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January 4, 2005

Project No. 08CH.53321.05

Ms. Marisue Crystal
County of San Diego
Land and Water Quality Division
P.O. Box 129261
San Diego, California 92112-9261

Subject: **Monitoring Well Destruction Report**
Former Chevron Service Station No. 9-3321
2204 Torrey Pines Road
La Jolla, CA

Reference: **Drilling Permit # LMON102663**
EST # H12899-001
APN #346-530-07, 10

Dear Ms. Crystal:

On behalf of Chevron Environmental Management Company (Chevron), SECOR International Incorporated (SECOR) is submitting this report to summarize the results of monitoring well destruction activities completed at the subject site (Figure 1). A site plan showing the destroyed monitoring wells is presented as Figure 2. Well destruction activities were performed under a permit issued by the County of San Diego, Land and Water Quality Division (LWQD), Site Assessment and Mitigation Division (SAM). Well destruction activities were performed in accordance with the San Diego County well standards outlined in Appendix B of the *SAM Manual 2004*.

WELL DESTRUCTION ACTIVITIES UNDER PERMIT #LMON102663

On December 13 and December 14, 2004, under the supervision of a California Registered Civil Engineer, a SECOR field geologist observed the destruction of five on-site groundwater monitoring wells (MW-1, MW-8, MW-9, MW-10 and MW-11) at the subject site. The monitoring wells were destroyed under permit #LMON102663, issued by the SAM on November 8, 2004 (Attachment 1).

Well destruction was conducted by West Hazmat Drilling, Inc. (West Hazmat) using a mobile CME-75 drilling rig equipped with 10-inch diameter hollow-stem augers. Each well casing was completely withdrawn from its borehole prior to over-drilling. Each borehole was over-drilled to it's respective total depth to remove all well construction and annular fill materials (Attachment 2). The boreholes were backfilled with bentonite-grout slurry from the bottom of the borehole to 4 feet below ground surface (bgs). The bentonite-grout was pumped from the bottom of the borehole upward using a tremie pipe. Bentonite chips were poured into the borehole from 4 feet bgs to 3 feet bgs. Each borehole was completed from the top of the bentonite chips to ground surface with approximately three feet of concrete. The concrete seal was completed with an outward slope to ensure proper surface runoff.

Drill cuttings for all well destruction activities consisted of filter pack sand and bentonite sealing materials. Drill cuttings generated during the destruction activities were placed in 55-gallon drums that were properly labeled and temporarily stored on-site pending transport and disposal by Chevron-approved contractors. The well box and casing materials were disposed of by West Hazmat at a sanitary landfill. Additionally, the volume of bentonite-grout, bentonite chips, and concrete used within the borings is provided in Table 1.

If you have any questions regarding the information provided in this report, please contact the undersigned at (619) 296-6195.

Sincerely,

SECOR International Incorporated

Prepared By:

Brian A. Waite
Project Geologist

Reviewed By:

Edward A. Kwasnica
Senior Project Manager

Approved By:

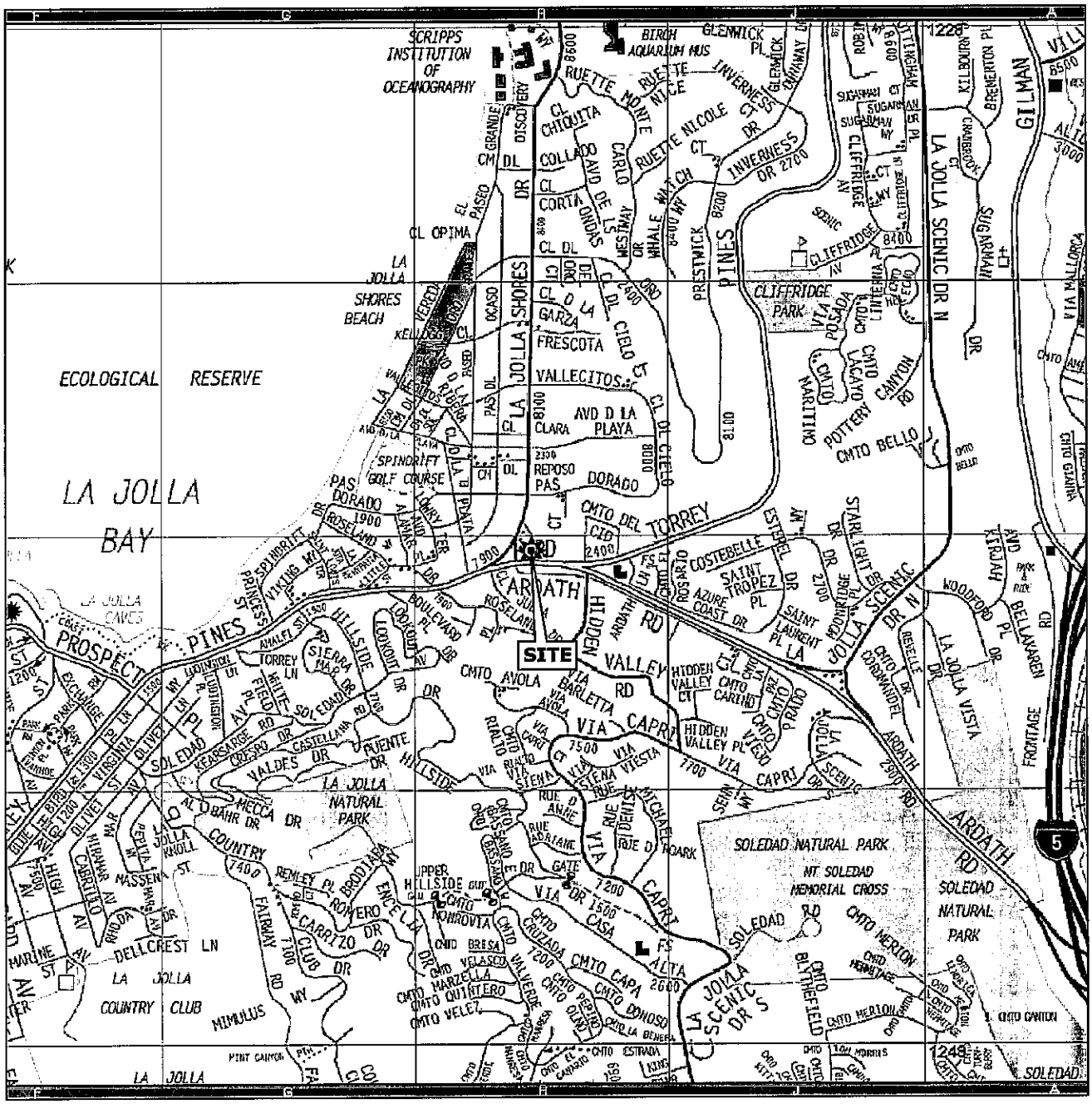
Neal S. Keller P.E. #C59525
Senior Engineer

REGISTERED PROFESSIONAL ENGINEER
NEAL S. KELLER
No. C59525
EXP. 12-31-05
CIVIL
STATE OF CALIFORNIA

Enclosure: Figure 1 - Site Location Map
Figure 2 - Site Plan (with destroyed monitoring well locations)
Table 1 - Construction Materials for Monitoring Well Destruction
Attachment 1 – Well Destruction Permit Cover Sheet
Attachment 2 – Borehole/Well Logs (MW-1, MW-8, MW-9, MW-10, and MW-11)

cc: Mr. Eric Roehl, Chevron Environmental Management Company
Mr. Kent Huth, County of San Diego SAM Division

FIGURES



REFERENCE: THOMAS GUIDE CD-ROM, PAGE & GRID 1227 H6.

NORTH

0 1320 2640

APPROXIMATE SCALE IN FEET

DRAWN BY: RJO CHECKED: APPROVED: DATE: Q1/04 JOB No.: 08CH.43321.04 CAD FILE: 9-3321SLOC	PREPARED BY: SECOR 2655 Camino del Rio North, Suite 302 San Diego, California	PREPARED FOR: FORMER CHEVRON SERVICE STATION #9-3321 2204 Torrey Pines Road La Jolla, California	FIGURE 1 **SITE LOCATION MAP**

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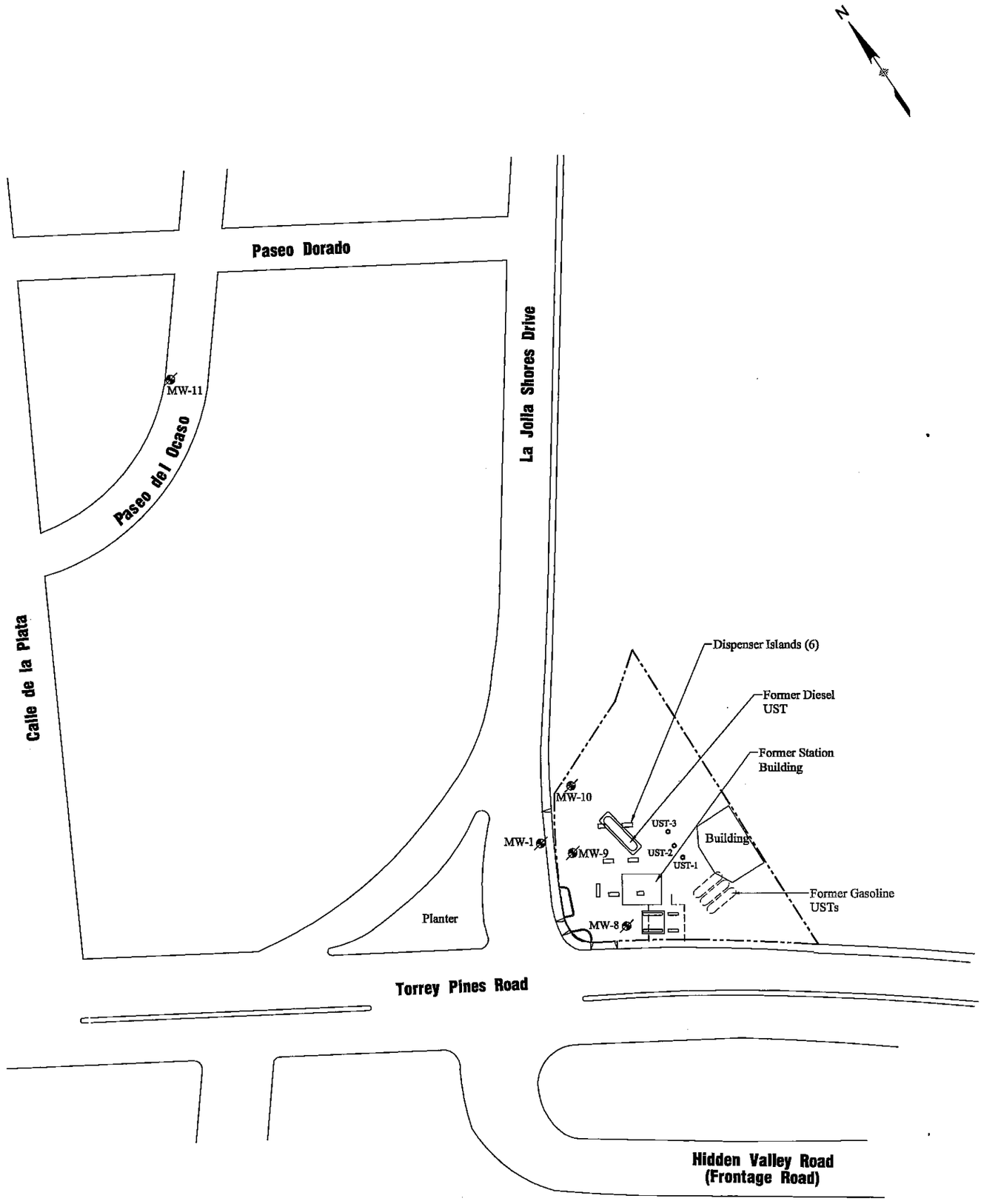


LEGEND:

- GROUNDWATER MONITORING WELL DESTROYED
- CURRENT UST LOCATION

0 100 200
APPROXIMATE SCALE IN FEET

NOTES:

MAP ADAPTED FROM IT CORPORATION

DRAWN BY: PD CHECKED: BW APPROVED: NK DATE: 1/4/05 JOB No.: 08CH.43321.05 CAD FILE: 93321SP1-05	PREPARED BY: SECOR 2655 Camino del Rio North, Suite 302 San Diego, California	PREPARED FOR: FORMER CHEVRON SERVICE STATION #9-3321 2204 Torrey Pines Road La Jolla, California	FIGURE 2 SITE PLAN

P:\0CHEVRON\SITES\9-3321 TORREY PINES, SD\FIGURES\93321SP1-05.DWG MODIFIED BY BWAITE ON JAN 04, 2005 - 11:22

TABLE

Table 1

Construction Materials for Monitoring Well Destruction

Former Chevron Service Station 9-3321

Boring/Well Number	Overdrill Depth (ft bgs)	Bentonite-Grout (bags)*	Bentonite Chips (bags)*	Concrete(bags)**	Bentonite-Grout Fill (cubic feet)	Bentonite Chip Fill (cubic feet)	Concrete (cubic feet)
MW-1	55	4.5	1.0	6	15.75	0.655	4.2
MW-8	65	6.5	1.0	8	22.75	0.655	5.6
MW-9	65	6.0	1.5	6	21	0.983	4.2
MW-10	65	6.0	1.5	6	21	0.983	4.2
MW-11	45	4.5	1.0	8	15.75	0.655	5.6

Notes:

ft bgs Feet below ground surface

* 50 pounds bag

** 70 pounds bags

ATTACHMENT 1

WELL DESTRUCTION PERMIT COVER SHEET

PERMIT #LMON102663
A.P.N. #346-530-07, 10
EST #H12899-001

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

MONITORING WELL DESTRUCTION PERMIT

SITE NAME: CHEVRON STATION #9-3321 & OFFSITE

SITE ADDRESS: 2204 TORREY PINES RD. & OFF-SITE ADJACENT TO 7956 PASEO OCASO, LA JOLLA, CA 92037

PERMIT TO: **DESTROY 5 GROUNDWATER MONITORING WELLS**

PERMIT APPROVAL DATE: November 8, 2004

PERMIT EXPIRES ON: March 8, 2005

RESPONSIBLE PARTY: CHEVRON ENVIRONMENTAL MGMT COMPANY

PERMIT CONDITIONS:

1. **All material within the original borehole, which includes the casing, filterpack and annular seal must be removed. The borehole must be completely filled with an approved sealing material as specified in Department of Water Resources Bulletin 74-90.**

2. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, E- 4. (**http://www.sdcounty.ca.gov/deh/lwq/sam/manual_guidelines.html**). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.

3. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.

4. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 619) 338-2339.

NOTE: **This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.**

APPROVED BY: V. Tavizon DATE: 11/03/2004
VERONICA TAVIZON

NOTIFIED: 11/9/04 fax

DEH:SAM-9075 (4/03)

ATTACHMENT 2

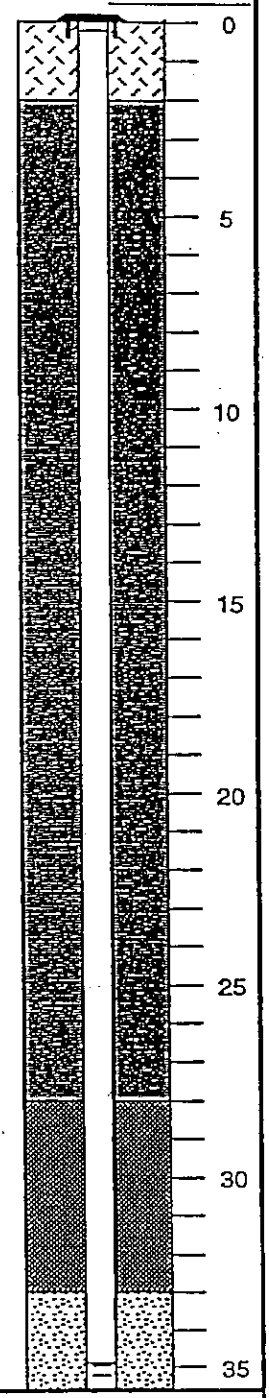
BOREHOLE/WELL LOGS (MW-1, MW-8, MW-9, MW-10, AND MW-11)

SAMPLE INTERVAL	DEPTH (fbg)	CLIENT: Chevron Products Company PROJECT: Service Station #9-3321 / La Jolla LOCATION: 2204 Torrey Pines Road, CA DESCRIPTION AND SOIL CLASSIFICATION NAME: %gravel/sand/fines, gradation/plasticity, color, angularity, maximum size (gravels), density/consistency, moisture, odor, stain	BLOWS PER 6 INCHES	PID (ppmv)	USCS
	0	6" asphalt			
		SANDY CLAY: 0/35/65, medium-grained to fine-grained sand, low plasticity, brown, medium stiff, moist, no odor, no stain			CL
	5		2,2,4	0	
	10	0/20/80, fine-grained sand, medium plasticity, medium stiff, moist, no odor, no stain	5,5,7	0	
		SILTY CLAY: 0/0/100, medium-grained to fine-grained sand, medium to high plasticity, brown, stiff, moist, no odor, no stain			CH
	15		3,3,6	0	
		SANDY CLAY: 0/40/60, medium-grained to fine-grained sand, no plasticity, brown, stiff, moist, no odor, no stain			CL
	20		7,7,7	0	
	25	0/20/80, fine-grained sand, high plasticity, brown, stiff, moist, no odor, no stain	4,4,6	0	
	30	0/30/70, fine-grained sand, medium to high plasticity, brown, very stiff, moist, no odor, no stain	5,5,6	0	
		SILTY CLAY: 0/0/100, medium-grained to fine-grained sand, medium to high plasticity, brown, stiff, moist, no odor, no stain			CH
	35		6,10,8	41.6	

COMPLETION DETAIL

- [x] GROUNDWATER WELL
- [ ] VADOSE WELL
- [ ] SPARGE WELL
- [ ] BORING

CASING: 4-inch SCH 40 PVC
SLOT SIZE: 0.020 inch
FILTER PACK: #3 Monterey Sand



DRILLING METHOD: CME-75, 10"-OD, hollow-stem auger	DATE DRILLED: September 16, 1996
SAMPLER TYPE: 1.5"-diameter, California modified split spoon	LOGGED BY: D. Pessler
TOTAL BORING DEPTH: 55 fbg	APPROVED BY: J. Haslett, RG #5641
DEPTH TO WATER: ≈45'	DRILLED BY: West Hazmat Drilling Corporation

HOLGUIN, FAHAN & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

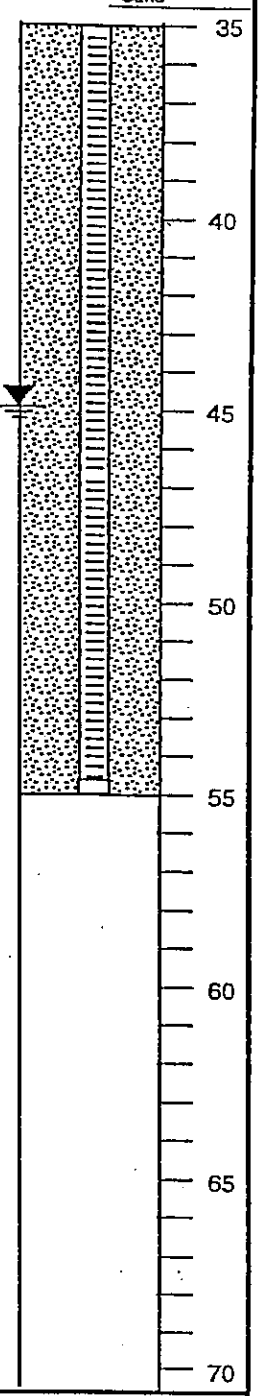
MW-1

SAMPLE INTERVAL	DEPTH (fbg)	CLIENT: Chevron Products Company PROJECT: Service Station #9-3321 / La Jolla LOCATION: 2204 Torrey Pines Road, CA DESCRIPTION AND SOIL CLASSIFICATION NAME: %gravel/sand/fines, gradation/plasticity, color, angularity, maximum size (gravels), density/consistency, moisture, odor, stain	BLOWS PER 6 INCHES	PID (ppmv)	USCS
	35				CH
	40	CLAYEY SAND: 0/65/35, medium-grained to fine-grained sand, brown , medium dense, moist, no odor, no stain	7,13,14	83.3	SC
	45	SANDY CLAY: 0/35/65, medium-grained to fine-grained sand, low plasticity, brown, medium stiff, moist, no odor, no stain	6,6,8	4,000+	CL
	50		5,5,6	2,000	
	55	CLAYEY SAND: 0/65/35, medium-grained to fine-grained sand, brown , medium dense, moist, no odor, no stain	6,6,6	74	SC
	60				
	65				
	70				

COMPLETION DETAIL

- [x] GROUNDWATER WELL
- [ ] VADOSE WELL
- [ ] SPARGE WELL
- [ ] BORING

CASING: 4-inch SCH 40 PVC
SLOT SIZE: 0.020 inch
FILTER PACK: #3 Monterey Sand



DRILLING METHOD: CME-75, 10"-OD, hollow-stem auger	DATE DRILLED: September 16, 1996
SAMPLER TYPE: 1.5"-diameter, California modified split spoon	LOGGED BY: D. Pessler
TOTAL BORING DEPTH: 55 fbg	APPROVED BY: J. Haslett, RG #5641
DEPTH TO WATER: ≈45'	DRILLED BY: West Hazmat Drilling Corporation

HOLGUIN, FAHAN & ASSOCIATES, INC.

LOG OF EXPLORATORY BORING

MW-1

SECOR

BOREHOLE / WELL LOG

Number: MW-8

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 1 of 3

SECOR Rep: T. Chandler

Approved by: [signature]

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

Drilling Company/Driller: West Hazmat Drilling Corporation

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia.:	Surface Elevation:
11/15/02	11/15/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
				0	CL		Sandy CLAY with Silt, dark brown, fine to medium grained quartz with muscovite chrystals (<5%), well indurated, no moisture, no hydrocarbon (HC) odor.	
MW-8/5'	0.0	<10	6/10/13	5				
				10			Dryer, increased sand content.	
MW-8/10'	0.0	<10	6/7/11					
				15			Sandy CLAY, dark grayish brown, red silt inclusions and orange/tan sand inclusions, 5 % sand.	
MW-8/15'	0.0	<10	4/9/10					
				20	ML		Clayey SILT with Sand, gray color, small pebble size inclusions of silt, microlaminations of sand.	
MW-8/20'	0.0	<10	4/12/15					
				25			Clayey SILT with Sand, gray color, whispy sand inclusions, very few small pebbles, friable, no HC odor.	
MW-8/25'	0.0	<10	10/14/22					
				30				

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BOREHOLE / WELL LOG

Number: MW-8

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 2 of 3

SECOR Rep: T. Chandler

Approved by: CRBlack

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

Drilling Company/Driller: West Hazmat Drilling Corporation

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia.:	Surface Elevation:
11/15/02	11/15/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
MW-8/30'	0.0	<10	10/11/12	30	ML		Sandy SILT with Clay, grayish brown, medium to fine grained sand, very friable, warm.	
MW-8/35'	0.0	<10	4/11/18	35	CL		Silty CLAY, dark brown, medium to fine grained sand (<5%), not very friable, no HC odor.	
MW-8/40'	15	<10	10/12/15	40	ML		Clayey SILT with Sand, dark brown, fine to coarse grained sand (quartz blended), some medium pebble size grains, warm, slight HC odor.	
MW-8/45'	17	<10	12/15/12	45			Clayey SILT with large zones of medium grained sand, sand is either orange/tan or yellow/white, both layers contain medium pebbles, slight HC odor. 1/3 of split spoon has water (muddy) on outside of sleeve.	
MW-8/50'	40	13	10/20/30	50	CL		Silty CLAY, grayish brown, well sorted, found one large angular pebble, moderately friable, HC odor.	
MW-8/55'	85	16	12/50-6"	55	SM		Coarse grained SAND, loosely consolidated, wet, strong HC odor.	

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SECOR

BOREHOLE / WELL LOG

Number: MW-8

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 3 of 3

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

Drilling Company/Driller: West Hazmat Drilling Corporation

SECOR Rep: T. Chandler

Approved by: CRBlock

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia:.	Surface Elevation:
11/15/02	11/15/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
MW-8/60'	85	<10	10/11/12	60	SM		Medium to coarse SAND, wet, HC odor, slightly less HC staining than previous samples (55', 60')	
MW-8/65'	50	<10	4/11/18	65			TOTAL DEPTH = 64 FEET BGS Stopped drilling at 64 feet bgs. Installed 4 - inch diameter monitoring well with 0.020-inch screen from 39 to 64 feet bgs. #3 Monterey sand used for filter pack from 37 feet to 64 feet bgs. Well was sealed with hydrated bentonite chips from 3 feet to 37 feet bgs and completed with a traffic-rated well box set in concrete.	

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BOREHOLE / WELL LOG

Number: MW-9

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 1 of 3

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

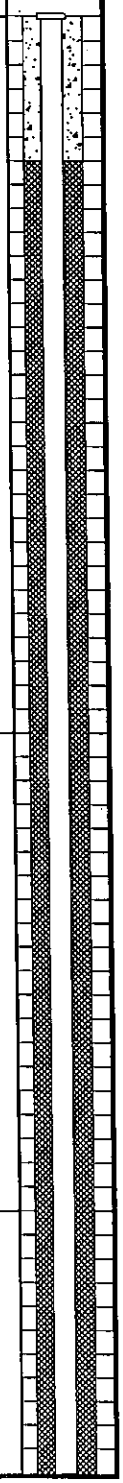
Drilling Company/Driller: West Hazmat Drilling Corporation

SECOR Rep: T. Chandler

Approved by: CRClark

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia:.	Surface Elevation:
11/22/02	11/22/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
				0				
				1				
				2				
				3				
				4	CL		Silty CLAY with Sand, medium brown, medium to fine grained sand (5%), dry, no HC odor.	
MW-9/5'	0.0	<10	3/3/4	5				
				6				
				7				
				8				
				9				
MW-9/10'	0.0	<10	6/6/10	10				
				1				
				2				
				3				
				4				
MW-9/15'	0.0	<10	5/5/5	15	ML		Sandy SILT, dark brown, clayey silt inclusions, friable, dry, no HC odor	
				6				
				7				
				8				
				9				
MW-9/20'	0.0	<10	10/11/13	20			SILT, gray silt inclusions, maroon silt inclusions, yellow fine sand inclusions, poorly sorted, silt matrix is dark brown, friable, dry.	
				1				
				2				
				3				
				4				
MW-9/25'	0.0	<10	6/8/7	25	CL		Silty CLAY, dark brown, slightly moist, no HC odor.	
				6				
				7				
				8				
				9				
				30				



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SECOR

BOREHOLE / WELL LOG

Number: MW-9

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 2 of 3

SECOR Rep: T. Chandler

Approved by: CR Bloch

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

Drilling Company/Driller: West Hazmat Drilling Corporation

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia:.	Surface Elevation:
11/15/02	11/15/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
MW-9/30'	0.0	<10	7/7/8	30	CL		CLAY, dark brown, trace medium to fine grained sand, traces of whispy white silt throughout, poorly sorted, no HC odor.	
MW-9/35'	0.0	<10	6/8/9	35	ML		SILT, dark brown, sleeve slightly wet, well sorted, no HC odor.	
MW-9/40'	15	<10	7/7/7	40			Increased sand content.	
MW-9/45'	17	340	7/7/8	45	SM		SAND with Silt, light brown, fine to medium grained sand, slightly wet, no HC odor.	
MW-9/50'	80	11	10/8/9	50			Well graded from SAND with Silt to SAND, dark brown sand with silt, stained gray sand, sand with silt slightly wet, sand was saturated and had strong HC odor.	
MW-9/55'	30	<10	7/7/8	55			SAND, medium brown, fine to medium grained sand with silt, wet, slight HC odor.	

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BOREHOLE / WELL LOG

Number: MW-9

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 3 of 3

SECOR Rep: T. Chandler

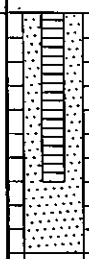
Approved by: [signature]

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

Drilling Company/Driller: West Hazmat Drilling Corporation

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia.:	Surface Elevation:
11/15/02	11/15/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
MW-9/60'	15	<10	7/7/9	60	SM		SAND, medium brown, gray silt inclusions, large pebbles, wet, slight HC odor.	
				1				
				2				
				3				
				4				
MW-9/65'	0.0	<10	7/7/7	65			Top 6" same as 60' bgs, middle and lower 6" sections were composed of 2 parts, a light brown to tan SAND with Silt and a dark brown SILT with Sand, top 6" were wet, lower 12" were only moist.	
				6				
				7			TOTAL DEPTH = 63.5 FEET BGS	
				8			Stopped drilling at 63.5 feet bgs. Installed 4 - inch diameter monitoring well with 0.020-inch screen from 38.5 to 63.5 feet bgs. #3 Monterey sand used for filter pack from 36.5 feet to 65 feet bgs. Well was sealed with hydrated bentonite chips from 3 feet to 36.5 feet bgs and completed with a traffic-rated well box set in concrete.	
				9				
				70				
				1				
				2				
				3				
				4				
				75				
				6				
				7				
				8				
				9				
				80				
				1				
				2				
				3				
				4				
				85				
				6				
				7				
				8				
				9				
				90				



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SECOR

BOREHOLE / WELL LOG

Number: MW-10

Client: Chevron Products Corp.	Job No: 08CH.53321.03	Sheet: 1 of 3	
Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California	Drilling Company/Driller: West Hazmat Drilling Corporation		
SECOR Rep: T. Chandler	Approved by:		

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia:.	Surface Elevation:
11/22/02	11/22/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
				0	SM		SAND with Silt, dark brown, poorly sorted, silt size grains to medium pebbles, friable, dry, no HC odor.	
				1				
				2				
				3				
				4				
MW-10/5'	0.0	<10	3/3/3	5				
				6				
				7				
				8				
				9				
MW-10/10'	0.0	<10	5/5/6	10	ML		SILT with Clay, dark brown, medium pebble size gray silt inclusions, friable, dry, no HC odor.	
				1				
				2				
				3				
				4				
MW-10/15'	0.0	<10	5/8/10	15			SILT with Sand, medium brown, trace of whispy white silt material, poorly sorted, friable, dry, no HC odor.	
				6				
				7				
				8				
				9				
MW-10/20'	0.0	<10	4/4/4	20				
				1				
				2				
				3				
				4				
MW-10/25'	0.0	<10	4/6/7	25			SILT with Sand, medium brown, moderately friable, dry, no HC odor.	
				6				
				7				
				8				
				9				
				30				

SECOR

BOREHOLE / WELL LOG

Number: MW-10

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 2 of 3

SECOR Rep: T. Chandler

Approved by: CRBlack

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

Drilling Company/Driller: West Hazmat Drilling Corporation

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia.:	Surface Elevation:
11/15/02	11/15/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
MW-10/30'	0.0	<10	5/7/9	30	ML		Clayey SILT with Sand, medium brown, slightly moist (next to planter), no HC odor.	
				35			Sandy SILT, grayish brown, moist, slight HC odor.	
MW-10/35'	10	<10	4/4/4					
MW-10/40'	0	<10	5/6/7	40			SILT, dark grayish brown, sand inclusions, dry, no HC odor.	
MW-10/45'	75	<10	4/4/4	45			SILT with Clay and Sand, moist, strong HC odor.	
MW-10/50'	20	<10	4/5/5	50	SM		SAND with Silt, medium brown, wet, slight HC odor.	
MW-10/55'	5	<10	12/13/15	55				
				60				

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SECOR

BOREHOLE / WELL LOG

Number: MW-10

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 3 of 3

SECOR Rep: T. Chandler

Approved by: C R Pollack

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

Drilling Company/Driller: West Hazmat Drilling Corporation

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia:.	Surface Elevation:
11/15/02	11/15/02	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
MW-10/60'	0.0	<10	8/12/15	60	SM		SAND with Silt, medium brown, fully saturated, runny, no HC odor.	
				1				
				2				
				3				
				4			SAND with pebbles, medium brown, poorly sorted, wet, no HC odor.	
MW-10/65'	0.0	<10	10/10/10	65				
				6			TOTAL DEPTH = 65 FEET BGS	
				7			Stopped drilling at 65 feet bgs. Installed 4 - inch diameter monitoring well with 0.020-inch screen from 40 to 65 feet bgs. #3 Monterey sand used for filter pack from 38 feet to 65 feet bgs. Well was sealed with hydrated bentonite chips from 3 feet to 38 feet bgs and completed with a traffic-rated well box set in concrete.	
				8				
				9				
				70				
				1				
				2				
				3				
				4				
				75				
				6				
				7				
				8				
				9				
				80				
				1				
				2				
				3				
				4				
				85				
				6				
				7				
				8				
				9				
				90				

SECOR

BOREHOLE / WELL LOG

Number: MW-11

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 1 of 2

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

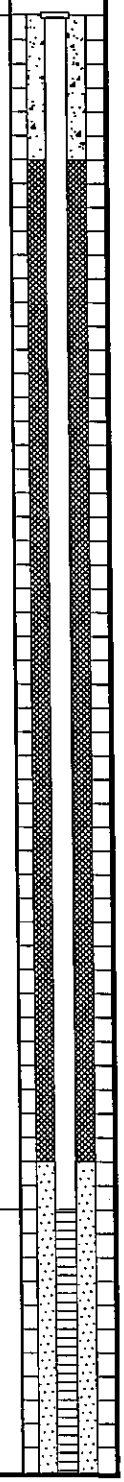
Drilling Company/Driller: West Hazmat Drilling Corporation / Rick Hastings

SECOR Rep: T. Chandler

Approved by: CR Pollock

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia:.	Surface Elevation:
3/18/03	3/18/03	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
MW-11/5'	0.0	NA	2/3/4	5	CL		Silty CLAY, brown, <5 % sand grains, very well sorted, no moisture, no HC odor.	
MW-11/10'	0.0	NA	7/9/11	10				
MW-11/15'	0.0	NA	10/15/20	15	CL		same as 5' bgs with some whispy light tan silt inclusions.	
MW-11/20'	0.0	<10	7/9/15	20				
MW-11/25'	0.0	<10	8/9/11	25	SM		Silty SAND, brown, moist, no HC odor.	
				30			Water encountered, Silty SAND, <2 % coarse sand, gray inclusions that appear stained yet have no odor, wet, no HC odor.	



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SECOR

BOREHOLE / WELL LOG

Number: MW-11

Client: Chevron Products Corp.

Job No: 08CH.53321.03

Sheet: 2 of 2

SECOR Rep: T. Chandler

Approved by:

Location: Former Chevron Station No. 9-3321, 2204 Torrey Pines Road, La Jolla, California

Drilling Company/Driller: West Hazmat Drilling Corporation / Rick Hastings

Date Started:	Date Finished:	Drill Rig/Sampling Method:	Borehole Dia.:	Casing Dia.:	Surface Elevation:
3/18/03	3/18/03	CME-75/Split Spoon Sampler	10"	4"	N/A

SAMPLE LOG			BOREHOLE LOG					WELL LOG
Sample Number	OVA/PID (ppm)	Lab Results TPH(ppm)	Density Blows/ft	Depth in Feet	USCS Symbol	Graphic Log	Geologic Description (Soil Type, Color, grain, minor soil component, moisture, density, odor, etc.)	Well Design
MW-11/30'	0.0	<10	5/5/5	30	SM		Sandy SILT, Silt and coarse Sand, poorly sorted, wet, no HC odor.	
MW-11/35'	0.0	<10	5/6/9	35				
MW-11/40'	15	<10	5/5/9	40	CL		Silty CLAY, brown, <5% fine grained sand, dry, no HC odor.	
MW-11/45'	17	<10	10/12/16	45			Silty CLAY, same as 10' bgs, dry.	

TOTAL DEPTH = 45 FEET BGS

Stopped drilling at 45 feet bgs. Installed 4 - inch diameter monitoring well with 0.020-inch screen from 25 to 45 feet bgs. #3 Monterey sand used for filter pack from 24 feet to 45 feet bgs. Well was sealed with hydrated bentonite chips from 3 feet to 24 feet bgs and completed with a traffic-rated well box set in concrete.

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