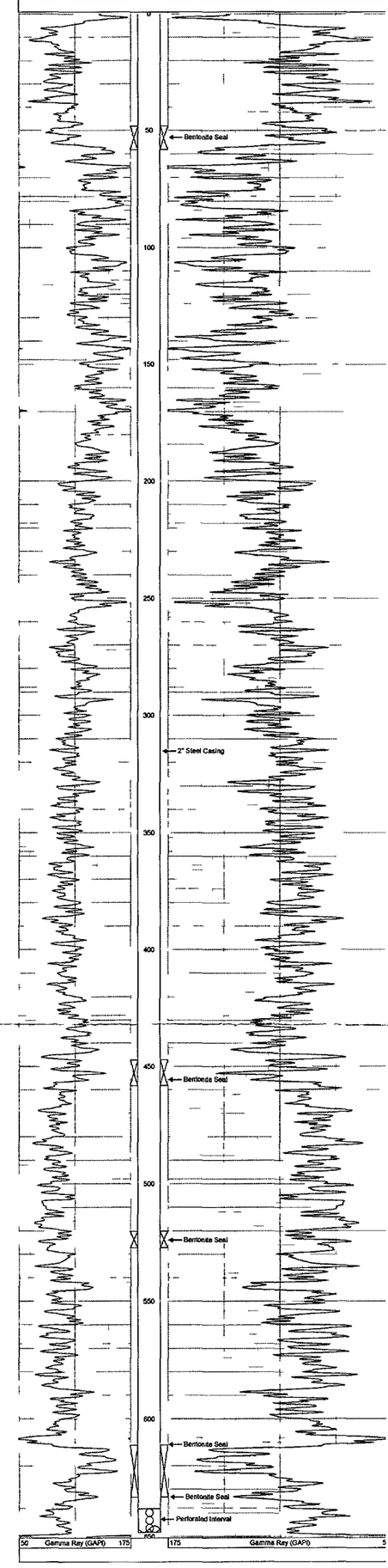
All interpretations are opinions based on inferences from electrical or other measurements and Pacific Surveys cannot and do not guarantee the accuracy or correctness any interpretation, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurr or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Pacific Surveys' general terms and conditions set out in our current Price Schedule.

Comments

Gamma Ray Calibration Report

Serial Number:	Comprobe	
Tool Model	GROH	
Performed	Fri Aug 27 10:57:28 2004	
Calibrator Value	162	GAPI
Background Reading	17.5228	cps
Calibrator Reading	93.6513	cps
Sensitivity	2.12798	GAPI/cps

Database File: 11663.db
Dataset Pathname: Geo3/rv/PW4/run1/GR
Presentation Format: CNT
Dataset Creation: Thu Nov 04 12:00:59 2004 by Log 8.0
Charted by: Depth in Feet scaled 1:240



APPENDIX C

Well Construction Diagrams

GeoSyntec Consultants
200 East Del Mar Boulevard, Suite 250
Pasadena, California 91105
Phone (626) 449-0664

WELL CONSTRUCTION LOG

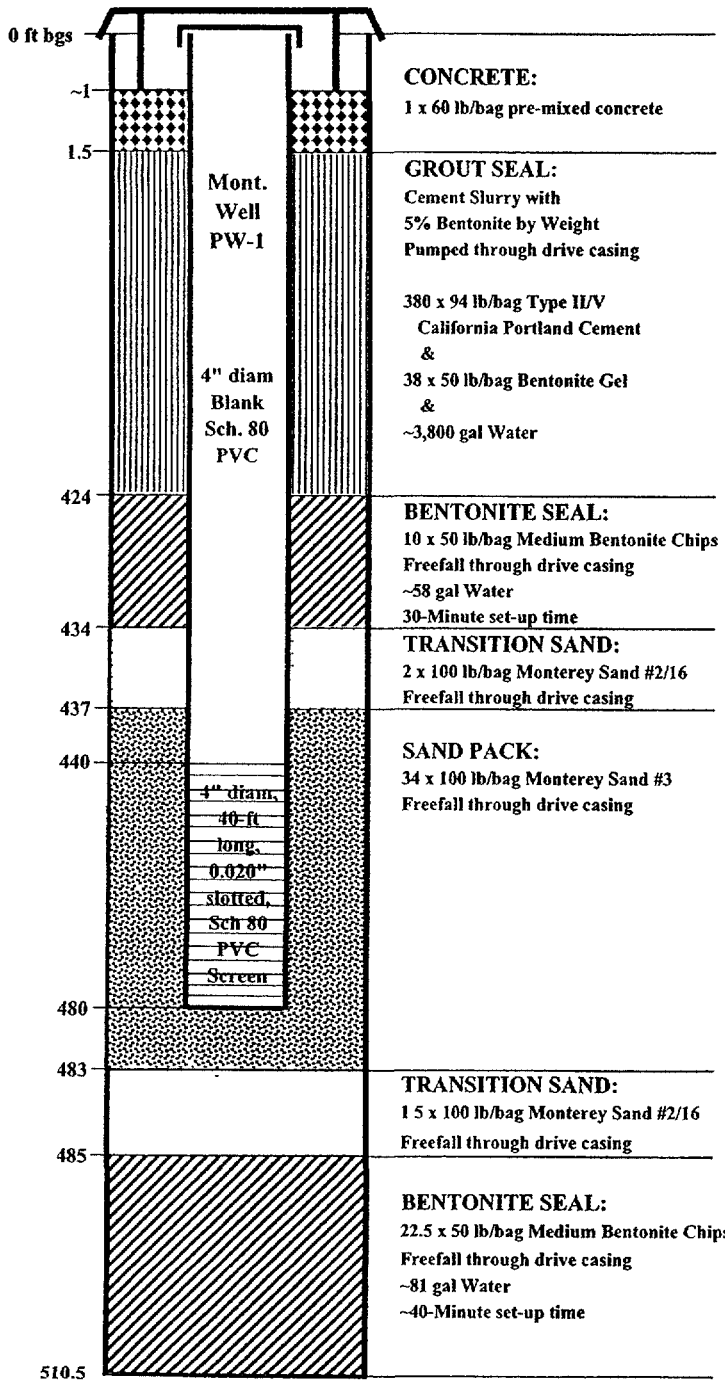
Boring ID: PW-1

Start Drill Date: 21 May 2004
Finish Drill Date: 28 May 2004
Location: West Casa Grande Drive
Project: 160-Acre Parcel, Rialto, CA
Number: HA0816
Logger: PL
Reviewer: KA

Elevation Top of Casing: 1704.48 ft MSL
Vert Datum: NGVD-29; HVC-11 (Elev=1622.84)
Northing: 1880289.14
Easting: 6737216.65
Horiz Datum: NAD-83 Zone 5

BELOW GROUND SURFACE COMPLETION:

Well Box: Flush-Mounted, Traffic-Rated Steel
Protective Cover: Locking Well Cap



CONCRETE:
1 x 60 lb/bag pre-mixed concrete

GROUT SEAL:
Cement Slurry with
5% Bentonite by Weight
Pumped through drive casing

380 x 94 lb/bag Type II/V
California Portland Cement
&
38 x 50 lb/bag Bentonite Gel
&
~3,800 gal Water

BENTONITE SEAL:
10 x 50 lb/bag Medium Bentonite Chips
Freefall through drive casing
~58 gal Water
30-Minute set-up time

TRANSITION SAND:
2 x 100 lb/bag Monterey Sand #2/16
Freefall through drive casing

SAND PACK:
34 x 100 lb/bag Monterey Sand #3
Freefall through drive casing

TRANSITION SAND:
1 5 x 100 lb/bag Monterey Sand #2/16
Freefall through drive casing

BENTONITE SEAL:
22.5 x 50 lb/bag Medium Bentonite Chips
Freefall through drive casing
~81 gal Water
~40-Minute set-up time

WELL DIAGRAM NOT TO SCALE

DRILLING SUMMARY:

Total Boring Depth: 510.5 ft bgs
Drilling Method: Air Rotary Casing Hammer
Drilling Fluid: Air / Injected Water (Municipal Hydrant)
Contractor: WDC Exploration & Wells
Drilling Rig: Peterbilt SpeedStar 30K
Telescoping Drive Casing Diameters:
16" to 59 ft bgs
13 3/8" to 199 ft bgs
11 3/4" to 477 ft bgs
Tricone Drill Bit Diameters:
14" to 59 ft bgs
12 1/4" to 199 ft bgs
10 5/8" to 510.5 ft bgs

WELL CONSTRUCTION DETAILS FOR MONITORING WELL PW-1:

Total Well Depth: 480 ft bgs
Well Construction Dates: 3 through 8 June 2004
Well Development Date: 17 June 2004
Blank Well Casing:
Virgin, factory-sealed, flush-threaded, 4"-diameter, Sch 80 PVC (from ground surface to 440 ft bgs)
Well Screen Interval:
Virgin, factory-sealed, flush-threaded, 4"-diameter, 0.020" slotted, Sch 80 PVC (from 440 to 480 ft bgs)
Length of End Cap: 0.41 ft
Centralizers (2 total): PVC with metal screws (directly above and below the screen interval)

TEMPORARY WELLS INSTALLED

Temporary Well ID	*Installation Date*	*Well Depth (ft bgs)*	*Screen Interval (ft bgs)*	*Approx. Static Water Level (ft bgs)*
PW-1A-T01-444	26-May-04	480	434 - 444	430.98
PW-1A-T02-510	28-May-04	510	500 - 510	504.15

DRIVE SOIL SAMPLES COLLECTED

Soil Sample ID	*Sampling Depth (ft bgs)*	*Sample Date*
PW-1A-TO2-486	486	28-May-04

NOTES:

This boring was originally identified as PW-1A. However, the boring ID was revised to PW-1 to be consistent with the naming system for the monitoring wells installed by GeoSyntec Consultants for this project and proposed in the Remedial Investigation Work Plan.

GeoSyntec Consultants
200 East Del Mar Boulevard, Suite 250
Pasadena, California 91105
Phone: (626) 449-0664

WELL CONSTRUCTION LOG

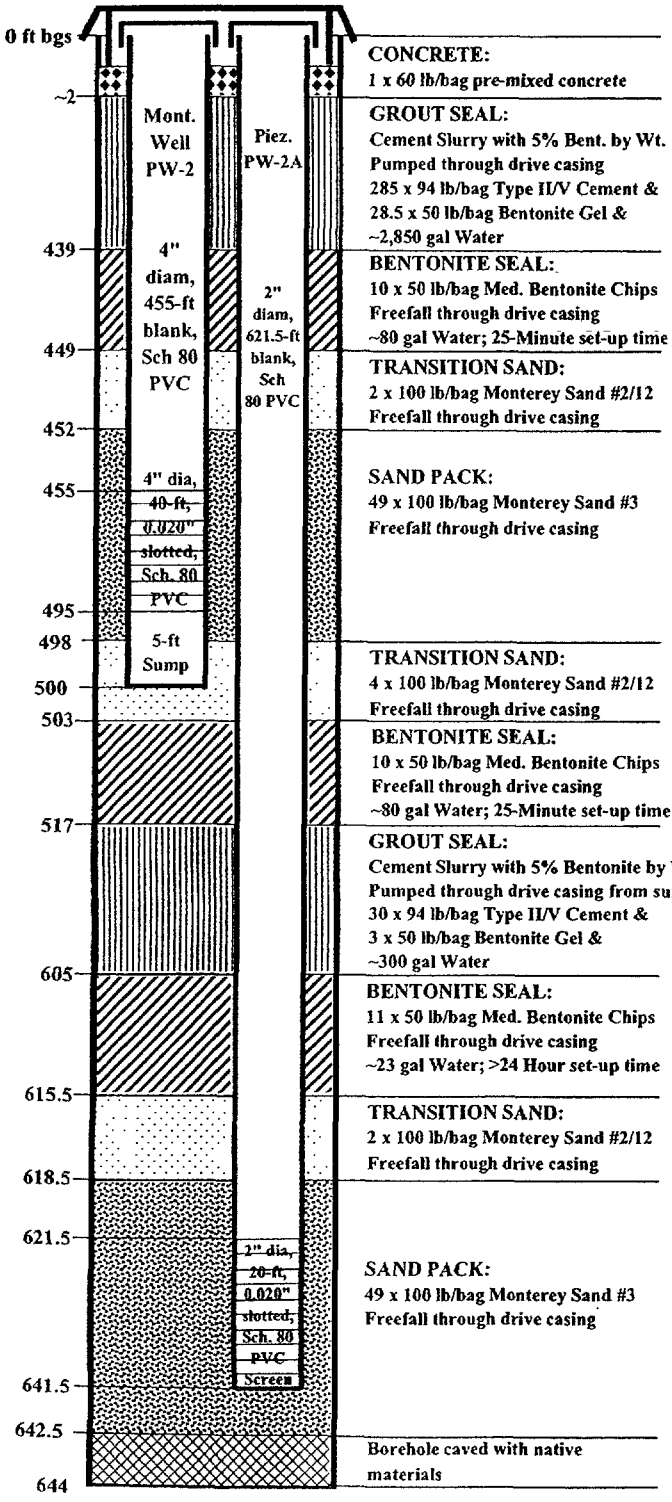
Boring ID: PW-2

Start Drill Date: 9 June 2004
Finish Drill Date: 1 July 2004
Location: West Lowell Street
Project: 160-Acre Parcel, Rialto, CA
Number: HA0816
Logger: PL
Reviewer: KA

Elevation Top of Casing: 1639.36 ft MSL
Vert Datum: NGVD-29; HVC-11 (Elev=1622.84)
Northing: 1878329.50
Easting: 6738651.87
Horiz Datum: NAD-83 Zone 5

BELOW GROUND SURFACE COMPLETION:

Well Box: Flush-Mounted, Traffic-Rated Steel
Protective Covers: Locking Well Caps



WELL DIAGRAM NOT TO SCALE

DRILLING SUMMARY:

Total Boring Depth: 644 ft bgs
Drilling Method: Air Rotary Casing Hammer
Drilling Fluid: Air / Injected Water (Municipal Hydrant)
Contractor: WDC Exploration & Wells
Drilling Rig: Peterbilt SpeedStar 30K

Telescoping Drive Casing Diameters:	*Tricone Drill Bit Diameters:*
13 3/8" to 199 ft bgs	12 1/4" to 199 ft bgs
11 3/4" to 595 ft bgs	10 5/8" to 597 ft bgs
9 5/8" to 642 ft bgs	8 1/2" to 644 ft bgs

WELL CONSTRUCTION DETAILS:

Well Construction Dates: 1 through 8 July 2004

MONITORING WELL PW-2:
Total Well Depth: 500 ft bgs
Well Development Date: 16 July 2004
Blank Well Casing: Virgin, factory-sealed, flush-threaded, 4"-diameter, Sch 80 PVC (from ground surface to 455 ft bgs)
Well Screen Interval: Virgin, factory-sealed, flush-threaded, 4"-diameter, 0.020" slotted, Sch 80 PVC (from 455 to 495 ft bgs)
Length of End Cap / Sump: 0.41 ft / 4.8 ft
Centralizers (2 total): Metal (directly above & below screen interval)

PIEZOMETER PW-2A:
Total Piezometer Depth: 641.5 ft bgs
Blank Well Casing: Virgin, factory-sealed, flush-threaded, 2"-diameter, Sch 80 PVC (from ground surface to 621.5 ft bgs)
Well Screen Interval: Virgin, factory-sealed, flush-threaded, 2"-diam, 0.020" slotted, Sch 80 PVC (from 621.5 to 641.5 ft bgs)
Length of End Cap: 0.63 ft
Centralizers (3 total): PVC with metal screws (directly above and below the screen interval and at 580 ft bgs)

TEMPORARY WELLS INSTALLED

Temporary Well ID	*Installation Date*	*Well Depth (ft bgs)*	*Screen Interval (ft bgs)*	*Approx. Static Water Level (ft bgs)*
PW-2-T01-468	14-Jun-04	468	458 - 468	462.54
PW-2-T02-496	15-Jun-04	496	491 - 496	462.50
PW-2-T03-520	16-Jun-04	520	515 - 520	498.79
PW-2-T04-587	23-Jun-04	587	577 - 587	572.22
PW-2-T05-640	29-Jun-04	640	635 - 640	621.49

DRIVE SOIL SAMPLES COLLECTED

Soil Sample ID	*Sampling Depth (ft bgs)*	*Sample Date*
PW-2-T03-522.5-GT	522.5	16-Jun-04
PW-2-552-GT	552	17-Jun-04
PW-2-T04-589-GT	589	22-Jun-04
PW-2-TO5-643.5-GT	643.5	12-Jul-04

NOTES:

On 15 July 2004, it was determined using a downhole camera that piezometer PW-2A was damaged during installation. Thus, the piezometer was not developed and a replacement piezometer (PW-2A) was subsequently installed in October 2004.

GeoSyntec Consultants
200 East Del Mar Boulevard, Suite 250
Pasadena, California 91105
Phone: (626) 449-0664

WELL CONSTRUCTION LOG

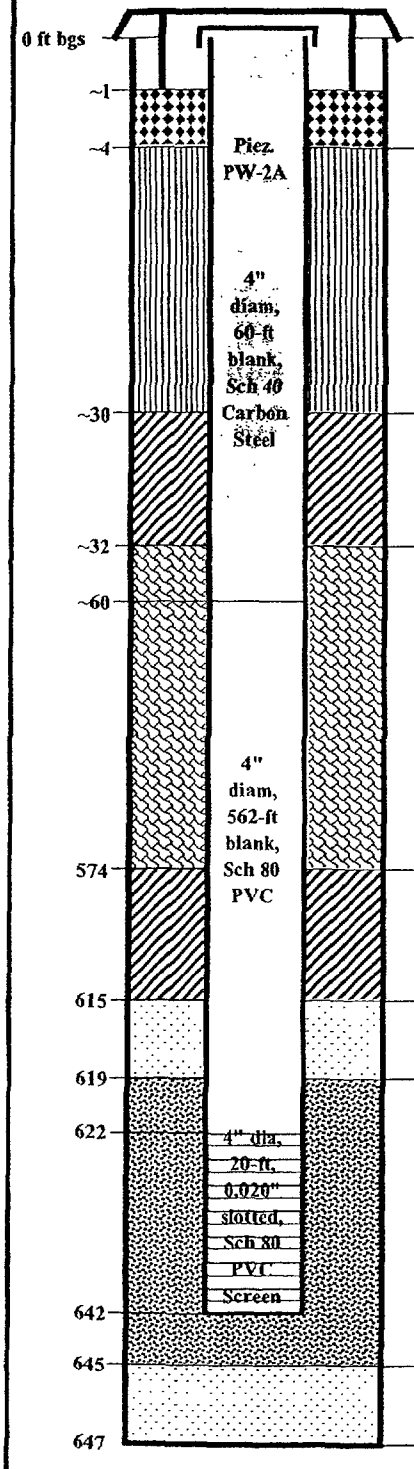
Boring ID: PW-2A

Start Drill Date: 7 October 2004
Finish Drill Date: 13 October 2004
Location: West Lowell Street
Project: 160-Acre Parcel, Rialto, CA
Number: HA0816
Logger: PL
Reviewer: KA

Elevation Top of Casing: 1639.58 ft MSL
Vert Datum: NGVD-29; HVC-11 (Elev=1622.84)
Northing: 1878329.54
Easting: 6738632.77
Horiz Datum: NAD-83 Zone 5

BELOW GROUND SURFACE COMPLETION:

Well Box: Flush-Mounted, Traffic-Rated Steel
Protective Cover: Locking Well Cap



CONCRETE / CEMENT
5 x 60 lb/bag pre-mixed concrete
4 x 94 lb/bag Type II/V California Portland Cement

GROUT SEAL:
Cement Slurry with
5% Bentonite by Weight
Pumped through drive casing from surface

10 x 94 lb/bag Type II/V California Portland Cement &
1 x 50 lb/bag Bentonite Gel &
~100 gal Water

BENTONITE SEAL:
2 x 50 lb/bag Medium Bentonite Chips
Freefall through drive casing
~10 gal Water
15-Minute set-up time

VOLCLAY GROUT SEAL:
130 x 50 lb/bag Volclay Grout
Pumped through drive casing from surface
~4,680 gal Water

BENTONITE SEAL:
40 x 50 lb/bag Medium Bentonite Chips
Freefall through drive casing
~157 gal Water
30-Minute set-up time

TRANSITION SAND:
2 X 100 lb/bag Monterey Sand #2/12
Freefall through drive casing

SAND PACK:
15 x 100 lb/bag Monterey Sand #3
Freefall through drive casing

TRANSITION SAND:
2 x 100 lb/bag Monterey Sand #2/12
Freefall through drive casing

WELL DIAGRAM NOT TO SCALE

DRILLING SUMMARY:

Total Boring Depth: 647 ft bgs
Drilling Method: Air Rotary Casing Hammer
Drilling Fluid: Air / Injected Water (Municipal Hydrant)
Contractor: WDC Exploration & Wells
Drilling Rig: Peterbilt SpeedStar 100K

Telescoping Drive Casing Diameters:
11 3/4" to 299 ft bgs
9 5/8" to 643 ft bgs
Tricone Drill Bit Diameters:
10 5/8" to 299 ft bgs
8 1/2" to 647 ft bgs

WELL CONSTRUCTION DETAILS FOR REPLACEMENT PIEZOMETER PW-2A:

Total Piezometer Depth: 642 ft bgs
Well Construction Dates: 13 through 16 October 2004
Well Development Date: 26 October 2004
Blank Well Casing: Virgin, flush-threaded, 4"-diam, Sch 40 carbon steel (from ground surface to 60 ft bgs); Virgin, factory-sealed, flush-threaded, 4"-diameter, Schedule 80 PVC (from 60 to 622 ft bgs)
Well Screen Interval: Virgin, factory-sealed, flush-threaded, 4"-diameter, 0.020" slotted, Sch 80 PVC (from 622 to 642 ft bgs)
Length of End Cap: 0.40 ft
Centralizers (2 total): Metal (directly above and below the screen interval)

NOTES:

On 15 July 2004, it was determined using a downhole camera that the original piezometer PW-2A was damaged during installation. Thus, this boring was drilled approximately 20 ft west of the original piezometer PW-2A location and this replacement piezometer (PW-2A) was subsequently installed.

GeoSyntec Consultants
200 East Del Mar Boulevard, Suite 250
Pasadena, California 91105
Phone: (626) 449-0664

WELL CONSTRUCTION LOG

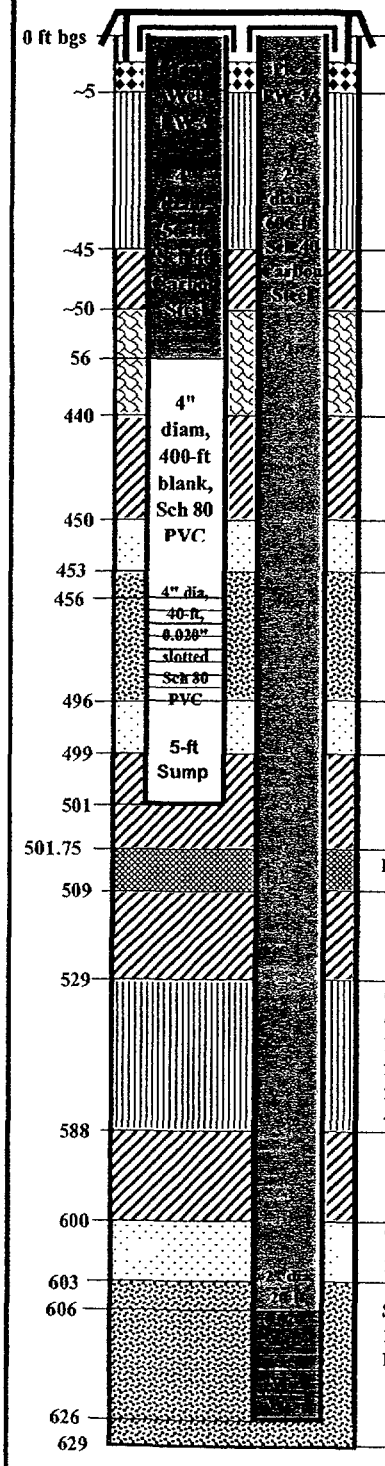
Boring ID: PW-3

Start Drill Date: 9 July 2004
Finish Drill Date: 26 July 2004
Location: North Locust Avenue
Project: 160-Acre Parcel, Rialto, CA
Number: HA0816
Logger: PL
Reviewer: KA

Elevation Top of Casings: 1611.81 ft MSL
Vert Datum: NGVD-29; HVC-11 (Elev=1622.84)
Northing: 1877913.40
Easting: 6740260.99
Horiz Datum: NAD-83 Zone 5

BELOW GROUND SURFACE COMPLETION:

Well Box: Flush-Mounted, Traffic-Rated Steel
Protective Covers: Locking Well Caps



CONCRETE:
1 x 60 lb/bag pre-mixed concrete

GROUT SEAL:
Cement Slurry with 5% Bent. by Wt.
Pumped through drive casing
35 x 94 lb/bag Type II/V Cement &
3.5 x 50 lb/bag Bentonite Gel &
~350 gal Water

BENTONITE SEAL:
6 x 50 lb/bag Medium Bentonite Chips

VOLCLAY GROUT SEAL:
77 x 50 lb/bag Volclay Grout
Pumped through drive casing
~2,850 gal Water

BENTONITE SEAL:
12 x 50 lb/bag Medium Bentonite Chips
Freefall through drive casing
~48 gal Water; 60-Minute set-up time

TRANSITION SAND:
3 x 100 lb/bag Monterey Sand #2/16

SAND PACK:
37 x 100 lb/bag Monterey Sand #3
Freefall through drive casing

TRANSITION SAND:
4 x 100 lb/bag Monterey Sand #2/16

BENTONITE SEAL:
3 x 50 lb/bag Medium Bentonite Chips
No water added due to existing grdwtr

Borehole caved with native materials

BENTONITE SEAL:
20 x 50 lb/bag Medium Bentonite Chips
No water added due to existing grdwtr

GROUT SEAL:
Cement Slurry with 5% Bent. by Weight
Pumped through drive casing from surface
20 x 94 lb/bag Type II/V Cement &
2 x 50 lb/bag Bentonite Gel &
~200 gal Water

BENTONITE SEAL:
12 x 50 lb/bag Medium Bentonite Chips
~80 gallons; 30-minute set-up time

TRANSITION SAND:
2 x 100 lb/bag Monterey Sand #2/16

SAND PACK:
19 x 100 lb/bag Monterey Sand #3
Freefall through drive casing

WELL DIAGRAM NOT TO SCALE

DRILLING SUMMARY:

Total Boring Depth: 629 ft bgs
Drilling Method: Air Rotary Casing Hammer
Drilling Fluid: Air / Injected Water (Municipal Hydrant)
Contractor: WDC Exploration & Wells
Drilling Rig: Peterbilt SpeedStar 30K

Telescoping Drive Casing Diameters:	*Tricone Drill Bit Diameters:*
13 3/8" to 199 ft bgs	12 1/4" to 199 ft bgs
11 3/4" to 500 ft bgs	10 5/8" to 500 ft bgs
9 5/8" to 627 ft bgs	8 1/2" to 629 ft bgs

WELL CONSTRUCTION DETAILS:

Well Construction Dates: 26 July through 2 August 2004

MONITORING WELL PW-3:
Total Well Depth: 501 ft bgs
Well Development Date: 5 and 6 August 2004
Blank Well Casing: Virgin, flush-threaded, 4"-diameter, Schedule 40 carbon steel (from ground surface to 56 ft bgs); Virgin, factory-sealed, flush-threaded, 4"-diameter, Schedule 80 PVC (from 56 to 456 ft bgs)
Well Screen Interval: Virgin, factory-sealed, flush-threaded, 4"-diam, 0.020" slotted, Sch 80 PVC (from 456 to 496 ft bgs)
Length of End Cap / Sump: 0.40 ft / 4.81 ft
Centralizers (3 total): Metal (directly above and below the screen interval and at 416 ft bgs)

PIEZOMETER PW-3A:
Total Piezometer Depth: 626 ft bgs
Blank Well Casing: Virgin, flush-threaded, 2"-diameter, Sch 40 carbon steel (from ground surface to 606 ft bgs)
Well Screen Interval: Virgin, 2"-diameter, stainless steel wire wrap with 0.020" slots (from 606 to 626 ft bgs)
Length of End Cap: 0.23 ft
Centralizers (2 total): PVC with metal screws (above and below the screen interval)

TEMPORARY WELLS INSTALLED

Temporary Well ID	*Installation Date*	*Well Depth (ft bgs)*	*Screen Interval (ft bgs)*	*Approx. Static Water Level (ft bgs)*
PW-3-TO1-466	13-Jul-04	466	461 - 466	450.71
PW-3-TO2-505	14-Jul-04	505	500 - 505	458.00
PW-3-TO3-545	16-Jul-04	545	540 - 545	512.50
PW-3-TO4-585	20-Jul-04	585	580 - 585	564.65
PW-3-TO5-615	22-Jul-04	615	610 - 615	590.95

DRIVE SOIL SAMPLES COLLECTED

Soil Sample ID	*Sampling Depth (ft bgs)*	*Sample Date*
PW-3-TO1-468.5-GT	468.5	13-Jul-04
PW-3-T03-548-GT	548	15-Jul-04

NOTES:

On 6 August 2004, it was discovered that piezometer PW-3A was damaged during installation and filter pack sand was inside the piezometer at a top depth of 606 ft bgs. Thus, the piezometer was not developed and was repaired in January 2005.

GeoSyntec Consultants
200 East Del Mar Boulevard, Suite 250
Pasadena, California 91105
Phone: (626) 449-0664

WELL CONSTRUCTION LOG

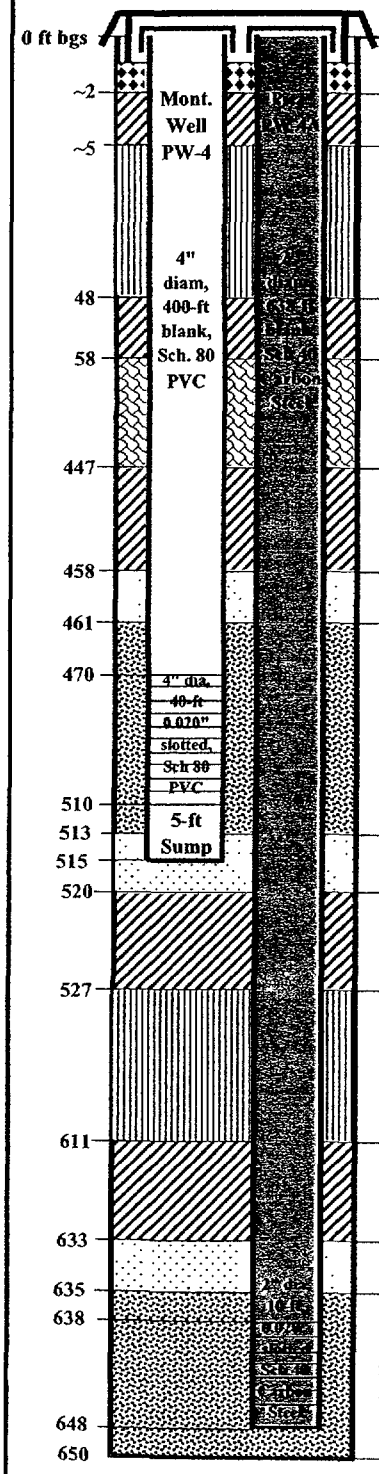
Boring ID: PW-4

Start Drill Date: 3 August 2004
Finish Drill Date: 11 September 2004
Location: North Locust Avenue
Project: 160-Acre Parcel, Rialto, CA
Number: HA0816
Logger: PL
Reviewer: KA

Elevation Top of Casings: 1626.56 ft MSL
Vert Datum: NGVD-29; HVC-11 (Elev=1622.84)
Northing: 1878655.92
Easting: 6740248.93
Horiz Datum: NAD-83 Zone 5

BELOW GROUND SURFACE COMPLETION:

Well Box: Flush-Mounted, Traffic-Rated Steel
Protective Covers: Locking Well Caps



CONCRETE:
3 x 60 lb/bag pre-mixed concrete

BENTONITE SEAL:
4 x 50 lb/bag Medium Bent. Chips

GROUT SEAL:
Cement Slurry with 5% Bent. by Wt.
Pumped through drive casing
35 x 94 lb/bag Type II/V Cement &
3.5 x 50 lb/bag Bentonite Gel &
~350 gal Water

BENTONITE SEAL:
10 x 50 lb/bag Medium Bent. Chips

VOLCLAY GROUT SEAL:
58 x 50 lb/bag Volclay Grout
Pumped through drive casing
~2,520 gal Water

BENTONITE SEAL:
8 x 50 lb/bag Medium Bentonite Chips
Flushed through 2" diam tremie pipe using drilling mud; >12 hr set-up time

TRANSITION SAND:
2.5 x 100 lb/bag Monterey Sand #2/16

SAND PACK:
24 x 100 lb/bag Monterey Sand #3
Flushed through 2" diameter tremie pipe using water

TRANSITION SAND:
3 x 100 lb/bag Monterey Sand #2/16

BENTONITE SEAL:
3 x 50 lb/bag Medium Bentonite Chips
Flushed through 2" diam tremie pipe using drilling mud; >30-min set-up time

GROUT SEAL:
Cement Slurry with 5% Bent. by Wt.
Pumped through 2" diam tremie pipe
35 x 94 lb/bag Type II/V Cement &
1.5 x 50 lb/bag Bentonite Gel &
~150 gal water

BENTONITE SEAL:
10 x 50 lb/bag Medium Bentonite Chips
Flushed through 2" diam tremie pipe using drilling mud; >30-min set-up time

TRANSITION SAND:
1.5 x 100 lb/bag Monterey Sand #2/16

SAND PACK:
9 x 100 lb/bag Monterey Sand #3
Flushed through 2" diameter tremie pipe using water

WELL DIAGRAM NOT TO SCALE

DRILLING SUMMARY:

Total Boring Depth: 650 ft bgs
Drilling Method: Air Rotary Casing Hammer*
Drilling Fluid: Air / Injected Water / Drilling Mud*
Contractor: WDC Exploration & Wells
Drilling Rig: Peterbilt SpeedStar 30K and 100K

Telescoping Drive Casing Diameters:	*Tricone Drill Bit Diameters:*
13 3/8" to 199 ft bgs	12 1/4" to 199 ft bgs
11 3/4" to 499 ft bgs	10 5/8" to 499 ft bgs
9 5/8" to 516 ft bgs	8 1/2" to 650 ft bgs

WELL CONSTRUCTION DETAILS:

Well Construction Dates: 13 through 18 September 2004

MONITORING WELL PW-4:
Total Well Depth: 515 ft bgs
Well Development Date: 28 September 2004
Blank Well Casing: Virgin, factory-sealed, flush-threaded, 4"-diam, Sch 80 PVC (from ground surface to 470 ft bgs);
Well Screen Interval: Virgin, factory-sealed, flush-threaded, 4"-diam, 0.020" slotted, Sch 80 PVC (from 470 to 510 ft bgs)
Length of End Cap / Sump: 0.40 ft / 5.01 ft
Centralizers (2 total): PVC with metal screws (directly above and below the screen interval)

PIEZOMETER PW-4A:
Total Piezometer Depth: 648 ft bgs
Blank Well Casing: Virgin, flush-threaded, 2"-diameter, Sch 40 carbon steel (from ground surface to 638 ft bgs)
Well Screen Interval: Virgin, 2"-diameter, 0.020" slotted, Sch 40 carbon steel (from 638 to 648 ft bgs)
Length of End Cap: None (bottom of well welded closed)
Centralizers (2 total): PVC with metal screws (above and below the screen interval)

TEMPORARY WELLS INSTALLED

Temporary Well ID	*Installation Date*	*Well Depth (ft bgs)*	*Screen Interval (ft bgs)*	*Approx. Static Water Level (ft bgs)*
PW-4-TO1-485	12-Aug-04	485	480 - 485	460.3
PW-4-TO2-525	13-Aug-04	525	520 - 525	464.42
PW-4-TO3-575	16-Aug-04	575	570 - 575	566.10
PW-4-TO4-617.5	19-Aug-04	617.5	612.5 - 617.5	615.55
PW-4-TO5-625	23-Aug-04	625	620 - 625	567.90
PW-4-TO6-647.5	26-Aug-04	647.5	642.5 - 647.5	615.50

DRIVE SOIL SAMPLES COLLECTED

Soil Sample ID	*Sampling Depth (ft bgs)*	*Sample Date*
PW-4-TO1-487.5-GT	487.5	12-Aug-04
PW-4-TO2-527.5-GT	527.5	13-Aug-04
PW-4-601.5-GT	601.5	18-Aug-04

NOTES: *The initial drilling to a depth of 648 ft bgs was completed in August 2004 using ARCH drilling techniques. However, during installation of the permanent wells, technical difficulties, including significant caving of the formation, as well as mechanical problems with the drilling rig were encountered. While drilling out the caved materials and reestablishing the borehole to depth, refusal was encountered at a depth of ~617 ft bgs. As a result, mud rotary drilling techniques were employed to re-install the permanent wells.

Appendices D - K

UNSCANNABLE MEDIA

To use the unscannable media document(s),
contact the Superfund Records Center.

(Document # 2056837)

Unscannable media - parent

Please Refer to the Enclosed CD

APPENDIX D
Well Development Logs

APPENDIX E
Monitoring Well Purge Logs

APPENDIX F
Laboratory Data Reports – Soil Gas Investigation

APPENDIX G
Laboratory Data Reports – Soil Investigation

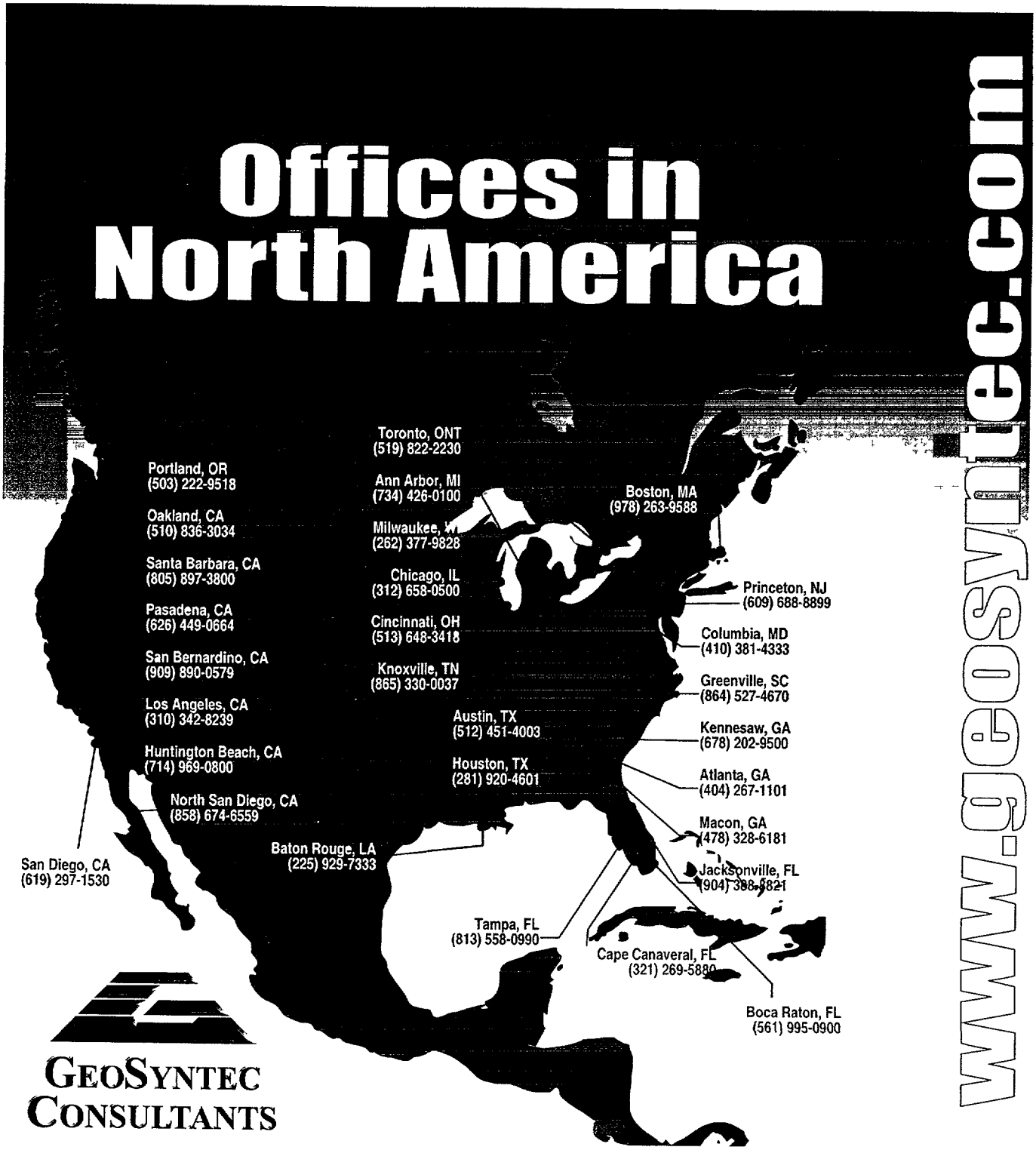
APPENDIX H
Laboratory Data Reports –
Temporary Groundwater Well Investigation

APPENDIX I
Laboratory Data Reports –
Permanent Groundwater Well Investigation

APPENDIX J
Laboratory Data Reports – Soil Physical Properties

APPPENDIX K
Data Validation Reports

Offices in North America



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