

2938 McClure Street, Oakland, CA 94609

415-465-1100

MAY 25 '89 H.C.H. 24 May 1989

Gordon Davitt Chevron USA P.O. Box 5004 San Ramon, CA 94583-0804

> Re: Operating Chevron Service Station #90076 4625 Foothill Boulevard Oakland, California WA Job #4-417-00

Dear Mr. Davitt:

At the request of Chevron USA, Weiss Associates (WA) collected ground water samples from four monitoring wells on 28 April 1989 at operating Chevron Service Station #90076 in Oakland, California (Figure 1). About 0.01 feet of floating product was detected in ground water well C-2 (Figure 2). Total purgeable petroleum hydrocarbons (TPPH) were detected in concentrations greater than 1,000 parts per billion (ppb) in ground water samples from wells C-2 and C-4. Benzene was detected in concentrations above the California Department of Health Services (DHS) recommended action level for drinking water in ground water samples in all four wells, ethylbenzene was above DHS action levels in well C-2, and toluene and xylene was above DHS action levels in wells C-2 and C-3.

GROUND WATER SAMPLING

WA environmental technicians Andy Rodgers and Tim Wickens collected ground water samples from monitoring wells C-1, C-2, C-3 and C-4 on 28 April 1989. Well C-2 contained about 0.01 ft free-floating product. Well C-3 was purged of at least four well-casing volumes of ground water using steam-cleaned PVC bailers. Wells C-1, C-2 and C-4 were bailed dry after about 3 to 20 gallons of water were purged and the wells sampled after the water level had recovered to 80% of its static water level. Each sample was decanted from a steam-cleaned Teflon sampling bailer into a 40 ml glass volatile organic analysis vial (VOA) with a Teflon septum, preserved with sodium bisulfate, and refrigerated for transport to Superior Analytical Laboratory, Inc. of San Francisco, California. To reduce the possibility of sample contamination during transport or storage, each sample was sealed within a plastic guard bottle containing granular activated carbon. This sampling methodology and sample handling

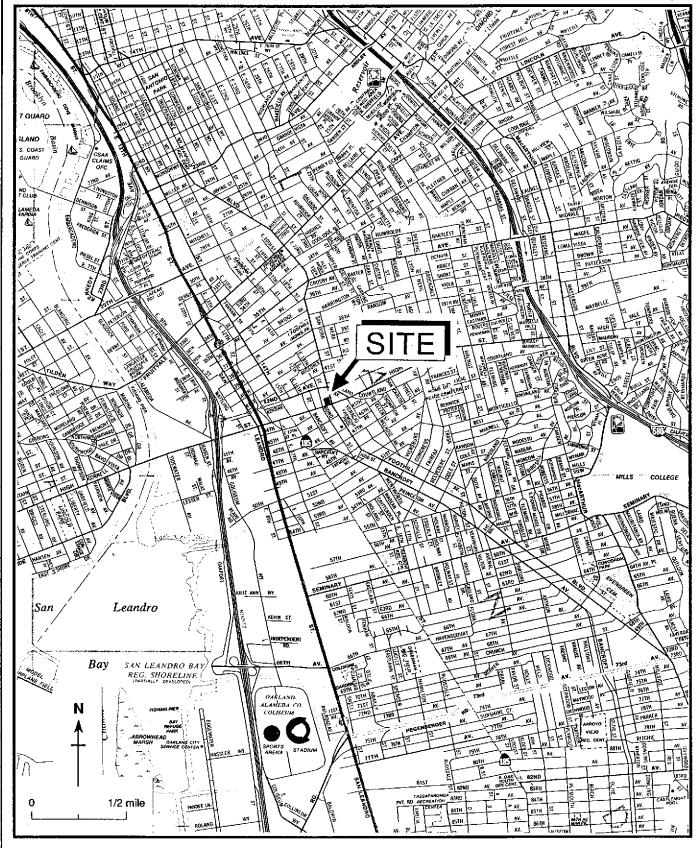


Figure 1. Site Location Map - Chevron Service Station #90076, Oakland, California

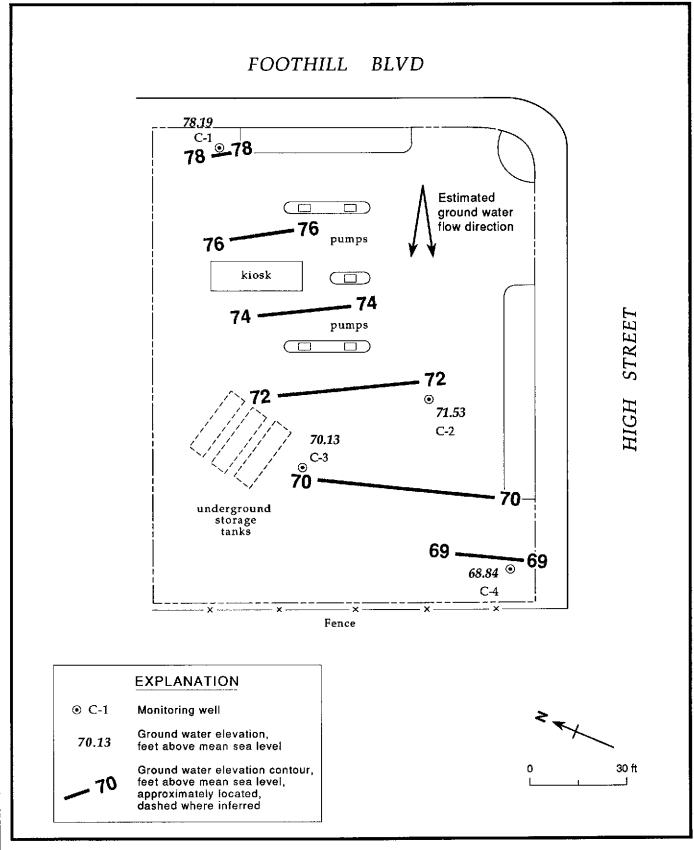


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - April 28, 1989 - Chevron Service Station #90076, Oakland, California



Mr. Gordon Davitt 24 May 1989

protocol is consistent with generally accepted ground water sampling procedures. The water sample collection and chain of custody records are included as Attachments A and B, respectively.

A bailer blank and a travel blank were shipped with the ground water samples. The bailer blank was prepared by pouring distilled water into a steam-cleaned bailer before sample collection. The water was then decanted from the bailer into a 40 ml VOA, preserved, refrigerated and transported to the laboratory with the ground water samples. A travel blank of certified organic-free boiled distilled water, supplied by the laboratory, accompanied the samples to provide assurance that contamination was not introduced during sample bottle transport or sample storage.

GROUND WATER GRADIENT

Water levels for all monitoring wells were measured on 28 April 1989. Top of casing elevations determined by previous investigators were used to calculate the ground water gradient and flow direction. Ground water elevations are presented in Table 1 and ground water elevation contours are plotted on Figure 2. The gradient appears unusually steep, with a ground water elevation difference of about 10 ft across the site.

TABLE 1. Ground Water Elevation Data, 28 April 1989, Operating Chevron Service Station #90076, Oakland, California

Well ID	Date	Top-of-Casing Elevation (project datum)	Depth to Water (ft)	Ground Water Elevation (project datum)
C-1	1-12-89 4-12-89	98.24	23.25 20.05	74.99 78.19
C-2	1-12-89 4-12-89	97.97	 26.44	71.53
C-3	1-12-89 4-12-89	98.13	29.48 28.00	68.65 70.13
C-4	1-12-89 4-12-89	96.28	29.49 27.44	66.79 68.84

Mr. Gordon Davitt 24 May 1989 5

CHEMICAL ANALYSES

The ground water samples were analyzed for total purgeable petroleum hydrocarbons (TPPH) by EPA Method 8015 and benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8020. The results of the water analysis are presented in Table 2 and the analytic reports are included as Attachment C. TPPH was detected in concentrations greater than 1,000 ppb in wells C-2 and C-4, benzene above DHS action levels in all four wells, ethylbenzene above DHS action levels in C-2, and toluene and xylenes above DHS action levels in wells C-2 and C-4.

We appreciate the opportunity to provide hydrogeologic consulting services to Chevron and trust that this report meets your needs. Please call me if you have any questions.

TERED GEOLOGIA

ANO. EG 1112

CERTIF-ED
ENGINEEFING
GEOLOGIST

ATE OF CALIFORNIA

Sincerely, Weiss Associates

James W. Carmody Project Geologist

Richard B. Weiss Principal Hydrogeologist

JC/RBW/js

F:\ALL\CHEV\417LMY16.WP

Attachments: A - Water Sample Collection Records

B - Chain of Custody

C - Analytic Reports

TABLE 2. Analytic Results for Ground Water, Operating Chevron Service Station #90076, Oakland, California

Sample ID	Sample Date	Analytic Method	Analytic Lab	TPPH <	В	E parts per billion	т	x
C-1	4/28/89	8015/8020	SUP	940	30	11	1.3	13
C-2	4/28/89*	8015/8020	SUP	120,000	30,000	3,000	22,000	17,000
C-3	4/28/89	8015/8020	SUP	<500	1.7	<0.5	<0.5	<0.5
C-4	4/28/89	8015/8020	SUP	20,000	6,300	230	550	1,500
Travel Blank	4/28/89	8015/8020	SUP	<500	<0.5	<0.5	<0.5	<0.5
DHS Action Levels				NE	0.7	620	100	680

Abbreviations:

TPPH = Total purgeable petroleum hydrocarbons

B = Benzene

E = Ethylbenzene

T = Toluene

X = Xylenes

* = Free-floating product in well

DHS Action Levels = Department of Health Services Recommended
Action Levels for Drinking Water

NE = DHS action level for TFHC not established

Analytic Laboratory:

SUP = Superior Analytical Laboratory, Inc., San Francisco, California

Analytic Method:

8015 = Modified EPA Method 8015, Total Purgeable Petroleum Hydrocarbons 8020 = EPA Method 8020, Aromatic Volatile Hydrocarbons



ATTACHMENT A WATER SAMPLE COLLECTION RECORDS

Pumped dry? After 20 gal. Recovery rate ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Taurela batton & green slade with likely Strake was out of chemical DATA Temperature OC Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab (2) 485417-1 40 ml		WATER SAMPLING DATA Well Name 6-1 Date 4-28-89 Time 16-20
Location Morths with type		Job Name/Number Chev. Oakland II 4-417-00 Initials MSI
WELL DATA: Well type Depth to Water 20.03 ft (pump/stat) Maximum Drawdown Limit (Mpl) Ft Well depth 37.38 ft (sounded) Well depth ft (spec) Well diameter 2 in. TOC height above ground ft Volume Evacuated: Pumped Pumped Batt66 Time: Stop Start Total hrs/min Total Evacuated 20 gal. Evacuation Rate O, YY gpm Bailer # and type		
Well depth 39.58 ft (sounded) Well depth ft (spec) Well diameter 3 in. Tot height above ground ft Water elev. ft Volume Evacuated: Pumped Pumped Batted Time: Stop Time: Stop Total hrs/min Total hrs/min Total Bvacuated 20 gal. Evacuation Rate 0, Yy gpm Bailer # and type		WELL DATA: Well type (Describe: M = monitoring well)
Well depth 39.58 ft (sounded) Well depth ft (spec) Well diameter 3 in. Tot height above ground ft Water elev. ft Volume Evacuated: Pumped Pumped Batted Time: Stop Time: Stop Total hrs/min Total hrs/min Total Bvacuated 20 gal. Evacuation Rate 0, Yy gpm Bailer # and type		Depth to Water 2005 ft (nump/stat) Maximum Drawdown Limit (MDI) ft
Well diameter 3 in. TOC height above ground ft Water elev. ft Volume Evacuated Pumped Pumped Battled Time: Stop Start		Well denth 29.58 ft (sounded) Well denth ft (spec)
Volume Evacuated: Pumped Time: Stop Time: Stop Total hrs/min Total Evacuated Evacuation Rate O, YY Evacuation Rate O, YY Evacuation Rate Description Initial height of water in casing = 19.53 ft; volume = 7.1 gal. XY Evacuation at drawdown limit = 3 x initial volume = 2 gal. Evacuation at sampling point = 1 x initial volume = 2 gal. Evacuation at drawdown limit = 3 x initial volume = 2 gal. Evacuation of sediment and/or foreign matter in sample: Exactive Superior Foint of collection: As 3 initial volume = 2 gal. Foint of collection: As 3 initial volume = 2 gal. Foint of collection: As 3 initial volume = 2 gal. Foint of collection: As 3 initial volume = 2 gal. Foint of collection: As 3 initial volume = 2 gal. Foint of collection: As 3 initial volume = 2 gal. Foint of collection: As 4 initial volume = 2 gal. Foint of collection: As 4 initial volume = 2 gal. Foint of collection: As 4 initial volume = 2 gal. Foint of collection: As 4 initial volume = 2 gal. Foint of collection: As 4 initial volume = 2 gal. Foint of collection: As 4 initial volume = 2 gal. Foint of collection: As 4 initial volume = 2 gal. Foint of collection: As 5 initial volume = 2 gal. Foint of collection: As 5 initial volume = 2 gal. Foint of collection: As 5 initial volume = 2 gal. Foint of collection: As 5 initial volume = 2 gal. Foint of collection: As 5 initial volume = 2 gal. Foint of collection: As 5 initial volume = 2 gal. Foint of collection: As 5 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial volume = 2 gal. Foint of collection: As 6 initial		
Time: Stop Start Total hrs/min Total bracuated 20 gal. Formulaes 13.00 Total Bracuated 20 gal. Formulaes 1.51 M. Total Bracuated 20 gal. Formulaes 1.52 M. Formulaes 1.52 M. Total Bracuated 20 gal. Formulaes 1.52 M. Formulaes 1.52 M. Formulaes 1.53 M. Total bracuated 20 gal. Formulaes 1.53 M. Formulaes 1.53 M. Total to be accurated Formulaes 1.53 M. Formulaes 1.54 M. Formulaes 1.55 M. Formula		
Total hrs/min Total Evacuated 20 gal. Evacuation Rate 0, 97 gpm Pump # and type Bailer # and type 1.61.		Time: Ston
Total brs/min Total Evacuated 70 gal. Evacuation Rate 0.44 gpm Pump # and type Hose # and type Bailer # a		Total Control
Total Evacuated		
Evacuation Rate O, 44 gpm Pump # and type		vol. in cyl, = \pir^h
Fump # and type Bailer # and type \(\frac{1}{12} \) Bailer # \(\fra		
Pump # and type Bailer # and type Volume V		Evacuation Rate 0.105 gal/ft $V_2 \text{ casing = 0.367 gal/ft}$
Hose # and type		V ₄ -casing = 0.653 gal/ft
Sampling Port: Rategpm Volumegal. Location/description		Hose # and type Baller # and type 5 tetto / V4 5" casing = 0.826 gal/ft
Sampling Port: Rate		V ₀ " casing = 2.61 gal/ft
Initial height of water in casing - 19.53 ft; volume - 7.1 gal.x 4 Evacuation at drawdown limit = 3 x initial volume - gal. Evacuation at sampling point = 1 x initial volume - gal. Evacuation at sampling point = 1 x initial volume - gal. Total to be evacuated - 29 gal. Water Color: Mont		•
Initial height of water in casing = 19.53 ft; volume = 7.1 gal.xy Evacuation at drawdown limit = 3 x initial volume = gal. Evacuation at sampling point = 1 x initial volume = gal. Total to be evacuated = 29 gal. Water Color: Name = Odor: Name = gal. Water Color: Name = Odor: Name = gal. Point of collection: Gal at 1 telescent = 1 time Sample: Factor Reservation Point of collection: Gal at 1 telescent = 1 time Sampling 26.62 ft 16:13 time 802=24 one Pumped dry? After 10 gal Recovery rate ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Jacob Settom & Series Series Settom & Series Se		Joseph description
Evacuation at drawdown limit = 3 x initial volume - gal. Evacuation at sampling point = 1 x initial volume - gal. Total to be evacuated - 29 gal. Water Color: Manc Odor: Manc Strain of First Rose Description of sediment and/or foreign matter in sample: First Rose Point of collection: A 3 teffe below Factor of the Sampling 26.62 ft 16:13 time 80% = 24 on. Depth to water during pumping ft time Sampling 26.62 ft 16:13 time 80% = 24 on. ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over) Tauch below & cree Shede with the Stock with the		Locactory description
Evacuation at drawdown limit = 3 x initial volume - gal. Evacuation at sampling point = 1 x initial volume - gal. Total to be evacuated - 29 gal. Water Color: Manc Odor: Manc Strain of First Rose Description of sediment and/or foreign matter in sample: First Rose Point of collection: A 3 teffe below Factor of the Sampling 26.62 ft 16:13 time 80% = 24 on. Depth to water during pumping ft time Sampling 26.62 ft 16:13 time 80% = 24 on. ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over) Tauch below & cree Shede with the Stock with the		Initial height of water in engine - 10 53 ft. volume - 71 gal 441 a
Evacuation at sampling point = 1 x initial volume =		Execustion of drowdown limit = 2 w initial realisms = gal. x 4
Water Color: Description of sediment and/or foreign matter in sample: Fire white sequence		
Water Color: None Odor: None Stranger first line Description of sediment and/or foreign matter in sample: Fire Chine Supposed Point of collection: Sale of 1 tells baile Sampling 26.62 ft [6:13 time 802=24 on Pumped dry? After 20 gal. Recovery rate ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Javeds batton screen slade with the strake we can wone of the CHEMICAL DATA Temperature OC Thermometer # Specific Conductance umhos ph Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab 45 45 47 - 1 40 ml		
Description of sediment and/or foreign matter in sample: Fire Chie St. Model Point of collection: Col. of 3' lefter below the second of the following pumping of the sampling 26.62 ft 16:13 time 80% = 24' of time Sampling 26.25 ft 16:13 time 80% = 24' of time Sampling 26.25 ft 16:13 time 80% = 24' of time Sampling 26.25 ft 16:13 time 80% = 24' of time Sampling 26.25 ft 16:13 time Sampling 26.25		Hater Color: (4) Gdorf 4 (6) 5 (7)
Point of collection: Af 3' lefton bails and second and		Description of codiment and/or forcing matter in complete Codiment and/or forcing matter in codiment and/or forcing matter in complete Codiment and/or forcing matter in complete Codiment and/or forcing matter in complete Codiment and/or forcing matter in codiment and/or forcing ma
Pumped dry? After 20 gal. Recovery rate ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Touch bottom, some shade with fines, etc. (over). Touch bottom, some shade with fines, etc. (over). Touch bottom PH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab (2) 485417-1 40 ml		Descripcion of sediment and/or foreign matter in sample. Fine White Sis finded
Pumped dry? After 20 gal. Recovery rate ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Touch bottom, some shade with fines, etc. (over). Touch bottom, some shade with fines, etc. (over). Touch bottom PH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab (2) 485417-1 40 ml		Point of collection: (c () 2/ 1/4 1: 4 FE 450 # FE
Pumped dry? After 20 gal. Recovery rate ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Touch bottom, some shade with fines, etc. (over). Touch bottom, some shade with fines, etc. (over). Touch bottom PH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab (2) 485417-1 40 ml		Denth to water during numning ft time Compling 3/ /3 ft // 12 time vol a.
ADDITIONAL COMMENTS, LOCATION SKETCH, ENVIRONMENTAL CONDITIONS, e.g., weather, van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Towards bottom is seen as later with times, etc. (over). Towards bottom is seen as later with times, etc. (over). Towards bottom is seen as later with times, etc., pump on/off times, etc. (over). Towards bottom in the seen as later with times, etc., pump on/off times, etc		before to water, during pumping it time bamping 26.82 it _10:10 time 8.4.24 on
van running nearby, problems with equipment or sampling, etc., pump on/off times, etc. (over). Januaria bottom a great shade with black Stacks we coming up out of CHEMICAL DATA Temperature OC Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab 4.0, 10.0 Mason Refrigerated Re		
times, etc. (over). Touris Soften Screen Solder with block Strakt we come of of GHEMICAL DATA Temperature OC Thermometer # Specific Conductance umhos pH Calibration 4.0, 7.0, 10.0 Calibration Temp. OC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N - No) (R - Refrigerated) Analysis Lab YSTH7-1 40 ml	\cdot	running nogration problems with againment of semaling at a number of left
Temperature OC Thermometer # Specific Conductance umhos pH		times etc (over) Touch Life and the first times are the sampling, etc., pump on our times
Temperature OC Thermometer # Specific Conductance umhos pH		CHEMICAL DATA
PHCalibration4.0,7.0,10.0 Calibration TempOC SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample		Temperature OC Thermometer # Specific Conductance sumbos
SAMPLES COLLECTED: Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab V NHSO, R PH+OETS SAM. ml		
Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab (2) 485417-1 40 ml C/V N MASO R TPH+OFTX SVP. ml ml ml ml ml ml ml ml ml m		pH Calibration 4.0, 7.0, 10.0 Calibration Temp °C
Bottle/ Filtered Preservative Sample Cap (size, u) (specify) ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab (2) 485417-1 40 ml C/V N MASO R TPH+OFTX SVP. ml ml ml ml ml ml ml ml ml m		
Sample Cap		SAMPLES COLLECTED:
ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab (2) 48947-1 40 ml c// N/490 R 7PH + OETX SVP. ml ml ml ml ml ml ml ml ml m		Bottle/ Filtered Preservative
(2) 485417-1 40 ml c// N/450 R 794 + OETX S/P. ml ml ml ml ml ml ml ml ml m		Sample Cap (size, u) (specify)
(2) 485417-1 40 ml C/V N/450 R 7PH + OETX SVP. ml ml ml ml ml ml ml ml ml m		ID No. (Specify) (N = No) (R = Refrigerated) Analysis Lab
ml m	(2)	
ml m	C 1	
ml m		ml
ml ml ml ml ml ml ml ml composition of the control		ml
ml ml ml ml ml ml ml ml ml comparison Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)		ml
ml ml ml Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)		ml
Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)		ml
Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)		$_{ m ml}$
Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)		
Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)		
0 = Other (describe)		
0 = Other (describe)		Bottles: P = Polyethylene: Pp = Polypropylene: C or B = Clear/Brown Glass:
		Additional Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal

	Well Name	('2	Date 4/28/89	Time (つ)	70
Job Name/Number	Chevron Oa		1 4-417.00	Initials 7	1.)
Well Spring	Surface	Other	7 11 3	— -	
Location	east-most				· · · · ·
WELL DATA: Well type	: W	- fames	(Docaribe: M	- monitoring	wall
Depth to Water 26.		Janah Ma	(beschoe, n ximum Drawdown Limi	~,	
	34 ft (sou		TI GOPON	ft (spec)	
Well diameter 3 in	_	_		cer erea. YIV	ft
Volume Evacuated:	Pumped	Pumped	Bailed		
Time: Stop	/ -		- 13:5 t	Formulas/Conversion	ons
Start	/ -		・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	pq	1
Total hrs/min			20min 4121	h = ht of water co vol. in cyl. = 1 r ²	
Total Evacuated	<u>3</u> gal.			7.48 gal/ft ³	••
Evacuation Rate	0.15 gpm			V_2 " casing = 0.163	
			,	V ₃ " casing € 0.367	
Pump # and type	Baile	r # and ty	pe evac 3 teallon # E	V_4 " casing = 0.653 - $V_{4.5}$ " casing = 0.8	gar/it 26 gal/ft
Hose # and type		,	Sample: Samo #E	V_c " casing = 1.47	gal/ft
<u> </u>			38112	V8" casing = 2.61	gal/ft
Sampling Port: Rate	 вр	m- Volume	gal.		
Location/description	6P			÷	
20002019 000021 00101	4				
Initial height of wa	tor in cooin	~ _ 5<	D ft. maluma	9 16 201 4	Ч ~
Francisco et deced	icer in casin	g = <u>'J,</u>	TC; Volume = _		ソ
Evacuation at drawdo				gal.	
Evacuation at sampli				gal.	
	_		racuated = 8.7	_ gal. —	
Water Color: NOW			Odor: Slight whom		 , , ,
Description of sedim	ent and/or f	oreign mat	ter in sample: <u> </u>	light turbidity—	tire white,
			A	Suspended	<u>Sitty</u> turbidu
Point of collection:	_decasted	from end	at 3 technology bailer	THE 1	′
Depth to water durin	ng pumping	- ft	time \Sampling	27 SI ft 15127	time
					, 01110
Pumpad dry? es Af	ter <u>3</u> ga	1. Recove	ry rate 3.89 ft/6	r	
Pumpast dry? <u>es</u> Af ADDITIONAL COMMENTS,	ter <u>3</u> ga	l. Recove ETCH, ENVI	ry rate 3.89 ft/W	r NS, e.g., weat	her,
Pumpad dry? <u>es</u> Af ADDITIONAL COMMENTS, van running nearby,	ter <u>3</u> ga	l. Recove ETCH, ENVI	ry rate 3.89 ft/W	r NS, e.g., weat	her,
Pumped dry? <u>.es</u> Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over).	ter <u>3</u> ga	l. Recove ETCH, ENVI	ry rate 3.89 ft/W	r NS, e.g., weat	her,
Pumped dry? Les Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature	ter <u>3</u> ga LOCATION SK problems wit	l. Recove ETCH, ENVI h equipmer	ry rate 3,89 ft/w RONMENTAL CONDITION at or sampling, etc	NS, e.g., weat	her,
Pumped dry? Les Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature	ter <u>3</u> ga	l. Recove ETCH, ENVI h equipmer	ry rate 3.89 ft/W	NS, e.g., weat	her,
Pumped dry?es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature :oc	ter <u>3</u> ga LOCATION SK problems wit	1. Recove ETCH, ENVI h equipmer	ry rate 3,89 ft/w RONMENTAL CONDITION at or sampling, etc	NS, e.g., weat , pump on/off	her,
Pumped dry?es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature :oc	ter <u>3</u> ga LOCATION SK problems wit	1. Recove ETCH, ENVI h equipmer	ry rate 3,89 ft/w RONMENTAL CONDITION at or sampling, etc	NS, e.g., weat , pump on/off	her,
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc pH Galibration	ter 3 ga LOCATION SK problems wit Thermometer 4.0,	1. Recove ETCH, ENVI h equipmer	ry rate 3,89 ft/w RONMENTAL CONDITION at or sampling, etc	NS, e.g., weat , pump on/off	her,
Pumped dry?es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature :oc	ter 3 ga LOCATION SK problems wit Thermometer 1 4.0,	1. Recove ETCH, ENVI h equipmer #	ry rate 3,89 ft/w RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration	NS, e.g., weat , pump on/off	her,
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature : OC pH Galibration SAMPLES COLLECTED:	ter 3 ga LOCATION SK problems wit Thermometer 1 4.0, Bottle/	1. Recover ETCH, ENVI	ry rate 3,89 ft/w RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative	NS, e.g., weat , pump on/off	her,
Pumped dry?es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C PH Galibration SAMPLES COLLECTED: Sample	Thermometer A ga LOCATION SK problems wit Thermometer A 4.0, Bottle/ Cap	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify)	NS, e.g., weat ., pump on/off	her, s
Pumped dry?es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature CC PH Galibration SAMPLES COLLECTED: Sample ID No.	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her,
Pumped dry?es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml	Thermometer A ga LOCATION SK problems wit Thermometer A 4.0, Bottle/ Cap	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify)	NS, e.g., weat ., pump on/off	her, s
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumped dry?es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature : °C PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml ml ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 049417-2 40 ml ml ml ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumpsed dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 049447-2 40 ml ml ml ml ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumpsed dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature CC PH Galibration SAMPLES COLLECTED: Sample ID No. (z) 049417-2 40 ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumpsed dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc pH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumpsed dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc pH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumpsed dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc pH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml	Thermometer A dispersion of the second seco	1. Recover ETCH, ENVI	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp0 Analysis	her, s
Pumpad dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature C PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 049447-2 40 ml	Thermometer A.O. Bottle/ Cap (Specify) C/V	1. Recove ETCH, ENVI h equipmer # 7.0, Filtered (size, u) (N = No)	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp Analysis \[\frac{PH+BETX}{} \]	Lab
Pumpad dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature CC PH Galibration SAMPLES COLLECTED: Sample ID No. (z) 049417-2 40 ml	Thermometer A 4.0, Bottle/ Cap (Specify) C/V	1. Recove ETCH, ENVI h equipmer # 7.0, Filtered (size, u) (N = No)	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nce umho n Temp Analysis \[\frac{PH+BETX}{} \]	Lab
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature .	Thermometer 1 4.0, Bottle/ Cap (Specify)	1. Recove ETCH, ENVI h equipmer # 7.0, Filtered (size, u) (N = No)	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated) 12.4 C	NS, e.g., weat , pump on/off nceumho n Tempo Analysis \[\frac{\text{PH+BETX}}{} \] = Clear/Brown	Lab
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature oc PH Galibration SAMPLES COLLECTED: Sample ID No. (2) 04947-2 40 ml	Thermometer A	1. Recove ETCH, ENVI h equipmer # 7.0, Filtered (size, u) (N = No)	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated) 10.1 Calibration Preservative (specify) (R = Refrigerated) 10.1 Calibration Preservative (specify) (R = Refrigerated) 10.1 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weat ., pump on/off nceumho n Tempo Analysis \[\frac{\text{PH} + \text{BETX}}{} \] = Clear/Brown ; M = Metal	Lab Sup Glass;
Pumped dry? _es Af ADDITIONAL COMMENTS, van running nearby, times, etc. (over). CHEMICAL DATA Temperature .	Thermometer A	1. Recove ETCH, ENVI h equipmer # 7.0, Filtered (size, u) (N = No)	RONMENTAL CONDITION at or sampling, etc Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated) Nation Preservative (specify) (R = Refrigerated)	NS, e.g., weat , pump on/off nceumho n Tempo Analysis \[\frac{\text{PH+BETX}}{} \] = Clear/Brown	Lab Sup Glass;

Job Name/Number /	hum O	C-S chlad I	Date <u>U-28-89</u> 4-417-00	Time <u>15:35</u> Initials ASR
Well K Spring	Surface _	Other	7 7.7_00	
Location	Just SUPH	s of tank	}	
WELL DATA: Well type Depth to Water <u>2</u> 8.	e		(Describe; M	- monitoring well)
Depth to Water <u>18.</u>	. <u>vo</u> ft (pun	mp/stat) Ma	ximum Drawdown Limi	It (MDL) ft
Well depth 39.77	IC (SO	ounded) We	ell depth	It (spec)
Well diameter <u>a</u> in Volume Evacuated:	n. Too nerg	nc above gr	Railad It was	ter elev it
Time: Stop	<u>rangea</u>	<u>r diiipirdi</u>	15:35_	Farmal and Commentant
Start		- 	14:32	Formulas/Conversions r = well radius in ft
Total hrs/min	1		: 63	h = ht of water col in ft
Total Evacuated				vol. in cyl. = Wr ² h 7.48 gal/ft ³
	0,27 gpm			V_2 " casing = 0.163 gal/ft
	`		ي ۔	V ₃ " casing = 0.357 gal/ft V ₄ " casing = 0.653 gal/ft
Pump # and type	Bail	er # and ty	pe 2 telle #CC	V _{4.5} " casing = 0.826 gal/ft V ₆ " casing = 1.47 gal/ft
Hose # and type				V ₆ " casing = 1.47 gal/ft V ₈ " casing = 2.61 gal/ft
Compléme Deuts Det		17 3	- 1	48 Casing - 2.01 Gar,10
Sampling Port: Rate Location/description	e 8	ypm volume	gal.	
rocacion/description		•		
Initial height of wa	ater in casi	ng = // 7	7 ft volume =	6/ 3 gal. X4 7
Evacuation at drawde	own limit 🕳	3 v initial	volume =	oal /
Evacuation at sampl:	ing point =	l x initial	. volume =	gal.
Evacuation at sample	Tot	al to be ev	vacuated = $\frac{1}{7}$.	gal /
Water Color:	Brown		Odor: Was states	- if sny
Description of seding	ment and/or	foreign mat	ter in sample: <u>ver</u>	5 nz clay rich
		1,100,00	<u> </u>	
Point of collection	End of	2' feffer bi	ile #CC_	
Depth to water during	ng pumping _	ft	time Sampling _	ft time
Pumped dry? A:	tocation s	gal. Recove	ery rate	IS o g waather
ADDITIONAL COMMENTS	, LOCATION S	KETCH, ENVI	RONMENTAL CONDITION	NS, e.g., weather,
ADDITIONAL COMMENTS van running nearby,	, LOCATION S problems wi	KETCH, ENVI	RONMENTAL CONDITION	NS, e.g., weather,
ADDITIONAL COMMENTS	, LOCATION S problems wi	KETCH, ENVI	RONMENTAL CONDITION	NS, e.g., weather,
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA	, LOCATION S problems wi	KETCH, ENVI	RONMENTAL CONDITION to or sampling, etc.	NS, e.g., weather, ., pump on/off
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureOC	, LOCATION S problems wi	EKETCH, ENVI	RONMENTAL CONDITION nt or sampling, etc. Specific Conductan	NS, e.g., weather, ., pump on/off nce umhos
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA	, LOCATION S problems wi	EKETCH, ENVI	RONMENTAL CONDITION nt or sampling, etc. Specific Conductan	NS, e.g., weather, ., pump on/off nce umhos
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC pH Calibration	Thermomete	EKETCH, ENVI	RONMENTAL CONDITION nt or sampling, etc. Specific Conductan	NS, e.g., weather, ., pump on/off nce umhos
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureOC	Thermomete	EKETCH, ENVI	RONMENTAL CONDITION to or sampling, etc. Specific Conductation 10.0 Calibration	NS, e.g., weather, ., pump on/off nce umhos
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC pH Calibration SAMPLES COLLECTED:	Thermometer 4.0,	EKETCH, ENVI	RONMENTAL CONDITION to r sampling, etc. Specific Conductant 10.0 Calibration Preservative	NS, e.g., weather, ., pump on/off nce umhos
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC pH Calibration	Thermometern 4.0,	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureOC pH Calibration SAMPLES COLLECTED: Sample	Thermometer 4.0,	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No.	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 489417-3 40 ml ml ml	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 489417-3 40 ml ml ml ml	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 489417-3 40 ml ml ml ml ml	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 489417-3 40 ml ml ml ml ml ml	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 489417-3 40 ml ml ml ml ml ml ml	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 989417-3 40 ml ml ml ml ml ml ml	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 489417-3 40 ml ml ml ml ml ml ml ml ml ml	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 989417-3 40 ml ml ml ml ml ml ml	Thermometern 4.0, Bottle/ Cap (Specify)	EKETCH, ENVI	Specific Conductar 10.0 Calibration Preservative (specify) (R = Refrigerated)	NS, e.g., weather, ., pump on/off nce umhos n TempOC
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 989417-3 40 ml	Thermometern 4.0, 2 Bottle/Cap (Specify)	Filtered (size, u) (N = No)	Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated) Nation	Analysis Lab
ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA Temperature OC PH Calibration SAMPLES COLLECTED: Sample ID No. 989417-3 40 ml m	Thermometern 4.0, 2 Bottle/Cap (Specify)	Filtered (size, u) (N = No)	Specific Conductant 10.0 Calibration Preservative (specify) (R = Refrigerated) Nation	Analysis Lab

	1400 100 - 15:10
WATER SAMPLING DATA Well Name (-4	Date 4/28/89 Time 15.12
<i></i>	4-417-00 Initials TW
Well Spring Surface Other Location South west what Site	
	(Describe; M - monitoring well)
WELL DATA: Well type M Depth to Water 27,44 ft (pump(stat)	
	Well depth tt (spec)
Well depth 39.83 ft (sounded) Well diameter 3 in. TOC height above	
Volume Evacuated: Pumped Pumped	· · · · · · · · · · · · · · · · · · ·
Time: Stop	4.2 120
Start	Formulas/Conversions 12:20
Total hrs/min	h = ht of water col in ft
Total Evacuated 12 gal.	vol. in cyl. = πr ² h 7.48 gal/ft ³
Evacuation Rate 0.24 gpm	V ₂ " casing = 0.163 gal/ft
Or	V_3 " casing = $\sqrt{0.367}$ gal/ft
Pump # and type Bailer # and	type eurc' 3' tenh on # 5 V4" casing = 0.653 gal/ft V4 5" casing = 0.826 gal/ft
Hose # and type	Souls: Same #5 V5" casing = 1.47 gal/ft
	V ₈ " casing = 2.61 gal/ft
Sampling Port: Rate gpm Volum	gal.
Location/description	
	ما سام
Initial height of water in casing =	1.39 ft; volume - 4.55 gal. ×47
Evacuation at drawdown limit - 3 x initi	al volume = gal.
Evacuation at sampling point = 1 x initi	
Total to be	evacuated = 18.2 gal.
Water Color: <u>now</u>	Odor: none
Description of sediment and/or foreign m	natter in sample: very slight turbidity - Silt Suspended
	N
Point of collection: decorted from and o	
Depth, to water during pumpingft_	
	time Sampling 29.65 ft 15:10 time
Pumped dry? 108 After 12 gal. Reco	very rate 5.1 H/hr
Pumped dry? 12 After 12 gal. Reco	overy rate 5.1 14/hc IVIRONMENTAL CONDITIONS, e.g., weather,
Pumped dry? 12 After 12 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm	overy rate 5.1 14/hc IVIRONMENTAL CONDITIONS, e.g., weather,
Pumped dry? Ves After 12 gal. Reco ** ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipment times, etc. (ever) Sight doc	overy rate 5.1 14/hc IVIRONMENTAL CONDITIONS, e.g., weather,
Pumped dry? Ves After 12 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipment times, etc. (ever) 5 and 3000000000000000000000000000000000000	overy rate 5.1 H/hc IVIRONMENTAL CONDITIONS, e.g., weather, ment or sampling, etc., pump on/off
Pumped dry? Ves After 12 gal. Reco ** ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipment times, etc. (ever) Sight doc	overy rate 5.1 14/hc IVIRONMENTAL CONDITIONS, e.g., weather,
Pumped dry? Ves After 2 gal. Reco ** ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipment times, etc. (ever)> 5 jant obox **CHEMICAL DATA Temperature OC Thermometer #	overy rate 5.1 H/hc IVIRONMENTAL CONDITIONS, e.g., weather, ment or sampling, etc., pump on/off
Pumped dry? Ves After 2 gal. Reco ** ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipment times, etc. (ever)> 5 jant obox **CHEMICAL DATA Temperature OC Thermometer #	overy rate 5.1 H/hr IVIRONMENTAL CONDITIONS, e.g., weather, ment or sampling, etc., pump on/off Specific Conductance umhos
Pumped dry? Ves After 2 gal. Reco ** ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipment times, etc. (ever)> 5 jant obox **CHEMICAL DATA Temperature OC Thermometer #	overy rate 5.1 H/hr IVIRONMENTAL CONDITIONS, e.g., weather, ment or sampling, etc., pump on/off Specific Conductance umhos
Pumped dry?es After	wery rate 5, 1 hr. WIRONMENTAL CONDITIONS, e.g., weather, ment or sampling, etc., pump on/off Specific Conductance umhos 10.0 Calibration TempOC
Pumped dry?eg After /2 gal. Reco **ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) >ight odor CHEMICAL DATA TemperatureOC Thermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered	Specific Conductance umhosOC
Pumped dry?eg After /2 gal. Reco **ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) >ight odor CHEMICAL DATA TemperatureOC Thermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered	overy rate 5.1 H/hc IVIRONMENTAL CONDITIONS, e.g., weather, ment or sampling, etc., pump on/off Specific Conductance umhos 10.0 Calibration TempOC Preservative (specify)
Pumped dry?es After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = 5 and doc CHEMICAL DATA Temperature OC Thermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?es After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = 5 and electron CHEMICAL DATA TemperatureOC Thermometer # pH Calibration4.0,7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?es After 2 gal. Reco **ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = Sight doc CHEMICAL DATA Temperature OC Thermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?es After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) > \(\text{ight} \) \(\text{obs} \) CHEMICAL DATA Temperature OC _ Thermometer # PH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?eg After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) > Sight dov CHEMICAL DATA Temperature OC Thermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?eg After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = Sight door CHEMICAL DATA Temperature OC Thermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?es After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = 5 and door CHEMICAL DATA Temperature OC Thermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?es_ After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = 5 and 2000 CHEMICAL DATA TemperatureOC_ Thermometer # pHCalibration4.0,7.0, SAMPLES COLLECTED: Bottle/ Filtered Cap (size, u (Specify) (N = No) (1) OHOHIT-4 40 ml 100 + C/V No mlml mlml mlml	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?es_ After 2 gal. Reco ** ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = Sight doc CHEMICAL DATA Temperature OCThermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?es_ After 2 gal. Reco ** ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc(ever) >	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?eg After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = Sight door CHEMICAL DATA Temperature OC Thermometer # pH Calibration 4.0, 7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Preservative (specify) (R = Refrigerated) Analysis Lab NaHSo4 R THIBETX Sup.
Pumped dry?eg_ After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc(ever) >	Preservative (Specify) (R - Refrigerated) Analysis Lab
Pumped dry?eg After12 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever)	Preservative (Specify) (R = Refrigerated) NaHSO4 Coropylene; C or B = Clear/Brown Glass;
Pumped dry?eg_ After 2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc(ever) >	Preservative (Specify) (R = Refrigerated) NaHSO4 Coropylene; C or B = Clear/Brown Glass;
Pumped dry?es_ After\2 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever) = Sight obor CHEMICAL DATA TemperatureOC Thermometer # pHCalibration4.0,7.0, SAMPLES COLLECTED: Bottle/ Filtered Sample	Notery rate
Pumped dry?eg After12 gal. Reco ADDITIONAL COMMENTS, LOCATION SKETCH, EN van running nearby, problems with equipm times, etc. (ever)	VIRONMENTAL CONDITIONS, e.g., weather, ment or sampling, etc., pump on/off Specific Conductance umhos

TRIP BLANK



Job Name/Number	O TOYON	Jakland H	14-417-0	<u> </u>	_ Initials <u>_</u>	TW
Well Spring	Surface .	Other				
Location					•	
WELL DATA: Well typ	10		~ /Dec	cribe M -	- monitoring	we11'
Depth to Water					_	
					t (MDL)	
Well depth	ft (s	ounded) W	ell depth <u> </u>		ft (spec)	
Well diameter i	in. TOC hei	ght above g	round -	ft Wate	er elev.	f:
Volume Evacuated:	Pumped	Pumped	Baile	-		
Time: Stop	 ,		/ <u>====</u>			
Start					Formulas/Conversion r = well radius in	
					h = ht of water co	
Total hrs/min _			′		vol. in cyl. = #r2	
Total Evacuated	ga	ı.			7.48 gal/ft ³	
Evacuation Rate	gp	m			V ₂ " casing = 0.163	gal/i
					V_3^{-} casing = 0.367	gal/f
Pump # and type -	Bai	ler # and t	vne		V ₄ " casing = 0.653	gal/i
Hose # and type		zoz " una c	<u> </u>		V _{4.5} " casing = 0.8 V ₆ " casing = 1.47	Zo gai
nose # and cype _				 .	V ₆ " casing = 1.47 V ₈ " casing = 2.61	gal/1
					V8 Casing - 2.01	Pariz
Sampling Port: Rat		gpm Volume		gal.		
Location/description	n					
	· · · · · · · · · · · · · · · · · · ·	<u> </u>				
Initial height of w	ater in cas	ing =		Lumo —	gal.	
Evacuation at drawd						
					•	
Evacuation at sampl					gal.	
	To	tal to be e	vacuated =		gal.	
Water Color:			Odor:	/	. •	
Description of sedi	ment and/or	foreign ma	tter in com	مآه: حمالة		
		TOTCI MA	ccel In Samp	,	•	
Depth to water duri	ng pumping	ft	time S	mnlino-		
Pumped dry? ADDITIONAL COMMENTS van running nearby,	ng pumping fter LOCATION	gal. Recov SKETCH, ENV	ery rate IRONMENTAL (CONDITIONS	S, e.g., weat	her,
Pumped dry? ADDITIONAL COMMENTS van running nearby,	ng pumping fter , LOCATION problems w	gal. Recov SKETCH, ENV	ery rate IRONMENTAL (CONDITIONS	S, e.g., weat	her,
Pumped dry?ADDITIONAL COMMENTS van running nearby, times, etc. (over).	ng pumping fter , LOCATION problems w	gal. Recov SKETCH, ENV	ery rate IRONMENTAL (CONDITIONS	S, e.g., weat	her,
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA	ng pumping fter . LOCATION problems w	gal. Recov SKETCH, ENV ith equipme	ery rate IRONMENTAL (nt or sampli	CONDITIONS	S, e.g., weat pump on/off	her,
Pumped dry?ADDITIONAL COMMENTS van running nearby, times, etc. (over).	ng pumping fter . LOCATION problems w	gal. Recov SKETCH, ENV ith equipme	ery rate IRONMENTAL (nt or sampli	CONDITIONS	S, e.g., weat pump on/off	her,
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO	ng pumping fter . LOCATION problems w	gal. Recov SKETCH, ENV ith equipme	ery rate IRONMENTAL (nt or sampli	CONDITIONS ing, etc.,	S, e.g., weat pump on/off	her,
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA	ng pumping fter , LOCATION problems w	gal. Recov SKETCH, ENV ith equipme	ery rate IRONMENTAL (nt or sampli	CONDITIONS ing, etc.,	S, e.g., weat pump on/off	her,
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO pHCalibratio	ng pumping fter LOCATION problems w Thermomet	gal. Recov SKETCH, ENV ith equipme	ery rate IRONMENTAL (nt or sampli	CONDITIONS ing, etc.,	S, e.g., weat pump on/off	her,
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO	ng pumping fter LOCATION problems w Thermomet	gal. Recov SKETCH, ENV ith equipme	ery rate IRONMENTAL (nt or sampli	CONDITIONS ing, etc.,	S, e.g., weat pump on/off	her,
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO pHCalibratio	ng pumping fter LOCATION problems w Thermomet	gal. Recov SKETCH, ENV ith equipme	ery rate IRONMENTAL (nt or sampli	CONDITIONS ing, etc., Conductance	S, e.g., weat pump on/off	her,
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO pHCalibratio	Thermomet Bottle/	gal. Recover SKETCH, ENVith equipment er #/.0,	rate IRONMENTAL (nt or sampli Specific (10.0	CONDITIONS ing, etc., Conductance	S, e.g., weat pump on/off	her,
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample	Thermomet Bottle/ Cap	gal. Recover SKETCH, ENVITCH,	IRONMENTAL (nt or sampli Specific (10.0 Call Preservati (specify)	CONDITIONS ing, etc., Conductance Libration-	S, e.g., weat pump on/off ceumho Tomp	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No.	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O49417-21 40 ml	Thermomet Bottle/ Cap (Specify)	gal. Recover SKETCH, ENVITCH,	Specific (10.0 Ca. Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance Libration-	S, e.g., weat pump on/off ceumho Tomp	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No.	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibration SAMPLES COLLECTED Sample ID No. O49417-21 40 ml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Specific (10.0 Ca. Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O'49417-21 40 mlml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O49417-21 40 mlmlml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O'49417-21 40 mlmlmlml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureOC PHCalibratio SAMPLES COLLECTED Sample ID No. O'4447-21 40 mlmlmlmlml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O'49417-21 40 mlmlmlml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O49417-21 40 ml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O'49417-21 40 ml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O'49417-21 40 ml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O'49417-21 40 ml	Thermomet Bottle/ Cap (Specify)	gal. Recover sketch, ENV ith equipme er #/.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance libration ive	S, e.g., weat pump on/off ceumho TompO	her, s C
Pumped dry?A ADDITIONAL COMMENTS van running nearby, times, etc. (over). CHEMICAL DATA TemperatureO PHCalibratio SAMPLES COLLECTED Sample ID No. O'49417-21 40 ml	ng pumping Iter I LOCATION problems w Thermomet 1 4.0, E Bottle/ Cap (Specify) C/V	gal. Recov SKETCH, ENV ith equipme er # /.0, Filtered (size, u) (N = No)	Preservati (specify) (R = Refri	CONDITIONS ing, etc., Conductance Libration ive Ligerated)	S, e.g., weat pump on/off ceumho TompO	s C

2938 McClure St., Oakland, CA 94609 415-465-1100 CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

		•	. 4.7			SEND RE	SULTS TO: Jim Carn	nody
CHAIN-OF-CUST	TODY RECORD AND	ANALYTIC INS	FRUCTIONS			WA Pers		by of this form in the field sampling files
Shuttle Inver	ntory Number: _	NA		-		Project	1D: 4-417-(70
Shipping Seal	. No	AU		_			NOTES TO LAB: 1) Specify analytic r in report.	method and detection limit
Sampled by: _	TW/	ASP	Labo	ratory Hame:	Super	nioc		
No. of Containers	Sample ID	Sampling Date	Sample/ Container Type	Analyze/ Kold ^B	Turn- around ^C	Analyze For:	Analytic Method/ Detection Limit	Comments
2	049417-1	4/28/89	WV	A	N	TPH + BETX	<u> </u>	•
1	- 2							
	- 3						<u> </u>	
	-4					_		
	-21	<u> </u>						
								
								
					·	-		
<u>. </u>								
				-				
								
<u> </u>		<u> </u>				<u> </u>		
		·	·		<u>. ——</u>			
Released by	(STEMATERE), De	5-18 5-1-89	3	y (Signature)	5-1-8 , Date	Retrased by (Signature)	1215/1	189 ×
Received by	(Signature), Da	Tte	hipping C	arrier, Metho	d, Date	Received by Lab Per	sonnel Date, Telephone 1	Seal intact?, Number

Page ____ of ____

Sample Type Codes: W = Water, S = Soil, O = Other (Specify) , V = Vaa bottle
Analyze/Hold: A = Analyze; HOLD (spell out) = DO NOT ANALYZE UNLESS NECESSARY OR REQUESTED.
N = Normal Turnaround, F = 1-Week Turnaround, R = 24-hour Turnaround

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 50828

DATE RECEIVED: 05/01/89

CLIENT: Weiss Associates CLIENT JOB NO.: 4-417-00 DATE REPORTED: 05/08/89

Page 1 of 2

Lab Number	Customer	Sample	Identifica	tion		Date Sample	∍d
50828-1 50828-2 50828-3 50828-4 50828-5	049417-1 049417-2 049417-3 049417-4 049417-2	04/30/89 04/30/89 04/30/89 04/30/89 04/30/89	9				
Laboratory N	umber:	50828 1	50828 2	50828 3	50828	50828 5	
ANALYTE LIST		Amount	s/Quantitat	ion Limits	(ug/L)	•	
OIL AND GREAT TPH/GASOLINE TPH/DIESEL R. BENZENE: TOLUENE: ETHYL BENZEN XYLENES:	RANGE: ANGE:	NA 940 NA 30 1.3 11	NA 120000 NA 30000 22000 3000 17000	NA ND<500 NA 1.7 ND<.5 ND<.5 ND<.5	NA 20000 NA 6300 550 230 1500	NA ND<500 NA ND<.5 ND<.5 ND<.5)

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
Diesel by Modified EPA SW-846 Method 8015
Gasoline by Purge and Trap: EPA MEthod 8015/5030
ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

Page 2 of 2 QA/QC INFORMATION SET: 50828

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E: Duplicate RPD NA Minimum Detection Limit in Water: 5000ug/L

Modified EPA Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 1000ug/L
Daily Standard run at 200mg/L; RPD Diesel = NA
MS/MSD Average Recovery = NA: Duplicate RPD = NA

8015/5030 Total Purgable Petroleum Hydrocarbons:

Minimum Quantitation Limit for Gasoline in Water: 500ug/L
Daily Standard run at 200mg/L; RPD Gasoline = 1.

MS/MSD Average Recovery = 84: Duplicate RPD = 11

8020/BTXE

Minimum Quantitation Limit in Water: 0.50ug/L Daily Standard run at 20ug/L; RPD < 15. MS/MSD Average Recovery = 100%: Duplicate RPD = 2.

Les Partridge, Ph.D.

Laboratory Manager

OUTSTANDING QUALITY AND SERVICE