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10:41 am, Jul 08, 2008

Alameda County Environmental Health Global Gas

Jeff Cosgray Environmental Team Leader Chevron Pipe Line Company 4800 Fournace, Room E320C Bellaire, Texas 77401 Tel 713 432 3335 Fax 866 653 0301 jcos@chevron.com

July 2, 2008

Mr. Jerry Wickham Department of Environmental Health Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, California 94502

Dear Mr. Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in URS' letter titled "SLIC Case No. RO0002892, Chevron Sunol Pipeline, 2793 Calaveras Road, Sunol, CA – Monitoring Well Abandonment and SVE System Restart Letter Report" are true and correct to the best of my knowledge at the present time.

Submitted by:

Jeff Cosgray

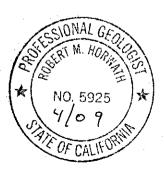
This letter report ("Monitoring Well Abandonment and SVE System Restart Letter Report") was prepared under my direct supervision. The information presented in this report is based on our review of available data obtained during our quarterly sampling activities and our previous subsurface investigation efforts. To the best of our knowledge, we have incorporated into our recommendations all relevant data pertaining to the Chevron Pipeline Release site in Sunol, California.

The Monitoring Well Abandonment Letter Report discussed herein was developed in accordance with the standard of care used to develop this type of report. The assumptions that were made and the recommendations for continued field activities were based on our professional experience and protocols reported in the literature for similar investigations.

URS Corporation Approved by:

Joe Morgan III

Robert Horwath, P.G.





July 7, 2008

Mr. Jerry Wickham Department of Environmental Health Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, California 94502

Subject: SLIC Case No. RO0002892, Chevron Sunol Pipeline, 2793 Calaveras Rd, Sunol, CA Monitoring Well Abandonment and SVE System Restart Letter Report

Dear Mr. Wickham:

URS, on behalf of Chevron Pipeline Company (CPL), is updating Alameda County Environmental Health (ACEH) regarding the abandonment of monitoring wells MW-5, MW-6, and MW-7 at the CPL site near Sunol, California (Figure 1).

Monitoring Well Abandonment Activities

URS observed Gregg Drilling and Testing, Inc (Gregg) abandon monitoring wells MW-5 through MW-7 according to Zone 7 Water Agency (Zone 7) well abandonment procedures on June 23, 2008. The former monitoring wells were located along the eastern side of Calaveras Road, below the initial release area (Figure 2). ACEH approved the abandonment of the monitoring wells in a letter dated November 29, 2007 and is presented in Attachment A.

URS has completed the required Department of Water Resources (DWR) well completion reports and has submitted documentation to all appropriate state and local agencies. Attachment B contains the ACEH copies of the DWR well completion reports.

Tree Removal Activities

Tree removal activities took place during the week of June 9, 2008. Several photographs were taken to document the tree removal. Attachment C contains a photographic log describing the photographs.

Soil Vapor Extraction System Installation

With the removal of the trees, URS and CPL are moving forward with the restarting of the soil vapor extraction (SVE) system at the site. Stratus Environmental, Inc. (Stratus) has submitted the initial plans to the Alameda County Building Department (ACBD). The ACBD has involved the Alameda County Fire Department (ACFD) due to the potential fire hazards associated with on-site activities related to construction.

The San Francisco Public Utilities Commission (SFPUC) has approved the URS request to install the electrical power system that will be used to power the SVE system. URS has requested Stratus to conduct brush removal activities at the site prior to the beginning of the electrical and SVE system installation to minimize the potential for fire.

URS estimates electrical installation work can begin the week of July 28, 2008. The ACBD and ACFD approval process may delay the start of work. URS will update ACEH by August 15, 2008 or earlier, with

URS

Mr. Jerry Wickham Alameda County Environmental Health Chevron Pipeline Company Sunol, CA Site Page 2 of 2

developments of the above mentioned items and any other significant information pertaining to the restarting of the SVE system.

Senior Geologist

If you have questions, please do not hesitate to contact me at (510) 874-3201.

Sincerely,

URS CORPORATION

oe Morgan III Project Manager

Attachments:

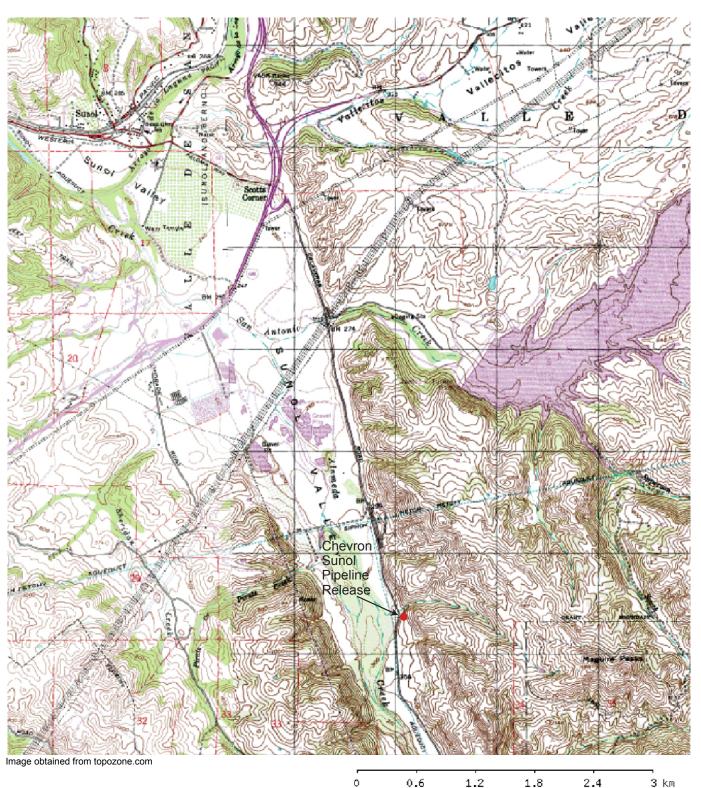
A ACEH Letter Dated November 29, 2007

B DWR Well Completion Reports

C Photographic Log

cc: Mr. Jeffrey Cosgray, CPL

Mrs. Amber Koster, URS



N

MAP REFERENCE:

PORTION OF U.S.G.S. QUANDRANGLE MAP 71/2 MINUTE SERIES (TOPOGRAPHIC) LA COSTA VALLEY QUADRANGLE



ó	0.6	1.2	1.8	2.4	3 km
ó	0.4	0.8	1.2	1.6	 2 mi

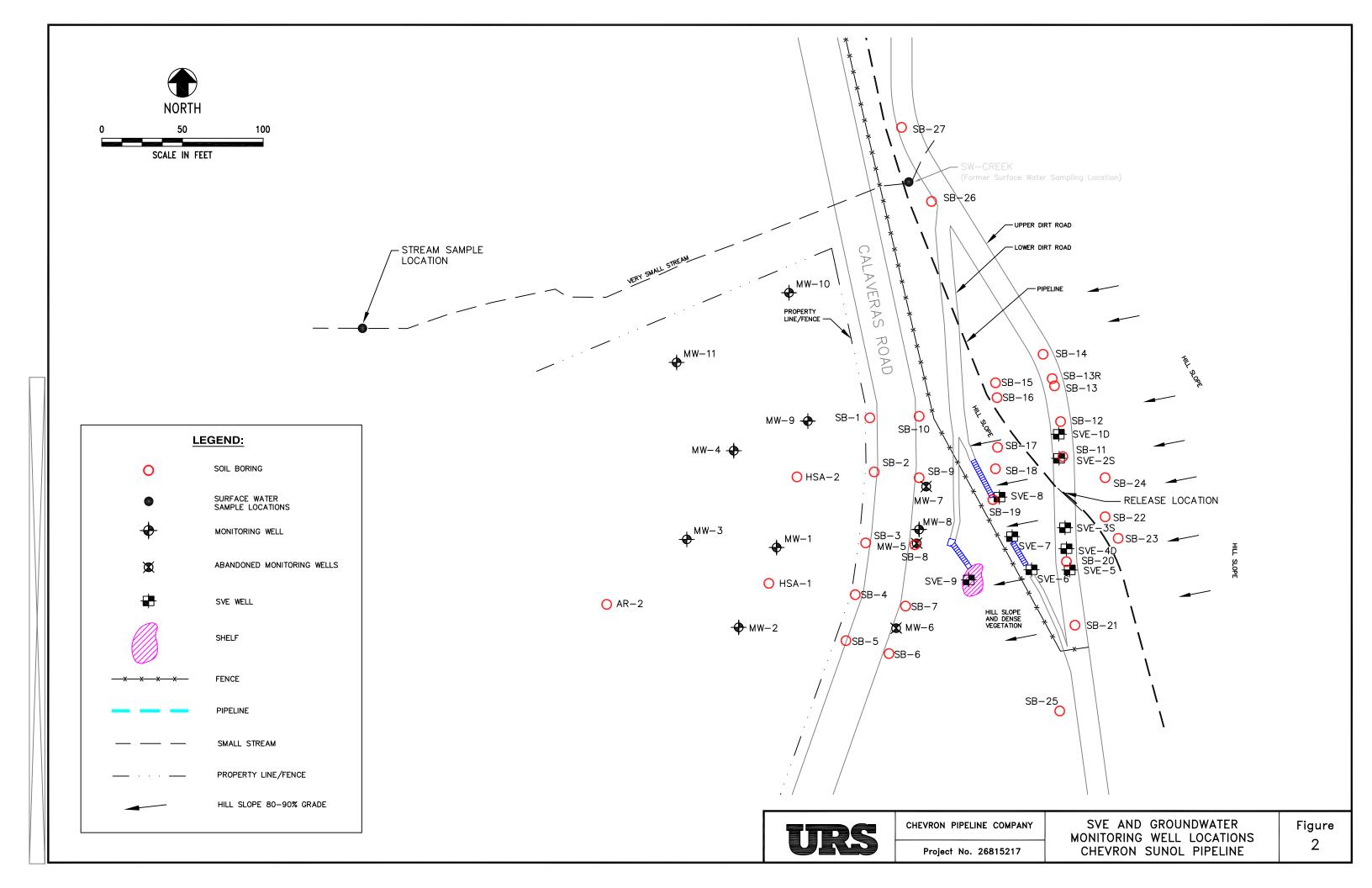


Chevron Pipeline Company

Project No. 26815217

SITE VICINITY MAP CHEVRON SUNOL PIPELINE SUNOL, CALIFORNIA

Figure 1



ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY





ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

November 29, 2007

Mr. Jeff Cosgrav Chevron Pipe Line Company 4800 Fournace Place Bellaire, TX 77401-2324

Subject: SLIC Case No. RO0002892 and Geotracker Global ID SL0600100443, Chevron Sunol Pipeline, 2793 Calaveras Road, Sunol, CA 94586

Dear Mr. Cosgray:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the abovereferenced site including the recently submitted documents entitled, "Additional Monitoring Well Installation Report," dated October 2007 and "Third Quarter 2007 Groundwater and Soil Vapor Extraction System Monitoring Report," dated November 15, 2007. Both documents were prepared on your behalf by URS Corporation. The "Additional Monitoring Well Installation Report," dated October 2007 describes the installation of two monitoring wells (MW-10 and MW-11) to assess the downgradient edge of the petroleum hydrocarbon plume. No groundwater was encountered in either of the two wells. The report recommends that the three proposed secondary monitoring wells not be installed at this time.

The "Third Quarter 2007 Groundwater and Soil Vapor Extraction System Monitoring Report," dated November 15, 2007 discusses third quarter groundwater monitoring results. During the third quarter of 2007, monitoring wells MW-1 and MW-9 contained measurable free product and were not sampled. Groundwater from well MW-8, which is described as monitoring the apparent hillside groundwater recharge source, contained total petroleum hydrocarbons as gasoline and benzene at concentrations of 4,200 and 470 micrograms per liter (µg/L), respectively. None of the downgradient wells on the west side of Calaveras Road were sampled. The report also discussed the shutdown and discontinuation of SVE operations on August 17, 2007. As discussed in technical comment 1 below, we do not concur with the removal of the SVE system.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

Shutdown of SVE System. The SVE system was apparently shutdown and removed from the site on August 17, 2007. We do not concur with the removal of the SVE system and discontinuation of remedial activities. The Third Quarter 2007 Groundwater and Soil Vapor Extraction System Monitoring Report cites a substantial decline in system recovery rates as a reason for discontinuing system operation. We note that the system mass removal rate decreased from a maximum of more than 120 pounds per day in December 2006 after system start-up to approximately 30 pounds per day in August 2007. A decline from the initial rate of mass removal is expected during the normal operation of an SVE system. The Jeff Cosgray RO0002892 November 29, 2007 Page 2

initial rate of mass removal is expected during the normal operation of an SVE system. The removal of 30 pounds of petroleum hydrocarbons per day indicates residual petroleum hydrocarbons remain in place and that the system is continuing to remove mass in the source area. Moreover, the SVE well that is directly below the release (SVE-8) was disconnected from the system due to water in the well and has remained closed since November 30, 2006. Unfortunately, the SVE system was removed during the dry season when water levels are likely to be below the screen interval of SVE-8. Incorporating SVE-8 or a replacement well for SVE-8 is likely to increase the removal rate beyond 30 pounds per day. We request that you replace the SVE system and resume SVE operations no later than January 29, 2008. In addition, well SVE-8 or a replacement well is to be included in the system.

- Decommissioning of SVE Wells. The Third Quarter 2007 Groundwater and Soil Vapor Extraction System Monitoring Report recommends "abandonment" of SVE wells at the site. As discussed in technical comment 1, we do not concur with the discontinuation of the SVE system operations. Therefore, we do not concur with the decommissioning of any SVE wells.
- 3. Wells MW-10 and MW-11 and Secondary Monitoring Wells. Groundwater was not encountered in newly installed monitoring wells MW-10 and MW-11. Wells MW-10 and MW-11 are to be gauged quarterly and sampled when sufficient groundwater is present in the wells. We concur with the recommendation to assess the need for further investigation in this area based on the results of future groundwater monitoring.
- 4. Quarterly Groundwater Monitoring. We request that you continue quarterly groundwater monitoring for the site including sampling and analytical results from the proposed additional groundwater monitoring wells. Based on sampling results to date, we have no objection to discontinuing monitoring and decommissioning wells MW-5 though MW-7. Please present results of the quarterly groundwater sampling in the monitoring reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- January 29, 2008 SVE System Start Up
- February 20, 2008 Quarterly SVE Operation and Groundwater Monitoring Report for the Fourth Quarter 2007
- May 20, 2008 Quarterly SVE Operation and Groundwater Monitoring Report for the First Quarter 2008
- August 20, 2008 Quarterly SVE Operation and Groundwater Monitoring Report for the Second Quarter 2008

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the

Jeff Cosgray RO0002892 November 29, 2007 Page 3

responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

Jeff Cosgray RO0002892 November 29, 2007 Page 4

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,

erry Wickham

Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cheryl Dizon, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551

Joe Morgan III, URS Corporation, 1333 Broadway, Suite 800 Oakland, CA 94612

Robert Horwath, URS Corporation, 1333 Broadway, Suite 800 Oakland, CA 94612

Joe Naras, San Francisco Public Utilities Commission, Natural Resources Division 1657 Rollins Road, Burlingame, CA 94010

Craig Freeman, San Francisco Public Utilities Commission, Environmental and Regulatory Compliance Division, 1145 Market Street, Suite 500, San Francisco, CA 94103

Donna Drogos, ACEH Jerry Wickham, ACEH File

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

URS

1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING & WELL CONSTRUCTION

Borehole ID: MW-5
Total Depth: 49.8 ft hgs

					Total Depth: 49.8 ft bgs						
	Р	ROJI	ECT INFORMATION		DRILLING INFORMATION						
Client:	Chev	vron Pi	peline	Drillin	g Comp	any: R	esonant Sonic International				
Site Loc	Site Location: Milepost 2.7 Calaveras Road, Sunol, California					in Guđo	ру				
Project Manager: Joe Morgan					f Drillin	g Rig:	Sonic Continuous Core Rig				
RG: Leon	nard N	liles		Drillin	g Metho	d; 8"x	10' Core Barrel with water w	ash			
Geologi	st: Le	onard	Niles & Greg White	Sampl	ing Met	hod: 4	"x10' Core Barrel				
Job Nun	nber:	2681	5217.03003	Date(s	Date(s) Drilled: January 24-27, 2006						
			BORING &	WELL IN	VELL INFORMATION						
Ground	water	Dept	h: 11.48 ft from TOC-N (Static 2/21/06)	Boring	Boring Location: Along the east side of Calveras Road (near milepost 2.						
Air Knif	e or F	land /	Auger Depth: 5 ft bgs	Boring	Boring Diameter: 8 inches						
Coordin	ates:	X 6	168225.98 Y 2025764.36 Z 334.81 (TOO	Boring	Type: 1	Monitor	ing/Remediation Well Comp	oletion			
oth (ft bgs)	SCS	ymbol	Lithologic Description		ecovery	Reading	Well Construction	Drilling			

Depth (ft bgs)	nscs	Symbol	Lithologic Description	% Recovery	PID Reading	Construction Details	Drilling Comments
E					,		
2 4 6	CL		SANDY CLAY: 0-5 Very dark brown (10YR2/2), low to medium plasticity, damp to moist, soft, 15-20% fine sand, 5-10% coarse gravel (up to 2" in diameter), 70-80% clayey to silty fines, root material. SANDY CLAY: 5-9 As above, except moist to wet on the outside of the core (due to rainwater infiltration) from 5-6.5 ft. No gravel, moist from 6.5-9 ft, grades to clayey		10.2	Well installed on January 25-27, 2006. Surface Completion: Flushed mounted cast-iron well box.	1/24 09:00 Begin hand augering to 5 ft bgs. Ambient PID: 0.0 ppm. 1/24 09:30 Begin drilling with 4" core barrel.
8 10 10	ML		silt from 7-9 ft. CLAYEY SILT: 9-10 Yellowish brown (10YR4/3), very low plasticity, hard, damp, 10-15% fine sand, <30% clay, > 50% silt, caliche veins, slight HC odor.		49.3 73.5	0.33-39.5 ft bgs: 4" Sch. 40 PVC riser. 0.8-36 ft bgs:	1/24
12 12 14			NO RECOVERY: 10-15 No recovery.	- deser	e e e e e e e e e e e e e e e e e e e	95% cement / 5% bentonite grout.	11:20 Collect soil sample MW-5-10'.
16			SLOUGH: 15-16 Probable slough from above. CLAYEY TO SANDY SILT: 16-19 Yellowish brown	_	24.6		
18	ML	ini Kse //Jae	(10YR4/3), no plasticity, damp, increasing fine sand to 15-20%. decreasing clay, HC odor. 19-20.5 Color change to brownish yellow (10YR6/8), increasing sand and clay, 20% fine sand.		34.4	·	
20		perio /p	SILTY GRAVEL: 20.5-24.7 Light gray (N7/), 20% silt,		2349		1/24 11:35 Collect soil
22		9/F)	15% fine sand, 65% coarse gravel to cobbles (up to 4" in diameter), fine grained sandstone clasts, strong HC odor, dry, subangular to subrounded clasts.		2827		sample MW-5-20'.

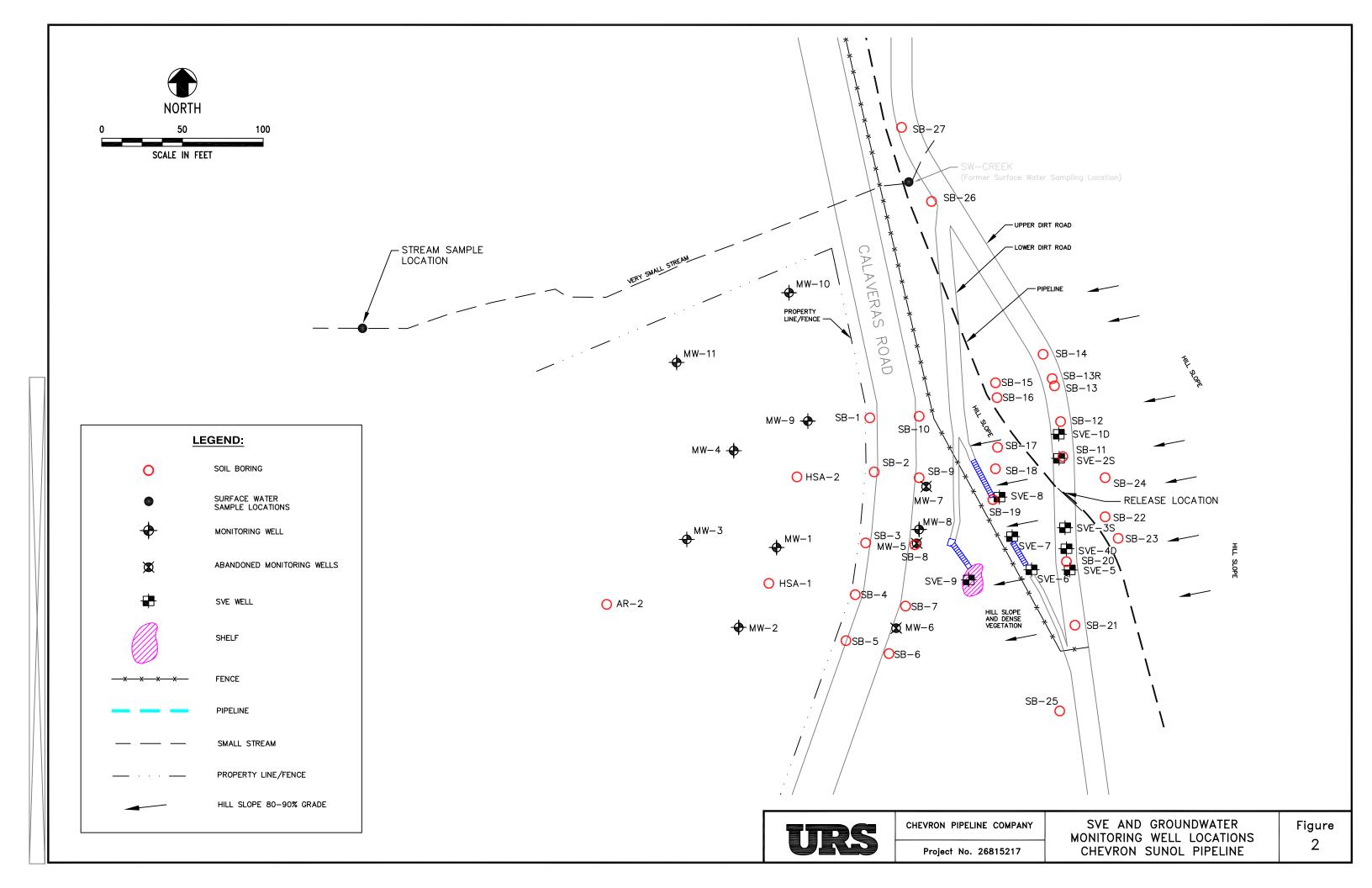
Page 1 of 3

U	3		LOG OF BORING			Borehole ID: N	MW-5
Depth (ft bgs)	nscs	Symbol	Lithologic Description	% Recovery	PID Reading	Well Construction Details	Comments
	GM				55.3		
26	CL		CLAY: 24.7-25 Dark brown, medium to high plasticity, moist, < 10% fine sand. SAND: 25-30 WEATHERED SANDSTONE bedrock,	/	75.3 5.9		
	SP		crumbles to sand, light gray (N7/), very soft, damp, 10-15% silt, 85-90% fine sand. Grades to weathered sandy siltstone at 30 ft bgs.		3.2		
30	:		CANDY SILT: 20 22 MEATHEDED CANDY SILTOTONS		2.0		1/24
- 30 - - 32	ML.		SANDY SILT: 30-32 WEATHERED SANDY SILTSTONE bedrock, light gray (N7/) to dark gray (N4/), very soft, no plasticity, damp to moist, 50-60% silt, 40-50% fine sand, slight HC odor. Grades to weathered silty sandstone at 32 ft bgs.	/	4.1		12:45 4" Core barrel very warm, steam rising off of it.
34			SILTY SAND: 32-38 WEATHERED SILTY SANDSTONE bedrock, light to dark gray (N7/ to N4/), very soft, moist, 60-70% fine sand, 30-40% silt. Grades to weathered sandstone from 38-38.6 ft bgs.		4.3		1/24
36	SM				4.8 4.3		13:30 Drilling difficult 40-45 ft bgs. 13:50 Collect soil sample MW-5-46'
38	•	A.	SAND: 38-40 WEATHERED SANDSTONE bedrock, light		4.9	36-38 ft bgs: Bentonite pellet seal.	13:55 Groundwater measured at 44.8 ft bgs during drilling. (Static water level
40	SP		gray (N7/), soft, moist, 10% slit, 90% fine sand, more consolidated and less weathered than above. Grades to silty sandstone at 40 ft bgs. SILTY SAND: 40-45 WEATHERED SILTY SANDSTONE,		4.8		(Štatic water level 11.48 ft below TOC-N on 2/21/06)
- - 42			light to dark gray (N7/ to N4), soft, moist, 10-15% silt, 85-90% fine sand, decreasing silt from 42-44 ft, then increasing at 44 ft to 15-20% silt.		4.4	39.5-49.5 ft bgs:	
- 42 - 44 - 46 - 48	SM		45-48 As above except wet at 45-45.5 ft, moist 46-47 ft. Increasing silt content to 20-30% at 46 ft, then decreasing to 10% at 47 ft, strong HC odor. Grades to sandstone at 48 ft bgs.		5.0	4" Sch 40 PVC 0.020" screen.	1/24 14:30 Broke 4" core barrel joint at ~30 ft
- - 46	2,41		· marina and the · ·		6.6 643	38-49.8 ft bgs: #3 RMC sand.	bgs. 20 ft of 4" casing in bottom of boring from 30-50 ft bgs.
- - 48			SANDSTONE: 48-49.5 As above except increasingly		42 4.3	49.5-49.8 ft bgs:	1/25 08:25 Drove fishing tool into broken casing stuck at 30
- 50			unweathered and hard, wet, weathered to SANDY SILT (SM) along fractures, 10-15% silt, fractured disks by coring, harder and massive at 49.8 ft, quartz veins.	1	4.5	4" PVC silt trap and well cap.	ft bgs. 08:30 Install 12" surface casing to
_			END OF BORING AT 49.8 FT BGS		-	,	~8 ft bgs. Begin reaming out boring with 8" casing.
- - 54			·				fitting at 25 ft bgs. Shut down rig to repair fitting.
- 52 - 54							13:45 Resume drilling with 8" casing.

Page 2 of 3

URS					LOG OF BORING		Borehole ID: MW-5		
Depth (ft bgs)	nscs	Symbol		•	Lithologic Description	% Recovery	PID Reading	Well Construction Details	Comments
58 58 60									14:30 Reach 50 ft bgs with 8" casing. Pull 4" casing from inside 8" casing using fishing tool. End of boring at ~50 ft bgs. 15:00 Collect soil sample MW-5-48'.

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED



URS 1333 Broadway, Suite 800 Oakland, California 94612

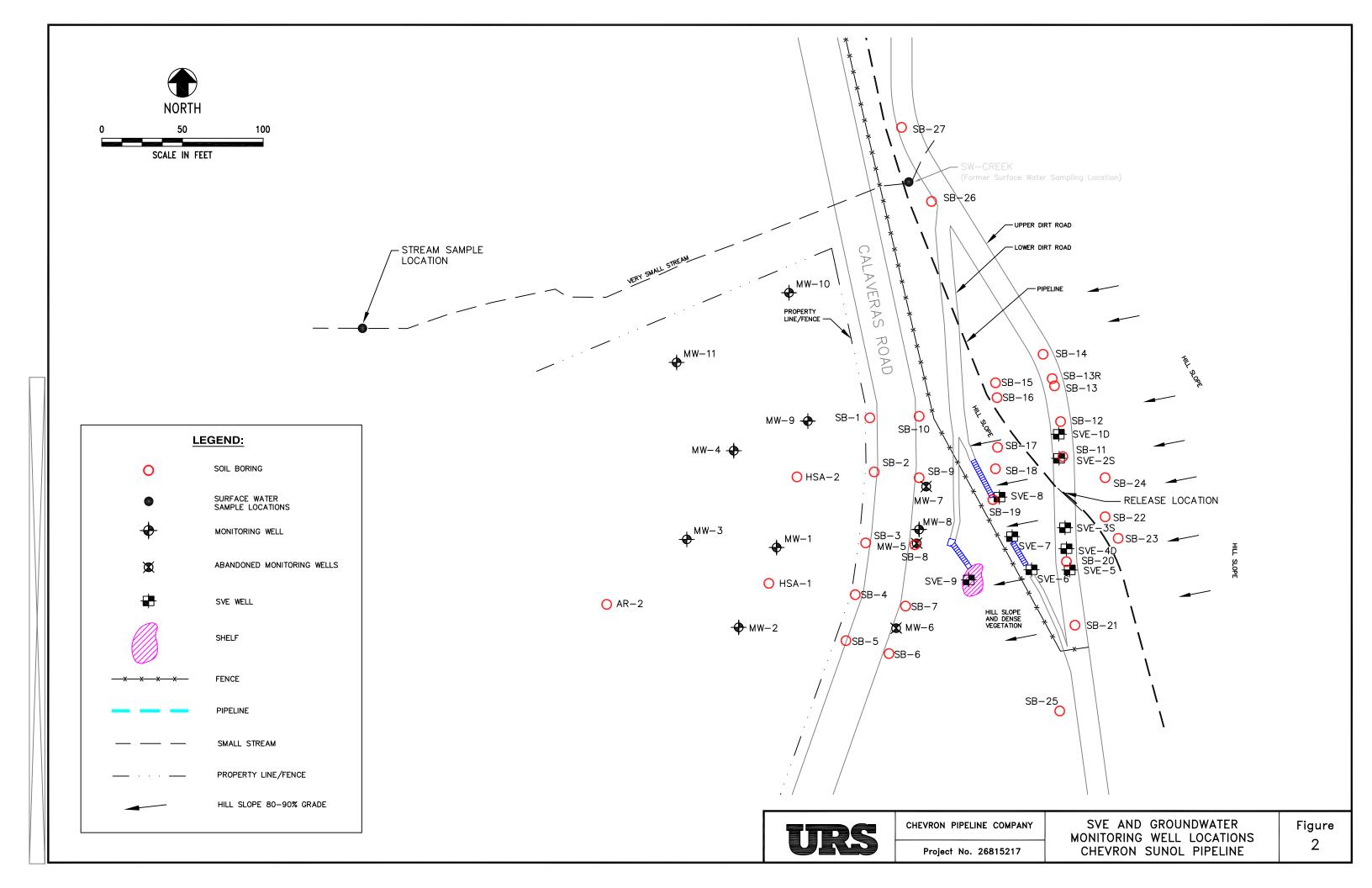
LOG OF BORING & WELL CONSTRUCTION

Borehole ID: MW-6

Borehole ID: MW-6 Total Depth: 50 ft bgs

•			Oakianu, Camornia 9461		Tota	l Dep	th: 50 ft bgs			
	PR	OJE	CT INFORMATION	DRILLING INFORMATION						
Client:	Chevr	on Pip	peline	Drilling Company: Resonant Sonic International						
	Site Location: Milepost 2.7 Calaveras Road, Sunol, California				Driller: Valentin Gudoy					
Project N	anag	er: Jo	oe Morgan	Type of	Drilling	Rig:	Sonic Continuous Core Rig			
RG: Leona	rd Nil	es	· · · · · · · · · · · · · · · · · · ·	Drilling	Metho	d: 8"x	10' Core Barrel with water wa	sh		
			Niles and Greg White	Sampli	ng Meti	nod: 4	"x10' Core Barrel			
Job Num	ber: 2	26815	217.03003	Date(s)	Drilled	: Janu	ary 26-27, 2006			
1		•	BORING & WI	ELL INFO	ORMAT	LION	· ·	<u> </u>		
			: 18.02 from TOC-N (Static 2/21/06)	Boring I	_ocatio	n: Alo	ng the east side of Calveras Ro	oad (near milepost 2.7)		
			uger Depth: 5 ft bgs	Boring						
Coordina	tes:	X 61	68213.24 Y 2025711.81 Z 332.38 (TOC)	Boring	ype: 1	Monito	ring/Remediation Well Compl	etion		
Depth (ft bgs)	SOSA	Symbol	Lithologic Description	٠.	% Recovery	PID Reading	Well Construction Details	Drilling Comments		
2 4 6 8 10 12 14 16 18 20 22 24 26 26 26 26 26 26 26 26 26 26 26 26 26	CL ML CL ML		SANDY CLAY: 0-5 Dark brown (10YR2/2), merplasticity, moist, 15-20% fine to medium sand, 8 clayey to silty fines, ~5% coarse gravel at 1 for root material. SANDY SILT: 5-9 Dark brown (10YR2/2), very plasticity, damp, 15-20% fine sand, 80-85% silt minor gravel at 8-10 ft, increasing clay at 8-9 ft, root material. SANDY CLAY: 9-10 As above except %clay> moderate plasticity, 20% sand, 5% gravel. SANDY SILT: 10-15 Yellowish brown (10YR4/2) plasticity, damp, 20-30% fine grained sand, 5-1 to coarse subrounded gravel, some root matericaliche fragments. GRAVELLY CLAY: 15-18 Very dark brown (10 moderate plasticity, damp, 10% fine sand, 20% gravel to 3" in diameter. Color change at 16 ft to yellowish brown (10YR6/10) fine sand at 17-18 ft. NO RECOVERY: 18-20 No recovery. SANDY CLAY: 20-22 Yellowish brown (10YR6/10) fine sand. SANDY SILT: 22-24 Yellowish brown (10YR6/10) fine sand. SANDY SILT: 22-24 Yellowish brown (10YR6/10) fine sand. SANDY SILT: 22-24 Yellowish brown (10YR6/10) fine sand, increasing sand at 23.6 ft. SILTY SAND: 24-46 Light gray (N7/), highly WEATHERED SILTY SANDSTONE, no plasticity, to moist at 35-40 ft, 40-50% silt, 50-60% very fine sand.	low tand clay, some %sit, low tand clay, some		1.5 0.2 2.3 0.6 7.7 16.0	Well installed on January 26-27, 2006 Surface Completion: Flushed mounted cast-iron well box. 0.23-34.7 ft bgs: 4" Sch. 40 PVC riser. 0.8-31 ft bgs: 95% cement / 5% bentonite grout.	10:00 Begin hand augering to 5 ft bgs. Ambient PID: 0.0 ppm. 10:25 Begin coring from 5 ft bgs. 15:20 Collect soil sample MW-6-17' 11:00 Ambient PID: 0.0 ppm Advance a split spoon at 20 ft bgs to see if a pearched water zone exists within the gravel layer.		
26			to moist at 00 40 ft, 40-00 /0 oilt, 00-00 /0 voly i	me sanu.	Pa si			- [

U	R	<u> </u>	LOG OF BORING		-	Borehole ID: N	ЛW-6
Depth (ft bgs)	SOSU	Symbol	Lithologic Description	% Recovery	PID Reading	Well Construction Details	Comments
28 30 32 34 36 38 40 42 44 48 50 52	SM		SILTY SAND: 46-46.8 Light gray (N7/), increasing less WEATHERED SANDSTONE, wet, powdered and pulverized by coring bit. SILTY SANDSTONE: 46.8-50 Light gray (N7/), hard, well cemented, dry, 15-20% silt, 80-85% very fine to fine sand, fractured and pulverized by coring bit. END OF BORING AT 50 FT BGS		0.0 0.0 0.0 0.0 0.0 0.0	31-33 ft bgs: Bentonite pellet seal. 34.7-49.7 ft bgs: 4" Sch 40 PVC 0.020" screen. 33-50 ft bgs: #3 RMC sand. 49.7-50 ft bgs: 4" PVC silt trap and well cap.	Groundwater encountered during drilling at 46 ft bgs. 12:45 Groundwater measured at 49 ft bgs after removing 4" casing. 13:30 Groundwater rises to 46.7 ft bgs. Begin overdrilling boring with 8" casing. (Static water level 18.02 ft below TOC-N on 2/21/06). 15:15 Collect soil sample MW-6-46'.



CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

URS

1333 Broadway, Suite 800 Oakland, California 94612

LOG OF BORING & WELL CONSTRUCTION

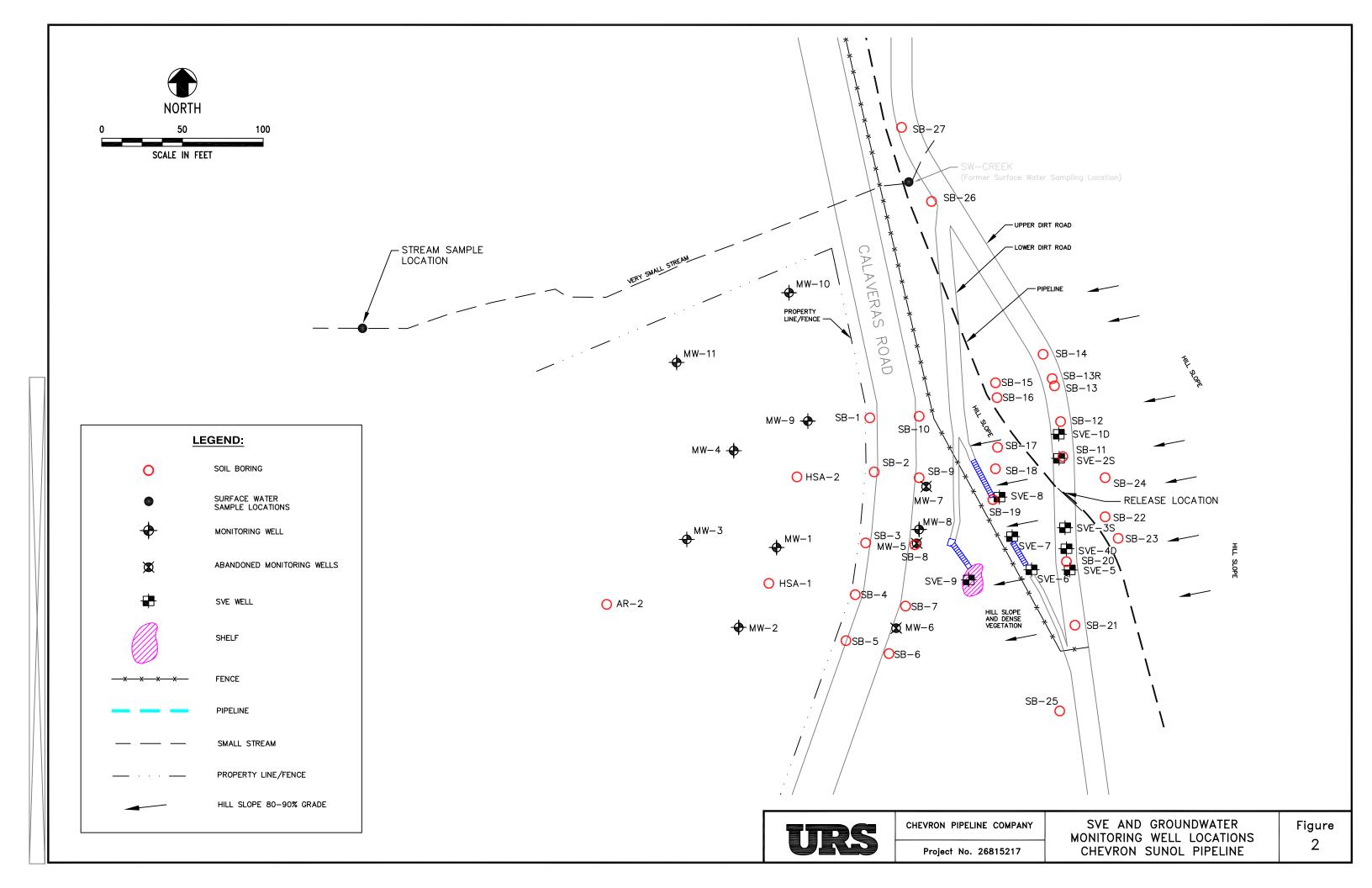
Borehole ID: MW-7
Total Depth: 50 ft bgs

•		CT INFORMATION					FORMATION			
Client:	Chevron Pi		Drilling Company: Resonant Sonic International							
		oost 2.7 Calaveras Road, Sunol, California	Driller: Valentin Gudoy							
	Manager: J	oe Morgan	Type of Drilling Rig: Sonic Continuous Core Rig							
RG: Leon							arrel with water w	ash		
		ite & Leonard Niles	Sampling							
JOD NUM	Job Number: 26815217.03003					ary 27, 200)6	·····		
Grannel	rator Dard	BORING & W 1: 15.43 ft from TOC-N (Static 2/21/06)					-:1601 - 2			
	<u>-</u>	1: 13.43 ft from 10C-N (Static 2/21/06)	Boring Dia				side of Calveras R	toad (near milepost 2.7)		
		68231.84 Y 2025799.52 Z 336.22 (TOC)					liation Well Comp	letion		
Coordina	ates. A of	00231.04 2023733.32 2 000.22 (100)	Boiling Typ	Je. N	donnoi	Ilig/Remed	nation well comp	netion		
Depth (ft bgs)	USCS	Lithologic Description		% Recovery	PID Reading		Construction Details	Drilling Comments		
IE.										
8 2 4 4 6 8 10 12	CL GW ML NR	SILTY CLAY: 0-5 Very dark brown (10YR2/2), s medium plasticity, moist, some coarse sand and roots. SILTY CLAY: 5-7 Same as above except mediu and wet from 5-5.5 ft. SANDY GRAVEL: 7-7.2 Brown to yellowish brow (10YR4/3 to 10YR6/8), loose, moist, fine to coar and gravel, subangular to subrounded, some sill SILT: 7.2-7.5 Dark brown, hard, moist to dry, bricaliche veins, with fine to coarse subrounded to gravel, trace root material. NO RECOVERY: 7.5-10 SILTY SAND: 10-15 Grayish brown, dry, with sut to subrounded gravel, some caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying the sand of the same coarse subrounded gravel, some caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, trace material, ~60% fine sand, 30-35% silt, 5-10% graying same caliche veins, same calic	m stiff m stiff se sand t. ttle, some rounded bangular root avel.		5.1 5.0 7.5 25.8 30.7 45.2		Well installed on January 27, 2006. Surface Completion: Flush mounted cast-iron well box. 0.24-34.7 ft bgs: 4" Sch. 40 PVC riser. 0.8-31 ft bgs: 95% cement / 5% bentonite grout.	08:15 Begin hand augering to 5 ft bgs. Ambient PiD: 0.3 ppm. 08:35 Begin coring with 4" casing from 5 ft bgs. 08:40 Faint HC odor from 7-7.6 ft bgs.		
12 14 16 18 20	SM NR	SANDY SiLT: 15-16 Grayish brown, low plastici with subangular to subrounded fine to medium of trace root material, ~60% silt, ~30% sand, ~5% ~5% gravel. SiLTY SAND: 16-18 Brownish yellow (10YR6/8) dense, moist, trace gravel, ~55-60% fine sand, silt. NO RECOVERY: 18-20 SILTY SAND: 20-24.5 Brownish yellow (10YR6/8)	ravel, clay, , medium ~40-45%		102 174 137					
22		medium dense, moist, trace gravel, ~55-60% fin ~40-45% slit.								

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U.	1	Y	LOG OF BORING		÷	Borehole ID:	MW-7
Depth (ft bgs)	nscs	Symbol	Lithologic Description	% Recovery	PID Reading	Well Construction Details	Comments
24	SM		SILTY SAND: 24.5-36 Gray, moist, WEATHERED SILTY SANDSTONE bedrock, ~60% fine sand, ~40% silt.		595 124		
26 28	•		SANUSTONE bedrock, ~60% fine sand, ~40% slit.				09:15 Sheer bolts break on rig head at 30 ft bgs.
30	SM				1.7 4.2		09:20 Collect sample MW-7-18'. 09:55 Down-hole PID at 30 ft bgs is 0.4 ppm.
32 34	Civi				2.0	31-32.9 ft bgs: Bentonite pellet seal.	10:00 Resume coring from 30 ft bgs. 10:10 20-25 foot sample has noticable odor.
36	OUT TO STATE		SILTY SANDSTONE: 36-41 Gray to light gray, well cemented.		2.0 1.9		10:28 Collect soil sample MW-7-22.5'.
- 38 - - 40	The last to should be the last to the last						11:10 End of boring at 50 ft bgs, lose 2 ft of core down
_ _ 42_			SILTY SAND: 41-48 Gray, moist, WEATHERED SILTY SANDSTONE bedrock, ~60% fine sand, ~40% silt.		3.2	34.7-49.7 ft bgs: 4" Sch 40 PVC 0.020" screen.	Collect grab
- 44∞ - - 46	SM		SECONDESIS SECTIONS OF THE SECTION O		5.9	32.9-50 ft bgs: #3 RMC sand.	groundwater sample MW-7-GW. (Static Water level 15.43 ft below TOC-N on 2/21/06). Begin overdrilling with 8" casing to 50
- 48 	NR		NO RECOVERY: 48-50 No Recovery.		7.1	49.7-50 ft bgs: 49.7-50 ft bgs: 4" PVC silt trap and well cap.	ft bgs.
- 50 52			END OF BORING AT 50 FT BGS				
44 46 48 59 52			,				

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PHOTOGRAPHIC LOG

Chevron Pipe Line Company

Sunol Spill Monitoring Well Destruction Sunol, California

URS Project No. 26815217

Photo No.

Date: 6/23/08

Direction Photo Taken:

West facing East

Description:

URS employee in relationship to the hillside where trees were removed, staircase to soil vapor extraction wells, and approximate location of pipeline.



Photo No.

Date: 6/23/08

Direction Photo Taken:

West facing East

Description:

Approximate location of the pipeline along road on hillside.





PHOTOGRAPHIC LOG

Chevron Pipe Line Company

Sunol Spill Monitoring Well Destruction Sunol, California

URS Project No. 26815217

Photo No.

Date: 6/23/08

Direction Photo Taken:

West facing East

Description:

Staircase to soil vapor extraction (SVE) wells.



Photo No.

No. Date: 6/23/08

Direction Photo Taken:

West facing East

Description:

URS employee in relationship to the hillside.





PHOTOGRAPHIC LOG

Chevron Pipe Line Company

Sunol Spill Monitoring Well Destruction Sunol, California

URS Project No. 26815217

Photo No. 5

Date: 6/23/08

Direction Photo Taken:

South facing North

Description:

Monitoring well destruction along Calaveras Road.

