

Chevron U.S.A. Inc.

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500 Mail Address: PO. Box 5004, San Ramon, CA 94583-0804

Marketing Department

March 24, 1992

Mr. Ravi Arulananthum Alameda County Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621 Sha # 3841

92/27-2 01/2:28

Re:

Former Chevron Station # 9-2582

7420 Dublin Blvd., Dublin, CA 여식 568

Dear Mr. Arulananthum:

Please find attached a report dated February 13, 1992, which was prepared by Chevron's consultant, RESNA, to describe the results of groundwater monitoring performed on January 28, 1992, at the site captioned above.

Chevron's consultant, Geraghty & Miller (GM) has completed the installation and permitting of a vapor extraction and treatment system at the site. The system was started up on March 11, 1992. I have instructed GM to send you a copy of the start-up report required by the Bay Area Air Quality Management District when it is completed.

If you have any questions or comments, I can be reached at (510) 842-8658.

Sincerely,

Clint B. Rogers

Engineer, Site Assessment and Remediation

Attachment

cc: San Francisco Bay RWQCB, Oakland, CA Janet Clinton (for Parkway Three), 2425 Webb Avenue, Suite 200, Alameda, CA 94501



73 Digital Drive Novato, California 94949-5704 Phone: (415) 382-7400 FAX: (415) 382-7415

February 13, 1992

FE 21 '92 T.L.H.

std# 3841

Mr. Clint Rogers Chevron USA 2410 Camino Ramon San Ramon, California 94583-0804

Re: Quarterly Groundwater Monitoring Sampled January 1992 Chevron Service Station #92582 Dublin, California WGR Project #1-124.08

Dear Mr. Rogers:

This letter report presents the results of the groundwater monitoring performed on January 28, 1992 by Western Geologic Resources/RESNA (RESNA) at the subject site (Figure 1).

On January 28, 1992, RESNA staff measured depth to water, purged, and sampled monitor wells EA-1, EA-2, and EA-3 The standard operating procedure for groundwater sampling, SOP-4, and the standard operating procedure for taking liquid levels, SOP-8, are attached; the field sampling monitoring forms are also attached.

All purged water was temporarily stored on-site in 55-gallon drums pending receipt of analytic reports. Erickson, Inc. was notified that 154 gallons of water could be picked up for disposal.

The groundwater-elevation measurements are shown in Table 1, along with the measurements from past site monitorings. Figure 2 shows the potentiometric surface of shallow groundwater on January 28, 1992. Table 2 presents a compilation of the laboratory analyses performed this quarter by Superior Precision Analytical, as well as past analytical results.

The next semi-annual sampling event is scheduled for July 1992.



C. Rogers/February 13, 1992

Western Geologic Resources/RESNA is pleased to provide geologic and environmental consulting services for Chevron and trusts that this report meets your needs. Please call us at (415) 382-7400 if you have any questions.

Sincerely,

Western Geologic Resources/RESNA

Mark P. Frye

Engineering Technician

Mark P. Trye

Elizabeth J. Adams

Field Operations Manager

MPF/EJA:sg

ENCLOSURES

Figure 1: Site Location Map

Figure 2: Potentiometric Surface of Shallow Groundwater, January 28, 1992

Table 1: Groundwater-Elevation Data

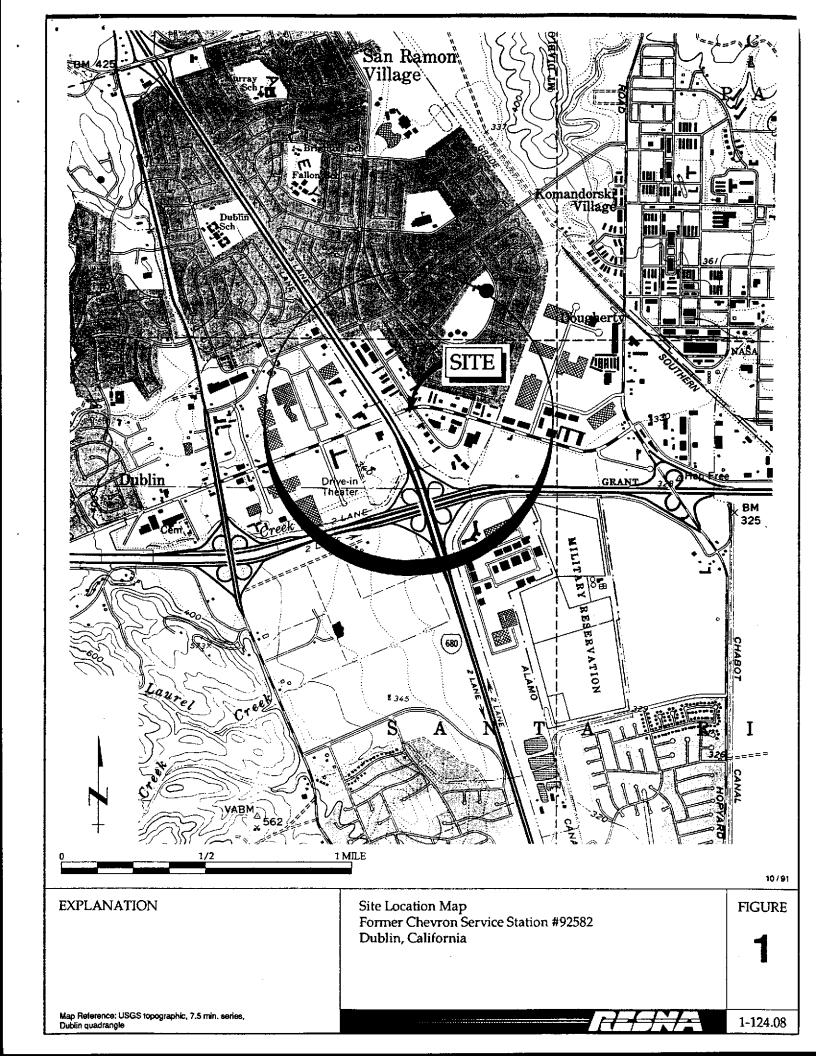
Table 2: Analytic Results: Groundwater Samples Groundwater Purging and Sampling

SOP-8: Gauging Liquid Levels Using Water Level Probe or Interface Probe

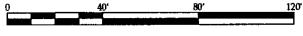
Field Sampling and Monitoring Forms

Chain-of-Custody

Laboratory Analytic Reports



DUBLIN ROAD EA-3 **322.56** Underground Storage Tanks Planter Pountain Pump Islands and Pool Planter EA-1 322.62 Concrete Pad Planter Planter Planter Station Building and Car Wash Planter Planter Property Line



EXPLANATION EA-1 322.62 Monitor Well location and groundwater elevation, feet above mean sea level 10" diameter PVC casing 322.70 - --Groundwater elevation contour, feet above mean sea level dashed where inferred, queried where uncertain Estimated direction of groundwater flow

Potentiometric Surface of Shallow Groundwater January 28, 1992 Former Chevron Service Station #92582 Dublin, California FIGURE

2

1-124.08



TABLE 1. Groundwater-Elevation Data Chevron Service Station #92582 Dublin, California

Well ID#	Date	TOC <	DTW ft	Elev-W
EA-1*	Oct 24, 1988	333.41	10.64	322.77
EA-1*	Nov 2, 1988	333.41	10.69	322.72
EA-1*	Dec 20, 1988	333.41	10.51	322.90
EA-1*	Mar 28, 1989	333.41	9.87	323.54
EA-1	Aug 2, 1989	333.41	10.34	323.07
EA-1	Nov 6, 1989	333.41	10.65	322.76
EA-1	Jan 25, 1990	333.41	10.60	322.81
EA-1	Apr 23, 1990	333.41	10.58	322.83
EA-1	Aug 1, 1990	333.41	10.88	322.53
EA-1	Oct 24, 1990	333.41	11.12	322.29
EA-1	Jan 31, 1991	333.41	11.16	322.25
EA-1	Aug 21, 1991	333.41	10.80	322.61
EA-1	Oct 7, 1991	333.41	10.79	322.62
EA-1	Jan 28, 1992	333.41	10.79	322.62
EA-2*	Oct 24, 1988	332.59	9.70	322.89
EA-2*	Nov 2, 1988	332.59	10.03	322.56
EA-2*	Dec 20, 1988	332.59	9.98	322.61
EA-2*	Mar 28, 1989	332.59	8.80	323.79
EA-2	Aug 2, 1989	332.59	9.44	323.15
EA-2	Nov 6, 1989	332.59	9.53	323.06
EA-2	Jan 25, 1990	332.59	9.27	323.32
EA-2	Apr 23, 1990	332.59	9.35	323.24
EA-2	Aug 1, 1990	332.59	9.71	322.88
EA-2	Oct 24, 1990	332.59	10.08	322.51
EA-2	Jan 31, 1991	332.59	10.21	322.38
EA-2	Aug 21, 1991	332.59	9.80	322.79
EA-2	Oct 7, 1991	332.59	9.98	322.61
EA-2	Jan 28, 1992	332.59	9.81	322.78
EA-3*	Oct 24, 1988	333.64	11.03	322.61
EA-3*	Nov 2, 1988	333.64	11.03	322.61
EA-3*	Dec 20, 1988	333.64	10.96	322.68
EA-3*	Mar 28, 1989	333.64	9.77	322.87
EA-3	Aug 2, 1989	333.64	10.65	322.99
EA-3	Nov 6, 1989	333.64	10.78	322.86
EA-3	Jan 25, 1990	333.64	10.66	322.98
EA-3	Apr 23, 1990	333.64	10.68	322.96
EA-3	Aug 1, 1990	333.64	11.03	322.61
EA-3	Oct 24, 1990	333.64	11.35	322.29



Groundwater-Elevation Data (continued) Chevron Service Station #92582 TABLE 1. Dublin, California

Well ID#	Date	TOC <	DTW ft	Elev-W >
				222.42
EA-3	Jan 31, 1991	333.64	11.52	322.12
EA-3	Aug 21, 1991	333.64		
EA-3	Oct 7, 1991	333.64	11.15	322.49
EA-3	Jan 28, 1992	333.64	11.08	322.56
PVC	Aug 2, 1989		9.83	
PVC	Nov 6, 1989			
PVC	Jan 25, 1990			
PVC	Apr 23, 1990			
PVC	Aug 1, 1990			
PVC	Oct 24, 1990			
PVC	Jan 31, 1991			
PVC	Aug 21, 1991	•==		
PVC	Oct 7, 1991			
PVC	Jan 28, 1992			

NOTES:

= Top-of-Casing Elevation = Depth to Water TOC

DTW Elev-W = Elevation of Water

= feet ft

PVC

= 10" PVC Casing = Data obtained by EA Engineering, Science and Technology, Inc.

= Not Measured

TABLE 2. Analytic Results: Groundwater Samples Chevron Station #92582 Dublin, California

Well ID#	Date	Lab	EPA Method	TPPH/TPH <	В	T ppb	E	X	1,2-DCA
EA-1*	Oct 17, 1988	NA	NA	<50.0	<0.5	<0.5	<0.5	<0.5	
EA-1*	Dec 20, 1988	PACE	8015/8020	<50.0	<0.5	<0.5	<0.5	<0.5	
EA-1*	Mar 28, 1989	PACE	8015/8020	<250	<0.5	<0.5	<0.5	<0.5	=
EA-1	Aug 2, 1989	CCAS	8260	<50.0	<0.1	<0.1	<0.1	<0.1	<0.1
EA-1	Nov 6, 1989	SAL	8015/8240	<500	<3.0	<5.0	<5.0	<5.0	<5.0
EA-1	Jan 25, 1990	SAL	8015/8020/8010	<50	<0.5	<0.5	<0.5	<0.5	<0.5
EA-1	Apr 23, 1990	SAL	8015/8020/8010	71	2	5	3	8	<0.5
EA-1	Aug 1, 1990	SAL	8015/8020	300	86	21	10	33	
EA-1	Oct 24, 1990	SAL	8015/8020	280	69	13	11	16	
EA-1	Jan 31, 1991	SAL	8015/8020	460	160	11	17	17	
EA-1	Aug 21, 1991	SAL	8015/8020	2,400	400	220	- 44	120	
EA-1D	Aug 21, 1991	SAL	8015/8020	2,300	390	210	42	120	
EA-1	Oct 7, 1991	4	Well Not Sampled	,					
EA-1	Jan 28, 1992	SAL	8015/8020	3,600	320	360	110	310	
EA-1D	Jan 28, 1992	SAL	8015/8020	3,000	290	320	99	270	
EA-2*	Oct 17, 1988	NA	NA	<50.0	<0.5	<0.5	<0.5	1.2	
EA-2*	Dec 20, 1988	PACE	8015/8020	<50.0	<0.5	<0.5	<0.5	<0.5	
EA-2*	Mar 28, 1989	PACE	8015/8020	<250	<2.0	<0.5	<0.5	<0.5	
EA-2	Aug 2, 1989	CCAS	8260	<50.0	<0.1	<0.1	<0.1	<0.1	<0.1
EA-2	Nov 6, 1989	SAL	8015/8240	<500	<3.0	<5.0	<5.0	<5.0	<5.0
EA-2	Jan 25, 1990	SAL	8015/8020/8010	<50	<0.5	<0.5	<0.5	<0.5	<0.5
EA-2	Apr 23, 1990	SAL	8015/8020/8010	50	0.6	0.8	<0.5	2	<0.5
EA-2	Aug 1, 1990	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
EA-2	Oct 24, 1990	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
EA-2	Jan 31, 1991	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
EA-2D	Jan 31, 1991	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
EA-2	Aug 21, 1991	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
EA-2	Oct 7, 1991		Well Not Sampled						
EA-2	Jan 28, 1992	SAL	8015/8020	<50	0.8	<0.5	<0.5	<0.5	

TABLE 2. Analytic Results: Groundwater Samples (continued)
Chevron Station #92582
Dublin, California

Well			EPA	TPPH/TPH	В	Т	E	X	1,2-DCA
) #	Date	Lab	Method	<	. 1220000000000	pp)		
A-3*	Oct 17, 1988	NA	NA	<50.0	1.8	<0.5	<0.5	3.0	•••
A-3*	Dec 20, 1988	PACE	8015/8020	240	90.0	1.2	13.0	3.3	
A-3*	Mar 28, 1989	PACE	8015/8020	2,300	380.0	130.0	240.0	910.0	
A-3	Aug 2, 1989	CCAS	8260	<50.0	<0.1	<0.1	<0.1	<0.1	<0.1
EA-3	Nov 6, 1989	SAL	8015/8240	<500	<3.0	<5.0	<5.0	<5.0	<5.0
EA-3	Jan 25, 1990	SAL	8015/8020/8010	<50	<0.5	<0.5	<0.5	<0.5	<0.5
EA-3	Apr 23, 1990	SAL	8015/8020/8010	<50	8.0	<0.5	0.9	<0.5	<0.5
EA-3	Aug 1, 1990	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
EA-3	Oct 24, 1990	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
EA-3	Jan 31, 1991	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
EA-3	Aug 21, 1991		Well not sampled						
EA-3	Oct 7,1991	SAL	8015/8020	180	40	20	4.7	8.4	
EA-3D	Oct 7, 1991	SAL	8015/8020	200	43	17	4.1	6.7	
EA-3	Jan 28, 1992	SAL	8015/8020	640	69	85	13	46	
PVC	Aug 2, 1989	CCAS	8260	100,000	8,700	14,000	1,700	17,000	50
PVC-D	Aug 2, 1989	CCAS	8260	110,000	9,200	14,000	1,800	13,000	50
PVC	Nov 6, 1989								
PVC	Jan 25, 1990								
PVC	Apr 23, 1990		***						
PVC	Aug 1, 1990				+				241
PVC	Oct 24, 1990								•
EB*	Mar 28, 1989	PACE	8015/8020	<250.0	<0.5	<0.5	<0.5	<0.5	
тв	Jul 28, 1989	CCAS	8260	<50.0	<0.1	<0.1	<0.1	<0.1	<0 .1
тв	Nov 6, 1989	SAL	8015/8240	<500	<3.0	<5.0	<5.0	<5.0	<5.0
TB	Jan 25, 1990	SAL	8015/8020/8010	<50	<0.5	<0.5	<0.5	<0.5	N/
тв	Apr 23, 1990	SAL	8015/8020/8010	<50	<0.5	<0.5	<0.5	<0.5	<0.5
ТВ	Aug 1, 1990	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
TB	Oct 24, 1990	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
TB	Jan 31, 1991	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
TB ·	Aug 21, 1991	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	**
ТВ	Oct 7, 1991	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
TB	Jan 28, 1992	SAL	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	

Analytic Results: Groundwater Samples (continued) Chevron Station #92582

Dublin, California

NOTES:

TPPH		FB	= Equipment Blank
TPH	= Total Petroleum Hydrocarbons as gasoline	TB	= Travel Blank
В	= Benzene	*	 Sample collected by EA Engineering,
Ť	∓ Toluene		Science and Technology, Inc.
È	= Ethylbenzene	NA	= Not Available
×	= Total Xylenes		= Not analyzed/Not applicable
1,2-DCA	= 1,2-Dichloroethane	<	= Less than the detection limit
ppb	= parts-per-billion	Gas	± Gasoline
D D	= Duplicate analysis	PACE	= Pace Laboratories, Inc.
PVC	= 10" PVC casing	CCAS	= Central Coast Analytical Laboratories, Inc.
F 4 0	= 10 1 40 0cm/rg	SAL	= Superior Precision Analytical



STANDARD OPERATING PROCEDURES RE: GROUNDWATER PURGING AND SAMPLING SOP-4

Prior to water sampling, each well is purged by evacuating a minimum of three well-casing volumes of groundwater or until the temperature, conductivity, and pH of the discharge water stabilizes. If a well is purged dry before three casing volumes have been removed, the sample will be taken after the well has recovered to within 80 percent of the static water level.

The sampling equipment consists of either a teflon or steam-cleaned PVC bailer, a stainless steel bladder pump with a teflon bladder, or submersible stainless steel pump. If the sampling system is dedicated to the well, then the bailer is made of teflon, and the bladder pump is PVC with a polypropylene bladder. A submersible stainless steel and teflon electric pump will be used for purging larger volume wells. Forty milliliter (ml) glass volatile-organic-analysis (VOA) vials, with teflon septa, are used as sample containers. For other analyses the appropriate EPA approved sampling container is used.

The groundwater sample is decanted into each VOA vial in such a manner that there is a meniscus at the top of the vial. The cap is quickly placed over the top of the vial and securely tightened. The VOA vial is then inverted and tapped to see if air bubbles are present. If none are present, the sample is labeled and refrigerated for delivery under chain-of-custody to the laboratory. Label information should include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

For quality control purposes, a duplicate water sample is collected from each well. This sample is put on hold at the laboratory. A trip blank is prepared at the laboratory and placed in the transport cooler. It remains with the cooler and is analyzed by the laboratory along with the groundwater samples. A field blank is prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been steam-cleaned, prior to use in a second well, and is analyzed along with the other samples. The field blank demonstrates the quality of in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all the well-development and water sampling equipment that is not dedicated to a well is steam-cleaned between each well. As a second precautionary measure, wells will be sampled in order of least to highest concentrations as established by previous analyses.



STANDARD OPERATING PROCEDURES RE: GAUGING LIQUID LEVELS USING WATER LEVEL PROBE OR INTERFACE PROBE SOP-8

The complete list of field equipment for liquid level gauging is assembled in the Technical office prior to departure to the field. This includes the probe(s), light filter(s), and product bailer(s) to be used for liquid levels (tested in test well before departure). The field kit also includes cleaning supplies (buckets, TSP, spray bottles, and deionized water) to clean the equipment between gauging wells.

When using the water level probe to gauge liquid levels, the probe tip is lowered into the well until the unit sounds. The top-of-casing (TOC) point is determined. This point is marked with a dot or a groove, or is an obvious high point on the casing, or is the north end of the casing. The place on the probe-cord that corresponds with this TOC point is marked and an engineer's tape is used to measure the distance between the probe end and marking on the cord. This measurement is then recorded on the liquid level data sheet as depth to water (DTW).

When using the interface probe to gauge liquid levels, the probe is first grounded by clamping it to the metal stove pipe or another metal object nearby. When no ground is available, reproduceable measurements can be obtained by clipping the ground lead to the handle of the interface probe case. After grounding the probe, the top of the well casing is fitted with a WGR light filter to insure that sunlight does not interfere with the operation of the probe's optical mechanisms. The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates that the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a solid tone. In either case, this is the depth-to-groundwater (DTW) measurement. The solid tone indicates that liquid hydrocarbon is present on top of the groundwater. To determine the thickness of the liquid hydrocarbon, the probe is slowly raised until the solid tone ceases. This is the depth-to-liquid hydrocarbon (DTLH) measurement. The process of lowering and raising the probe must be repeated several times to insure accurate measurements. DTW and DTLH measurements are recorded in hundredths of feet on the liquid level data sheet. When liquid hydrocarbon is found in a well, a product bailer must be lowered partially through the water/liquid hydrocarbon interface to confirm the thickness of liquid hydrocarbon on the water surface. This measurement is recorded on the data sheet as liquid hydrocarbon thickness (PT).

In order to avoid cross contamination of wells during the liquid level gauging process, wells are gauged in a clean to dirty order (where this information is available). In addition, any gauging equipment is cleaned with TSP and water and thoroughly rinsed with deionized water before daily use, before gauging another well on a site, and at the completion of daily use.

Project N	la. -124.08	;		Project Name	DUBLIN			Date 1-2 es-92			Initials OR 0
Well No.	HISTORIC DAT		LHT	Sounded Depth	CURRENT DAT	A: ,	LHT	Sounded Depth	Method WLP / PB /AP	Time	Comments
CN-1					-	10.19				12:16	
er.2					-	9.01	,			12:18	
er3					_	11.08				12 A	
										;	
										-	
٠.											•
		-									
-											,
	1	<u></u>	, 1, , ,	, , , , , , , , , , , , , , , , , , , 	· · · · · · · · · · · · · · · · · · ·				• WI PE	.P = Water-Leva = Product Bails = Interface Prob	i Probe

7#1

			1771	
WATER SAMPL	ING DATA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10. 11. 11.6 (1. 10.10) (1. 10.10) (1. 10.10) (1. 10.10)	anting of the Q arrier to the contract of
Project No.	Project Name	UBLIN	Well Name	Date 1-28-92 Time 3-55 Initials DO
Well DATA Well Depth (ft.) 377 DTW (ft.) 10.39	Sounded Depth (ft.) Date/Time	Well Type Monitor Well Sampling Port Other (describe)	Time Ph Probe No	, Temp Probe No. Cond Probe No.
Well Diem. (in.)	LHC Present? Yes No	LHC Thickness	; = =	
			SAMPLING	
Initial Height of Water In Casing (ft)	Formulae and Conversions r = well radjus in ft, h = ht, of water column in ft, vol. of column = x t h	Sampling Equipment Dedicated Bladder-Minp System Baller	Point of Collection 1	ime Samples Teken 1.28/92 Depth to Wester
Volume (gal)	7.48 gel / ft*	PVC Bailer 1/2 in.	University of the second of th	Depth to Wester 14.50 Refrigerated?
7.57	V casing = 0.163 gal / ft. V casing = 0.367 gal / ft.	1 1/4 in.	Sample Color Cloudy	Odor MODERATE
Volume to be Evecuated x3	Casing = 0.653 gal / ft. Val casing = 0.826 gal / ft. Val casing = 1.470 gal / ft.	Sampling Port No. Volume (gail	Sediment / Foreign Matter	
52 70	V _a casing = 2.610 gal / ft. V _{ia} casing = 4.080 gal / ft.	somme fant	Sempling Sequence 3	
Evacuation			Sample ID No. Volume Containe (ml)	Preservative Analysis Leb
Evacuated	Evacuated	Evacuated Evacuated '	01282 01440 Y	HC1 (002/80015 " 59L
Stop Time 14: 5	70 		$\left \frac{B}{A} \right $	7 - 7
Stort Time				
Minutes 50	<u> </u>			· · · · · · · · · · · · · · · · · · ·
`Amt Evec'd 55	981	geigol		
Total Evac'd	gel	_	· · · · · · · · · · · · · · · · · · ·	·
Total Minutes	atti	·		
Evec Rete 1.0	gpm			
Pumped Dry?	After (gal)	Recovery	Container P - Plastic Bottle B - Brow	n Glass
☐ Yes ØNo		Time DTW	Codes: V = VOA C = Clear	
Depth to Weter During Pumping (ft)		1	COMMENTS	•
Depth to Water for 80% Recovery	Recovery Rate (gpm)	1		
Sampled After: 80% Rec. 2 hours	% Recovery at Time of Sempling	s <u> </u>	`	•

WATER SAMPL	LING DATA				
Project No.	Project Name		Well Name	Date Time	Initials
1-12-1.00	<u> </u>	BLIN	29-2	1.28.92 12:41	0 @c
WELL DATA			CHEMICAL DATA		
Well Depth (ft.)	Sounded Depth (ft.)	Well Type Monitor Well	Time Ph Probe	a No. Temp Probe No. Cond	Probe No.
DTW (ft.)	Date/Time	Sempling Port Other (describe)		_	_
9.81		Other (describe)			umhos
Well Diam. (in.)	LHC Present? Yes ANO	LHC Thickness			
<u> </u>	(1 les , 22 les				
EVACUATION			SAMPLING		
Initial Height of Water in Casing (ft)	Formulas and Conversions	Sampling Equipment	Point of Collection	Time Semples Taken	Date
28.49	t = well redius in ft. h = ht. of water column in ft.	Dedicated Bladder Pump	PE Hose 🔲 End of Bailer	13,25	1.28.92
Volume (gel)	vol. of column = 1c r* h 7.48 gal / ft*	System Bailer PVC Bailer 1/2 in.	Other:	Depth to Water (t) 12.80	Retrigerated?
18.6	V, "casing = 0.163 gal / ft.	1 1/4 in.	Sample Color	Odor	LA TES LA TWO
	V, *casing = 0.367 gal / ft. V, *casing = 0.653 gal / ft.	☐ 3 In.	CLEM	NONE	
Volume to be Evacuated X3	V, * casing = 0.826 gal / ft,	Sempling Port No.	Sediment / Foreign Metter	,	
	V * casing = 1.470 gal / ft V * casing = 2.610 gal / ft	Volume (gal) Rate (gpm)	Sampling	·	•
55.81	V ₁₀ casing = 4.080 gal / ft.		Sequence /		ì
Evacuation			Sample ID No. Volume Conta	niner Preservative Analysis	Lab
Evacuated	Evacuated	Evacuated Evacuated	01202.6LA 40 U	1 1121 402/301	5 SAL
Stan Time 13° 7	13	·	877	775	
OBP time				<u> </u>	
Start Time 12.0	12				<u> </u>
Minutes <u>36</u>					
Amt Evac'd 56	galgal_	galget	<u> </u>		
Total Evac'd	gal				.*
Total Minutes 30	min				
Evac Rate 1.47	7				wi -
TAUC LINE	gpm				
Pumped Dry?	After (gal)	Recovery	Container P = Plastic Bottle B = Br	All	
☐ Yes ☐ No		·		rown Glass ear Glass Other: Describe	
Depth to Water During	Time	Time DTW	COLLACION		
Pumping (ft)	e 13.20	<u> </u>	COMMENTS		
Depth to Water	Recovery	2	~*		
for 80% Recovery	Rete (gpm)	3			į
Sampled After:	% Recovery at	· • · · · · · · · · · · · · · · · · · ·			
☐ 80% Rec. ☐ 2 hours	Time of Sampling	5			
WESTERN GEOLOGIC RESOUR	CES, INC. 12 / 90				Page of

WATER SAMP	LING DATA	e i de se estado en la companión de la compani	- December 1995年 Apple 1997年 - Apple 1997年 - Apple 1997年 - Apple 1997年 - 第1
Project No.	Project Name	28UN	Well Name Date 1.28.92 Time Initials DICO.
WELL DATA			CHEMICAL DATA
Well Depth (ft.) DTW (ft.) 11.08	Sounded Depth (ft.) Date/Time	Well Type Monitor Well Sempling Port Other (describe)	Time Ph Probe No. Temp Probe No. Cond Probe No.
Well Diam. (in.)	LHC Present?	LHC Thickness]
EVACUATION			SAMPLING
Initial Height of Water in Casing (ft)	Formules and Conversions r = well radius in ft. h = irt. of water column in ft.	Sampling Equipment Dedicates Disladder Pump	Point of Collection Time Samples Taken Data 1 20 92
Make a facil	vol. of column = 7: 1* h 7.40 gel / ft*	System Beiler PVC Beiler 1/2 in.	Other: Depth to Water (h) Depth to Water (h) Depth to Water (h) Refrigerated? No
A. BA	V, *casing = 0.163 gal / ft. V, *casing = 0.367 gal / ft. V, *casing = 0.653 gal / ft.	1 1/4 in. 3 in.	Sample Color Odor None
Volume to be Evacuates?	V ₄₅ * cesing = 0.826 gel / ft. V ₆ * cesing = 1.470 gel / ft. V ₇ * cesing = 2.610 gel / ft.	Sampling Port No. Volume (gal) Rate (gpm)	Sempling Sempling
AA	V ₁₀ * casing = 4.080 gel / ft.		Sequence 2
Evacuation Evacuated	Evacuated	Evacuated Evacuated	Sample 10 No. Volume Container Preservative Analysis Lab C1282-034 40 V ITCI 602/805 30
Step Time		/	1 - 377 7
Start Time Minutes	<u> </u>		
Amt Evac'd A	2 gelgell	gal gal	
Total Minutes	min		
Evec Rate	<u>; O</u> gpm		
Pumped Dry?	After (gel)	Recovery Time DTW	Container P = Plastic Bottle B = Brown Blass Codes: V = VOA C = Clear Glass Other: Describe
Depth to Weter During Pumping (ft)	Time P3: 25	1	COMMENTS
Depth to Water for 80% Recovery	Recovery Rete (gpm)	3	
Sampled After: B0% Rec. 2 hours	% Recovery at Time of Sampling	5	

WATER SAMP	LING DATA	estroperates granteni en gent e n glist a	不動物。新春經過鐵鐵路(1917年) 李尔斯·西斯·西斯·西斯·西斯·西斯·西斯·西斯·西斯·西斯·西斯·西斯·西斯·西斯
Project No. j-}2-1.0 8	Project Name D い ほ に		Well Name Date Time Initials T. BLANK 1.28.72 DO
WELL DATA			CHEMICAL DATA
Well Depth (ft.)	Sounded Depth (ft.)	Well Type Monitor Well Sempling Port	Time Ph Probe No, Temp Probe No, Cond Probe No.
DTW (ft.)	Dete/Time	Other (describe)	1 umhos
Well Diam. (in.)	LHC Present?	LHC Thickness	3
EVACUATION			SAMPLING
Initial Height of Water In Casing (ft)	Formulae and Conversions r = well redius in ft. h = ht. of water column in ft.	Sampling Equipment Dedicated Disadder Pump	Point of Coffection Time Samples Taken Date PE Hose
Volume (gel)	vol. of column = \$ 1 h 7.48 get / ft*	System Bailer PVC Bailer 1/2 in	□ Other: □ Depth to Water Refrigerated? □ Yes □ No
	V, "casing = 0.183 gal / ft. V, "casing = 0.387 gal / ft. V, "casing = 0.653 gal / ft.	1 1/4 in.	Sample Color Odor Clear none
Volume to be Evecuated x3 x4	V ₄₅ casing = 0.826 gal / ft. V ₄ casing = 1.470 gal / ft.	Sampling Port No. Volume (gal) Rate (gpm)	Sediment / Foreign Metter
	V ₁₈ * casing = 2.810 gal / ft. V ₁₈ * casing = 4.080 gal / ft.		Sampling Sequence
Evacuation			Sample ID No. Yolume Container Preservative Analysis Lab
Evocuated	d Evecuated	Evacuated Evacuated	01282.04A 40 V HCI 402/8015 SAL
Stop Time	-		B 7 1 2 2
Start Time	- /		
Amt Evec'd	gelgel	gai gai	
Total Evec'd	gel		
Total Minutes	min		
Evec Rate	gpm		
Pumped Dry?	After (gel)	Recovery Time DTW	Container P = Plastic Bottle B = Brown Sless Codes: V = VOA C = Clear Glass Other: Describe
Depth to Water During Pumping (ft)	Time	1	COMMENTS
Depth to Water	Recovery	2	
for 80% Recovery	Rate (gpm)	4	
Sempled After: ☐ 80% Rec. ☐ 2 hours	% Recovery at Time of Sampling	5	

WATER SAMPLING DATA		
Project No. 1-12-64.0 €	DUBLIN	Well Name 11 Date Time Initials
Well DatA Well Depth (ft.) Date/Time Date/Time Date/Time Well Diam. (in.) LHC Present? Yes No Sounded Depth (ft.) Date/Time Pormulas and Conversions r = well redius in ft. h = ht. of weter column in ft. vol. of column = π r²h 7.48 gal / ft V, "casing = 0.163 gal / ft. V, "casing = 0.367 gal / ft. V, "casing = 0.826 gal	Well Type Monitor Well Sampling Port Other (describe) LHC Thickness Sampling Equipment Dedicated Bladder Pump System Bailer PVC Bailer 1/2 in. 1 1/4 in. 3 in. Sampling Port No.	Time Probe No. Temp Probe No. Cond Probe No. 1
V casing = 2.610 gal / ft V casing = 4.080 gal / ft Evacuation Evacuated Evacuated Stop Time Start Time Minutes Amt Evac'd Total Evac'd Total Minutes Evacuated Stop Time Minutes Amt Evac'd gal Total Minutes Evac Rate gpm	Volume (gal) Rate (gpm)	Sampling Sequence
Pumped Dry? After (gal) Yes No Depth to Water During Pumping (ft) Depth to Water for 80% Recovery Rate (gpm) Sampled After: 80% Rec. 2 hours WESTERN GEOLOGIC RESOURCES, INC. 12/90	Recovery	Container P - Piestic Bottle B - Brown Glass Codes: V - VOA C - Clear Glass Other: Bescribe COMMENTS PLEME RETRIC & WATER SAMPLING FORM EA-1 FOIR FUILTIBLE INFO. Page of

Fax copy of Lab Report and COC to Chevron Contact: No Chain-of-Custody-Record Chevron Contact (Name) Clint Posts Chevron Facility Number 925 82 (Phone) 842-8658 Facility Address ____ Chevron U.S.A. Inc. Consultant Project Number 1-12-4. 08 Laboratory Name <u>5AL</u> P.O. BOX 5004 Laboratory Release Number 26/2800 Consultant Name NGR/RESNA San Ramon, CA 94583 Address 73 DIGHTAL DR NOVATO, 91919 Samples Collected by (Name) Dean To BAKL FAX (415)842-9591 Project Contact (Name) <u>L13 Adams</u> 415 (Phone) <u>382-7400 (Fax Number)</u> 7415 Collection Date 1/28/92 Signature DUONK OSCKI Air Charcoal Analyses To Be Performed Purgeable Aromatics (8020) Purgeable Halocarbons (8010) Purgachle Organica (8240) Extractable Organica (8270) 900 Remarks U.53 01282,01 ABC Yes HCI 15.38 Please initial: Samples Stored in ic Appropriate containers. Samples preserved. VOA's without head pace Date/Time 10:15 Date/Time /0:15 Received By (Signature) Relinquished By (Signoture) Organization Organization Turn Around Time (Circle Choice) Express I 1-29-50 7)=5/10/ 24 Hre. Date/Time [2] | Received By (Signature) Relinguished By (Signature) Organization Organization 48 Hre. Date/Time EXP I 1-29-92 (18 Days Recieved For Abbaratory By (Signature) Date/Time Relinquished By (Signature) Organization Date/Time



1555 Burke, Unit 1 • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 12741

DATE RECEIVED: 01/29/92

CLIENT: Resna/Western Geologic Resources

DATE REPORTED: 02/03/92

CLIENT JOB NO.: 1-124.08

Lab Number	Customar	Sample I	Page 1 of		Dat		Date
Dan Mammer	Cuscomer	squbre 10	dentificati	.011	Sampl	.e u	Analyzed
12741- 1	01282.01				01/28	/92	01/30/92
12741- 2	01282.02				01/28	•	01/31/92
12741- 3	01282.03				01/28	/92	01/30/92
12741- 4	01282.04				01/28	/92	01/30/92
12741- 5	01282.05				01/28	/92	01/30/92
Laboratory 1	Number:	12741	12741	12741	12741	127 5	
ANALYTE LIS	r	Amounts	/Quantitati	on Limits	(ug/L)		
OIL AND GREA	ASE:	NA	NA	NA	NA	NA	
TPH/GASOLIN		3600	ND<50	640	ND<50	300	00 1
TPH/DIESEL 1	RANGE:	NA	NA	NA	NA	NA	7
BENZENE:		320	0.8	69	ND<0.5	290	
TOLUENE:		360	ND<0.5	85	ND<0.5	320)
ETHYL BENZE	NE:	110	ND<0.5	13	ND<0.5	99	
XYLENES:		310	ND<0.5	46	ND<0.5	270)