

GEOSCIENCE & ENGINEERING CONSULTING

March 8, 2006

Ms. Jocelyn Habal Senior Environmental Health Specialist Contra Costa County Health Services Department Environmental Health Division 2120 Diamond Boulevard, Suite 200 Concord, CA 94520

Ms. Lynn Nakashima California Department of Toxic Substances Control 700 Heinz Street, Suite 100 Berkeley, California 94710-2721

Subject: Well Closure Documentation Report University of California Berkeley – Richmond Field Station 1301 S. 46<sup>th</sup> Street, Richmond, California

Dear Ms. Habal:

#### INTRODUCTION AND BACKGROUND

On behalf of the property owner, University of California – Berkeley (UC Berkeley), Stellar Environmental Solutions, Inc. (SES) is submitting this technical documentation report discussing the permanent destruction (decommissioning) of 27 wells (including 3 shallow piezometers) at the referenced site. One additional well was found to be previously closed. The work was initiated at the request of the Contra Costa County Health Services Department – Well Section (CCCHSD), as the wells serve no current or anticipated research function.

Technical specifications for the well closures (Stellar Environmental Solutions, 2005a) were submitted to CCCHSD and to the California Department of Toxic Substances Control (DTSC), who requested some technical revisions to the well closure methodology. Revised technical specifications incorporating DTSC's comments and were subsequently re-submitted to CCCHSD and DTSC (Stellar Environmental Solutions, 2005b). Field conditions dictated obtaining from CCCHSD variances from the final technical specifications, as discussed below.

The main wellfield was installed in the early 1950s by UC Berkeley as part of a State of California-funded research project on deep well injection and contaminant transport (Final Report on Laboratory and Field Investigations of the Travel of Pollution From Direct Recharge into Underground Formations, University of California, Berkeley, December 31, 1954). Information on well installation, usage, and construction was obtained from the 1954 report (which was included in our 2005 Technical Specifications package).

The three shallow piezometers were installed in September 2002 as temporary groundwater monitoring points to determine groundwater flow direction, as part of ongoing site contaminant investigations. These piezometers are not related to the 1950s research wellfield, and UC Berkeley has determined that these piezometers are no longer needed.

The Richmond Field Station site is located immediately southwest of Interstate 580 (I-580) in western Richmond, California. Figure 1 is a site location map. The 1950s wellfield is located in the central portion of the site (near San Francisco Bay); most of the wells are within the grassy undeveloped field immediately to the north of Crow Drive. Figure 2 is a site plan showing the area of the 1950s wellfield, and the location of the piezometers. Figure 3 is a detail map showing the 1950s wellfield. The 1950s wellfield dimensions are approximately 600 feet long (north to south) by 150 feet wide (east to west, at its widest point). The piezometers are located farther to the south and southeast of the 1950s well field.

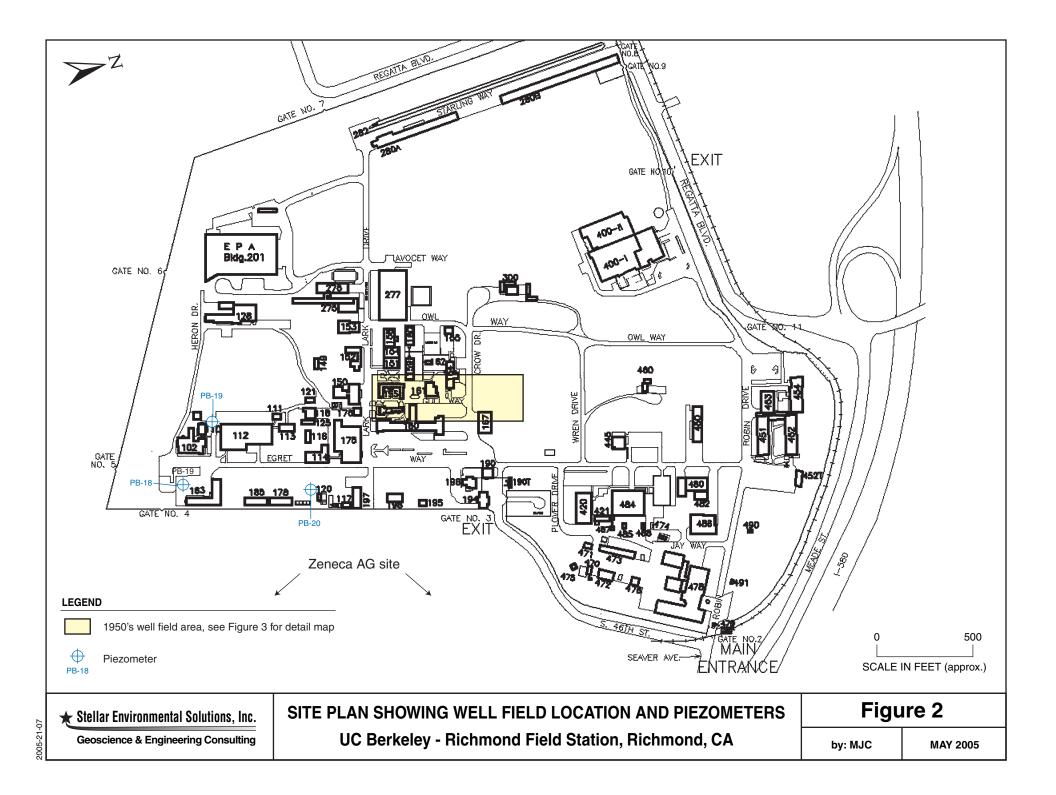
## 1950'S WELL INSTALLATION AND USAGE

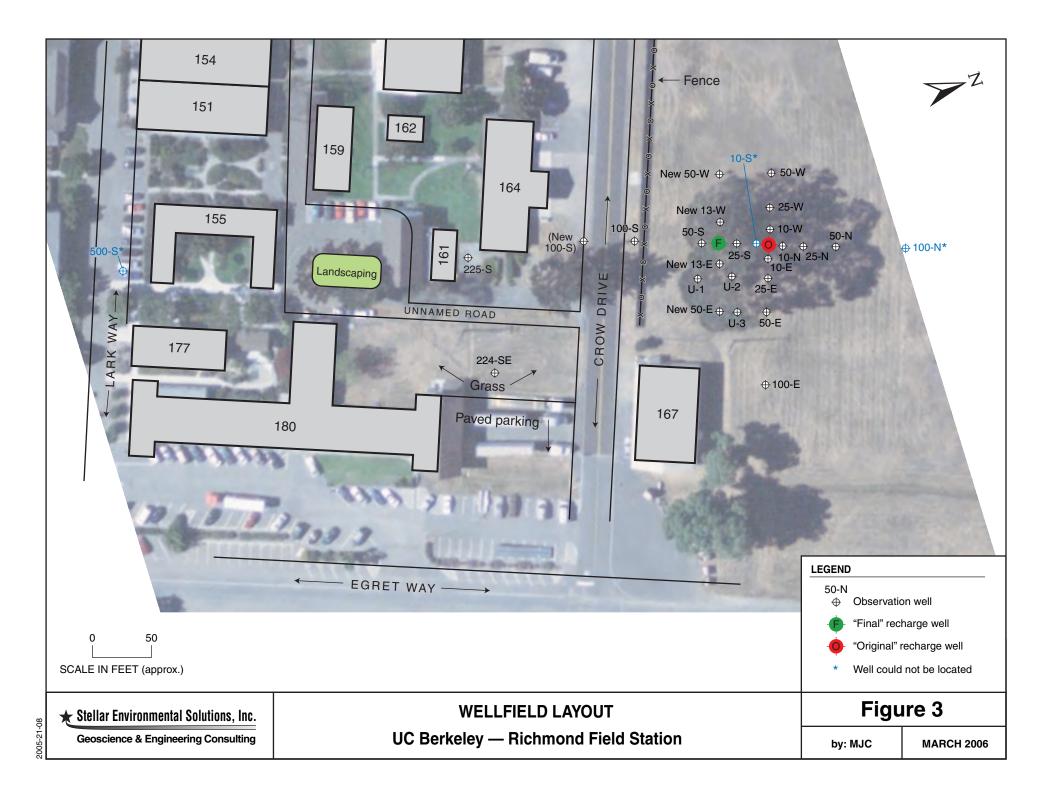
The main wellfield was installed in the early 1950's as part of a research project funded by the California Regional Water Quality Control Board (Water Board). The project evaluated the feasibility of subsurface injection (recharge) of sewage waste effluent. Two types of wells were installed: recharge (injection) wells (2), and observation wells (23).

Following completion of the 1953 study, some or all of the wells were used in subsequent (1960s) studies involving groundwater transport. These studies used radiological isotope tracers: tritium (H3); two isotopes of strontium (Sr89 & Sr90); cesium (Cs137); and yttrium (Y90). Most recently, the "Final Recharge Well" was utilized for localized onsite irrigation.

As shown in Table 1, three wells documented in the 1954 report could not be located, either by visual inspection of the area or a metal detector survey. These wells were either previously closed, paved over or built over.







# Table 1Groundwater Well and Piezometer Construction and Grouting DataUC Berkeley – Richmond Field Station, Richmond, California

Well / Piezometer	Well Depth - Installed <sup>(a)</sup>	Well Depth - 2006 <sup>(b)</sup>	Screened Interval	Anticipated Grout Volume (gals) <sup>(c)</sup>	Emplaced Grout Volume (gals)
Recharge Wells (12-inch stee	=				
"Original" Recharge Well	112	94	102 – 112 (10')	536	~530
"Final" Recharge Well	102	100	90 - 100 (10')	580	~600
Observation Wells (6-inch st	eel casing)				
10-East	105	98	94 - 101 (7')	147	~150
25-East	103	100	92 - 99 (7')	150	~150
50-East	102	110	92 - 99 (7')	165	~160
100-East	102	100	94 – 101 (7')	150	~150
New 13-East	103	100	94 - 102' (8')	150	~150
New 50-East	101	97	89 - 97 (8')	146	~150
10-North	102	100	91 – 98 (7')	150	~150
25-North	105	106	94 – 101 (7')	159	~155
50-North	103	93	92 - 99 (7')	140	~140
100-North	103	not located	92 - 99 (7')		
10-West	105	97	95 – 102 (7')	146	~150
25-West	105	65	94 – 101 (7')	98	~90
50-West	102	64	91 - 98 (7')	96	~90
New 13-West	101	94	91 – 99 (8') <sup>(c)</sup>	141	~140
New 50-West	104	96	94 – 103 (7')	144	~140
10-South	105	not located	95 – 102 (7')		
25-South	105	100	94 - 101 (7')	150	~150

Well / Piezometer	Well Depth - Installed <sup>(a)</sup>	Well Depth - 2006 <sup>(b)</sup>	Screened Interval	Anticipated Grout Volume (gals) <sup>(c)</sup>	Emplaced Grout Volume (gals)
50-South	105	97	94 - 101 (7')	146	~140
100-South	110	98	100 – 107 (7')	147	~140
New 100-South	101	(e)	92 - 99 (7')		
225-South	100	100	92 - 99 (7')	150	~150
500-South	104	not located	96 - 103 (7')		
224-Southeast	100	98	92 - 99 (7')	147	~150
Additional Site Wells Not Do	cumented in 1954 Report (6-in	ch steel casing)			
U-1	not documented	102	not documented	153	~150
U-2	not documented	101	not documented	152	~150
U-3	not documented	92	not documented	138	~135
Piezometers (1/2-inch PVC, p	pre-packed well screens and ca	sing, overdrilled with 8-inch a	ugers)		
PB-18	16	12	6 -16	42	40
PB-19	16	13	6 -16	42	40
PB-20	16	12	6 -16	42	40

#### Table 1 (continued)

Notes:

<sup>(a)</sup> Depth documented in 1954 well installation report

<sup>(b)</sup> Depth to which <sup>3</sup>/<sub>4</sub>-inch tremie pipe could be delivered during 2006 well closures.

<sup>(c)</sup> Calculated as 1.5 gallons/foot casing (6-inch wells) and 5.8 gallons/foot casing (12-inch wells) x 2006 probed depth.

<sup>(d)</sup> Calculated as 2.6 gallons/foot casing (8-inch diameter augered-borehrole x drill depth.

<sup>(e)</sup> The well appears to be previously closed - filled with rock and soil to at least 6 feet below ground surface.

All depths are in feet below ground surface.

Ms. Jocelyn Habal March 8, 2006 Page 8 of 16

Our recent inspections identified an additional three wells, in the main wellfield area, that were not documented in the 1954 study report (named the "U" wells for this project). The "U" wells are of similar construction and depth to the 1950s wells, and we presume they were installed within that time period. No documentation was available regarding those additional wells.

A detailed discussed of the well construction specification and water quality sampling was presented in the December 8, 2005 well closure workplan (SES, 2005b). The 1950s wells were completed (screened) solely in the water-bearing zone present between approximately 90 and 100 feet below grade, and were sealed off from the overlying water-bearing zones. Equilibrated water levels measured in the 1950s wells in April 2005 were approximately 3 to 4 feet below grade, indicating confining conditions. The direction of local groundwater flow is inferred to be to the south (toward San Francisco Bay).

The piezometers are screened from 6 to 16 feet. In the one piezometer with a borehole geologic log (PB-19), lithology encountered was a dry, stiff clay (0 to 10 feet) underlain by wet gravelly sand (11 to 12 feet) underlain by a wet sand (12 to 14 feet) underlain by a wet stiff clay (14 feet to bottom of borehole). Groundwater in these piezometers is from the uppermost water-bearing zone, and is not connected to the underlying water-bearing zone in which the 1950s wells are screened.

#### WELL CONSTRUCTION SPECIFICATIONS

This section discusses key well and piezometer construction specifications (as defined in the 1954 study report), which are summarized in Table 1.

#### **Original Recharge Well**

- Cable-tool installed with steel casing driven to completion depth
- 6-inch-diameter steel slotted casing (7 feet long), with 28 slots each measuring <sup>1</sup>/<sub>8</sub>-inch wide by 6 inches long
- 6-inch-diameter steel riser casing to surface
- No annular space, filter pack material, or annular pollution seal

#### **Documented 1953 Observation Wells**

- Cable-tool installed with steel casing driven to completion depth
- 6-inch-diameter steel slotted casing (7 feet long), with 28 slots each measuring <sup>1</sup>/<sub>8</sub>-inch wide by 6 inches long
- 6-inch-diameter steel riser casing to surface
- No annular space, filter pack material, or annular pollution seal

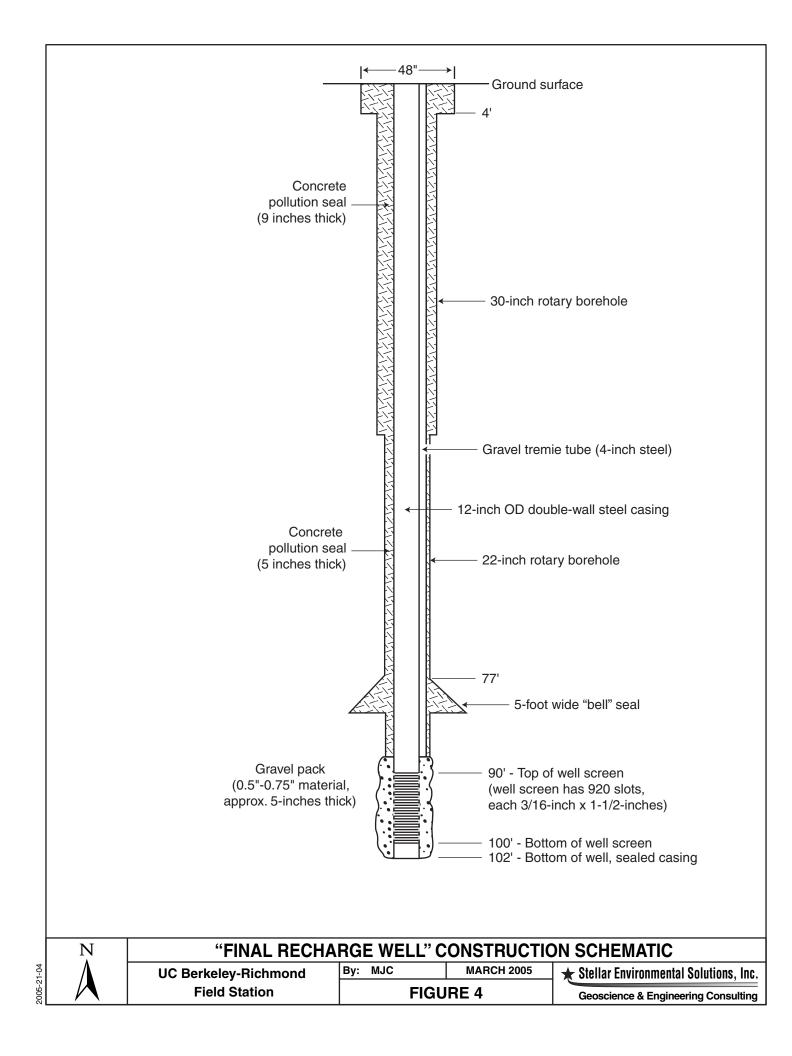
#### **Final Recharge Well**

Figure 4 is a construction detail of the final recharge well.

- Rotary-drilled with temporary 36-inch and 24-inch casings (pulled during completion)
- 22-inch final borehole diameter at screened interval
- 12-inch steel (double-walled) casing, screened across the aquifer, with gravel-pack (annular material) across the screen.
- Steel screen (3/16-inch by 1.5-inch) from 90' to 100', across the aquifer with gravel annular pack
- 4-inch steel tremie tube in annulus, open at the base (for adding annular pack material after development) (this tube was left in place and was encapsulated by the annular seal).
- Tremie-grouted concrete as annular pollution seal from approximately 88 feet bgs to surface.

#### Piezometers

The three piezometers were all constructed of <sup>1</sup>/<sub>2</sub>-inch-diameter Schedule 40 PVC, and were prepacked (sand enclosed around well screen by fine wire mesh). The installed depths of the piezometers were 16 feet and were screened from 6 to 16 feet. Sounded depths (July 2005) ranged from approximately 12 to 13.5 feet (with soft bottoms), indicating that the lower several feet of each piezometer had infilled with sediment.



Ms. Jocelyn Habal March 8, 2006 Page 11 of 16

#### **Additional, Undocumented Observation Wells**

In surveying the wellfield, we identified three wells not documented in the 1953 study, which we have identified as U-1, U-2, and U-3. These wells have similar construction specifications and depths as the observation wells, and we infer that they are of the same type. Based on their locations, we have determined that these wells are not wells 500-South, 10-South, and 100-North (the three documented observation wells that could not be located in our initial survey — see previous section).

#### WELL CLOSURE PERMITTING AND REGULATORY AGENCY LIAISON

On behalf of UCB, SES prepared and submitted to CCCHSD well closure permit applications for all the wells being closed. Copies of the approved permits, and subsequent CCCHSD variance approvals, are included as Attachment A. Notifications of project schedule and activities were made to CCCHSD. California Department of Water Resources (DWR) Well Completion Forms (for well destructions) were completed and submitted to DWR. Copies of the completed forms are included in Attachment A. Ms. Jocelyn Habal of CCCHSD provided onsite inspections of well closure activities.

#### WELL CLOSURE ACTIVITIES

The ultimate objective of proper well destruction is to minimize the potential for crosscontamination between water-bearing zones that might occur due to the former well. The closure methods implemented are in substantive accordance with Chapter 414-4 of the Ordinance Code of Contra Costa County Ordinance, verbal discussions with Mr. Sherman Quinlan of CCCHSD, and the DTSC comments in its letter of September 29, 2005.

Well closures were conducted by Water Development Company (Zamora, California; C-57 license no. 283326), under direct supervision of Stellar Environmental Solutions, Inc.

The following discusses the well closure activities. Attachment B contains photodocumentation of key activities.

#### VIDEO CAMERA SURVEY

Pre-closure well probing indicated an obstruction in "Original Recharge Well" at a depth of 97 feet. At the request of DTSC, a downhole video camera survey was conducted (by Welenco,

under SES supervision) on January 30, 2006. Still photographs at key depths are included in Attachment B. The survey allowed side-scan and downward views. The survey showed the following:

- Full visibility was available from surface to 90 feet bgs, and showed the casing to be intact, but with significant scaling, with no screen or perforations.
- Soft sediment was encountered from 90 feet bgs to 97 feet bgs, with no visibility deeper than 92 feet bgs.
- The camera could not be delivered below 97 feet bgs.

## WELL OBSTRUCTION PROBING

Pre-closure well probing indicated obstructions above the well screen in three wells: 25-West (65 feet bgs) and 50-West (64 feet bgs) and 50-North (70 feet bgs). Prior to well closures, obstruction probing was conducted in an attempt to clear the obstructions (to allow for grouting the screened intervals and perforating from as deep as possible). In each well, a 180 lb. steel hammer was delivered on wireline to the top of the obstruction. The hammer was then raised and allowed to free-fall onto the obstruction. In wells 25-West and 50-West, the obstructions were initially driven down to depths between 80 and 85 feet, however by the next day the obstructions were again encountered at the original depths (approximately 65 feet). In well 50-North, the obstruction was driven down to and stayed at 93 feet bgs.

It is likely that the obstructions are debris that entered the wellhead and/or sediment that entered failed portions of the casing.

#### SURFACE EQUIPMENT REMOVAL

Surface equipment associated with the wellfield was dismantled (by UCB) as construction debris, including: "Final Recharge Well" treatment vessel; aboveground piping; and the small concrete pad on which the treatment vessel was located. We understand that UCB will be disposing of those materials in the near future.

## WELL CLOSURE PROCEDURES COMPLETED

#### Grouting Screened Intervals

The initial step of the well closures was tremie-grouting the base of the wells, to seal off the screened interval (for those wells that tremie-pipe could be delivered to at least the top of the screen). Approximately 18 gallons of grout was emplaced in the 6-inch wells, and

approximately 80 gallons in the 12-inch wells. This corresponds to a grout interval of approximately 12 feet, which was designed to cover the screened intervals plus several feet. This grouting was conducted on January 31 and February 1, 2006. Screened interval grouting was not conducted in wells 25-West or 50-West because the tremie pipe could not be delivered to the screened interval due to obstructions.

Grout was mixed onsite to the specification in CCCHSD's "Annular Seal and Well Destruction Sealing Materials" guidance (94 lbs Portland cement to approximately 5 gallons of water). The original Technical Specifications proposed using potable water for the grout mix. The CCCHSD verbally approved, and we implemented, using water from the wells to mix the grout. This method was advantageous in that supplied water was not needed, and no wastewater management or disposal was needed.

The grouting was conducted by hand-lowering <sup>3</sup>/<sub>4</sub>-inch PVC non-screened pipe (10' long threaded sections) to the base of the well (or top of obstruction), and pumping the grout through the pipe as the tremie-pipe was removed from the well. After the grout had set, we measured the new depth of the well (top of the set grout) in each well. In all wells but one, the top of the grout was above the screened interval following the initial grouting phase. In "Final Recharge Well" the top of the grout was 2 feet below the top of the screened interval (likely due to grout entering the gravel pack around the screened interval).

## Well Perforating

The original Technical Specifications proposed perforating accessible portions of the well casings (with a mills knife), per CCCHSD requirements. On February 3, 2006 the perforating equipment was setup at the first well (50-West). The perforating tool (which by necessity is only slightly narrower diameter than the inner diameter of the casing) would not pass below approximately 6 feet. This was attempted at two additional wells, with the same result. Visual observation of that portion of the well casings indicates that the well casings have corroded, likely due to rusting, allowing long-term entry of water and sediment. The result is that the integrity of the casing has been comprimised such that the casing diameter has been reduced by formation pressure, metal flaking, and/or built-up corrosion. The CCCHSD verbally approved not perforating the wells, and proceeding directly with tremie-grouting to surface.

#### **Final Grouting**

Between February 3 and February 9, 2006 the remaining portions of all the wells were tremiegrouted to surface (per the methods discussed previously). Table 1 summarizes the volume of grout delivered to each well. The emplaced grout volumes were in good agreement with the pregrouting calculated volumes, indicating that the casing interiors were fully grouted to either installed depth or to the depth where obstructions were encountered. Grout was brought to depths between ground surface and approximately 1 foot bgs.

## Well 100-S

This well was initially determined to have dirt and gravel inside the casing from the surface down to at least 2 feet bgs. In accordance with the Technical Specifications, on February 1, 2006 we drilled out the interior of the casing (with 4-inch diameter hollow-stem augers) to a depth of 6 feet. Upon retrieving the augers the upper 5 feet of the well casing was also pulled from the ground. The bottom of this casing was highly corroded. There was no evidence that the well was open beyond the 6' depth. The resultant borehole was grouted.

#### Wellhead Removals

We understand that UCB will in the near future be removing and disposing of the steel wellheads, to allow for mowing and possible site redevelopment. They have indicated that the wellheads will be cut off at a depth of approximately 0.5 to 1 foot bgs, and that the wellheads will be disposed as scrap metal. The CCCHSD verbally approved this method in lieu of the originally-proposed (in the Technical Specifications) internally cutting and removal of the upper 6 feet of the well casings.

## **Piezometers**

In addition to the closure of the former deep research wells described above, UCB applied to have three shallow (depths of 16 feet) piezometers closed using the procedure augering and grouting. On February 9, 2006, the three piezometers were overdrilled with 8-inch-diameter hollow-stem augers to total well depth, and well construction materials (pre-packed PVC casings) were removed. The resultant boreholes were then tremie-grouted to surface. The drill cuttings and well construction waste were containerized in 4 labeled 55-gallon drums and transferred to the paved pad behind Building 102. The soil from those drums will be disposed of at a later date by UCB.

Ms. Jocelyn Habal March 8, 2006 Page 15 of 16

#### SUMMARY

On Behalf of UCB, SES oversaw the decommissioning of 25 wells and three piezometers that were permitted for closure through CCCHSD. This document provides the documentation of the well closures. We trust that this submittal meets your agency's needs. Please contact the undersigned at 510-644-3123 if you have any questions.

Sincerely,

Brune M. Rush/.

Bruce M. Rucker, R.G., R.E.A. Principal Geologist

Makdin

Richard S. Makdisi, R.G., R.E.A. Principal and Project Manager

cc: Mr. Karl Hans - University of California, Berkeley

Attachments

Attachment A: Well Closure Permit Documentation

Attachment B: Well Investigation and Closure Photodocumentation

Ms. Jocelyn Habal March 8, 2006 Page 16 of 16

#### REFERENCES

- California Department of Water Resources, 2005. Letter to UC Berkeley regarding review of SES' July 29, 2005 Technical Specifications for Well Destructions. September 29.
- Stellar Environmental Solutions, Inc., 2005a. Technical Specifications for Well Destructions, University of California – Richmond Field Station, 1301 S. 46th Street, Richmond, California. July 29.
- Stellar Environmental Solutions, Inc., 2005b. Revised Specifications for Well Destructions, University of California – Richmond Field Station, 1301 S. 46th Street, Richmond, California. December 8.

# ATTACHMENT A

# Well Closure Permits and DWR Forms

FROM : CC ENVIRON HLTH	FAX NO. :925646588	3 Jan. 2	5 2006 12:38PM P1
INITIAL APPROVED Address CONDITIONS Address ENVIR 2120 CONTRACOSTA HEALTH SERVERS	BRACE CONTRA COST CONMENTAL HEALT DIAMOND BOULEVARD, CONCORD, CA 9452 (925) 646-5225 www.cocceh.org	SUITE 200	
WELL Type of Work: New Well (69) Soil Boring (01) Repair (69) Abandonment (68) CFT / Inclinomater (01) CHTACH PLOT PLAN - For i PLEASE PRINT CLEARLY. *REQUIRED FIELDS N	instructions see "Th	C Industrial C Monitoring C Other	Sewage Disposal (off-site): Septic System Server System
*Leoal Owner's Neme			
University of Cultioning	- Deikeley		
"Owner Address 317 University Hall	# 1150		
"City State Zip Bickeley CA 94730	о .	Country VSA	Owner Telephone 510/ 643- 9574
*Owner Billing Adoress (ii different from above)		·	
"Site Name (if different from owner address) Kich mond	Field Station	Assessor's Parcel # 560060008	Subdivision/Minor Subdivision #
"Site Address (if different from owner address) /301 5. 44	th st. Richmond CA	94804	Lot/Percel # Aut dpilveble
Contractor's Name WDC Explorition		11conso# 283326	"Site Telephone Not Gry IV. Uc
*Contractor's Mailing Address P.O. Box 141 Z	amora CA 95698		*Contact Person's Telephone 530/66.)
-Consultanumbiling Address Stoller Environmental Solutions 20	173 Sinth St #201 B	criticity CA 94710	*Consultant's Telephone 510/644-31.)3
*Con:	struction/Destruction Sp	eclfications	
Diameter of well casing 12-mth Casing Material	itel Gauge Within	Annular seal deoth (50 feel m	ioimum) APAC
# of Soil Borings Borehole Diameter 12 - 14	h Boring Depth (b.g.s.") 11		an an a sea (1)
Gravel/Sand packed		es 💹 No Depth	Diameter
Type of material for annular seal/destruction (specify mi	x or product): 🖸 Bentonite 🛛 🖬	Concrete 📓 Cement	
Method of drilling/destruction/Other:	t enfice well		
Variance I Yes I No (Required for water well se	als less than 50 feet b.g.s./moni	toring well seals less than 10	) feet b.g.s.)

1

Performance Bond Requirement. (Contra Costa County Ordinance, Title 4 Health and Safety, Article 414-4.10; Section 414-4.1023 (a)) Prior to the issuance of a parmit, the applicant shall post with the health officer a cash deposit or bond guaranteeing compliance with the terms of this chapter and the applicable parmit, such bond to be in an amount deemed necessary by the health officer to remedy improper work but not in excess of five thousand dollars.

I hereby certify that the above information and submitted plans are true and correct and that the proposed work will comply with all permit conditions and applicable laws and regulations. Lagree to obtain all required inspections, maintain a copy of the approved permit and plans at the job site until final approval, and obtain written authorization prior to deviating from the approved permit or plans, or placing the well in service. The issuance of this permit by Contra Costa Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well system.

Man OT. It	•	12-12-2	- 200 2		
Agriature of Contractor (C-57 Licensee)		Date	064-1000		
	FOR OFFICE USE O	NLY			
Facility ID#: 13059 PR#:	P/E#: 43 108	Census Tract: 3800.00	REHS: JH		
Amount Due: \$ 110 _ Amount Paid: \$ 3080	Receipt# XI	2788 Received B	r Q		
Check # 5135 / CASH / Credit Card: D MC D	Date Received	24 2006 Supervisor	SQ		
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CONTRA COSTA HEALTH SERVICES	CONTRA C ENVIRONMENTAL HE 2120 DIAMOND BOULE CONCORD, C (925) 646-5 www.cocce	ALTH DIVISION VARD, SUITE 200 A 94520 5225	I	
	Well Pe WP0005			De censi
PR Numb Date Rec Permit Approved/Issued by: _		PE Number: Permit Number:	4368 06M-1000 Date Issued:	1/20/06
NEW WELL ()	SOIL BORINGS WELL ABAND	MMENT (ORIG RECHAR	REPAIR	

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

			PROJECT SITE	NFORMATION		
	Site Address:	13	01 S 48™ ST, RICHMOND			
	APN:	56	0-060-008	Lot/Parcel #:		
	Subdivision #:			Minor Subdivision	#:	
	<del></del>		DRILLER / CONSULTA	NT INFORMATION	I	
	Driller:	WDC	EXPLORATION	Contact Person:		
	Phone #:	530-668-7540 STELLAR ENVIRONMENTAL		FAX#: Contact Person:	530-662-1592	
	Consultant:				BRUCE RUCKER	
	Phone #:	510-6	644-3123	FAX#:	510-644-3859	
	<u></u>		LEGAL OWNER Ì	NFORMATION		
	Legal Owner Na	ame:	UNIVERSITY OF CALIFORNIA	: BERKELEY		
	Owner Address:		317 UNIVERSITY HALL, #115	D		
	City/State/Zip:		BERKELEY, CA 94720			
	Phone #:	#: 510-643-9574		Alternate Phone #:		
act the Cor	ofra Costa County	Envin	pemental Health Division appo	intment desk and obtain	n a confirmed appointment time and	
to any d <b>r</b> iil	ling construction o	r dest	nuction of a well. Volce mail	messages are not ac	ceptable. The appointment desk s	

Well drillers must posses a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

WELL PERMIT CONDITIONS:

- 1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days of commencing drilling.
- 2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

\_\_\_\_\_\_

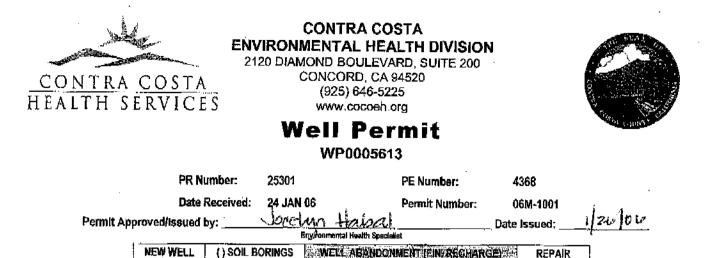
3. Other: \_\_\_\_\_

Final Approval by: \_\_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

FAX NO. :9256465888



The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

			PROJECT SITE I	NFORMATION	
	Site Address:	13	11 S 46TH ST, RICHMOND		
	APN:	56	0-060-008	Lot/Parcel #:	
	Subdivision #:			Minor Subdivision	#:
			DRILLER / CONSULTA	INT INFORMATION	l
	Dríller:	WDC	EXPLORATION	Contact Person:	
	Phone #;	530-8	68-7540	FAX#: Contact Person:	530-662-1592
	Consultant:	STEL	LAR ENVIRONMENTAL		BRUCE RUCKER
	Phone #:	510-6	44-3123	FAX#:	510-644-3859
			LEGAL OWNER 1	NFORMATION	· · · · · · · · · · · · · · · · · · ·
	Legal Owner Name: Owner Address: City/State/Zip:		UNIVERSITY OF CALIFORNIA	A: BERKELEY	
			317 UNIVERSITY HALL, #115	0	
			BERKELEY, CA 94720		
	Phone #:		510-643-9574 Alternate Phone		

Contact the Contra Costa County Environmental Health Division appointment desk and obtain a confirmed appointment time and date prior to any drilling construction or destruction of a well. **Voice mall messages are not acceptable.** The appointment desk sends confirmation via telephone or fax.

Well drillers must posses a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

WELL PERMIT CONDITIONS:

- 1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days of commencing drilling.
- 2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

3. Other: \_\_\_\_

Final Approval by: \_\_\_\_\_

Date: \_\_\_\_\_

FAX NO. :9256465888

Jan. 20 2000

CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION 2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 CONTRA COSTA (925) 646-5225 www.cocoeh.org HEALTH SERVICES Well Permit WP0005614 4368 OE Number: ----

PR Number:	25302		06M-1002	
Date Received:	24 JAN 06	Permit Number.	Date Issued:	100
Permit Approved/Issued by:	- JOCOLON Emprohiment	Het Liet	· · · · · · · · · · · · · · · · · · ·	
NEW WELL (	) SOIL BORINGS		REPAIR	
				-K-ésétettet

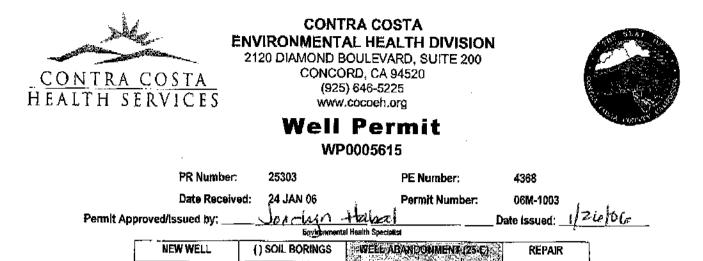
The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing. \_\_\_\_\_

			PROJECT SITE IN	FORMATION	
	Site Address: APN: Subdivision #;	1301 560-1	S 46 <sup>TH</sup> ST, RICHMOND 060-008	Lot/Parcel #: Minor Subdivision #	
			DRILLER / CONSULTA	NT INFORMATION	
	Driller: Phone #: Consultant: Phone #:	530-66 STEL	EXPLORATION 68-7540 LAR ENVIRONMENTAL 44-3123	Contact Person: FAX#: Contact Person: FAX#:	530-662-1592 BRUCE RUCKER 510-644-3859
	Legal Owner Owner Addro City/State/Zi	989: p:	LEGAL OWNER UNIVERSITY OF CALIFORM 317 UNIVERSITY HALL, #11 BERKELEY, CA 94720 510-643-9574	IA: BERKELEY 50 Alternate Phone :	#:
prior to any di confirmation v Well drillers m	ning consuded ia telephone or fa just posses a val	ax. id C-57	license and must have on file	a performance bond of	ain a confirmed appointment time and date acceptable. The appointment desk sends \$5,000.00 with Contra Costa County before ad water analyses completed within 30 days

- 2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
- 3. Other:

Final Approval by:

Date: \_\_\_\_\_



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		PROJECT SITE	E INFORMATION	
5	Site Address:	1301 S 46 <sup>th</sup> ST, RICHMOND		
1	APN:	560-060-008	Lot/Parcel #:	
8	Subdivision #:		Minor Subdivision	#:
······		DRILLER / CONSUL	TANT INFORMATION	· · · · · · · · · · · · · · · · · · ·
ſ	Driller:	WDC EXPLORATION	Contact Person:	
F	Phone #:	530-668-7540	FAX#:	530-662-1592 BRUCE RUCKER
(	Consultant:	STELLAR ENVIRONMENTAL	Contact Person:	
F	Phone #:	510-644-3123	FAX#:	510-644-3859
	P 18 at 18 a	LEGAL OWNER	INFORMATION	1917 <u>-</u>
1	.egal Owner Na	ame: UNIVERSITY OF CALIFOR	UNIVERSITY OF CALIFORNIA: BERKELEY	
(	Owner Address	: 317 UNIVERSITY HALL, #	1150	
(	City/State/Zip:	BERKELEY, CA 94720		
f	hone #:	510-643-9574	Alternate Phone #:	

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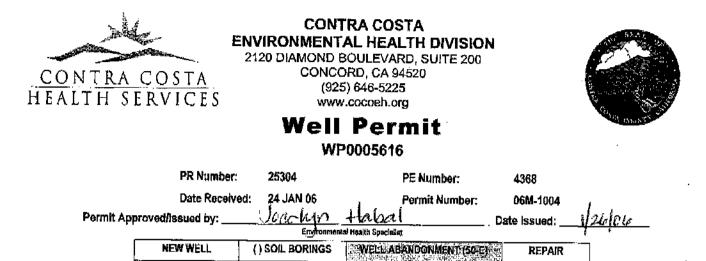
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			PROJECT SITE I	NFORMATION	
	Site Address:	13	01 S 46TH ST, RICHMOND		
	APN:	56	0-060-008	Lot/Parcel #:	
	Subdivision #:			Minor Subdivision	#:
			DRILLER / CONSULTA	NT INFORMATION	· · · · · · · · · · · · · · · · · · ·
	Driller: WDC EXPLORATION		Contact Person:		
	Phone #:	530-6	68-7540	FAX <del>#:</del> Contact Person: FAX#:	530-662-1592
	Consultant:	STEL	LAR ENVIRONMENTAL		BRUCE RUCKER
	Phone #:	510-6	44-3123		510-644-3859
	<b></b>		LEGAL OWNER I	NFORMATION	
	Legal Owner Name: Owner Address: City/State/Zip:		UNIVERSITY OF CALIFORNIA	SERKELEY	
			317 UNIVERSITY HALL, #1156	D .	
			BERKELEY, CA 94720		
	Phone #:		51 <b>0-64</b> 3-9574	Alternate Phone #:	
	<b>•</b> • • •			- L	a confirmed appointment time and

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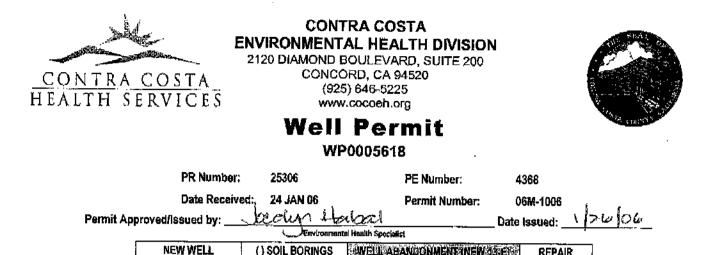
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Final Approval by: \_\_\_\_\_

Date: \_\_\_\_\_\_

REPAIR



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WELL ABANDONMENT IN EVIDE

() SOIL BORINGS

	PROJECT SITE I	NFORMATION	
Site Address:	1301 S 46TH ST, RICHMOND		
APN:	560-060-008	Lot/Parcel #:	
Subdivision #:		Minor Subdivision	#:
 	DRILLER / CONSULTA	NT INFORMATION	
Driller:	WDC EXPLORATION	Contact Person:	
Phone #:	530-668-7540	FAX#:	530-662-1592
Consultant:	STELLAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
Phone #:	510-644-3123	FAX#:	510-644-3859
··	LEGAL OWNER I	NFORMATION	
Legal Owner Na	ame: UNIVERSITY OF CALIFORNIA	ERKELEY	
Owner Address	: 317 UNIVERSITY HALL, #115	0 .	
City/State/Zip:	BERKELEY, CA 94720		
Phone #:	510-643-9574	Alternate Phone #:	

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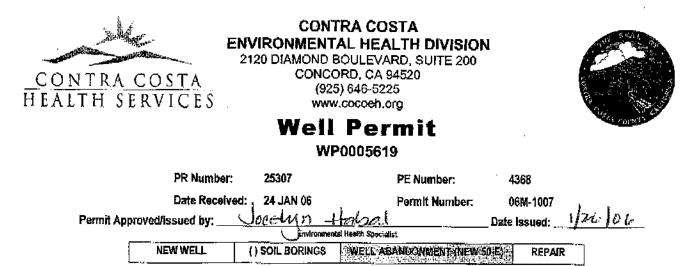
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Final Approval by: \_\_\_\_\_

Date: \_\_\_\_



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Site Address:	130	1 S 46TH ST, RICHMOND		
APN:	560	-060-008	Lot/Parcel #:	
Subdivision #:			Minor Subdivision	#:
	-	DRILLER / CONSULTA	INT INFORMATION	
Driller:	WDC	EXPLORATION	Contact Person:	
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Phone #:	510-6-	44-3123	FAX#:	510-644-3859
 	•••••••••••••••	LEGAL OWNER	NFORMATION	
Legal Owner Name:		UNIVERSITY OF CALIFORNIA: BERKELEY		
Owner Address:		317 UNIVERSITY HALL, #115	i0	
City/State/Zip:		BERKELEY, CA 94720		
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Final Approval by: \_\_\_\_\_

FROM	:00	ENŲ	HEALTH
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FAX NO. :925 6465168

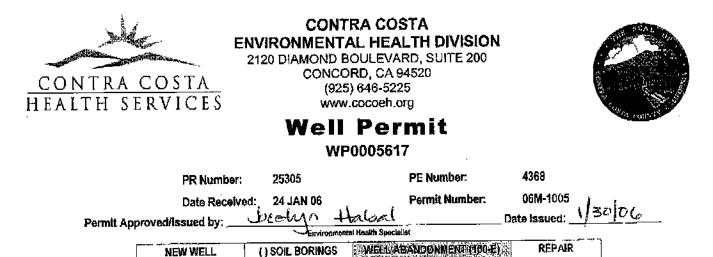
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WILLIAM B. WALKER, M.D. H <u>ealth Services Director</u> Kenneth C. Stuaki,			Contra Costa Environmental
MSEH.REHS		CCEH	HEADTH
ENVIRONMENTAL HEALTH DIRECTOR	CONTRACOS	T A IAN 9 & 2006212	- ma
•			concoro, camorina
	HEALTH SERV REQUEST FOR VARIA		94520 Ph (925) 648-5225 Fax (925) 646-5168
			www.cocoeh.org
Please print or type		560060008	
Form must be filled out complete SITE LOCATION	······································		
University of Coliffinnia - Berkele		1301 S. 46th St. Richmo	nd, CA
Stellar Environ movial Solution	DAYTIME PHO	NE	
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2198 Sixm St. #201			
University of Calibonia- Be	steley .50.643-		110
MAILING ADDRESS			
317 University Hell # 1150	Berkeley CA 94720		
VARIANCE REQUEST			
<u>Close a well by gravity</u>	ng, with no perforating, 6 row	t will be delivery (w	ith a hose)
	ward. (Well 100-East).		
INNER WER PORTIN VI	WATER TO THE TOTAL		
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REASON FOR REQUEST Overhow electrical line Asc perfocating. SUPPORTING DOCUMENTATION figure shawing well check oor \$158 (vari	<u>ON</u> (Attach additional sheet if new <u>100- East.</u> wance Fec)	ssary)	ravird
REASON FOR REQUEST Overhad electrical line BC pertocaling SUPPORTING DOCUMENTATION fique shawing well check of \$158 (variants) Submitted by: <u>Bivee Rucker</u>	<u>ON</u> (Attach additional sheet if new <u>100-East.</u> ware fee) Bure M. Ruly (A. R.6. # 68 <sup>14</sup> )	nte: 1/25/06	
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REASON FOR REQUEST Overhad electrical line BC pertocaling SUPPORTING DOCUMENTATION Figure Shawing well check of \$158 (vari- Submitted by: <u>Bivee Rucker</u> DO NOT W Reviewed by: <u>becomy</u> Registered Perto Recommendations: <u>approve</u> <u>electr</u> APPROVED DENIED By: Contro Costa Community Substance A	ON (Attach additional sheet if new 100-East. wance fee) Buse M. Ruly (A. R.6. # 68 <sup>1</sup> H RITE BRELOW THES LINE - FRS 1 Habal ironmental Health Specialist e variance due to ical une. Nupervising Environmental Mealth wase Services + Contra Costa Emergency Modical Survey	$atc: 1/35/06$ $R OFFICE USE ONLY$ Datc: 01/30/06 $Safety bazand$ Date: _//	from 130/06 ntro Costa Heekin Plan •
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FAX NO. :925 6465168



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	Site Address: APN: Subdivision #:	PROJECT SITE I 1301 S 46 <sup>™</sup> ST, RICHMOND 560-060-008	N F O R M A T I O N Lot/Parcel #: Minor Subdivision ;	#:
<u>.</u> .		DRILLER / CONSULTA	NT INFORMATION	
	Phone #: Consultant:	WDC EXPLORATION 530-668-7540 STELLAR ENVIRONMENTAL 510-644-3123	Contact Person: FAX#: Contact Person: FAX#:	530-662-1592 BRUCE RUCKER 510-644-3859
	Legal Owner Nat Owner Address: City/State/Zip: Phone #:		A: BERKELEY	

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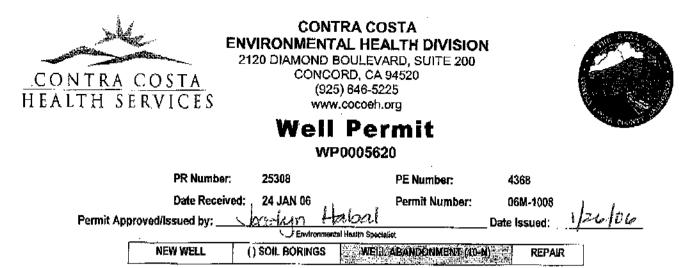
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Final Approval by: \_\_\_\_\_\_

Date: \_\_\_\_

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APN:	56	0-060-008	Lot/Parcel #:	
Subdivision	#:		Minor Subdivision	#:
		DRILLER / CONSULT	ANT INFORMATION	4
Dritter.	WDO	EXPLORATION	Contact Person:	
Phone #:	530-0	368~7540	FAX#: Contact Person:	530-662-1592 BRUCE RUCKER
Consultant:	STE	LAR ENVIRONMENTAL		
Phone #:	510-0	544-3123	FAX#:	510-644-3859
		LEGAL OWNER	NFORMATION	
Legal Owner	Name:	UNIVERSITY OF CALIFORNIA: BERKELEY		
Owner Addre	888:	317 UNIVERSITY HALL, #11	50	
City/State/Zi	p:	BERKELEY, CA 94720		
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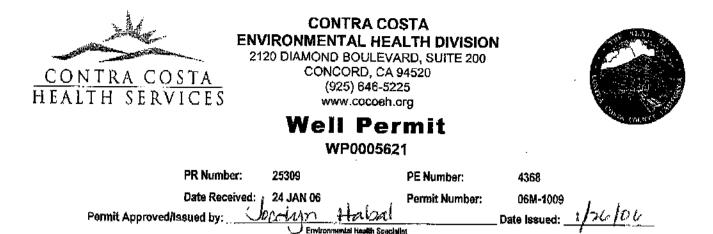
3. Other: \_

Final Approval by:

Date; \_\_\_\_

**NEW WELL** 

REPAIR



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WEELABANDONMENT OSINE

() SOIL BORINGS

<b>0</b> %	4884	PROJECT SITE I		
Site Address:		S 46TH ST, RICHMOND		
APN:	560-0	060-008	Lot/Parcel #:	
Subdivision #:			Minor Subdivision	<b>#:</b>
 	ľ	DRILLER / CONSULTA	ANT INFORMATION	
Driller:	WDC EXPLORATION 530-668-7540		Contact Person:	
Phone #:			FAX#:	530-662-1592
Consultant:	STELL/	AR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
Phone #:	510-644	-3123	FAX#:	510-644-3859
 	··· ···	LEGAL OWNER	NFORMATION	<u></u>
Legal Owner Name:		UNIVERSITY OF CALIFORNI	A: BERKELEY	
Owner Address	s: :	317 UNIVERSITY HALL, #115	50	
City/State/Zip:	i	BERKELEY, CA 94720		
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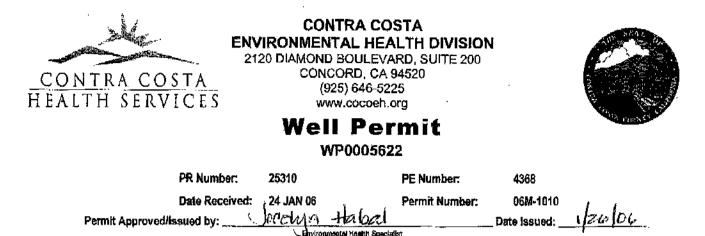
3. Other:

Final Approval by: \_\_\_\_\_

NEW WELL

FAX NO. :9256465888

REPAIR



The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

WELL ABANDONMENT ISLN

() SOIL BORINGS

Site Address:	130	1 S 46TH ST, RICHMOND		
APN:		-060-008	Lot/Parcel #:	
Subdivision #:			Minor Subdivision	#:
 ·		DRILLER / CONSULT	ANT INFORMATION	l
Driffer:	WDC	EXPLORATION	Contact Person:	
Phone #:	530-6	68-7540	FAX#:	530-662-1592 BRUCE RUCKER
Consultant:	STEL	LAR ENVIRONMENTAL	Contact Person:	
Phone #:	510-6	44-3123	FAX#:	510-644-3859
		LEGAL OWNER	INFORMATION	
Legal Owner Na	ime:	UNIVERSITY OF CALIFORN	IA: BERKELEY	
Owner Address	:	317 UNIVERSITY HALL, #11	50	
City/State/Zip:		BERKELEY, CA 94720		
Phone #:		510-643-9574	Alternate Phone #:	1

Contact the Contra Costa County Environmental Health Division appointment desk and obtain a contirmed appointment time and date prior to any drilling construction or destruction of a well. Voice mail messages are not acceptable. The appointment desk sends confirmation via telephone or fax.

Weil drillers must posses a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

WELL PERMIT CONDITIONS:

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2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

3. Other: \_

Final Approval by:

FAX NO. :9256465888

CONTRA COSTA HEALTH SERVICE	CONTRA ENVIRONMENTAL H 2120 DIAMOND BOUL CONCORD, (925) 640 WWW.coor	HEALTH DIVISION EVARD, SUITE 200 CA 94520 5-5225	N .	
	Well P WP000	—		A CANON PA
PR Nur Date R Permit Approved/Issued by	eceived: 24 JAN 06	PE Number, Permit Number: //[ Specialist	4368 06M-1011 _ Date Issued:	1/20/06
NEW WELL	() SOIL BORINGS	VELL ABANDONMENT (10-	REPAI	R

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	PROJECT SITE	INFORMATION		
Site Address:	1301 S 46TH ST, RICHMOND			
APN:	560-060-008	Lot/Parcel #:		
Subdivision #:		Minor Subdivision	#:	
 · · · · · · · · · · · · · · · ·	DRILLER / CONSULT	TANT INFORMATION		
Driller:	WDC EXPLORATION	Contact Person:		
Phone #:	530-668-7540	FAX#:	530-662-1592 BRUCE RUCKER	
Consultant:	STELLAR ENVIRONMENTAL	Contact Person:		
Phone #:	510-644-3123	FAX#:	510-644-3859	
	LEGAL OWNER	INFORMATION		
Legal Owner N	ame: UNIVERSITY OF CALIFORI	UNIVERSITY OF CALIFORNIA: BERKELEY		
Owner Addres:	317 UNIVERSITY HALL, #1	317 UNIVERSITY HALL, #1150		
City/State/Zip;	BERKELEY, CA 94720			
Phone #:	510-643-9574	Alternate Phone #:		

confirmation via telephone or fax.

Well drillers must posses a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

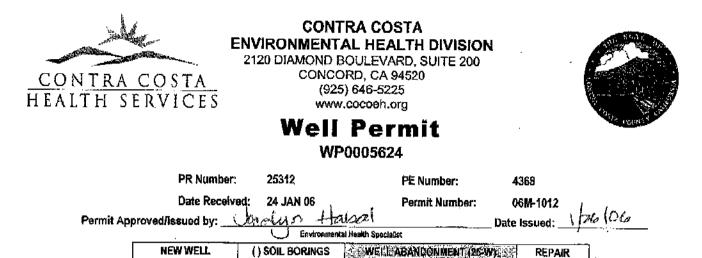
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3. Other: \_\_\_\_

Final Approval by:

Date: \_\_\_\_\_



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S	ite Address:	130	1 S 46 <sup>TH</sup> ST, RICHMOND		
-	PN:		-060-008	Lot/Parcel #:	
s	ubdivision #:			Minor Subdivision	#:
			DRILLER / CONSULT	ANT INFORMATION	. <u></u>
D	riller:	WDC.	EXPLORATION	Contact Person:	
P	hone#:	530-6	38-7540	FAX#:	530-662-1592 BRUCE RUCKER
с	onsultant:	STEL	AR ENVIRONMENTAL	Contact Person:	
P	hone #:	510-64	14-3123	FAX#:	510-644-3859
			LEGAL OWNER	INFORMATION	
L	Legal Owner Name:		UNIVERSITY OF CALIFORNIA: BERKELEY		
0	wner Address		317 UNIVERSITY HALL, #11	317 UNIVERSITY HALL, #1150	
C	ity/State/Zlp:		BERKELEY, CA 94720 510-643-9574 Alternate Phone #:		
P	hone #:				

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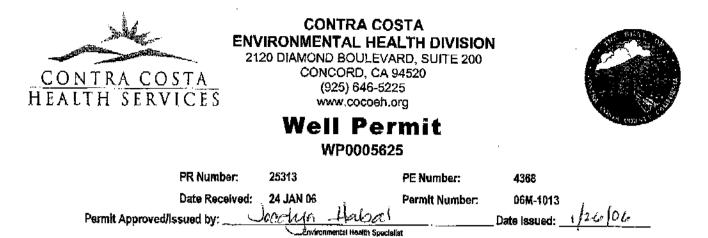
\_\_\_\_\_

3. Other.

Final Approval by:

NEW WELL

REPAIR



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WELLABANDONMENTISUW

() SOIL BORINGS

			PROJECT SITE	INFORMATION		
	Site Address:	1301	S 46TH ST, RICHMOND			
	APN:	560-0	)60-008	Lot/Parcel #:		
	Subdivision #:			Minor Subdivision	<del>*</del> :	
·	<b></b>	۵	DRILLER / CONSULT	ANT INFORMATION		
	Driller:	WDC EX	XPLORATION	Contact Person:		
	Phone #:	530-668	3-7540	FAX#:	530-662-1592	
	Consultant:	STELL	AR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER	
	Phone #:	510-644	1-3123	FAX#:	510-644-3859	
	·····		LEGAL OWNER	INFORMATION		
	Legal Owner Na	iame: I	UNIVERSITY OF CALIFORN	NIA: BERKELEY		
	Owner Address	<b>6</b> : 3	317 UNIVERSITY HALL, #1	150		
	City/State/Zip:	1	BERKELEY, CA 94720			
	Phone #:	:	510-643-9574	Alternate Phone #:		

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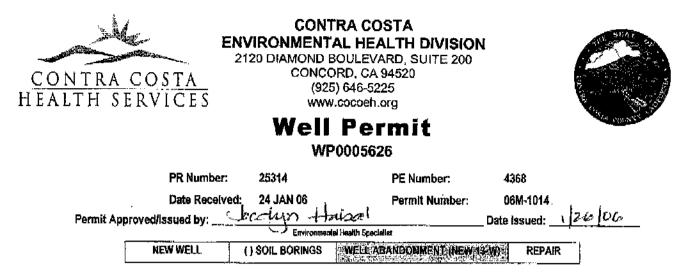
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Final Approval by: \_\_\_\_\_



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		PROJECT SITE	INFORMATION	
Site Address:	130	IS 46TH ST, RICHMOND		
APN:	560-	800-008	Lot/Parcel #:	
Subdivision #:			Minor Subdivision	#:
		DRILLER / CONSULT	ANT INFORMATION	
Driller:	WDC E	EXPLORATION	Contact Person:	
Phone #:	530-66	8-7540	FAX#:	530-662-1592
Consultant:	STELL	AR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
Phone #:	510-64	4-3123	FAX#:	510-644-3859
 		LEGAL OWNER	INFORMATION	······································
Legal Owner Name:		UNIVERSITY OF CALIFORN	IA: BERKELEY	
Owner Addres	<b>S</b> :	317 UNIVERSITY HALL, #11	50	
City/State/Zip:		BERKELEY, CA 94720		
Phone #:		510-643-9574	<ul> <li>Alternate Phone #:</li> </ul>	

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- 3. Other:

Final Approval by: \_\_\_\_\_

Date: \_\_\_\_

CONTRA COSTA HEALTH SERVICES	CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION 2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeit.org		<b>J</b>	
	Well F WP00	- ··· ,		St. Oblight
PR Numb	ver: 25315	PE Number:	4368	
Date Rec Permit Approved/issued by:	eived: 24 JAN 06 Joc - Win - Haa	Permit Number:	06M-1015 _ Date Issued:	120/00
NEW WELL	() SOIL BORINGS	ELLABANCONMENT (NEW S	CAN) REPAIR	

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<u>.</u>				
		01 S 46 <sup>TH</sup> ST, RICHMOND		
APN:	56	0-060-008	Lot/Parcel #:	
Subdivision #:		Minor Subdivision #:		
,		DRILLER / CONSULT	TANT INFORMATION	
Driller	- WDC	EXPLORATION	Contact Person:	
Phone	a#: 530-0	68-7540	FAX#:	530-662-1592
Consi	ultant: STEL	LAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
Phone	e#: 510-l	644-3123	FAX#:	510-644-3859
		LEGAL OWNER	INFORMATION	· · · · · · · · · · · · · · · · · · ·
Legai	Owner Name:	UNIVERSITY OF CALIFOR	NIA: BERKELEY	
Owne	r Address:	317 UNIVERSITY HALL, #1	150	
City/S	tate/Zip:	BERKELEY, CA 94720		
Phone	e#:	510-643-9574	Alternate Phone #:	

confirmation via telephone or fax.

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Final Approval by: \_\_\_\_\_ Date: \_\_\_\_\_

CONTRA COSTA HEALTH SERVICES	CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION 2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org		J	
		<b>Permit</b>		C C C C C C C C C C C C C C C C C C C
PR Numb Date Rece Permit Approved/Issued by: _	bived: 24 JAN 08	PE Number: Permit Number: 2()//	4368 06M-1016 _ Date Issued: _ <u>i</u>	20/04
NEW WELL	() SOIL BORINGS	WELLABANDONMENT (28	S) REPAIR	

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			PROJECT SITE I	NFORMATION	
	Site Address:	1301	1 S 46 <sup>th</sup> ST, RICHMOND		
	APN:	560	-060-008	Lot/Parcel #:	
	Subdivision #:		Minor Subdivision #:		
			DRILLER / CONSULTA	NT INFORMATION	
·	Driller:	WDC I	EXPLORATION	Contact Person:	
	Phone #:	530- <b>6</b> 6	38-7540	FAX#:	530-662-1592
	Consultant:	STELI	AR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-64	14-3123	FAX#:	510-644-3859
			LEGAL OWNER I	NFORMATION	·····
	Legal Owner N	lame:	UNIVERSITY OF CALIFORNIA	A: BERKELEY	
	Owner Addres	s:	317 UNIVERSITY HALL, #115	0	
	City/State/Zlp:		BERKELEY, CA 94720		
	Phone #;		510-643-9574	Alternate Phone #:	:

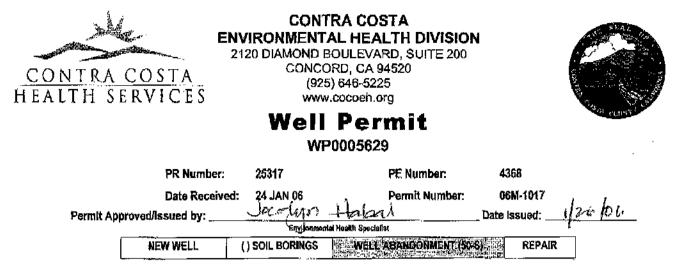
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Final Approval by: \_\_\_\_\_



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Site Address:	1301	PROJECT SITE I S 46 <sup>t</sup> * ST, RICHMOND		
APN:		060-008	Lot/Parcel #:	
Subdivision #	:		Minor Subdivision	#:
 	i	DRILLER / CONSULTA	NT INFORMATION	······································
Driller;	WDC E	XPLORATION	Contact Person:	
Phone #:	530-668-7540		FAX#:	530-662-1592
Consultant:	STELL	AR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
Phone #:	510-64	4-3123	FAX#:	510-644-3859
 		LEGAL OWNER	NFORMATION	
Legal Owner M	Name:	UNIVERSITY OF CALIFORNIA	A: BERKELEY	
Owner Addres	35:	317 UNIVERSITY HALL, #115	0	
City/State/Zip:		BERKELEY, CA 94720		
Phone #:		510-643-9574	Alternate Phone #	:

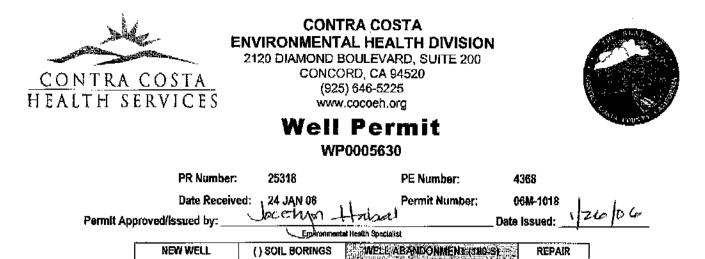
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- 3. Other: \_\_\_\_\_

Final Approval by: \_\_\_\_\_

Date: \_\_\_\_



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	PROJECT SITE 1	NFORMATION		
Site Address:	1301 S 46TH ST, RICHMOND			
APN:	560-060-008	Lot/Parcel #:		
Subdivision #:		Minor Subdivision	#:	
 	DRILLER / CONSULTA	NT INFORMATION		
Driller:	VDC EXPLORATION	Contact Person:		
Phone #:	30-868-7540	FAX#:	530-662-1592	
Consultant: S	STELLAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER	
Phone#:	i10-644-3123	FAX#:	510-644-3859	
 	LEGAL OWNER I	NFORMATION	2000 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 -	
Legal Owner Nar	ne: UNIVERSITY OF CALIFORNIA	A: BERKELEY		
Owner Address:	317 UNIVERSITY HALL, #115	0		
City/State/Zip:	BERKELEY, ÇA 94720			
Phone #:	510-643-9574	Alternate Phone #:		

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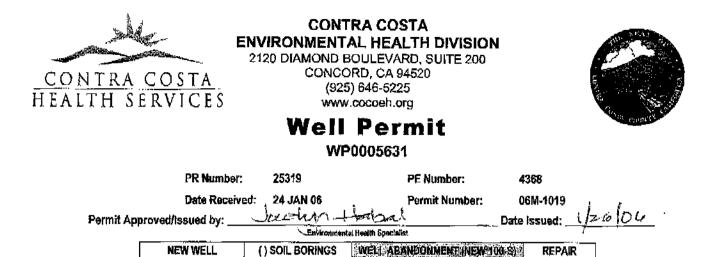
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Final Approval by: \_\_\_\_\_

Date:\_\_\_\_\_

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560 sion #:	1 S 46TH ST, RICHMOND -060-008 DRILLER / CONSULT/	Lot/Parcel #: Minor Subdivision	#:
sion #:		Minor Subdivision	#:
	DRILLER / CONSULT		#:
	DRILLER / CONSULT		
•		ANT INFORMATION	
WDC I	EXPLORATION	Contact Person:	
1: 530-66	8-7540	FAX#: Contact Person:	530-662-1592 BRUCE RUCKER
ant: STEL!	AR ENVIRONMENTAL		
t: 51 <b>0-6</b> 4	14-3123	FAX#:	510-644-3859
	LEGAL OWNER	INFORMATION	
wnər Name:	UNIVERSITY OF CALIFORNI	IA: BERKELEY	
Address:	317 UNIVERSITY HALL, #115	50	
te/Zlp:	BERKELEY, CA 94720		
ŧ:	510-643-9574	Alternate Phone #:	
		E GAL OWNER UNIVERSITY OF CALIFORN Address: 317 UNIVERSITY HALL, #11 te/Zip: BERKELEY, CA 94720	510-644-3123     FAX#:       LEGAL OWNER INFORMATION       wner Name:     UNIVERSITY OF CALIFORNIA: BERKELEY       Address:     317 UNIVERSITY HALL, #1150       te/Zip:     BERKELEY, CA 94720

confirmation via telephone or fax.

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WELL PERMIT CONDITIONS:

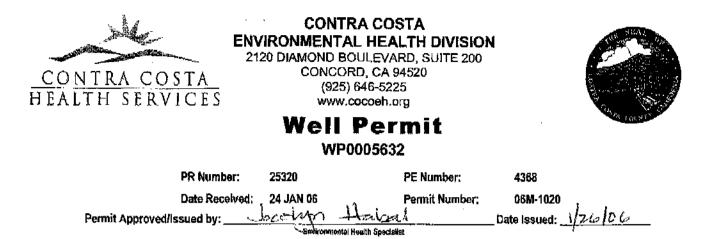
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- 3. Other:

Final Approval by: \_\_\_\_\_

Date: \_\_\_\_

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REPAIR



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WELL ABANDONMENT (225 S)

() SOIL BORINGS

NEW WELL

			PROJECT SITE I	NFORMATION	
	Site Address;	1301	t S 46 <sup>™</sup> ST, RICHMOND		
	APN:	560-	060-008	Lot/Parcei #:	
	Subdivision #:			Minor Subdivision :	#:
• <b>u•</b> •			DRILLER / CONSULTA	NT INFORMATION	
	Driller:	WDC E	EXPLORATION	Contact Person:	
	Phone #:	530-66	8-7540	FAX#:	530-662-1592
	Consultant:	STELL	AR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-64	4-3123	FAX#:	510-644-3859
			LEGAL OWNER	NFORMATION	·
	Legal Owner Name:		UNIVERSITY OF CALIFORNIA	A: BERKELEY	
	Owner Address	в:	317 UNIVERSITY HALL, #115	0	
	City/State/Zip:		BERKELEY, CA 94720		
	Phone #:		510-643-9574	Alternate Phone #;	

confirmation via telephone or fax.

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WELL PERMIT CONDITIONS:

\_\_\_\_\_

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- Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities. 2.

З. Other:

Final Approval by:

Date: \_\_\_\_\_

.

FAX NO. :9256465888

CONTRA COSTA HEALTH SERVICES	ENVIRONMENT 2120 DIAMOND CONCO (92	TRA COSTA AL HEALTH DIVISION BOULEVARD, SUITE 200 ORD, CA 94520 5) 646-5225 v.cocoeh.org	<b>N</b>	
		Permit 20005633		Sectors 1
PR Numb	er: 25321	PE Number:	4368	
Date Rece Permit Approved/Issued by: _	Jocolyn	Permit Number: 14 Hauth Specialist	06M-1021 _ Date Issued;	1/2-4/06
NEW WELL	() SOIL BORINGS	WELLABANDONMENT 224	SEL REPAIR	

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Site Address;	1301 S 48 <sup>TH</sup> ST, RICHMOND		
APN;	560-060-008	Lot/Parcel #:	
Subdivision #:		Minor Subdivision	#:
	DRILLER / CONSULT	NT INFORMATION	l
Driller:	WDC EXPLORATION	Contact Person:	
Phone #:	530-668-7540	FAX#: Contact Person:	530-662-1592 BRUCE RUCKER
Consultant:	STELLAR ENVIRONMENTAL		
Phone #:	510-644-3123	FAX#:	510-644-3859
	LEGAL OWNER	NFORMATION	
Legal Owner Na	ame: UNIVERSITY OF CALIFORNI	A: BERKELEY	
Owner Address	: 317 UNIVERSITY HALL, #115	i0	
City/State/Zip:	BERKELEY, CA 94720		
Phone #:	510-643-9574	Alternate Phone #	

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t

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3. Other: ....

Final Approval by: \_\_\_\_\_ Date: \_\_\_\_\_

·····

ROM : CC ENVIRON HLTH

FAX	NO.	:9256465888
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CONTRA COSTA HEALTH SERVICES	ENVIRONMENTAL 2120 DIAMOND BC CONCOR (925) www.c Well	A COSTA L HEALTH DIVISION HULEVARD, SUITE 200 BD, CA 94520 646-5225 coccehorg Permit		
PR Num Date Re Permit Approvedilssued by	ber: 25322 ceived: 24 JAN 06	PE Number: Permit Number: Hadad al Haakh Specialist	4368 OGM-1022 _ Date issued: REPAI	1/20/06

() SOIL BORINGS NEW WELL The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an Indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it

in writing.

## PROJECT SITE INFORMATION

			PROJECT		
	Site Address: APN: Subdivision #:	560-0	5 48 <sup>th</sup> ST, RICHMOND <del>80</del> -008	Lot/Parcel #: Minor Subdivision #	
	·	 1	DRILLER / CONSULT	ANT INFORMATION	
	Driller: Phone #: Consultant: Phone #:	530-66 STELL	XPLORATION 18-7540 LAR ENVIRONMENTAL 44-3123	Contact Person: FAX#: Contact Person: FAX#:	530-662-1592 BRUCE RUCKER 510-644-3859
			LEGAL OWNER	INFORMATION	
	Legal Owner Owner Addre	55:	UNIVERSITY OF CALIFOR 317 UNIVERSITY HALL, #1 BERKELEY, CA 94720	150	
	City/State/Zip Phone #:		510-643-9574	Alternate Phone	time and date
prior to any confirmation	via telephone or fa	ЭХ. ЫС-57	ronmental Health Division a struction of a well. Voice i license and must have on fi n, destruction or repairs.	le a performance bond of	tain a confirmed appointment time and date acceptable. The appointment desk sends \$5,000.00 with Contra Costa County before ad water analyses completed within 30 day

## WELL PERMIT CONDITIONS:

1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days ulations within 30 days of completing monitoring activities.

	of commencing animy.	MOUS WIMMING OCCUPYED TO THE
2.	of commencing animy. Monitoring well/soil boring shall be destroyed pursuant to County regula	

- 2.
- 3. Other: \_



Permit Approved/Issued by:	Juchun	Habal	Date Issued: 1/26/06
	<b>โลง</b> (100nmar	ital Hoalth Specialist	
NEW WELL	() SOIL BORINGS	WELLABANDONMENTIU	2) REPAIR

The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

		PROJECT SITE I	NFORMATION	
Site Address:	1301	S 46TH ST, RICHMOND		
APN:	560-	060-008	Lot/Parcel #:	
Subdivision #:			Minor Subdivision	#:
 		DRILLER / CONSULTA	NT INFORMATION	
Driller;	WDC 8	EXPLORATION	Contact Person:	
Phone #:	530-66	8-7540	FAX#:	530-662-1592
Consultant:	STELLAR ENVIRONMENTAL		Contact Person:	BRUCE RUCKER
Phone #:	510-64	14-3123	FAX#:	510-644-3859
 		LEGAL OWNER I	NFORMATION	
Legal Owner N	ame:	UNIVERSITY OF CALIFORNIA	A: BERKELEY	
Owner Address:		317 UNIVERSITY HALL, #115	0	
City/State/Zip:		BERKELEY, CA 94720		
Phone #:		510-643-9574	Alternate Phone #:	:

Well drillers must posses a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

WELL PERMIT CONDITIONS:

- 1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days of commencing drilling.
- 2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.

3. Other: \_

Final Approval by: \_\_\_\_\_





	PR Number:	25324	PE Number:	4368
	Date Received:	24 JAN 05	Permit Number:	06M-1024
Permit Approved/Is	sued by:	Jourlyn		_ Date issued:
		Environment	al Health Specialist	•
NE	WWELL (	) SOIL BORINGS	S WELLABANDONMENT (U.	REPAIR

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		PROJECT SITE I	NFORMATION		
Site Address:	130	D1 S 46TH ST, RICHMOND			
APN:	56	0-060-008	Lot/Parcel #:		
Subdivision #	:		Minor Subdivision	#:	
 		DRILLER / CONSULTA	NT INFORMATION		
Driller:	WDC	EXPLORATION	Contact Person:		
Phone #:	530-6	68-7540	FAX#:	530-662-1592	
Consultant:	STEL	LAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER	
Phone #:	510-6	44-3123	FAX#:	510-644-3859	
 14		LEGAL OWNER	NFORMATION		
Legal Owner M	lame:	UNIVERSITY OF CALIFORNIA	A: BERKELEY		
Owner Addres	6:	317 UNIVERSITY HALL, #115	0		
City/State/Zip:		BERKELEY, CA 94720			
Phone #:		510-643-9574	Alternate Phone #:		

contact the Contra Costa County Environmental Health Division appointment desk and obtain a continued appointment time and data prior to any drilling construction or destruction of a well. Voice mail messages are not acceptable. The appointment desk sends confirmation via telephone or fax.

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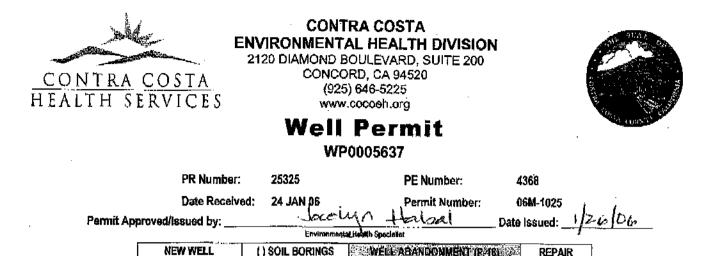
.

- 2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
- 3. Other: \_

Final Approval by:

Date:

\_\_\_\_\_



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	APN:	560	-060-008	Lot/Parcel #:	
	Subdivision #:			Minor Subdivision	#
· · ·			DRILLER / CONSULTA	NT INFORMATION	
	Driller:	WDC	EXPLORATION	Contact Person:	
	Phone #:	530-6	68-7540	FAX#:	530-662-1592
	Consultant:	STEL	LAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-6	44-3123	FAX#:	510-644-3859
	-n		LEGAL OWNER I	NFORMATION	
	Legal Owner N	ame:	UNIVERSITY OF CALIFORNIA	A: BERKELEY	
	Owner Address	B:	317 UNIVERSITY HALL, #115	0	
	Clty/State/Zip:		BERKELEY, CA 94720		
	Phone #:		510-643-9574	Alternate Phone #:	

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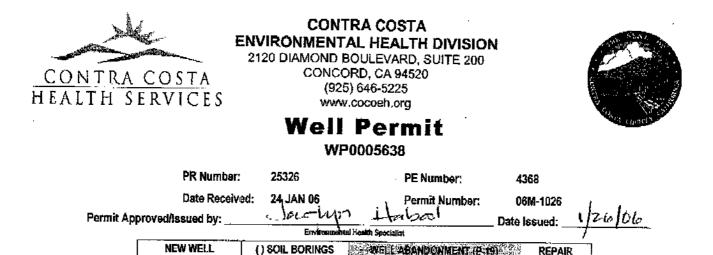
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Final Approval by:

FAX NO. :9256465888



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			01 S 46TH ST, RICHMOND		
	APN:		0-060-008	Lot/Parcel #:	
	Subdivision #:			Minor Subdivision	#:
			DRILLER / CONSULTA	NT INFORMATION	
	Driller:	WDC	EXPLORATION	Contact Person:	
	Phone #:	530-6	68-7540	FAX#:	530-662-1592
	Consultant:	STEL	LAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-6	44-3123	FAX#:	510-644-3859
-			LEGAL OWNER I	NFORMATION	
	Legal Owner N	ame:	UNIVERSITY OF CALIFORNIA	: BERKELEY	-
	Owner Address	3:	317 UNIVERSITY HALL, #115	0	
	City/State/Zip:		BERKELEY, CA 94720		
	Phone #:		510-643-9574	Alternate Phone #:	

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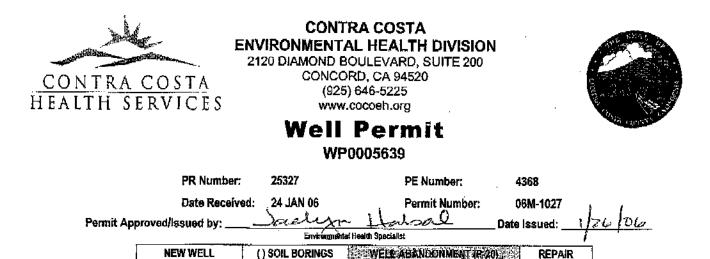
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I

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Final Approval by:

REPAIR



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	Site Address:	13	D1 S 46TH ST, RICHMOND			
	APN:	56	0-060-008	Lot/Parcel #:		
	Subdivision #:			Minor Subdivision	#:	
-			DRILLER / CONSULTA	NT INFORMATION		
	Driller:	WDC	EXPLORATION	Contact Person:		
	Phone #:	530-6	68-7540	FAX#:	530-662-1592	
	Consultant:	STEL	LAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER	
	Phone #:	. 510-6	44-3123	FAX#:	510-644-3859	
			LEGAL OWNER	NFORMATION	· · · · · · · · · · · · · · · · · · ·	
	Legal Owner N	ame:	UNIVERSITY OF CALIFORNIA	A: BERKELEY		
	Owner Addres	s;	317 UNIVERSITY HALL, #115	0		
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Final Approval by: \_\_\_\_

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Attach ad	Iditional infor	mation, if	it exists.			J-J/ LIC	chocu water			Land and the second	Jale SIG	neu (		

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			Geolo	gic Log						1	Nell O	wner			
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Drilling					Drilling Fluid			Mailing A	ddress 31	7 University					
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	900							Address	1301 Sou	th 46th Stre	et	Thinks.			
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Attach ad	ditional infor	mation, if it	exists.			C-57 Lice		Well Contractor	NOFOLIZINE		ate Sigr	ned C	-57 LIC	ense Number	

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IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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## ATTACHMENT B

Well Investigation and Closure Photodocumentation

Subject: Removing submersible pump and pipe riser piping	
Site: UC Berkeley – Richmond Field Station, Richmond, Cal	
Date Taken: May 27, 2005 Photographer: Bruce Rucker	Project No.: SES2005-21 Photo No.: 01
Subject: Downhole video camera survey at "Original Rechar	rge Well" – side view at 4' depth showing well casing/water interface.
Subject:       Downhole video camera survey at "Original Rechar         Site:       UC Berkeley – Richmond Field Station, Richmond, Cal	

Subject: Downhole video camera survey at "Original Recharge	Well" – side view at 39' depth. showing scale on casing wall.
Site: UC Berkeley – Richmond Field Station, Richmond, Califo	
Date Taken: January 30, 2006	Project No.: SES2005-21
Photographer: Welenco (Bakersfield, California)	Photo No.: 03
Subject: Downhole video camera survey at "Original Recharge	e Well" – downward view at 80' depth, showing casing walls.
Site: UC Berkeley – Richmond Field Station, Richmond, Califo	rnia
Date Taken: January 30, 2006	Project No.: SES2005-21
Photographer: Welenco (Bakersfield, California)	Photo No.: 04

	0089
Subject: Downhole video camera survey at "Original Rech	arge Well" – downward view at 89' depth, showing sediment beginning.
Site: UC Berkeley – Richmond Field Station, Richmond, C	California
Date Taken: January 30, 2006	Project No.: SES2005-21
Photographer: Welenco (Bakersfield, California)	Photo No.: 05
	8698
Subject: Downhole video survey at "Original Recharge W	Yell" – side view at 90' depth, showing top of settled sediment column.
Subject: Downhole video survey at "Original Recharge W Site: UC Berkeley – Richmond Field Station, Richmond, C	Vell" – side view at 90' depth, showing top of settled sediment column.

Subject: Well-related surface equipment at Final Recharge Well,	before demolition.
Site: UC Berkeley – Richmond Field Station, Richmond, Californ	ia
Date Taken: January 31, 2006	Project No.: SES2005-21
Photographer: Bruce Rucker	Photo No.: 07
Subject: Tremie-grouting at well New 50 East, showing installed	tremie pipe and fitting/hose for grout pumping from rig.
Site: UC Berkeley – Richmond Field Station, Richmond, Californ	ia
Date Taken: January 31, 2006	Project No.: SES2005-21
Photographer: Bruce Rucker	Photo No.: 08
	STELLAD ENVIDONMENTAL SOLUTIONS INC

Subject: Area of former well-related surface equipment at Final R	echarge Well, after demolition.	
Site: UC Berkeley – Richmond Field Station, Richmond, California		
Date Taken: January 31, 2006	Project No.: SES2005-21	
Photographer: Bruce Rucker	Photo No.: 09	
Subject: Overdrilling well New 100 South, showing upper 5' of c	asing that was pulled from the hole by the augers.	
Site: UC Berkeley – Richmond Field Station, Richmond, Californi		
Date Taken: February 1, 2006	Project No.: SES2005-21	
Photographer: Joe Dinan	Photo No.: 10	
	STELLAR ENVIRONMENTAL SOLUTIONS, INC.	

Subject: Perforating tool ("mills knife"), rigged up at well 50 West.		
Site: UC Berkeley – Richmond Field Station, Richmond, California		
Date Taken: February 3, 2006 Photographer: Bruce Rucker	Project No.: SES2005-21 Photo No.: 11	
Subject: Test perforation at well 50 West.		
Site: UC Berkeley – Richmond Field Station, Richmond, California		
Date Taken: February 3, 2006	Project No.: SES2005-21	
Photographer: Bruce Rucker	Photo No.: 12	

Subject: Delivering tremie pipe at well New 50-F	
Site: UC Berkeley – Richmond Field Station, Rich	
Date Taken: January 31, 2006 Photographer: Bruce Rucker	Project No.: SES2005-21 Photo No.: 13
Subject: Overdrilling piezometer PB-20.	
Subject: Overdrilling piezometer PB-20. Site: UC Berkeley – Richmond Field Station, Ric	hmond, California
	hmond, California Project No.: SES2005-21

Subject: Drilling out piezometer PB-18.		
Site: UC Berkeley – Richmond Field Station, Richmond, Californ		
Date Taken: February 9, 2006	Project No.: SES2005-21	
Photographer: Joe Dinan	Photo No.: 15	
Subject: Drilling out piezometer PB-19.		
Site: UC Berkeley – Richmond Field Station, Richmond, Californ		
Date Taken: February 9, 2006	Project No.: SES2005-21	
Photographer: Joe Dinan	Photo No.: 16	

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