SECOR
International Incorporated

GROUNDWATER MONITORING WELL INSTALLATION REPORT

575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

Jun 2001

Job No. 007.03814

Submitted by
SECOR International Incorporated
1390 Willow Pass Road, Suite 360
Concord, California

Prepared For
David D. Bohannon Organization
60 Hillsdale Mall
San Mateo, California

June 29, 2001

Prepared by:

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Principal Hydrogeologist

REGISTERED GEOL... THOMAS W. CROSBY NO. HG 257 CERTIFIED HYDROGEOLOGIST Expires 5/31/03 STATE OF CALIF...

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1.0 INTRODUCTION

This report describes the results of the installation of four additional groundwater monitoring wells and of soil and groundwater sampling at the David D. Bohannon Organization site located at 575 Paseo Grande in San Lorenzo, California (Figure 1). The purpose of the work was to evaluate possible off-site migration of subsurface impacts originating from the site and to collect data that was used to direct further subsurface investigations, and/or remediation at the Site, if necessary. The work was conducted in general accordance with the "Work Plan for Additional Groundwater Monitoring Well Installation" dated October 22, 1999 (Work Plan) and the "Addendum to the Work Plan for Additional Groundwater Monitoring Well Installation" dated December 2, 1999 (Addendum). The Work Plan was approved with comments in correspondence from the Alameda County Health Care Services Agency (ACHCSA) in a letter dated November 4, 1999. The Addendum was submitted to address the ACHCSA comments and the work was subsequently performed assuming approval.

2.0 WELL INSTALLATION SCOPE OF WORK

The scope of work included permitting for the installation of four shallow groundwater monitoring wells, collecting soil and groundwater samples for laboratory analysis, and surveying the new wells to establish groundwater elevation relative to mean sea level. All work was performed in accordance with the site-specific health and safety plan in compliance with Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1910.120. Work was conducted under the supervision of a California Registered Geologist.

The objectives of the investigation were to:

- Assess if TPHg, BTEX and lead impacts detected at the Site had impacted soil and/or groundwater off-site.

- Collect hydrogeologic data that will help direct further subsurface investigation, and/or remediation at the Site, if necessary.

A description of each of the steps performed is presented below.

2.1 PERMITING

The four borings were drilled in the street at the locations shown on Figure 1. Well permit applications were submitted to, and approval received from, the Alameda County Water District, Zone 7 and encroachment permit applications were submitted to, and approval received from, the Alameda County Department of Public Works. Photocopies of the approved permits are included as Appendix A.

2.2 UTILITY CLEARANCE

The four borings were drilled in the street at the locations shown on Figure 2. Prior to drilling, a utility locator located utilities in the vicinity of the proposed drilling locations. In addition, Underground Service Alert (USA) was notified at least 48 hours prior to drilling.

2.3 DRILLING, SOIL SAMPLING AND WELL INSTALLATION

A total of four soil borings were drilled at the locations shown on Figure 2 on October 2 and 3, 2000. Soil borings were drilled using a truck-mounted drill rig equipped with 7.5-inch outside diameter hollow stem augers to a depth of approximately 15-feet below ground surface (bgs). Soil samples were collected from the borings continuously, using a 1.5-foot long by 2-inch diameter split-spoon sampler lined with brass sample sleeves. The cores were logged in the field by a SECOR geologist in accordance with the Unified Soil Classification System (USCS) to produce an accurate lithologic and stratigraphic profile. The soil samples were field screened for volatile organic compounds using a photo-ionization detector (PID) equipped with a 10.2 eV lamp and the PID readings were incorporated into the final boring logs.

Selected soil samples were retained in the brass tubes and sealed with Teflon™ tape and plastic caps. The samples were selected based on field observations of PID readings, staining and proximity to groundwater. At a minimum, the sample collected immediately above the saturated/unsaturated interface from each boring was retained for laboratory analysis. Soil samples were labeled with the appropriate borehole information, time and date of collection, and placed on ice for subsequent transport and analysis at a state-certified analytical laboratory. Chain-of-custody procedures were followed at all times. A total of 5 soil samples were selected for analysis of total petroleum hydrocarbons-as-gasoline (TPHg) using modified U.S. Environmental Protection Agency (EPA) Method 8015 and for benzene, toluene, ethyl-benzene and total xylenes (BTEX) using EPA Method 8020. Soil samples collected from the saturated portion of two of the proposed bore holes were also analyzed for total organic carbon (TOC) by EPA Method 9060 and effective porosity by API Method RP 40 for potential use in future risk analysis work.

In order to identify potential confined aquifer conditions, groundwater in the open boreholes was monitored for a minimum of one hour prior to well construction. Depth to groundwater measurements were then compared to the first encountered water level discovered during drilling. After one hour, the equilibrated water level was within one foot of the first encountered water depth. Water level monitoring conducted on October 13, 2000 showed that groundwater has subsequently risen to greater than one foot, however, the levels remained below the top of the screened interval in the wells.

Based on the initial water level monitoring, groundwater monitoring wells (MW-4 through MW-7) were constructed using 10-feet of 2-inch diameter poly-vinyl-chloride (PVC) 0.020-inch slot well screen installed to

the bottom of the borehole, and blank PVC casing to the surface. A filter pack consisting of #2/12 Lonestar sand was placed around the well screen and extends at least 1-feet above the well screen. A minimum 1-foot thick hydrated bentonite seal was installed above the filter pack and the remainder of the annulus was backfilled to just below surface grade with cement/bentonite slurry. Monitoring wells were completed at surface grade with water tight locking caps and traffic rated street boxes set in concrete. Boring logs with as-built well construction details are included in Appendix B.

Soil and debris generated during drilling was contained in drums pending proper disposal. Between borings, down hole drilling equipment and sampling equipment was either steam-cleaned or washed with a laboratory grade detergent in water followed by a triple rinse with clean water. Decontamination rinsate was collected and placed into drums and stored on-site pending proper disposal.

2.4 WELL DEVELOPMENT AND SURVEYING

On October 13, 2000, the new wells were developed by hand using a surge block in the screened portion of the wells and a bailer to purge the sediment-laden water. Development continued until the one well volume was removed. The volume, temperature, pH, and conductivity of the purged water were recorded during well development. Water generated during well development activities was contained in drums and placed on-site pending proper disposal. Copies of the field data sheets for well development are included in Appendix C.

A California licensed surveyor was contracted to provide horizontal control (relative to mean sea level) and lateral control to within 0.01 feet for the new wells. The survey data was used to calculate the groundwater elevation and flow direction. A copy of the surveyors report is included as Appendix E.

Groundwater samples were first collected from the four new wells as part of the site quarterly monitoring event on December 5, 2000. Details of the December 2000 monitoring event are presented in Sections 3 and 4.

3.0 QUARTERLY MONITORING AND SAMPLING

Quarterly groundwater monitoring and sampling activities were conducted at the Site on December 5, 2000. The seven on-site monitor wells (MW-1 through MW-7) were gauged for depth-to-water and sampled. Each of the wells were purged using a low flow purging method consisting of a dedicated tubing attached to a variable speed peristaltic pump set to pump at less than 0.5 liters per minute. During purging, temperature, conductivity, pH, and dissolved oxygen were continuously measured using an in-line flow-through cell. Samples were collected from each well using dedicated tubing so that the possibility of cross contamination is eliminated. Copies of the field data sheets are presented in Appendix D. The groundwater samples were submitted to Chromalab, Inc., a California state-certified laboratory, and analyzed for TPHg by U.S. Environmental Protection Agency (EPA) Methods 8015 (modified); and for BTEX by EPA Method 8020. Groundwater samples collected from the newly installed wells were additionally analyzed for lead by EPA Method 6010B.

4.0 RESULTS

4.1 GEOLOGY/HYDROGEOLOGY

The subsurface geology and hydrogeology discovered in the newly drilled boreholes was similar to that of previous borings drilled at the Site. Each boring first penetrated asphalt and base-rock to a depth of less than 1-foot. The subsurface geology observed during this investigation consists of dark grayish brown clayey sand that extends to a depth of 2- to 5-feet bgs. The clayey sand was underlain by approximately 1-foot of clean sand fill in the boring for MW-6. A very dark gray to olive brown silty clay underlay the upper clayey sand in all boreholes to a depth ranging from 11.5- to 13-feet bgs. The silty clay was underlain by 0.5- to 2.5-feet of clayey sand followed by sandy clay to the total depth explored in the borings for MW-5, MW-6 and MW-7. The silty clay was underlain by sandy silt to the depth explored in the boring for MW-4.

Groundwater was encountered in each of the borings at the base of the silty clay unit at depths ranging from 11.5- to 13-feet bgs. Water level monitoring performed in the open boreholes prior to well construction indicated that the water levels in the wells did not rise more than one foot in one hour. However, subsequent depth to water measurements made during the quarterly monitoring and sampling event showed that the groundwater elevation had risen to approximately 5.6- to 6.4-feet bgs, suggesting at least partly confined conditions in the aquifer. Boring logs with as-built well construction details are included as Appendix B.

4.2 SOIL SAMPLE ANALYTICAL RESULTS

Table 1 presents a summary of soil sample analytical results for samples collected during this investigation. A total of 5 soil samples were submitted for analysis of TPHg and BTEX. No benzene, toluene, ethylbenzene or xylenes were detected in the samples analyzed. TPHg range hydrocarbons were detected at 93 milligrams per kilogram in the sample collected from the boring for MW-4 at a depth of 10-feet bgs. No other TPHg range hydrocarbons were detected in the samples analyzed.

Two soil samples were analyzed for effective porosity and for total organic carbon (TOC). The samples were selected as typical aquifer material from the saturated soils in MW-4 and MW-5. Analytical results show that the effective porosity ranged from 28.7 to 32.2 percent bulk density and the TOC ranged from 580 to 1400 mg/kg. Photocopies of the laboratory analytical reports for soil samples are included in Appendix F.

4.3 GROUNDWATER ELEVATION MONITORING RESULTS

Table 2 presents a summary of groundwater elevation monitoring for the December 5, 2000, monitoring event and includes historical data for comparison. Depth to water at the site was an average of 6.49-feet bgs with an average groundwater elevation of 19.53-feet above msl. The groundwater monitoring data were used to construct the potentiometric surface map shown as Figure 3. The map depicts a groundwater flow direction generally toward the west with a slight northwest component between the on-site wells (MW-1 to MW-3) and off-site well MW-7 and a slight southwest component between the on-site wells and MW-5. The groundwater gradient as calculated between MW-1 and MW-7 is approximately 0.002 feet per foot. The groundwater flow direction and gradient are consistent with previous results for the site.

4.4 GROUNDWATER ANALYTICAL RESULTS

Table 3 presents a summary of groundwater sample analysis for the December 5, 2000 sampling event and historical data for comparison. In general the results indicate that three of the seven wells are impacted with significant levels of petroleum hydrocarbons. The impacted wells are MW-2, MW-3 and MW-4 and from a cluster centered at the southwest corner of the site. Specifically, TPHg is present in MW-2 at 800 milligrams per liter (µg/L); in MW-3 at 5400 µg/L; and in MW-4 at 3900 µg/L. Benzene was present in these same wells and ranged from 75 µg/L in MW-2 to 790 µg/L in MW-3. Dissolved lead analyses were performed on groundwater samples collected from the new wells only. No dissolved lead was detected in the samples. Wells MW-1, MW-5 and MW-6 did not contain detectable concentrations of any analytes. Well MW-7 contained only 1.5 µg/L xylenes. Copies of the laboratory analytical reports for groundwater samples are included in Appendix G.

TABLES

Table 1
Soil Sample Analytical Data
October 2-3, 2000
575 Paseo Grande
San Lorenzo, California

Sample		TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes
Name	Depth	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW-4 @ 5'	5-5.5 ft bgs	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-4 @ 10'	10-10.5 ft bgs	93	ND<0.62	ND<0.62	ND<0.62	ND<0.62
MW-5 @ 10'	10-10.5 ft bgs	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-6 @ 10'	10-10.5 ft bgs	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-7 @ 10'	10-10.5 ft bgs	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

Notes:
TPHg = Total petroleum hydrocarbons quantified as gasoline
mg/kg = Milligrams per kilograms
ND<= Not detected above the laboratory detection limits shown

Table 2
Groundwater Elevation Data
575 Paseo Grande
San Lorenzo, California

Date	TOC (ft msl)	DTW (ft bTOC)	ELEV (ft msl)
MW-1			
17-May-96	27.11	5.65	21.46
8-Oct-96		7.47	19.64
1-Apr-97		6.27	20.84
12-Jun-97		6.90	20.21
10-Sep-97		7.48	19.63
8-Jun-99		6.44	20.67
13-Sep-99		7.56	19.55
21-Dec-99		7.41	19.70
17-Mar-00		5.35	21.76
5-Dec-00	26.98	6.99	19.99
MW-2			
17-May-96	26.73	5.56	21.17
8-Oct-96		7.15	19.58
1-Apr-97		6.61	20.12
12-Jun-97		6.76	19.97
10-Sep-97		7.19	19.54
8-Jun-99		6.45	20.28
13-Sep-99		7.46	19.27
21-Dec-99		7.26	19.47
17-Mar-00		5.56	21.17
5-Dec-00	26.73	7.01	19.72
MW-3			
17-May-96	26.15	4.39	21.76
8-Oct-96		6.82	19.33
1-Apr-97		5.53	20.62
12-Jun-97		6.18	19.97
10-Sep-97		6.81	19.34
8-Jun-99		5.74	20.41
13-Sep-99		6.88	19.27
21-Dec-99		6.66	19.49
17-Mar-00		4.51	21.64
5-Dec-00	26.55	6.84	19.71
MW-4			
5-Dec-00	25.87	6.28	19.59
MW-5			
5-Dec-00	25.77	6.25	19.52
MW-6			
5-Dec-00	24.89	5.68	19.21
MW-7			
5-Dec-00	25.43	6.43	19.00

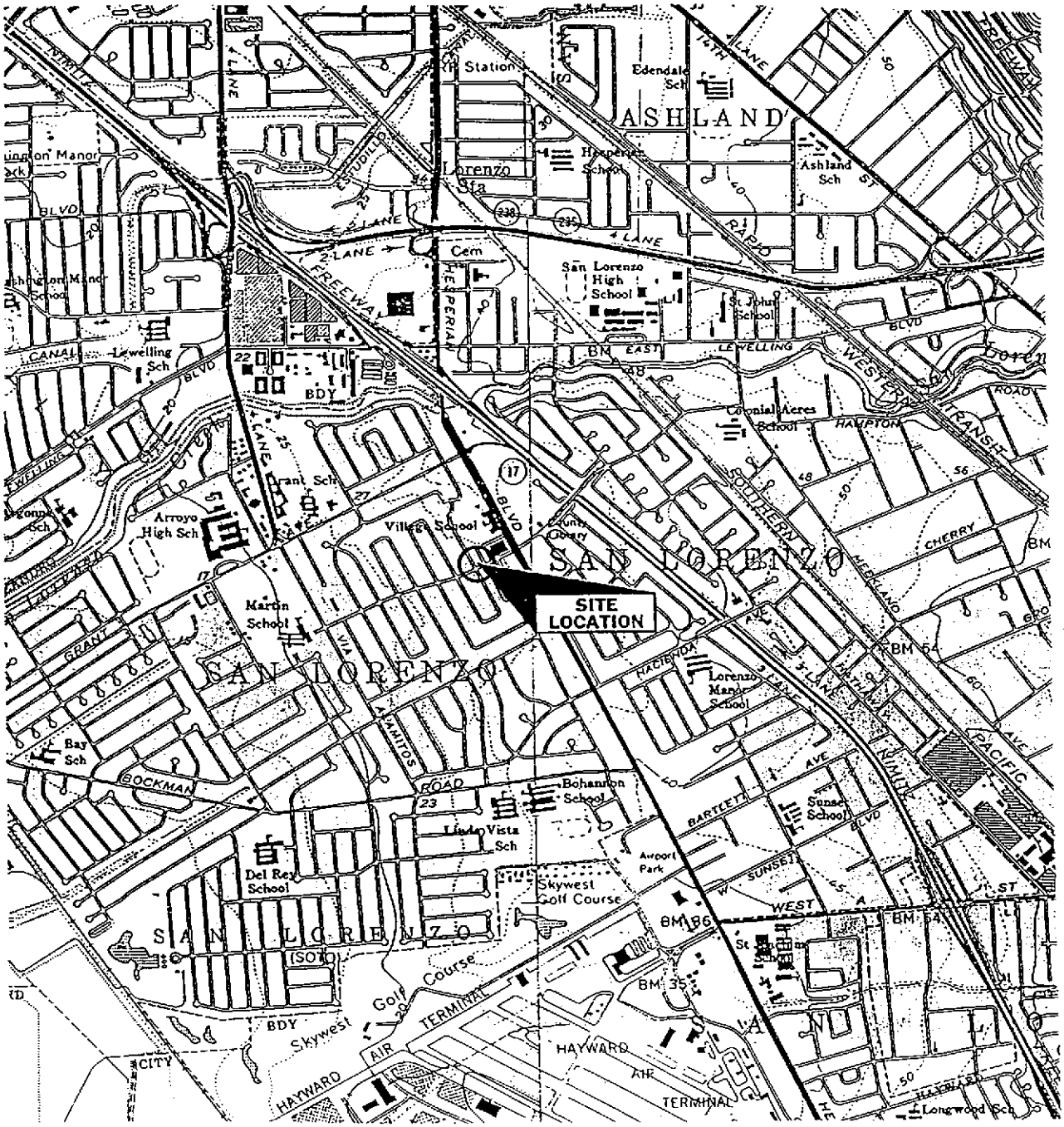
Notes:
TOC = Top of well casing
DTW = Depth to Water
ELEV = Water table elevation above MSL
ft msl = Feet above mean sea level
ft bTOC = Feet below top of casing

Table 3
Groundwater Analytical Results
575 Paseo Grande
San Lorenzo, California

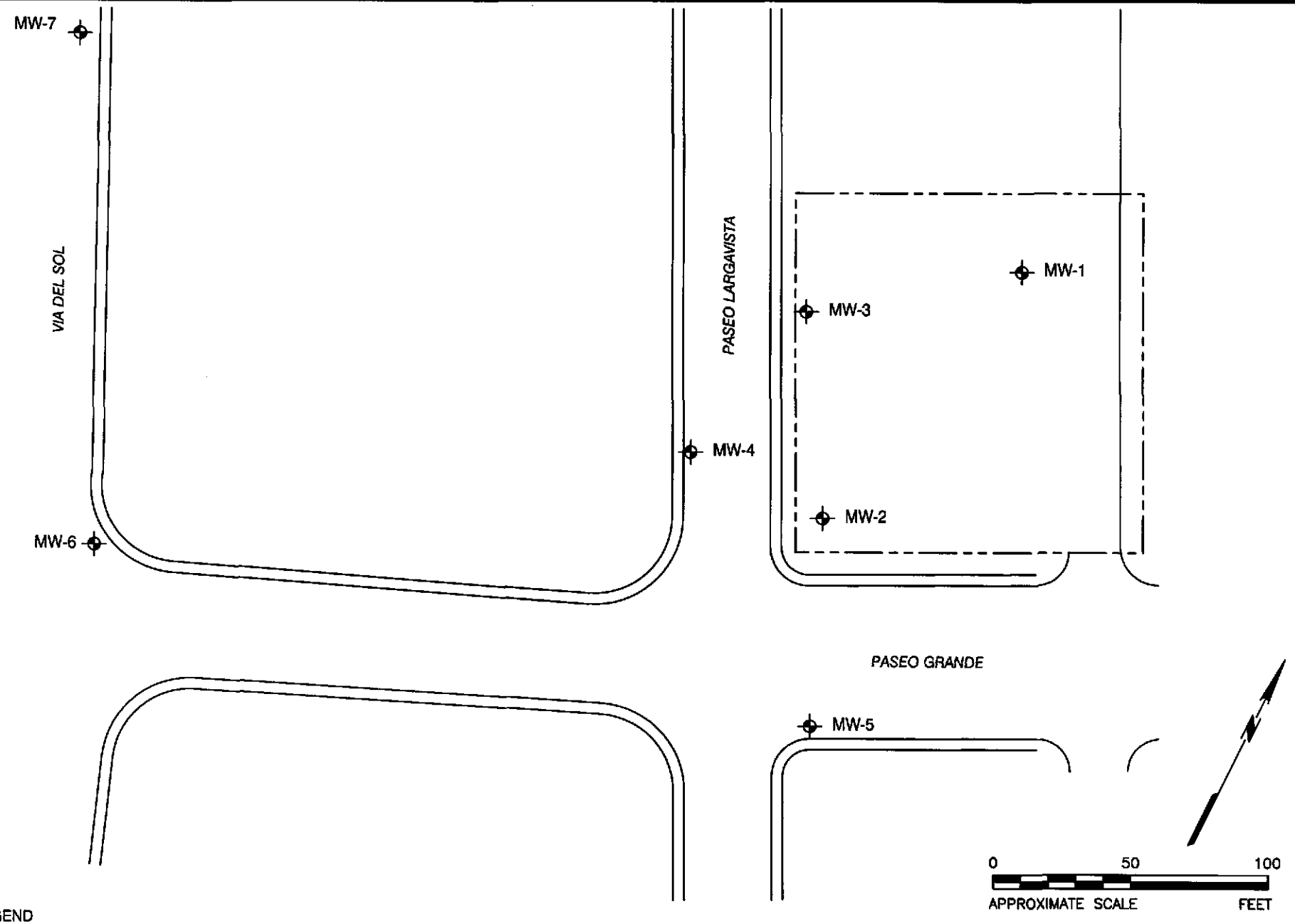
	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Chromium (ug/L)	Lead (ug/L)
MW-1								
17-May-96	1100	ND (<0.5)	8.7	7.4	17	NA	ND (<10)	ND (<50)
8-Oct-96	120	ND (<0.5)	ND (<0.5)	2.7	ND (<0.5)	NA	NA	NA
1-Apr-97	550	ND (<0.5)	ND (<0.5)	7.6	6.6	NA	NA	NA
12-Jun-97	160	ND (<0.5)	ND (<0.5)	2.9	1.7	NA	NA	NA
10-Sep-97	640	2.2[P]	3.8[P]	7.4[P]	16[P]	NA	NA	NA
8-Jun-99	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<10)	ND (<10)	ND (<20)
21-Dec-99	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	1.1	NA	NA	ND (<5.0)
13-Sep-99	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	NA	NA
17-Mar-00	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	0.79	ND (<5)	NA	ND (<5.0)
5-Dec-00	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	NA	NA
MW-2								
17-May-96	23000	900	330	650	1500	NA	ND (<10)	ND (<50)
8-Oct-96	8400	530	ND (<50)	400	360	NA	NA	NA
1-Apr-97	7600	470	64	210	250	NA	NA	NA
12-Jun-97	8200	440	52	190	190	NA	NA	NA
10-Sep-97	8500	390	51[P]	220	240	NA	NA	NA
8-Jun-99	2100	240	8	33	40	ND (<10)	ND (<10)	33
13-Sep-99	1300	120	ND (<5.0)	ND (<5.0)	15	NA	NA	NA
21-Dec-99	1400	110	5.6	11	17	NA	NA	ND (<5.0)
17-Mar-00	1200	180	19	28	31	ND (<50)	NA	ND (<5.0)
5-Dec-00	800	75	1.8	11	14	NA	NA	NA
MW-3								
17-May-96	6700	140	45	210	180	NA	ND (<10)	ND (<50)
8-Oct-96	1800	2700	240	910	970	NA	NA	NA
1-Apr-97	27000	520	50	520	450	NA	NA	NA
12-Jun-97	29000	2700	160	940	500	NA	NA	NA
10-Sep-97	290000	1800	3200	2800[P]	6900[P]	NA	NA	NA
8-Jun-99	1700	320	6.4	15	ND (<0.5)	ND (<10)	ND (<10)	24
13-Sep-99	5400	1000	ND (<20)	ND (<20)	ND (<20)	NA	NA	NA
21-Dec-99	8800	1400	63	17	23	NA	NA	ND (<5.0)
17-Mar-00	1500	190	ND (<5)	7.6	ND (<5)	ND (<50)	NA	ND (<5.0)
5-Dec-00	5400	790	20	7.4	10	NA	NA	NA
MW-4								
5-Dec-00	3800	320	13	41	31	NA	NA	ND (<5.0)
MW-5								
5-Dec-00	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	NA	ND (<5.0)
MW-6								
5-Dec-00	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA	NA	ND (<5.0)
MW-7								
5-Dec-00	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	1.5	NA	NA	ND (<5.0)

Notes:
TPHg = Total petroleum hydrocarbons quantified as gasoline
ug/L = Micrograms per liter
ND = Below laboratory detection limits (detection limit indicated in parentheses)
[P] The laboratory noted that there was a greater than 25% difference in results between the two GC columns.
NA = Not analyzed

SAN LEANDRO AND HAYWARD QUADRANGLE
California
7.5 Minute Series (Topographic)



DRAFTED BY: JLH	CHECKED BY: SM	PROJECT NO. 70074-001	FIGURE 1	*SECOR* 1390 Willow Pass Road Suite 360 Concord, CA 94520
DWG. DATE: 06-16-95	REV. DATE:	Bohannon Development Northeast corner of Paseo Grande and Paseo Largavista San Lorenzo, California	Site Location Map	
FILE NAME: slorenz.f01				



LEGEND

MW-6 EXISTING WELL LOCATION

APPROXIMATE PROPERTY LINE

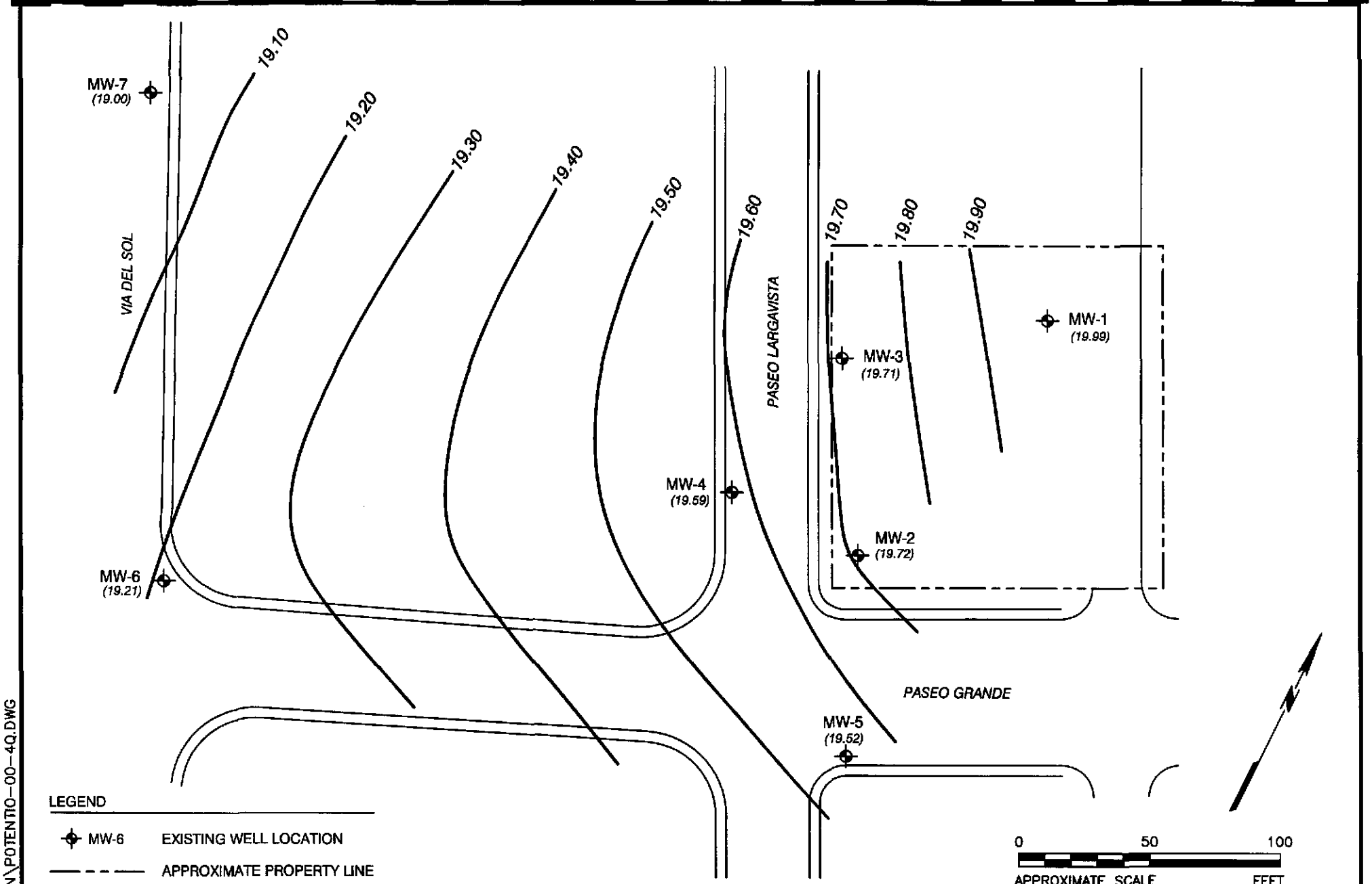
SECOR
International
Incorporated

DRAWN	PR
APPR	BR
DATE	21MAY2001
JOB NO.	007.03814.006

FIGURE 2

DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA
SITE PLAN

M: ACAD\BOHANNON\SITEPLAN.DWG



M:\ACAD\BOHANNON\POTENTIO-00-4Q.DWG

SECOR International Incorporated

DRAWN	PR
APPR	BR
DATE	21MAY2001
JOB NO.	007.03814.006

FIGURE 3

DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

POTENTIOMETRIC SURFACE
DECEMBER 5, 2000

APPENDIX A

Well and Encroachment Permits

Work Order (WO)* Number:
*This WO is ___ / is not ___ open for charges.

Permit Number:
Permit Issuance Date:
Permit Expiration Date:

COUNTY OF ALAMEDA PUBLIC WORKS AGENCY

399 Elmhurst St., Hayward, CA 94544 - Phone: (510)670-5429 - Fax: (510)293-0960

ROADWAY ENCROACHMENT PERMIT

This Permit is issued in accordance with Chapter 12.08 of the Alameda County Ordinance Code

Name & Address of Property Owner:
Bohannon Development Co.
Sixty 31st Avenue
San Mateo, CA 94403
Phone Number:

Name & Address of Contractor:
Gregg Drilling & Testing, Inc.
950 Howe Rd
Martinez, CA 94553
Phone Number: (925)313-5800

Job Site Address:
575 Paseo Grande
San Lorenzo, CA 94580

(This statement to be completed by the Agency)
This permit is issued to the owner __ / contractor __; if "owner" is checked, he/she is __ / is not __ exempt from the requirement that work in the roadway be performed by a licensed contractor.

The Applicant intends to perform the following work scope:

Install four monitoring wells, to a maximum depth of 20ft, in the Public right-of-way. The wells will be installed using a Limited access rig.

Licensed Contractor Declaration:

I hereby affirm, under penalty of perjury, that I hold the following contractor's license, which is in full force and effect, under the applicable provisions of the State Business and Professions Code.

License Class and No. 485465 (C57)

Contractor's Signature: Christopher Palmer

Worker's Compensation Insurance Declaration:

I hereby affirm, under penalty of perjury, that I will, during the performance of any and all work authorized by this permit, satisfy the requirements of the State Labor Code with regard to Worker's Compensation Insurance, as declared below:

___ I will maintain a certificate of consent to self-insure.

X I will maintain the following insurance policy:
Carrier's Name and Policy No.: 450000245 Eagle

___ I will not employ any person in any manner so as to become subject to the worker's compensation laws of the State.

Owner's/Contractor's Signature: Christopher Palmer

All work and/or access shall be performed in accordance with the requirements of Chapter 12.08 and, unless otherwise specified below, shall be fully compliant with each of the terms and conditions of the attached General Provisions:

Bond Information:	Insp. Fee ___ or Deposit ___:
BY: _____, Alameda County	Work Completed (Date): _____ Inspector:

I certify that the information that I have entered into this permit application is correct, and I agree to comply with all of the terms and conditions and other requirements of the issued Permit.

Signature of Applicant _____ Date 24 Aug 00

"If [illegible] the Inspection Office listed on the back of this form

(SAMPLE INDEMNIFICATION STATEMENT FOR MONITORING WELLS IN A PUBLIC ROADWAY)

(leave blank)

HOLD HARMLESS AND INDEMNIFICATION

David D. Bohannon Org., a corporation chartered in the State of California, as owner of the certain real property commonly known as 575 Paseo Grande San Lorenzo Ca. County Assessor's Number 412-31-92-, do hereby indemnify and hold harmless the Alameda County Public Works Agency and the County of Alameda, and the officers, agents, employees, representatives, and/or successors of said bodies from any and all claims, loss, damage, injury or liability of every kind, nature and description, directly or indirectly arising from the installation, operation, maintenance, repair, abandonment or removal of 4 monitoring well(s) located within the County's right-of-way at Paseo Largavista + Via Del Sol.

IN WITNESS WHEREOF, this Hold Harmless and Indemnification is duly executed on September 18, 2000.

(notary seal and acknowledgement)

Signed David D. Bohannon

Title Senior Vice President

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of CALIFORNIA

County of SAN MATEO

On September 19, 2000 (Date) before me, Diane Bravo, Notary Public (Name and Title of Officer (e.g., "Jane Doe, Notary Public"))

personally appeared Scott Bohannon (Name(s) of Signer(s))

☒ personally known to me – ~~OR~~ – ☐ ~~proved to me on the basis of satisfactory evidence~~ to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

DIANE BRAVO
Commission # 1226639
Notary Public - California
San Mateo County
My Comm. Expires Jul 25, 2003

WITNESS my hand and official seal.

Diane Bravo
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Hold Harmless and Indemnification re APN 412-31-92 575 Paseo Grande and Paseo Largavista & Via Del Sol, San Lorenzo, CA

Document Date: September 18, 2000 Number of Pages: 2

Signer(s) Other Than Named Above: None

Capacity(ies) Claimed by Signer(s)

Signer's Name: Scott Bohannon

☐ Individual
☒ Corporate Officer
Title(s): Senior Vice President
☐ Partner — ☐ Limited ☐ General
☐ Attorney-in-Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing:

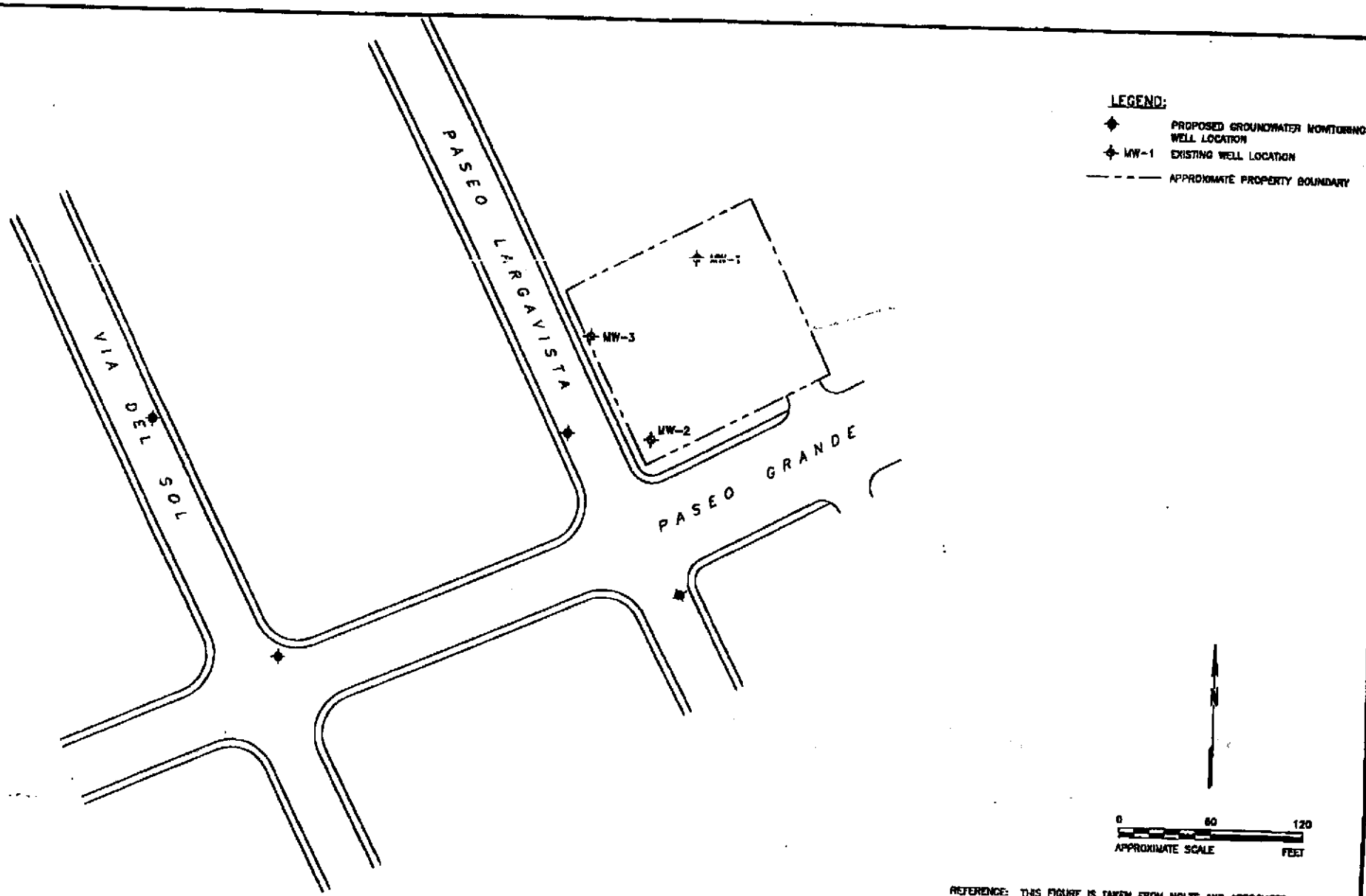
David D. Bohannon Organization

Signer's Name: _____

☐ Individual
☐ Corporate Officer
Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney-in-Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer Is Representing:



REFERENCE: THIS FIGURE IS TAKEN FROM MOLTE AND ASSOCIATES, INC. AND IS INTENDED FOR ILLUSTRATION ONLY.

SECOR International Incorporated

DRAWN	TJZ
APP'D	NH/GH
DATE	20AUG99
JOB NO.	007.03814.001

FIGURE 2
DAVID D. BOHANNON ORGANIZATION
378 PASEO GRANDE
SAN LORENZO, CALIFORNIA
PROPOSED GROUNDWATER MONITORING WELL LOCATION MAP

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 Elmhurst St, HAYWARD, CA 94544
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT
575 Proco Circle
San Lorenzo, CA 94580

CLIENT
Name Behanan Development Co
Address Sixty 31st Avenue Phone
City San Mateo Zip 94403

APPLICANT
Name Secor International Inc Fax (925) 686-3059
Address 1390 Willow Pass Rd, Ste 360 Phone (925) 686-9780
City Concord Zip 94520

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	[ ]	General	[ ]
Water Supply	[ ]	Contamination	[ ]
Monitoring	[X]	Well Destruction	[ ]

PROPOSED WATER SUPPLY WELL USE

New Domestic	[ ]	Replacement Domestic	[ ]
Municipal	[ ]	Irrigation	[ ]
Industrial	[ ]	Other	[ ]

DRILLING METHOD:

Mud Rotary	[ ]	Air Rotary	[ ]	Auger	[X]
Cable	[ ]	Other	[ ]		

DRILLER'S LICENSE NO. 485165 Gregg Drilling & Testing 1-31-02

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 20 ft.
Casing Diameter 2 in. Number MW-4
Surface Seal Depth 4 ft.

GEOTECHNICAL PROJECTS
Number of Borings
Hole Diameter in. Maximum Depth ft.

ESTIMATED STARTING DATE October 2, 2000
ESTIMATED COMPLETION DATE October 3, 2000

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ DATE 24 Aug 00

FOR OFFICE USE

PERMIT NUMBER W00-601
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources – WELL COMPLETION REPORT –
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole with cement grout cement/ grout/sand mixture. Upper two-three feet replace in kind or with compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS
1. Encroachment permit must be obtained prior to Drilling.
2. Minimum seal depth shall be 4'.

APPROVED _____ DATE 9-20-00
James Yoo
(510) 670-6633

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 Elmhurst St , HAYWARD, CA 94544
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT
525 Paseo Grande
San Lorenzo, CA 94580

CLIENT
Name Bohannon Development Co
Address Sixty 31st Avenue Phone
City San Mateo Zip 94403

APPLICANT
Name Secor International Inc Fax (925) 686-3699
Address 1390 Willow Pass Rd, Ste 360 Phone (925) 686-9780
City Concord Zip 94520

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	[ ]	General	[ ]
Water Supply	[ ]	Contamination	[ ]
Monitoring	[X]	Well Destruction	[ ]

PROPOSED WATER SUPPLY WELL USE

New Domestic	[ ]	Replacement Domestic	[ ]
Municipal	[ ]	Irrigation	[ ]
Industrial	[ ]	Other	[ ]

DRILLING METHOD:

Mud Rotary	[ ]	Air Rotary	[ ]	Auger	[X]
Cable	[ ]	Other	[ ]		

DRILLER'S LICENSE NO. 485105 Gregg Drilling & Testing 1-31-02

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 20 ft.
Casing Diameter 2 in. Number MW-5
Surface Seal Depth 4 ft.

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum Depth ____ ft.
Hole Diameter ____ in.

ESTIMATED STARTING DATE October 2, 2000
ESTIMATED COMPLETION DATE October 3, 2000

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

FOR OFFICE USE

PERMIT NUMBER W00-602
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources – WELL COMPLETION REPORT –
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole with cement grout or cement/ Grout/Sand mixture. Upper two three feet replace in kind or with Compacted Cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremi

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS
1. Encroachment permit must be obtained prior to Drilling.
2. Minimum Seal depth shall be 4

APPROVED _____ DATE 9-21

James Yoo

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 Elmhurst St, HAYWARD, CA 94544
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT
575 Paseo Grande
San Lorenzo, CA 94580

CLIENT
Name Bonanza Development Co
Address Suite 315 Avenue Phone
City San Mateo Zip 94403

APPLICANT
Name Secor International Inc
Fax (925) 686-3099
Address 390 Diablo Pass Rd, Ste 360 Phone (925) 686-9780
City Concord Zip 94520

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	[ ]	General	[ ]
Water Supply	[ ]	Contamination	[ ]
Monitoring	[X]	Well Destruction	[ ]

PROPOSED WATER SUPPLY WELL USE

New Domestic	[ ]	Replacement Domestic	[ ]
Municipal	[ ]	Irrigation	[ ]
Industrial	[ ]	Other	[ ]

DRILLING METHOD:

Mud Rotary	[ ]	Air Rotary	[ ]	Auger	[X]
Cable	[ ]	Other	[ ]		

DRILLER'S LICENSE NO. 485165 Gregg Drilling & Testing 1-31-02

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 20 ft.
Casing Diameter 2 in. Number MW-7
Surface Seal Depth 4 ft.

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum Depth ____ ft.
Hole Diameter ____ in.

ESTIMATED STARTING DATE October 2, 2000
ESTIMATED COMPLETION DATE October 3, 2000

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE

FOR OFFICE USE
PERMIT NUMBER W00-604
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources – WELL COMPLETION REPORT –
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole with cement grout or cement/grout/sand mixture. Upper two three feet replace in kind or with compacted cutting.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremi

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS
1. Encroachment permit must be obtained prior to Drilling.
2. Minimum seal depth shall be 4

APPROVED _____ DATE 9-2

James Yoo
(510) 670-6633

APPENDIX B

Boring Logs with Well Construction Details

CLIENT	: BOHANNON
PROJECT	: WELL INSTALLATION
PROJECT NO.	: 007.03814.006
BORING LOCATION	: 575 PASEO GRANDE
	: SAN LORENZO, CA

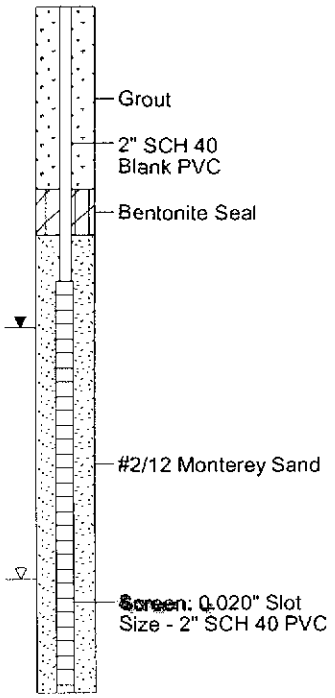
START DATE	: 10/2/00
COMPLETION DATE	: 10/2/00
MONITORING DEVICE	PID 580B
SAMPLING METHOD	: CONTINUOUS CORE
SUBCONTRACTOR	: GREGG DRILLING
DRILLING METHOD	: HOLLOW STEM AUGER
HOLE DIAMETER	: 7.5-INCH
LOGGED BY	: C MELANCON
FIRST WATER	: 12.5'
STABILIZED WATER	: 7'

MW-4

LOG OF BORING

Depth in FEET	Recovery/Sample	Sample ID	PID (ppm)	Blow Count	USCS	GRAPHIC	LITHOLOGIC DESCRIPTION
0							3" Asphalt
1							Baserock
2					SC		DARK GRAYISH BROWN (2.5Y,4/2) **CLAYEY SAND (SC)** with silt; sand is fine-grained; medium dense; moist (0,65,15,20)
3							OLIVE BROWN (2.5Y,4/3) **SILTY CLAY (CL)** with fine-grained sand; very stiff; moist; medium to high plasticity (0,10,20,70)
4							
5		MW-4 5'	0				
6							
7		MW-4 7'	45		CL		As above; stiff; moist
8							
9							Stain and strong chemical odor, moist (0,25,10,65)
10		MW-4 10'	319				
11							
12			310				
13			19				DARK GREENISH GRAY (10Y,4/1) **SANDY SILT (ML)** with clay; sand is fine-grained; stiff; moist to wet; low to moderate plasticity; sand filled rootlets (0,30,45,20)
14					ML		
15		MW-5 15'	12				
16							BORING COMPLETED AT A DEPTH OF 15 FEET BELOW GROUND SURFACE
17							
18							
19							
20							
21							
22							
23							
24							
25							

WELL: MW-4
TOP OF CASING ELEVATION:



SECOR
International Incorporated

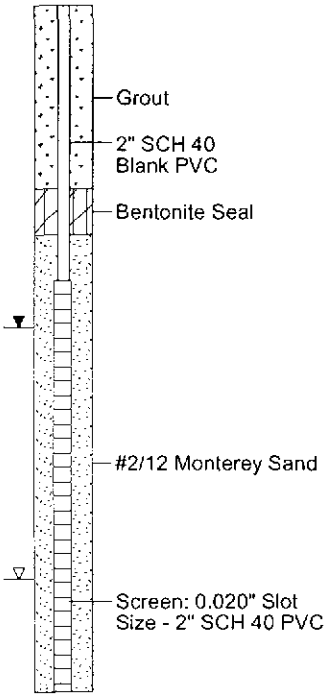
NOTES

06-17-2001 D:\SECOR\BOH\BOH-MW4.BOR

CLIENT : BOHANNON PROJECT : WELL INSTALLATION PROJECT NO. : 007.03814.006 BORING LOCATION : 575 PASEO GRANDE : SAN LORENZO, CA	START DATE : 10/2/00 COMPLETION DATE : 10/2/00 MONITORING DEVICE PID 580B SAMPLING METHOD : CONTINUOUS CORE SUBCONTRACTOR : GREGG DRILLING DRILLING METHOD : HOLLOW STEM AUGER HOLE DIAMETER : 7.5-INCH LOGGED BY : C MELANCON FIRST WATER : 12.0' STABILIZED WATER : 6.5'	MW-5 (Page 1 of 1) LOG OF BORING	

Depth in FEET	Recovery/Sample	Sample ID	PID (ppm)	Blow Count	USCS	GRAPHIC	LITHOLOGIC DESCRIPTION
0							3" Asphalt
1							Baserock
2					SC		DARK GRAYISH BROWN (2.5Y,4/2) CLAYEY SAND (SC) with silt; sand is fine-grained; medium dense; moist (0,65,15,20)
3							VERY DARK GRAY (2.5Y,3/1) SILTY CLAY (CL); very stiff; moist; moderate plasticity; caliche (0,0,25,75)
4							
5		MW-5 5'	0				
6							
7		MW-5 7'	0		CL		
8							
9							Color change to olive brown (2.5Y,4/3)
10			0				
11		MW-5 10'					
12			0		SC		OLIVE BROWN (2.5Y,4/3) CLAYEY SAND (SC) with silt; sand is fine-grained; medium dense; wet (0,55,15,30)
13							
14					CL		OLIVE BROWN (2.5Y,4/3) SANDY CLAY (CL) with silt; sand is fine-grained; very stiff; moist; caliche (0,30,15,55)
15		MW-5 15'	0				
16							BORING COMPLETED AT A DEPTH OF 15 FEET BELOW GROUND SURFACE
17							
18							
19							
20							
21							
22							
23							
24							
25							

WELL: MW-4
TOP OF CASING ELEVATION:



SECOR International Incorporated

NOTES

06-17-2001 D:\SECOR\BOH\BOH-MW5.BOR

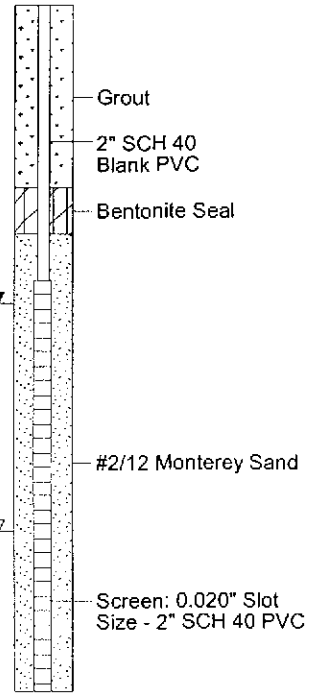
CLIENT	: BOHANNON	START DATE	: 10/2/00
PROJECT	: WELL INSTALLATION	COMPLETION DATE	: 10/3/00
PROJECT NO.	: 007.03814.006	MONITORING DEVICE	PID 580B
BORING LOCATION	: 575 PASEO GRANDE	SAMPLING METHOD	: CONTINUOUS CORE
	: SAN LORENZO, CA	SUBCONTRACTOR	: GREGG DRILLING
		DRILLING METHOD	: HOLLOW STEM AUGER
		HOLE DIAMETER	: 7.5-INCH
		LOGGED BY	: C MELANCON
		FIRST WATER	: 11.5'
		STABILIZED WATER	: 6.5'

MW-6

LOG OF BORING

WELL: MW-4
TOP OF CASING ELEVATION:

Depth in FEET	Recovery/Sample	Sample ID	PID (ppm)	Blow Count	USCS	GRAPHIC	LITHOLOGIC DESCRIPTION
0							Asphalt
1							Baserock
2					SC		DARK GRAYISH BROWN (2.5Y,4/2) CLAYEY SAND (SC) with silt; sand is fine-grained; medium dense
3					SP		CLEAN FILL SAND
4							VERY DARK GRAY (2.5Y,3/1) SILTY CLAY (CL); very stiff; moist; moderate plasticity; caliche (0,0,30,70)
5		MW-6 5'	0				
6							
7		MW-6 7'	0		CL		Color change to dark grayish brown (2.5Y,4/2)
8							
9							
10			0				
11		MW-6 10'					
12			0				DARK GRAYISH BROWN (2.5Y,4/2) CLAYEY SAND (SC) with silt; sand is fine-grained; medium dense; moist to wet (0,60,15,25)
13			0		SC		
14							
15		MW-6 15'	0		CL		OLIVE BROWN (2.5Y,4/3) SANDY CLAY (CL) with silt; sand is fine-grained; very stiff; moist; caliche (0,30,15,55)
16							BORING COMPLETED AT A DEPTH OF 15 FEET BELOW GROUND SURFACE
17							
18							
19							
20							
21							
22							
23							
24							
25							



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06-17-2001

SECOR
International Incorporated

CLIENT	: BOHANNON	START DATE	: 10/2/00
PROJECT	: WELL INSTALLATION	COMPLETION DATE	: 10/3/00
PROJECT NO.	: 007.03814.006	MONITORING DEVICE	PID 580B
BORING LOCATION	: 575 PASEO GRANDE	SAMPLING METHOD	: CONTINUOUS CORE
	: SAN LORENZO, CA	SUBCONTRACTOR	: GREGG DRILLING
		DRILLING METHOD	: HOLLOW STEM AUGER
		HOLE DIAMETER	: 7.5-INCH
		LOGGED BY	: C MELANCON
		FIRST WATER	: 13.0'
		STABILIZED WATER	: 6.5'

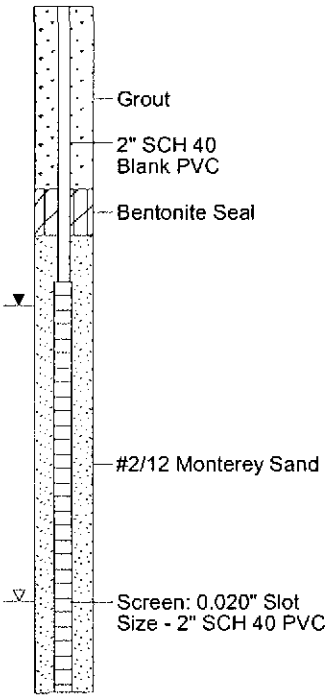
MW-7

LOG OF BORING

Depth in FEET	Recovery/Sample	Sample ID	PID (ppm)	Blow Count	USCS	GRAPHIC	LITHOLOGIC DESCRIPTION
0							Asphalt
1							Baserock
2					SC		DARK GRAYISH BROWN (2.5Y,4/2) CLAYEY SAND (SC) with silt; sand is fine-grained; medium dense (0,70,10,20)
3					CL		DARK GRAYISH BROWN (2.5Y,3/2) SILTY CLAY (CL), with fine-grained sand; very stiff; moist; moderate plasticity (0,15,20,65)
4							
5		MW-7 5'	0		SC		VERY DARK GRAYISH BROWN (2.5Y,3/2) CLAYEY SAND (SC) with silt; sand is fine-grained; medium dense; moist to wet (0,65,15,20)
6							
7		MW-7 7'	0				VERY DARK GRAY (2.5Y,3/1) SILTY CLAY (CL); very stiff; moist; moderate plasticity; caliche (0,0,25,75)
8							
9					CL		Color change to dark grayish brown (2.5Y,4/2)
10		MW-7 10'	0				
11							
12							
13			0		SC		DARK GRAYISH BROWN (2.5Y,4/2) CLAYEY SAND (SC) with silt; sand is fine-grained; moist to wet; dense (0,55,15,30)
14					CL		
15		MW-7 15'	0				OLIVE BROWN (2.5Y,4/3) SANDY CLAY (CL) with silt; sand is fine-grained; very stiff; moist; moderate plasticity (0,30,15,55)
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

BORING COMPLETED AT A DEPTH OF 15 FEET BELOW GROUND SURFACE

WELL: MW-4
TOP OF CASING ELEVATION:



SECOR
International Incorporated

06-20-2001 D:\SECOR\BOH\BOH-MW7.BOR

APPENDIX C

Well Development Field Data Sheets

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 007.03814.006 PURGED BY: CM WELL I.D.: MW-4

CLIENT NAME: Bohannon ~~SAMPLED BY~~: _____ ~~SAMPLE I.D.~~: _____

LOCATION: 575 Paseo Grande, San Lorenzo ~~QA SAMPLES~~: _____

DATE PURGED 10-13-00 START (2400hr) 10:00 END (2400hr) 10:20

DATE SAMPLED N/A SAMPLE TIME (2400hr) _____

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.17) 3" ____ (0.38) 4" ____ (0.67) 6" ____ (1.50) 8" ____ (2.60) Other ____ ( )
Casing Volume Per Foot

DEPTH TO BOTTOM (feet) = 15.15 CASING VOLUME (gal) = 1.41

DEPTH TO WATER (feet) = 6.85 CALCULATED PURGE (gal) = 14.11

WATER COLUMN HEIGHT (feet) = 8.30 ACTUAL PURGE (gal) = 15.0

FIELD MEASUEMENTS

TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
10:05	3	19.3	1514	7.21	Grey	V. High
10:10	6	20.0	1385	7.22	"	High
10:15	9	19.7	1367	7.19	"	"
10:20	15	19.5	1365	7.17	"	"

D.O. (ppm): _____ COLOR COBALT (0 TO 100): _____

ODOR: Strong SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT

____ Bladder Pump
____ Centrifugal Pump
____ Sub. Pump
____ Peristaltic Pump
____ Bailer (Teflon)
____ Bailer (PCV)
____ Bailer (Stainless Steel)
____ Dedicated _____
Other: Disposable Bailer

SAMPLING EQUIPMENT

____ Bladder Pump
____ Centrifugal Pump
____ Sub. Pump
____ Peristaltic Pump
____ Bailer (Teflon)
____ Bailer (___PCV or ___disposable)
____ Bailer (Stainless Steel)
____ Dedicated _____
Other: _____

WELL INTEGRITY: good LOCK#: _____

REMARKS: Surged well using 2" Surge block prior to purge.

SIGNITURE: _____ Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 007.03814.006 PURGED BY: CM WELL I.D.: MW-5

CLIENT NAME: Bohannon ~~SAMPLED BY~~: ~~SAMPLE I.D.~~:

LOCATION: 575 Paseo Grande, San Lorenzo ~~QA SAMPLES~~:

DATE PURGED 10-13-00 START (2400hr) 9:20 END (2400hr) 9:40

DATE SAMPLED N/A SAMPLE TIME (2400hr) ~

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER:	2"	3"	4"	6"	8"	Other
Casing Volume Per Foot	X (0.17)	____ (0.38)	____ (0.67)	____ (1.50)	____ (2.60)	____ ( )

DEPTH TO BOTTOM (feet) = 14.35 CASING VOLUME (gal) = 1.29

DEPTH TO WATER (feet) = 6.78 CALCULATED PURGE (gal) = 12.87

WATER COLUMN HEIGHT (feet) = 7.57 ACTUAL PURGE (gal) = 15.0

FIELD MEASUEMENTS

TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
9:25	3	22.0	1587	7.68	Brn	V. High
9:30	6	21.7	1602	7.72	"	High
9:35	9	21.3	1280	7.67	"	"
9:40	15	21.2	1268	7.65	"	"

D.O. (ppm): ____ COLOR COBALT (0 TO 100): ____

ODOR: none SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump ____ Bailer (PCV)
____ Sub. Pump ____ Bailer (Stainless Steel)
____ Peristaltic Pump ____ Dedicated ____
Other: Disposable Bailer

SAMPLING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump ____ Bailer (___PCV or ___disposable)
____ Sub. Pump ____ Bailer (Stainless Steel)
____ Peristaltic Pump ____ Dedicated ____
Other: ____

WELL INTEGRITY: good LOCK#: ____

REMARKS: Surged well using 2" Surge block prior to purge.

SIGNITURE: [signature]

Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 007.03814.006 PURGED BY: CM WELL I.D.: MW-6

CLIENT NAME: Bohannon ~~SAMPLED BY~~: _____ ~~SAMPLE I.D.~~: _____

LOCATION: 575 Paseo Grande, San Lorenzo ~~QA SAMPLES~~: _____

DATE PURGED 10-13-00 START (2400hr) 8:40 END (2400hr) 9:00

DATE SAMPLED N/A SAMPLE TIME (2400hr) —

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.17) 3" ____ (0.38) 4" ____ (0.67) 6" ____ (1.50) 8" ____ (2.60) Other ____ ( )
Casing Volume Per Foot

DEPTH TO BOTTOM (feet) = 14.55 CASING VOLUME (gal) = 1.41

DEPTH TO WATER (feet) = 6.25 CALCULATED PURGE (gal) = 14.11

WATER COLUMN HEIGHT (feet) = 8.30 ACTUAL PURGE (gal) = 15.0

FIELD MEASUEMENTS

TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
8:45	3	20.8	932	7.59	Brn	V. High
8:50	7.5	20.7	935	7.51	"	High
8:55	12	20.4	926	7.49	"	"
9:00	15	20.3	927	7.46	"	"

D.O. (ppm): _____ COLOR COBALT (0 TO 100): _____

ODOR: none SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump ____ Bailer (PCV)
____ Sub. Pump ____ Bailer (Stainless Steel)
____ Peristaltic Pump ____ Dedicated _____
Other: Disposable Bailer

SAMPLING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump ____ Bailer (___PCV or ___disposable)
____ Sub. Pump ____ Bailer (Stainless Steel)
____ Peristaltic Pump ____ Dedicated _____
Other: _____

WELL INTEGRITY: good LOCK#: _____

REMARKS: Surged well using 2" Surge block prior to purge.

SIGNITURE: [signature]

Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 007.03814.006 PURGED BY: CM WELL I.D.: MW-7

CLIENT NAME: Bohannon ~~SAMPLED BY~~: _____ ~~SAMPLE I.D.~~: _____

LOCATION: 575 Paseo Grande, San Lorenzo ~~QA SAMPLES~~: _____

DATE PURGED 10-13-00 START (2400hr) 8:00 END (2400hr) 8:25

DATE SAMPLED N/A SAMPLE TIME (2400hr) _____

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER:	2"	3"	4"	6"	8"	Other ____
Casing Volume Per Foot	X (0.17)	____ (0.38)	____ (0.67)	____ (1.50)	____ (2.60)	____ ( )

DEPTH TO BOTTOM (feet) = 14.75 CASING VOLUME (gal) = 1.28

DEPTH TO WATER (feet) = 7.21 CALCULATED PURGE (gal) = 12.82

WATER COLUMN HEIGHT (feet) = 7.54 ACTUAL PURGE (gal) = 15.0

FIELD MEASUEMENTS

TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
8:05	3	18.9	1125	7.53	Brn	V. High
8:10	6	18.9	1079	7.49	"	High
8:15	9	18.5	1024	7.46	"	"
8:20	12	18.3	1019	7.45	"	"
8:25	15	18.4	1016	7.43	"	"

D.O. (ppm): _____ COLOR COBALT (0 TO 100): _____

ODOR: none SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump ____ Bailer (PCV)
____ Sub. Pump ____ Bailer (Stainless Steel)
____ Peristaltic Pump ____ Dedicated _____
Other: Disposable Bailer

SAMPLING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)
____ Centrifugal Pump ____ Bailer (___PCV or ___disposable)
____ Sub. Pump ____ Bailer (Stainless Steel)
____ Peristaltic Pump ____ Dedicated _____
Other: _____

WELL INTEGRITY: Good LOCK#: _____

REMARKS: Surged well using 2" Surge block prior to purge.

SIGNITURE: _____ Page ___ of ___

APPENDIX D

Water Sample Field Data Sheets

DATE: 12-5-00 PROJECT: Bohannon PROJECT # 007.03814

EVENT: _____ SAMPLER: C. Melancon

WELL OR LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	~~DTP~~ TD	PT	ELEV	
MW-1	10:30		6.99	14.40			
MW-2	10:35		7.01	14.70			
MW-3	10:40		6.84	13.00			
MW-4	10:45		6.28	15.15			
MW-5	10:50		6.25	14.35			
MW-6	10:55		5.68	14.55			
MW-7	11:00		6.43	14.70			
							opened all wells ~15 min prior to gauging
							—

CODES: TOC - TOP OF CASING (FEET, RELATIVE TO MEAN SEA LEVEL)
DTW - DEPTH TO WATER (FEET)
DTP - DEPTH TO PRODUCT (FEET)
PT - PRODUCT THICKNESS (FEET)
ELEV - GROUNDWATER ELEVATION (FEET, RELATIVE TO MEAN SEA LEVEL)

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03814 Purged By: CM Well I.D.: MW-1

Client Name: Bohannon Sampled By: CM Sample I.D.: MW-1

Location: 575 Paseo Grande, San Lorenzo QA Samples: —

Date Purged 12-5-00 Start (2400hr) 14:38 End (2400hr) 14:58

Date Sampled 12-5-00 Sample Time (2400hr) 15:00

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = 14.40 Purge (gal) = 1.6

Depth to Water (feet) = 6.99 Purge Rate (☒ gal or ☐ liter/min) 0.1

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
12-5	14:40	0.2	22.65	1404	7.15	Cloudy	mod	1.17	
	14:43	0.4	22.10	1393	7.17	"	"	1.02	
	14:45	0.6	22.04	1392	7.17	"	"	0.97	
	14:48	0.8	22.08	1392	7.15	Clear	low	0.89	
	14:50	1.0	22.03	1393	7.16	"	"	0.95	
	14:53	1.2	22.09	1392	7.14	"	"	0.82	
	14:55	1.4	22.11	1392	7.15	"	"	0.76	
	14:58	1.6	22.09	1393	7.13	"	"	0.79	

SAMPLE INFORMATION

Sample Depth to Water: 7.05 Sample Turbidity: low

Analyses: TPHg / BTEX + ferrous Fe + Nitrate & Sulfate

Odor: none Sample Vessel/Preservative: 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: tube

Pump Depth: 12'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: ____

Well Integrity: good Lock #: 0909

Remarks: ORP = 184 mV (Horiba)

NOTE: Sample after three consecutive readings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%.

Signature: [signature] Page ____ of ____

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03814 Purged By: CM Well I.D.: MW-2

Client Name: Bohannon Sampled By: CM Sample I.D.: MW-2

Location: 575 Paseo Grande, San Lorenzo QA Samples: _____

Date Purged 12-5-00 Start (2400hr) 15:18 End (2400hr) 15:38

Date Sampled 12-5-00 Sample Time (2400hr) 15:40

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____

Depth to Bottom (feet) = 14.70 Purge (gal) = 1.6

Depth to Water (feet) = 7.01 Purge Rate (☐ gal or ☐ liter/min) ~0.1

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
12-5	15:20	0.2	23.34	1604	6.90	cloudy	mod	0.53	
	15:23	0.4	23.07	1578	6.87	"	"	0.67	
	15:25	0.6	22.96	1575	6.85	"	"	0.63	
	15:28	0.8	23.01	1574	6.84	"	low	0.56	
	15:30	1.0	22.99	1568	6.83	"	"	0.55	
	15:33	1.2	23.02	1566	6.83	"	"	0.54	
	15:35	1.4	23.03	1560	6.82	"	"	0.53	
↓	15:38	1.6	23.03	1562	6.83	"	"	0.53	

SAMPLE INFORMATION

Sample Depth to Water: 7.08 Sample Turbidity: low

Odor: moderate Analyses: TPHg / BTEX

Sample Vessel/Preservative: 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: tube

Pump Depth: 12'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: _____

Well Integrity: good Lock #: 0909

Remarks: ORP = -73 (Horiba)

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%.

Signature: _____ Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03814 | Purged By: CM | Well I.D.: MW-3

Client Name: Bohannon | Sampled By: CM | Sample I.D.: MW-3

Location: 575 Paseo Grande, San Lorenzo | QA Samples: _____

Date Purged 12-5-00 | Start (2400hr) 15:58 | End (2400hr) 16:18

Date Sampled 12-5-00 | Sample Time (2400hr) 16:20

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = 13.00 | Purge (gal) = 1.6

Depth to Water (feet) = 6.84 | Purge Rate (☒ gal or ☐ liter/min) ~0.1

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
12-5	16:00	0.2	22.27	1543	6.92	Cloudy	med	0.78	
	16:03	0.4	22.13	1543	6.87	"	"	0.66	
	16:05	0.6	22.12	1545	6.87	"	"	0.58	
	16:08	0.8	22.14	1556	6.88	Clear	low	0.52	
	16:10	1.0	22.13	1561	6.88	"	"	0.51	
	16:13	1.2	22.18	1568	6.88	"	"	0.48	
	16:15	1.4	22.17	1590	6.88	"	"	0.46	
↓	16:18	1.6	22.15	1600	6.88	"	"	0.45	

SAMPLE INFORMATION

Sample Depth to Water: 7.13 | Sample Turbidity: low

Analyses: TPHg / BTEX

Odor: Moderate | Sample Vessel/Preservative: 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: tube

~~Pump~~ Depth: 12'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: _____

Well Integrity: good | Lock #: 0909

Remarks: ORP = -80 mV (Horiba)

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%.

Signature: _____ | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03814 | Purged By: CM | Well I.D.: MW-4

Client Name: Bohannon | Sampled By: CM | Sample I.D.: MW-4

Location: 575 Paseo Grande, San Lorenzo | QA Samples: —

Date Purged 12-5-00 | Start (2400hr) 13:55 | End (2400hr) 14:18

Date Sampled 12-5-00 | Sample Time (2400hr) 14:20

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = 15.15 | Purge (gal) = 2.0

Depth to Water (feet) = 6.28 | Purge Rate (☒ gal or ☐ liter/min) ~~0.1~~

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
12-5	13:58	0.4	20.65	880	6.92	Cloudy	mod	0.87	
	14:00	0.6	20.61	879	6.90	Clear	low	0.69	
	14:03	0.8	20.91	875	6.89	"	"	0.64	
	14:05	1.0	20.51	870	6.86	"	"	0.59	
	14:08	1.2	20.46	866	6.85	"	"	0.56	
	14:10	1.4	20.58	863	6.85	"	"	0.54	
	14:13	1.6	20.59	862	6.84	"	"	0.52	
	14:15	1.8	20.64	861	6.84	"	"	0.51	
	14:18	2.0	20.70	860	6.83	"	"	0.52	

SAMPLE INFORMATION

Sample Depth to Water: 6.36 | Sample Turbidity: low

Odor: moderate | Analyses: TPHg / BTEX + lead

Sample Vessel/Preservative: 3 VOAs + 250 ml plastic

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: ____

Pump Depth: 12'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: ____

Well Integrity: good | Lock #: Dolphin

Remarks: ORP = -3 mV (Horiba)

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%.

Signature: [signature] | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03814 | Purged By: CM | Well I.D.: MW-5

Client Name: Bohannon | Sampled By: CM | Sample I.D.: MW-5

Location: 575 Paseo Grande, San Lorenzo | QA Samples: —

Date Purged 12-5-00 | Start (2400hr) 12:55 | End (2400hr) 13:18

Date Sampled 12-5-00 | Sample Time (2400hr) 13:20

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = 14.35 | Purge (gal) = 1.8

Depth to Water (feet) = 6.25 | Purge Rate (☒ gal or ☐ liter/min) 0.1

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	~~Depth~~ ORP (ft)
12-5	12:58	0.2	21.45	1131	7.55	Cloudy	mod	2.12	58.7
	13:00	0.4	21.55	1136	7.51	"	"	1.82	58.7
	13:03	0.6	21.57	1124	7.48	"	"	1.58	58.9
	13:05	0.8	21.53	1095	7.40	"	"	1.22	—
	13:08	1.0	21.57	1093	7.40	"	"	1.04	—
	13:10	1.2	21.64	1086	7.39	"	"	0.94	—
	13:13	1.4	21.66	1087	7.39	"	"	0.90	—
	13:15	1.6	21.63	1085	7.38	"	"	0.84	—
↓	13:18	1.8	21.64	1082	7.38	"	"	0.85	—

SAMPLE INFORMATION

Sample Depth to Water: 6.35 | Sample Turbidity: mod

Odor: none | Analyses: TPHg / BTEX + Lead

Sample Vessel/Preservative: 3 VOAs + 500ml Plastic

PURGING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)

____ Centrifugal Pump ____ Bailer (PVC)

____ Submersible Pump ____ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: ____

Pump Depth: 12'

SAMPLING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)

____ Centrifugal Pump ____ Bailer (PVC or disposable)

____ Submersible Pump ____ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: ____

Well Integrity: good | Lock #: Do/Gin

Remarks: ORP = 241 mV (Horiba)

NOTE: Sample after three consecutive readings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%.

Signature: [signature] | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03814 | Purged By: CM | Well I.D.: MW-6

Client Name: Bohannon | Sampled By: CM | Sample I.D.: MW-6

Location: 575 Paseo Grande, San Lorenzo | QA Samples: —

Date Purged 12-5-00 | Start (2400hr) 12:08 | End (2400hr) 12:28

Date Sampled 12-5-00 | Sample Time (2400hr) 12:30

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = 14.55 | Purge (gal) = 1.6

Depth to Water (feet) = 5.68 | Purge Rate (☒ gal or ☐ liter/min) 0.1

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	ORP ~~Depth~~ (ft)
12-5	12:10	0.2	20.16	879	7.21	Cloudy	Mod	1.15	50.9
	12:13	0.4	20.28	876	7.18	"	"	0.85	51.8
	12:15	0.6	20.42	875	7.17	"	"	0.79	51.9
	12:18	0.8	20.43	874	7.15	"	"	0.76	52.1
	12:20	1.0	20.40	875	7.15	Clear	low	0.73	52.3
	12:23	1.2	20.34	874	7.13	"	"	0.65	52.2
	12:25	1.4	20.34	874	7.13	"	"	0.63	52.1
↓	12:28	1.6	20.29	873	7.12	"	"	0.62	52.0

SAMPLE INFORMATION

Sample Depth to Water: 5.73 | Sample Turbidity: low

Analyses: TPHg / BTEX + ferrous Fe + Nitrate Sulfate

Odor: none | Sample Vessel/Preservative: 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: ____

~~Pump~~ tube Depth: 12'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: ____

Well Integrity: good | Lock #: Polyplan

Remarks: ORP = 52.0 (flow thru cell YSI 600)

NOTE: Sample after three consecutive roadings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%.

Signature: [signature] | Page ___ of ___

SECOR International Incorporated

WATER SAMPLE FIELD DATA SHEET

Project #: 007.03814 Purged By: CM Well I.D.: MW-7

Client Name: Bohannon Sampled By: CM Sample I.D.: MW-7

Location: 575 Paseo Grande, San Lorenzo QA Samples: _____

Date Purged 12-5-00 Start (2400hr) 11:35 End (2400hr) 11:58

Date Sampled 12-5-00 Sample Time (2400hr) 12:00

Sample Type: ☒ Groundwater ☐ Other

Casing Diameter 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Depth to Bottom (feet) = 14.70 Purge (gal) = 2.0

Depth to Water (feet) = 6.43 Purge Rate (☒ gal or ☐ liter/min) 0.1

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	ORP ~~Depth~~ (ft)
12-5	11:38	0.4	18.67	1171	7.37	Cloudy	low	1.13	50.6
	11:40	0.6	18.78	1170	7.30	"	"	0.90	51.0
	11:43	0.8	18.81	1156	7.27	"	"	0.77	50.9
	11:45	1.0	18.72	1144	7.26	"	"	0.69	51.0
	11:48	1.2	18.82	1133	7.25	"	"	0.64	50.8
	11:50	1.4	18.80	1126	7.26	"	"	0.62	51.8
	11:53	1.6	18.82	1120	7.27	"	"	0.60	51.1
	11:55	1.8	18.83	1121	7.26	"	"	0.59	50.9
↓	11:58	2.0	18.80	1121	7.26	"	"	0.60	50.9

SAMPLE INFORMATION

Sample Depth to Water: 6.49 Sample Turbidity: low

Analyses: TPHg / BTEX + 500 mL Plastic (lead)

Odor: none Sample Vessel/Preservative: 3 VOAs

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: tube

Pump Depth: ~~12~~ 12'

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC or disposable)

___ Submersible Pump ___ Bailer (Stainless Steel)

X Peristaltic Pump X Dedicated tube

Other: _____

Well Integrity: good Lock #: Dolphin

Remarks: ORP = 50.9 mV (flow thru cell)

NOTE: Sample after three consecutive readings are within:

pH - ± 0.1, turbidity and DO = ± 10%, conductivity = ± 3%.

Signature: _____ Page ___ of ___

APPENDIX E

Surveyors Report

REFERENCE BENCH MARK:
BRONZE DISK, PAS-GRAN-ALAM, ELEV. 20.491' ON
TOP OF CURB AT EASTERLY RETURN OF NORTHERLY CORNER
AT INTERSECTION OF PASEO GRANDE AND VIA ALAMITOS.

FOUND BRASS PIN
IN MONUMENT WELL

SCALE: 1"=40'

VIA DEL SOL

MW 7
N 5094.9711
E 4684.4635
N. RIM CASING: 25.62'
N. SIDE 2" PVC: 25.43'

MW 6
N 4931.6152
E 4774.8878
N. RIM CASING: 25.18'
N. SIDE 2" PVC: 24.89'

MW 4
N 5062.0141
E 4952.7394
N. RIM CASING: 26.13'
N. SIDE 2" PVC: 25.87'

PASEO LARGAVISTA

N 27°23'45" W 599.92' BASIS OF BEARINGS PER TRACT NO. 690 (8 MAPS 68-69)

BM ELEV. 26.17' "O" IN OAKLAND ON DI

MW 2
N 5176.1943
E 5030.1781
N. RIM CASING: 27.19'
N. SIDE 2" PVC: 26.98'

MW 3
N 5126.9569
E 4966.8244
N. RIM CASING: 26.95'
N. SIDE 2" PVC: 26.55'

MW 1
N 5062.5996
E 5006.8195
N. RIM CASING: 27.03'
N. SIDE 2" PVC: 26.73'

PASEO GRANDE

N 66°22'10" E 250.54'

FOUND BRASS PIN
IN MONUMENT WELL

N 5000.0000
E 5000.0000 N 62°30'00" E

FOUND BRASS PIN
IN MONUMENT WELL

4' BW TO FC (TYP)

MW 5
N 4957.9613
E 5037.4942
N. RIM CASING: 25.93'
N. SIDE 2" PVC: 25.77'

NOLTE
BEYOND ENGINEERING
1731 NORTH FIRST STREET, SUITE A SAN JOSE, CA. 95112
408.392.7200 TEL 408.392.0101 FAX WWW.NOLTE.COM

MONITORING WELLS SURVEY

SAN LEANDRO CALIFORNIA

PREPARED FOR: SECOR INT., INC. DATE SUBMITTED: 10/16/00

SHEET NUMBER 1 OF 1 SHEETS

JOB NUMBER SJ0336-05

APPENDIX F

Soil Laboratory Analytical Reports

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-10-0111
Date: October 12, 2000

SECOR-Concord
1390 Willow Pass Road, Suite 360
Concord, CA 94520-5250

Attn.: Mr. Bob Robitaille

Project: 007.03814
Bohannon

Site: 575 Paseo Grande
San Lorenzo, CA

Dear Bob,

Attached is our report for your samples received on Wednesday October 4, 2000
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after November 18, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

Gas/BTEX

SECOR-Concord

1390 Willow Pass Road, Suite 360
Concord, CA 94520-5250

Attn: Bob Robitaille

Phone: (925) 686-9780 Fax: (925) 686-3099

Project #: 007.03814

Project: Bohannon

Site: 575 Paseo Grande
San Lorenzo, CA

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4 @ 5`	Soil	10/02/2000	1
MW-5 @ 10`	Soil	10/02/2000	7
MW-6 @ 10`	Soil	10/03/2000	11
MW-7 @ 10`	Soil	10/03/2000	15

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-4 @ 5`**	Lab Sample ID:	**2000-10-0111-001**
Project:	007.03814 Bohannon	Received:	10/04/2000 17:15
Site:	575 Paseo Grande San Lorenzo, CA	Extracted:	10/10/2000 17:30
Sampled:	10/02/2000	QC-Batch:	2000/10/10-01.01
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/10/2000 17:30	
Benzene	ND	0.0050	mg/Kg	1.00	10/10/2000 17:30	
Toluene	ND	0.0050	mg/Kg	1.00	10/10/2000 17:30	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/10/2000 17:30	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/10/2000 17:30	
Surrogate(s)						
Trifluorotoluene	77.2	53-125	%	1.00	10/10/2000 17:30	
Trifluorotoluene-FID	74.8	53-125	%	1.00	10/10/2000 17:30	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-6 @ 10`**	Lab Sample ID:	**2000-10-0111-011**
Project:	007.03814 Bohannon	Received:	10/04/2000 17:15
Site:	575 Paseo Grande San Lorenzo, CA	Extracted:	10/10/2000 16:20
Sampled:	10/03/2000	QC-Batch:	2000/10/10-01.01
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/10/2000 16:20	
Benzene	ND	0.0050	mg/Kg	1.00	10/10/2000 16:20	
Toluene	ND	0.0050	mg/Kg	1.00	10/10/2000 16:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/10/2000 16:20	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/10/2000 16:20	
Surrogate(s)						
Trifluorotoluene	74.7	53-125	%	1.00	10/10/2000 16:20	
4-Bromofluorobenzene-FID	78.2	58-124	%	1.00	10/10/2000 16:20	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-5 @ 10`**	Lab Sample ID:	**2000-10-0111-007**
Project:	007.03814 Bohannon	Received:	10/04/2000 17:15
Site:	575 Paseo Grande San Lorenzo, CA	Extracted:	10/10/2000 15:45
Sampled:	10/02/2000	QC-Batch:	2000/10/10-01.01
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/10/2000 15:45	
Benzene	ND	0.0050	mg/Kg	1.00	10/10/2000 15:45	
Toluene	ND	0.0050	mg/Kg	1.00	10/10/2000 15:45	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/10/2000 15:45	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/10/2000 15:45	
Surrogate(s)						
Trifluorotoluene	74.6	53-125	%	1.00	10/10/2000 15:45	
4-Bromofluorobenzene-FID	73.3	58-124	%	1.00	10/10/2000 15:45	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-7 @ 10`**	Lab Sample ID:	**2000-10-0111-015**
Project:	007.03814 Bohannon	Received:	10/04/2000 17:15
Site:	575 Paseo Grande San Lorenzo, CA	Extracted:	10/10/2000 16:56
Sampled:	10/03/2000	QC-Batch:	2000/10/10-01.01
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/10/2000 16:56	
Benzene	ND	0.0050	mg/Kg	1.00	10/10/2000 16:56	
Toluene	ND	0.0050	mg/Kg	1.00	10/10/2000 16:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/10/2000 16:56	
Xylene(s)	ND	0.0050	mg/Kg	1.00	10/10/2000 16:56	
Surrogate(s)						
Trifluorotoluene	76.9	53-125	%	1.00	10/10/2000 16:56	
4-Bromofluorobenzene-FID	69.9	58-124	%	1.00	10/10/2000 16:56	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Soil** | **QC Batch # 2000/10/10-01.01**

MB: 2000/10/10-01.01-001 | Date Extracted: 10/10/2000 06:23

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	10/10/2000 06:23	
Benzene	ND	0.0050	mg/Kg	10/10/2000 06:23	
Toluene	ND	0.0050	mg/Kg	10/10/2000 06:23	
Ethyl benzene	ND	0.0050	mg/Kg	10/10/2000 06:23	
Xylene(s)	ND	0.0050	mg/Kg	10/10/2000 06:23	
Surrogate(s)					
Trifluorotoluene	84.2	53-125	%	10/10/2000 06:23	
4-Bromofluorobenzene-FID	75.8	58-124	%	10/10/2000 06:23	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/10/10-01.01**

LCS: 2000/10/10-01.01-002 Extracted: 10/10/2000 06:58 Analyzed 10/10/2000 06:58

LCSD: 2000/10/10-01.01-003 Extracted: 10/10/2000 07:33 Analyzed 10/10/2000 07:33

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.499	0.491	0.500	0.500	99.8	98.2	1.6	75-125	35		
Benzene	0.0984	0.0940	0.1000	0.1000	98.4	94.0	4.6	77-123	35		
Toluene	0.0923	0.0880	0.1000	0.1000	92.3	88.0	4.8	78-122	35		
Ethyl benzene	0.0930	0.0880	0.1000	0.1000	93.0	88.0	5.5	70-130	35		
Xylene(s)	0.272	0.261	0.300	0.300	90.7	87.0	4.2	75-125	35		
Surrogate(s)											
Trifluorotoluene	398	379	500	500	79.6	75.8		53-125			
4-Bromofluorobenzene-FI	378	382	500	500	75.6	76.4		58-124			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

To: **SECOR-Concord**

Test Method: 8015M
8020

Attn.: Bob Robitaille

Prep Method: 5030

Batch QC Report

Gas/BTEX

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2000/10/10-01.01**

Sample ID: **MW-4 @ 5`** Lab Sample ID: 2000-10-0111-001

MS: 2000/10/10-01.01-004 Extracted: 10/10/2000 18:05 Analyzed: 10/10/2000 18:05 Dilution: 1.0

MSD: 2000/10/10-01.01-005 Extracted: 10/10/2000 18:39 Analyzed: 10/10/2000 18:39 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	0.326	0.332	ND	0.439	0.442	74.3	75.1	1.1	65-135	35		
Benzene	0.0693	0.0621	ND	0.0877	0.0885	79.0	70.2	11.8	65-135	35		
Toluene	0.0625	0.0556	ND	0.0877	0.0885	71.3	62.8	12.7	65-135	35		mso
Ethyl benzene	0.0587	0.0511	ND	0.0877	0.0885	66.9	57.7	14.8	65-135	35		mso
Xylene(s)	0.168	0.144	ND	0.263	0.265	63.9	54.3	16.2	65-135	35	mso	mso
Surrogate(s)												
Trifluorotoluene	322	276		500	500	64.4	55.2		53-125			
Trifluorotoluene-FID	299	304		500	500	59.8	60.8		53-125			

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX

QC Compound Flags

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

Gas/BTEX (High Level)

SECOR-Concord

1390 Willow Pass Road, Suite 360
Concord, CA 94520-5250

Attn: Bob Robitaille

Phone: (925) 686-9780 Fax: (925) 686-3099

Project #: 007.03814

Project: Bohannon

Site: 575 Paseo Grande
San Lorenzo, CA

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4 @ 10`	Soil	10/02/2000	3

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030AEXT

Gas/BTEX (High Level)

Sample ID:	**MW-4 @ 10`**	Lab Sample ID:	**2000-10-0111-003**
Project:	007.03814 Bohannon	Received:	10/04/2000 17:15
Site:	575 Paseo Grande San Lorenzo, CA	Extracted:	10/11/2000 16:19
Sampled:	10/02/2000	QC-Batch:	2000/10/11-05.01
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	93	10	mg/Kg	1.00	10/11/2000 16:19	g
Benzene	ND	0.62	mg/Kg	1.00	10/11/2000 16:19	
Toluene	ND	0.62	mg/Kg	1.00	10/11/2000 16:19	
Ethyl benzene	ND	0.62	mg/Kg	1.00	10/11/2000 16:19	
Xylene(s)	ND	0.62	mg/Kg	1.00	10/11/2000 16:19	
Surrogate(s)						
Trifluorotoluene	96.7	53-125	%	1.00	10/11/2000 16:19	
4-Bromofluorobenzene-FID	113.8	58-124	%	1.00	10/11/2000 16:19	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030AEXT

Batch QC Report

Gas/BTEX (High Level)

Method Blank | **Soil** | **QC Batch # 2000/10/11-05.01**

MB: 2000/10/11-05.01-001

Date Extracted: 10/11/2000 10:22

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	10	mg/Kg	10/11/2000 10:22	
Benzene	ND	0.62	mg/Kg	10/11/2000 10:22	
Toluene	ND	0.62	mg/Kg	10/11/2000 10:22	
Ethyl benzene	ND	0.62	mg/Kg	10/11/2000 10:22	
Xylene(s)	ND	0.62	mg/Kg	10/11/2000 10:22	
Surrogate(s)					
Trifluorotoluene	80.2	53-125	%	10/11/2000 10:22	
4-Bromofluorobenzene-FID	80.4	58-124	%	10/11/2000 10:22	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0111

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030AEXT

Batch QC Report

Gas/BTEX (High Level)

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/10/11-05.01**

LCS: 2000/10/11-05.01-002 Extracted: 10/11/2000 10:51 Analyzed 10/11/2000 10:51

LCSD: 2000/10/11-05.01-003 Extracted: 10/11/2000 12:24 Analyzed 10/11/2000 12:24

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.740	0.745	0.625	0.625	118.4	119.2	0.7	75-125	35		
Benzene	0.129	0.130	0.125	0.125	103.2	104.0	0.8	77-123	35		
Toluene	0.124	0.126	0.125	0.125	99.2	100.8	1.6	78-122	35		
Ethyl benzene	0.118	0.119	0.125	0.125	94.4	95.2	0.8	70-130	35		
Xylene(s)	0.355	0.356	0.375	0.375	94.7	94.9	0.2	75-125	35		
Surrogate(s)											
Trifluorotoluene	448	449	500	500	89.6	89.8		53-125			
4-Bromofluorobenzene-FI	415	412	500	500	83.0	82.4		58-124			

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030AEXT

Legend & Notes

Gas/BTEX (High Level)

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

54950

Chain-of Custody Number:

SECOR Chain-of Custody Record 2000-10-0111

Field Office: Concord
Address: 1390 Willow Pass Rd, Suite 360
Concord, CA 94520

☐ Additional documents are attached, and are a part of this Record.

Job Name: Bohannon
Location: 575 Paseo Grande
San Lorenzo, CA

Project # 007.03814 Task #
Project Manager Bob Robataille
Laboratory Chromalab
Turnaround Time Standard/* Hold*

Sampler's Name Charles Meluncon
Sampler's Signature

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals		* Hold *	Comments/ Instructions	Number of Containers
MW-4, 5'	10-2-00		Soil		X												*		1
MW-4, 7'																	*		1
MW-4, 10'					X														1
MW-4, 15'																	*		1
MW-5, 5'																	*		1
MW-5, 7'																	*		1
MW-5, 10'					X														1
MW-5, 15'																	*		1
MW-6, 5'	10-3-00																*		1
MW-6, 7'																	*		1

Special Instructions/Comments:
* Hold pending results

Relinquished by:
Sign
Print Charles Meluncon
Company SECOR
Time 7:00 Date 10-4-00

Received by: MUSA
Sign
Print
Company CH
Time 100 Date 10/4/00

Relinquished by: MUSA
Sign
Print
Company
Time 1715 Date 10/4

Received by:
Sign Denise Harrington
Print D. Harrington
Company Chromalab
Time 1715 Date 10/4/00

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 2/99

Date: 10 / 3 / 00 Page 1 of 2

54750

Chain-of Custody Number:

SECOR Chain-of Custody Record 2000-10-0111

Field Office: Concord
Address: 1390 Willow Pass Rd, Suite 360
Concord, CA 94520

☐ Additional documents are attached, and are a part of this Record.

Job Name: Bohannon
Location: 575 Paseo Grande
San Lorenzo, CA

Project # 007.03814 Task #
Project Manager Bob Robataille
Laboratory Chromalab
Turnaround Time Standard / * Hold *

Sampler's Name Charles Meluncon
Sampler's Signature

Sample ID	Date	Time	Matrix	HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals		* Hold *	Comments/ Instructions	Number of Containers
MW-6, 10'	10-3-00		Soil		X														1
MW-6, 15'	↓		↓														*		1
MW-7, 5'																	*		1
MW-7, 7'																	*		1
MW-7, 10'					X														1
MW-7, 15'																	*		1

Special Instructions/Comments:

Relinquished by:
Sign
Print Charles Meluncon
Company SECOR
Time 7:00 Date 10-4-00

Received by: Musa
Sign
Print
Company CH
Time 1000 Date 10/4/00

Relinquished by: MUSA
Sign
Print
Company CH
Time 17:15 Date 10/4

Received by:
Sign
Print D Harrington
Company Chromalab
Time 1715 Date 10/4/00

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 2/99

Date: 10 / 3 / 00 Page 2 of 2

PTS Laboratories, Inc.
Geotechnical Services
8100 Secura Way • Santa Fe Springs • CA 90670
Phone (562) 907-3607 • Fax (562) 907-3610

October 23, 2000

Mr. Bob Robitaille
Secor
1390 Willow Pass Rd.
Concord, CA 94520

Re: Bohannan/007.03814
PTS File: 30426

Dear Mr. Robitaille:

Enclosed are final data for samples submitted from your Bohannan Project # 007.03814. All analyses were performed by applicable ASTM, EPA or API methodology. Samples will be retained for 30 days before disposal unless other arrangements are made.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please feel free to call myself or Larry Kunkel, District Manager, should you have any questions or require additional information.

Sincerely,

PTS Laboratories, Inc.

Rick Young
Project Manager

RY/vk

encl.

PHYSICAL PROPERTIES DATA

(METHODOLOGY: API RP40, EPA 9060)

PROJECT NAME: Bohannon
PROJECT NO: 007.03814

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENT. (1)	EFFECTIVE POROSITY, %Vb (2)	TOTAL ORGANIC CARBON mg/kg
MW-4	14.50	V	32.2	1400
MW-5	12.00	V	28.7	580

(1) Sample Orientation: H = horizontal; V = vertical (2) Effective Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

Chain-of Custody Number:

SECOR Chain-of Custody Record

Field Office: Concord
Address: 1390 Willow Pass Rd. Suite 360
Concord, CA 94520

☐ Additional documents are attached, and are a part of this Record.

Job Name: Bohannon
Location: 575 Pasco Grande
San Lorenzo, CA

Project # 007.03814 Task # ____
Project Manager Bob Robutaille
Laboratory PTS Laboratory
Turnaround Time Standard

Sampler's Name Charles Mduncan
Sampler's Signature [signature]

Sample ID	Date	Time	Matrix
MW-4, 14.5'	10-2-00		Soil
MW-5, 12'	10-2-00		↓
MW-6, 11.5'	10-3-00		↓
MW-7, 13'	10-3-00		↓

Analysis Request

HCID	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	TOC by 9060	Effective Porosity by ASTM D4404	Comments/ Instructions	Number of Containers
												X	X		1
												X	X		1
														* Hold	1
														* Hold	1

Special Instructions/Comments:
* Hold pending instruction

Relinquished by:
Sign [signature]
Print Charles Mduncan
Company SECOR
Time 17:00 Date 10-3-00

Received by:
Sign ____
Print ____
Company ____
Time ____ Date ____

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd in good condition/cold:
Conforms to record:

Relinquished by:
Sign ____
Print ____
Company ____
Time ____ Date ____

Received by:
Sign ____
Print ____
Company ____
Time ____ Date ____

Client: ____
Client Contact: ____
Client Phone: ____

SECOR CUSTREC Rev. 2/99

Date 10/3/00 Page 1 of 1

APPENDIX G

Groundwater Laboratory Analytical Reports

SECOR-Concord
1390 Willow Pass Road, Suite 360
Concord, CA 94520-5250

Attn.: Mr. Bob Robitaille

Dear Bob,

Attached is our report for your samples received on Tuesday December 5, 2000
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after January 19, 2001 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-12-0096

Gas/BTEX

SECOR-Concord

1390 Willow Pass Road, Suite 360
Concord, CA 94520-5250

Attn: Bob Robitaille

Phone: (925) 686-9780 Fax: (925) 686-3099

Project #: 007.03814

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	12/05/2000 15:00	1
MW-2	Water	12/05/2000 15:40	2
MW-3	Water	12/05/2000 16:20	3
MW-4	Water	12/05/2000 14:20	4
MW-5	Water	12/05/2000 13:20	5
MW-6	Water	12/05/2000 12:30	6
MW-7	Water	12/05/2000 12:00	7

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-1**	Lab Sample ID:	**2000-12-0096-001**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/07/2000 10:31
Sampled:	12/05/2000 15:00	QC-Batch:	2000/12/06-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/07/2000 10:31	
Benzene	ND	0.50	ug/L	1.00	12/07/2000 10:31	
Toluene	ND	0.50	ug/L	1.00	12/07/2000 10:31	
Ethyl benzene	ND	0.50	ug/L	1.00	12/07/2000 10:31	
Xylene(s)	ND	0.50	ug/L	1.00	12/07/2000 10:31	
Surrogate(s)						
4-Bromofluorobenzene	112.2	50-150	%	1.00	12/07/2000 10:31	
4-Bromofluorobenzene-FID	86.9	50-150	%	1.00	12/07/2000 10:31	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-2**	Lab Sample ID:	**2000-12-0096-002**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/08/2000 17:54
Sampled:	12/05/2000 15:40	QC-Batch:	2000/12/08-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	800	50	ug/L	1.00	12/08/2000 17:54	
Benzene	75	0.50	ug/L	1.00	12/08/2000 17:54	
Toluene	1.8	0.50	ug/L	1.00	12/08/2000 17:54	
Ethyl benzene	11	0.50	ug/L	1.00	12/08/2000 17:54	
Xylene(s)	14	0.50	ug/L	1.00	12/08/2000 17:54	
Surrogate(s)						
Trifluorotoluene	115.9	58-124	%	1.00	12/08/2000 17:54	
4-Bromofluorobenzene-FID	110.1	50-150	%	1.00	12/08/2000 17:54	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-3**	Lab Sample ID:	**2000-12-0096-003**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/11/2000 21:03
Sampled:	12/05/2000 16:20	QC-Batch:	2000/12/11-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	5400	250	ug/L	5.00	12/11/2000 21:03	
Benzene	790	2.5	ug/L	5.00	12/11/2000 21:03	
Toluene	20	2.5	ug/L	5.00	12/11/2000 21:03	
Ethyl benzene	7.4	2.5	ug/L	5.00	12/11/2000 21:03	
Xylene(s)	10	2.5	ug/L	5.00	12/11/2000 21:03	
Surrogate(s)						
Trifluorotoluene	96.2	58-124	%	5.00	12/11/2000 21:03	
4-Bromofluorobenzene-FID	94.5	50-150	%	5.00	12/11/2000 21:03	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-4**	Lab Sample ID:	**2000-12-0096-004**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/11/2000 14:56
Sampled:	12/05/2000 14:20	QC-Batch:	2000/12/11-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3900	250	ug/L	5.00	12/11/2000 14:56	
Benzene	320	2.5	ug/L	5.00	12/11/2000 14:56	
Toluene	13	2.5	ug/L	5.00	12/11/2000 14:56	
Ethyl benzene	41	2.5	ug/L	5.00	12/11/2000 14:56	
Xylene(s)	31	2.5	ug/L	5.00	12/11/2000 14:56	
Surrogate(s)						
Trifluorotoluene	113.8	58-124	%	5.00	12/11/2000 14:56	
4-Bromofluorobenzene-FID	82.1	50-150	%	5.00	12/11/2000 14:56	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-5**	Lab Sample ID:	**2000-12-0096-005**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/08/2000 18:58
Sampled:	12/05/2000 13:20	QC-Batch:	2000/12/08-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/08/2000 18:58	
Benzene	ND	0.50	ug/L	1.00	12/08/2000 18:58	
Toluene	ND	0.50	ug/L	1.00	12/08/2000 18:58	
Ethyl benzene	ND	0.50	ug/L	1.00	12/08/2000 18:58	
Xylene(s)	ND	0.50	ug/L	1.00	12/08/2000 18:58	
Surrogate(s)						
Trifluorotoluene	106.7	58-124	%	1.00	12/08/2000 18:58	
4-Bromofluorobenzene-FID	86.4	50-150	%	1.00	12/08/2000 18:58	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-6**	Lab Sample ID:	**2000-12-0096-006**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/08/2000 11:43
Sampled:	12/05/2000 12:30	QC-Batch:	2000/12/08-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/08/2000 11:43	
Benzene	ND	0.50	ug/L	1.00	12/08/2000 11:43	
Toluene	ND	0.50	ug/L	1.00	12/08/2000 11:43	
Ethyl benzene	ND	0.50	ug/L	1.00	12/08/2000 11:43	
Xylene(s)	ND	0.50	ug/L	1.00	12/08/2000 11:43	
Surrogate(s)						
Trifluorotoluene	95.6	58-124	%	1.00	12/08/2000 11:43	
4-Bromofluorobenzene-FID	87.3	50-150	%	1.00	12/08/2000 11:43	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID: **MW-7**
Project: 007.03814
Sampled: 12/05/2000 12:00
Matrix: Water

Lab Sample ID: **2000-12-0096-007**
Received: 12/05/2000 17:45
Extracted: 12/08/2000 19:30
QC-Batch: 2000/12/08-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/08/2000 19:30	
Benzene	ND	0.50	ug/L	1.00	12/08/2000 19:30	
Toluene	ND	0.50	ug/L	1.00	12/08/2000 19:30	
Ethyl benzene	ND	0.50	ug/L	1.00	12/08/2000 19:30	
Xylene(s)	1.5	0.50	ug/L	1.00	12/08/2000 19:30	
Surrogate(s)						
Trifluorotoluene	95.4	58-124	%	1.00	12/08/2000 19:30	
4-Bromofluorobenzene-FID	83.0	50-150	%	1.00	12/08/2000 19:30	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/12/06-01.05**

MB: 2000/12/06-01.05-001

Date Extracted: 12/06/2000 10:59

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/06/2000 10:59	
Benzene	ND	0.5	ug/L	12/06/2000 10:59	
Toluene	ND	0.5	ug/L	12/06/2000 10:59	
Ethyl benzene	ND	0.5	ug/L	12/06/2000 10:59	
Xylene(s)	ND	0.5	ug/L	12/06/2000 10:59	
Surrogate(s)					
Trifluorotoluene	74.2	58-124	%	12/06/2000 10:59	
4-Bromofluorobenzene-FID	65.2	50-150	%	12/06/2000 10:59	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/12/08-01.05**

MB: 2000/12/08-01.05-003

Date Extracted: 12/08/2000 04:45

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/08/2000 04:45	
Benzene	ND	0.5	ug/L	12/08/2000 04:45	
Toluene	ND	0.5	ug/L	12/08/2000 04:45	
Ethyl benzene	ND	0.5	ug/L	12/08/2000 04:45	
Xylene(s)	ND	0.5	ug/L	12/08/2000 04:45	
Surrogate(s)					
4-Bromofluorobenzene	110.5	50-150	ug/L	12/08/2000 04:45	
4-Bromofluorobenzene-FID	80.8	50-150	ug/L	12/08/2000 04:45	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/12/11-01.02**

MB: 2000/12/11-01.02-003 | Date Extracted: 12/11/2000 06:38

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/11/2000 06:38	
Benzene	ND	0.5	ug/L	12/11/2000 06:38	
Toluene	ND	0.5	ug/L	12/11/2000 06:38	
Ethyl benzene	ND	0.5	ug/L	12/11/2000 06:38	
Xylene(s)	ND	0.5	ug/L	12/11/2000 06:38	
Surrogate(s)					
Trifluorotoluene	95.8	58-124	%	12/11/2000 06:38	
4-Bromofluorobenzene-FID	86.0	50-150	%	12/11/2000 06:38	

To: **SECOR-Concord**

Attn.: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/12/11-01.05**

MB: 2000/12/11-01.05-004

Date Extracted: 12/11/2000 07:30

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	12/11/2000 07:30	
Benzene	ND	0.5	ug/L	12/11/2000 07:30	
Toluene	ND	0.5	ug/L	12/11/2000 07:30	
Ethyl benzene	ND	0.5	ug/L	12/11/2000 07:30	
Xylene(s)	ND	0.5	ug/L	12/11/2000 07:30	
Surrogate(s)					
4-Bromofluorobenzene	114.9	50-150	ug/L	12/11/2000 07:30	
4-Bromofluorobenzene-FID	79.0	50-150	ug/L	12/11/2000 07:30	

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/06-01.05**

LCS: 2000/12/06-01.05-002 Extracted: 12/06/2000 11:31 Analyzed 12/06/2000 11:31

LCSD: 2000/12/06-01.05-003 Extracted: 12/06/2000 12:04 Analyzed 12/06/2000 12:04

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	434	435	500	500	86.8	87.0	0.2	75-125	20		
Benzene	92.7	85.6	100.0	100.0	92.7	85.6	8.0	77-123	20		
Toluene	88.2	80.4	100.0	100.0	88.2	80.4	9.3	78-122	20		
Ethyl benzene	87.6	79.2	100.0	100.0	87.6	79.2	10.1	70-130	20		
Xylene(s)	265	246	300	300	88.3	82.0	7.4	75-125	20		
Surrogate(s)											
Trifluorotoluene	453	411	500	500	90.6	82.2		58-124			
4-Bromofluorobenzene-FI	380	354	500	500	76.0	70.8		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/08-01.05**

LCS: 2000/12/08-01.05-004 Extracted: 12/08/2000 05:17 Analyzed 12/08/2000 05:17

LCSD: 2000/12/08-01.05-005 Extracted: 12/08/2000 05:50 Analyzed 12/08/2000 05:50

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	115	112	100.0	100.0	115.0	112.0	2.6	77-123	20		
Toluene	112	108	100.0	100.0	112.0	108.0	3.6	78-122	20		
Ethyl benzene	108	104	100.0	100.0	108.0	104.0	3.8	70-130	20		
Xylene(s)	318	309	300	300	106.0	103.0	2.9	75-125	20		
Surrogate(s)											
Trifluorotoluene	603	553	500	500	120.6	110.6		58-124			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Test Method: 8015M
8020

Attn: Bob Robitaille

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) — **Water** — **QC Batch # 2000/12/08-01.05**

LCS: 2000/12/08-01.05-006 Extracted: 12/08/2000 06:22 Analyzed 12/08/2000 06:22

LCSD: 2000/12/08-01.05-007 Extracted: 12/08/2000 06:54 Analyzed 12/08/2000 06:54

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	510	511	500	500	102.0	102.2	0.2	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	418	414	500	500	83.6	82.8		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/11-01.02**

LCS: 2000/12/11-01.02-004 Extracted: 12/11/2000 07:13 Analyzed 12/11/2000 07:13

LCSD: 2000/12/11-01.02-005 Extracted: 12/11/2000 07:48 Analyzed 12/11/2000 07:48

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	111	106	100.0	100.0	111.0	106.0	4.6	77-123	20		
Toluene	107	105	100.0	100.0	107.0	105.0	1.9	78-122	20		
Ethyl benzene	98.5	95.1	100.0	100.0	98.5	95.1	3.5	70-130	20		
Xylene(s)	284	276	300	300	94.7	92.0	2.9	75-125	20		
Surrogate(s)											
Trifluorotoluene	500	466	500	500	100.0	93.2		58-124			

To: **SECOR-Concord**

Test Method: 8015M
8020

Attn: Bob Robitaille

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/11-01.02**

LCS: 2000/12/11-01.02-006 Extracted: 12/11/2000 08:24 Analyzed 12/11/2000 08:24

LCSD: 2000/12/11-01.02-007 Extracted: 12/11/2000 08:59 Analyzed 12/11/2000 08:59

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	557	539	500	500	111.4	107.8	3.3	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	467	456	500	500	93.4	91.2		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord** Test Method: 8020

Attn: Bob Robitaille Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/11-01.05**

LCS: 2000/12/11-01.05-005 Extracted: 12/11/2000 08:02 Analyzed 12/11/2000 08:02

LCSD: 2000/12/11-01.05-006 Extracted: 12/11/2000 08:34 Analyzed 12/11/2000 08:34

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	115	118	100.0	100.0	115.0	118.0	2.6	77-123	20		
Toluene	113	114	100.0	100.0	113.0	114.0	0.9	78-122	20		
Ethyl benzene	110	112	100.0	100.0	110.0	112.0	1.8	70-130	20		
Xylene(s)	320	328	300	300	106.7	109.3	2.4	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	507		500		101.4			50-150			

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/11-01.05**

LCS: 2000/12/11-01.05-007 Extracted: 12/11/2000 09:07 Analyzed 12/11/2000 09:07

LCSD: 2000/12/11-01.05-008 Extracted: 12/11/2000 09:39 Analyzed 12/11/2000 09:39

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	463	450	500	500	92.6	90.0	2.8	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	411	420	500	500	82.2	84.0		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

Soluble Metals

SECOR-Concord

Attn: Bob Robitaille

Project #: 007.03814

1390 Willow Pass Road, Suite 360
Concord, CA 94520-5250

Phone: (925) 686-9780 Fax: (925) 686-3099

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-4	Water	12/05/2000 14:20	4
MW-5	Water	12/05/2000 13:20	5
MW-7	Water	12/05/2000 12:00	7
MW-6 (lab filtered)	Water	12/05/2000 12:30	8

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	**MW-4**	Lab Sample ID:	**2000-12-0096-004**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/11/2000 11:21
Sampled:	12/05/2000 14:20	QC-Batch:	2000/12/11-05.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	12/11/2000 21:19	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	**MW-5**	Lab Sample ID:	**2000-12-0096-005**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/11/2000 11:21
Sampled:	12/05/2000 13:20	QC-Batch:	2000/12/11-05.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	12/11/2000 21:23	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	**MW-7**	Lab Sample ID:	**2000-12-0096-007**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/11/2000 11:21
Sampled:	12/05/2000 12:00	QC-Batch:	2000/12/11-05.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	12/11/2000 21:32	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID: **MW-6 (lab filtered)**
Project: 007.03814
Sampled: 12/05/2000 12:30
Matrix: Water

Lab Sample ID: **2000-12-0096-008**
Received: *12/05/2000 17:45*
Extracted: 12/11/2000 11:21
QC-Batch: 2000/12/11-05.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	12/11/2000 21:37	

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Batch QC Report
Soluble Metals

Method Blank | **Water** | **QC Batch # 2000/12/11-05.15**

MB: 2000/12/11-05.15-090 | Date Extracted: 12/11/2000 11:21

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	0.0050	mg/L	12/11/2000 20:48	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**

Attn: Bob Robitaille

Test Method: 6010B

Prep Method: 3005A

Batch QC Report

Soluble Metals

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/11-05.15**

LCS: 2000/12/11-05.15-091 Extracted: 12/11/2000 11:21 Analyzed 12/11/2000 20:53

LCSD: 2000/12/11-05.15-092 Extracted: 12/11/2000 11:21 Analyzed 12/11/2000 20:57

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Lead	0.485	0.486	0.500	0.500	97.0	97.2	0.2	80-120	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

Soluble Metals

SECOR-Concord

1390 Willow Pass Road, Suite 360
Concord, CA 94520-5250

Attn: Bob Robitaille

Phone: (925) 686-9780 Fax: (925) 686-3099

Project #: 007.03814

Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	12/05/2000 15:00	1
MW-3	Water	12/05/2000 16:20	3
MW-6	Water	12/05/2000 12:30	6
MW-7	Water	12/05/2000 12:00	7

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID: **MW-1**
Project: 007.03814
Sampled: 12/05/2000 15:00
Matrix: Water

Lab Sample ID: **2000-12-0096-001**
Received: 12/05/2000 17:45
Extracted: 12/11/2000 11:21
QC-Batch: 2000/12/11-05.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.10	mg/L	1.00	12/13/2000 09:38	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	**MW-3**	Lab Sample ID:	**2000-12-0096-003**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/11/2000 11:21
Sampled:	12/05/2000 16:20	QC-Batch:	2000/12/11-05.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	7.3	0.10	mg/L	1.00	12/13/2000 09:43	

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID: **MW-6**
Project: 007.03814
Sampled: 12/05/2000 12:30
Matrix: Water

Lab Sample ID: **2000-12-0096-006**
Received: 12/05/2000 17:45
Extracted: 12/11/2000 11:21
QC-Batch: 2000/12/11-05.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.10	mg/L	1.00	12/13/2000 09:48	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-12-0096

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	**MW-7**	Lab Sample ID:	**2000-12-0096-007**
Project:	007.03814	Received:	12/05/2000 17:45
		Extracted:	12/11/2000 11:21
Sampled:	12/05/2000 12:00	QC-Batch:	2000/12/11-05.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	12/11/2000 21:32	

To: **SECOR-Concord**
Attn.: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Batch QC Report
Soluble Metals

Method Blank | **Water** | **QC Batch # 2000/12/11-05.15**

MB: 2000/12/11-05.15-011 | Date Extracted: 12/11/2000 11:21

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Iron	ND	0.10	mg/L	12/13/2000 09:25	

To: **SECOR-Concord**
Attn: Bob Robitaille

Test Method: 6010B
Prep Method: 3005A

Batch QC Report

Soluble Metals

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/12/11-05.15**

LCS: 2000/12/11-05.15-012 Extracted: 12/11/2000 11:21 Analyzed 12/13/2000 09:29
LCSD: 2000/12/11-05.15-013 Extracted: 12/11/2000 11:21 Analyzed 12/13/2000 09:34

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Iron	4.82	4.83	5.00	5.00	96.4	96.6	0.2	80-120	20		

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # L341-10

Date: 12/11/00

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Project: 2000-12-0096

PO#

Date Rec'd: 12/06/00
Date Started: 12/06/00
Date Completed: 12/07/00

Date Sampled: 12/05/00
Time:
Sampler:

Sample ID	Lab ID	RL	Method	Analyte	Results	Units
MW-1	L312090	1.0	300.0	Sulfate	75	mg/L
		1.0	300.0	Nitrate (NO3)	14	mg/L
MW-3	L312091	1.0	300.0	Sulfate	1.2	mg/L
		1.0	300.0	Nitrate (NO3)	2.4	mg/L
MW-6	L312092	1.0	300.0	Sulfate	60	mg/L
		1.0	300.0	Nitrate (NO3)	25	mg/L

Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report# L341-10

QC REPORT

Chromalab
1220 Quarry Lane
Pleasanton CA 94566-4756

Dates Analyzed 12/6/00-12/7/00

Analyte	Batch #	Method	MS % Recovery	MSD % Recovery	RPD	Blank
Sulfate	I12381	300.0	96.2	96.9	0.7	ND
Nitrate (NO3)	I12380	300.0	92.0	92.2	0.3	ND

Ramiro Salgado
Chemist

Certification # 1157

Donna Keller
Laboratory Director

Chain of Custody **2000-12-0096-1**

Date Shipped: 12/06/2000

L341-10

From:

ChromaLab, Inc. (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

Project Manager: Afsaneh Salimpour
Phone: (925) 484-1919 Ext: 107
Fax: (925) 484-1096
Email: asalimpour@chromalab.com

To:

GeoAnalytical Labs
1405 Kansas Avenue
Modesto, CA 95351

Phone: (209) 572-0900
Fax: (209) 572-0916
Contact: Ramiro Salgado
Phone: (209) 572-0900

CL Submission #: **2000-12-0096**
CL PO #:

Project #: 007.03814
Project Name:

Client Sample ID / Analysis	CL#	Sampled	Matrix / Method	Due
MW-1	001	12/05/2000 15:00	Water	L312090
Subcontract - Sulfate			300/375.4	**12/12/2000 17:00**
Subcontract - Nitrate			300/352.1	**12/13/2000 17:00**
MW-3	003	12/05/2000 16:20	Water	L312091
Subcontract - Sulfate			300/375.4	**12/12/2000 17:00**
Subcontract - Nitrate			300/352.1	**12/13/2000 17:00**
MW-6	006	12/05/2000 12:30	Water	L312092
Subcontract - Sulfate			300/375.4	**12/12/2000 17:00**
Subcontract - Nitrate			300/352.1	**12/13/2000 17:00**

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature] Time:	Signature: Time:	Signature: Time:
Printed Name: CRISTINA Date: 12/06/00	Printed Name: Date:	Printed Name: Date:
Company: CL	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: [signature] Time: 11:28	Signature: Time:	Signature: Time:
Printed Name: Cheryl Vargas Date: 12/06/00	Printed Name: Date:	Printed Name: Date:
Company: GeoA	Company:	Company:

2000-12-0096

Chain-of Custody Number:

SECOR Chain-of Custody Record

56207

Field Office: Concord
Address: 1390 Willow Pass Rd. #360
Concord, CA 94520

☐ Additional documents are attached, and are a part of this Record.

Job Name: Bohannon
Location: 575 Paseo Grande
San Lorenzo, CA

Project # 007-03814 Task #
Project Manager Bob Robatgille
Laboratory Chromalab
Turnaround Time Standard

Sampler's Name Charles Mefunron
Sampler's Signature

Analysis Request

Sample ID	Date	Time	Matrix	~~HGID~~ + Nitrate Sulfate	TPHg/BTEX/WTPH-G 8015 (modified)/8020	TPHd/WTPH-D 8015 (modified)	TPH 418.1/WTPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCBs 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Lead - OHSU++ method	ferrous Iron	Comments/ Instructions	Number of Containers
MW-1	12-5-00	15:00	water	X	X												X		5
MW-2		15:40			X														3
MW-3		16:20		X	X												X		5
MW-4		14:20			X											X			4
MW-5		13:20			X											X			4
MW-6		12:30		X	X											X	X		6
MW-7		12:00			X											X			4

Special Instructions/Comments:
Filter for dissolved lead.
ferrous Iron was field filtered.
4.9°C

Relinquished by:
Sign
Print Charles Mefunron
Company SECOR
Time 17:45 Date 12-5-00

Received by:
Sign Denise Harrington
Print D. Harrington
Company Chromalab
Time 1745 Date 12/5/00

Relinquished by:
Sign
Print
Company
Time Date

Received by:
Sign
Print
Company
Time Date

Sample Receipt
Total no. of containers:
Chain of custody seals:
Rec'd in good condition/cold:
Conforms to record:

Client:
Client Contact:
Client Phone:

SECOR CUSTREC Rev. 2/99

Date: 12 / 5 / 00 Page 1 of 1