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By Alameda County Environmental Health at 9:05 am, Feb 22, 2013

Ms. Dilan Roe, P.E.
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

ARCADIS U.S., Inc.
100 Montgomery Street
Suite 300
San Francisco
California 94104
Tel 415.374.2744
Fax 415.374.2745
www.arcadis-us.com

Subject:

Well Destruction Report
Former BP Service Station No. 11266
1541 Park Street
Alameda, California

Dear Ms. Dilan Roe:

ACEH Case # RO0000318

ARCADIS U.S., Inc (ARCADIS) has prepared this Well Destruction Report on behalf of Atlantic Richfield Company (ARCO), a BP affiliated company, for the former ARCO Service Station No. 11266, located at 1541 Park Street in the city of Alameda, California.

I declare, to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct. If you have any questions or comments regarding the contents of this report, please contact Hollis Phillips by telephone at 415.432.6903 or by e-mail at hollils.phillips@arcadis-us.com.

Sincerely,

ARCADIS U.S., Inc.

Hollis Phillips, P.G. (No. 6887) Project Manager/Principal Geologist

Copies: GeoTracker upload/ACEH upload

Raymond Yeung, Property Owner, 1541 Park Street, Alameda, California

February 21, 2013

ENVIRONMENT

Contact:

Hollis Phillips

Phone:

415.432.6903

Email:

Hollis.Phillips@arcadis-us.com

Our ref:

GP09BPNA.C001.Q0000



Ms. Dilan Roe, P.E. Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502 ARCADIS U.S., Inc. 100 Montgomery Street Suite 300 San Francisco California 94104 Tel 415.374.2744 Fax 415.374.2745 www.arcadis-us.com

ENVIRONMENTAL

Subject:

Well Destruction Report
Former BP Service Station No. 11266
1541 Park Street
Alameda, California
ACEH Case # RO0000318

Dear Ms. Dilan Roe:

On behalf of BP West Coast Products, LLC (BP West), ARCADIS U.S., Inc. (ARCADIS) is pleased to submit this Well Destruction Report to the Alameda County Environmental Health Department (ACEH). This report documents the destruction of six groundwater monitoring wells and one recovery well at the Former British Petroleum (BP) Station No. 11266 (site) located at 1541 Park St., Alameda, California (Figure 1).

Destruction of the site wells was requested in the *Recommendation for Case Closure* received by the ACEH on February 24, 2011. ACEH required no further action in a letter dated July 31, 2012. Through e-mail correspondence on August 9, 2012, the San Francisco Regional Water Quality Control Board (SFRWQCB) stated that the SFRWQCB needed to first close the site prior to any destruction activities and that destruction event should be put on hold. On January 3, 2013, ACEH required no further action and ordered the destruction of the monitoring wells.

Prior to conducting the field activities, ARCADIS obtained well destruction permits W2013-0051 through W2013-0057 from the Alameda County Public Works Agency (ACPWA). Copies of the permits are included as Attachment A. ARCADIS notified the Underground Service Alert (USA) to identify subsurface utilities for the city (USA ticket number 52657) prior to the start of work. Cruz Brothers, a private utility locate company located in Scotts Valley, California, identified utilities not included under the public locating service using electromagnetic surveying equipment on February 13, 2013. ARCADIS contracted Gregg Drilling, LP (Gregg) of Martinez, California to destroy the wells. Gregg is a California-licensed drilling contractor (C57 License

Date:

February 21, 2013

Contact:

Hollis E. Phillips

Phone:

415.432.6903

Email:

hollis.phillips@arcadisus.com

Our ref:

GP09BPNA.C001



No.485165). The monitoring wells were destroyed from February 14 through February 15, 2013.

Ms. Vicky Hamlin from the ACPWA provided inspection and oversight of the well destruction activities. The wells were destroyed in accordance with ACPWA permit requirements. All 7 well boxes were removed before destroying the wells by pressure grouting. Neat cement grout was placed in each well from the bottom of the well to ground surface and placed under 25 pounds per square inch (psi) of pressure for 5 minutes under the direct supervision of the ACPW inspector. The well was completed to match the surrounding ground surface conditions. The top 5 feet of monitoring well MW-6, located on Lincoln Avenue, were overdrilled per City of Alameda requirements. Refer to Attachment B for photographs of the wells before they were grouted and after the surface completions were finished. Table 1 provides well details and estimates of the volume of neat cement grout pumped into each monitoring well.

Copies of the well Completion Reports submitted to the ACPWA and ACEH are included in Attachment C.

With the completion of the above mentioned well destruction activities, ARCADIS does not believe that there are any remaining issues associated with ACEH Case # RO0000318; therefore, this site should be considered closed with regard to the previous environmental issues associated with this site. If you have any questions or need additional information regarding this site please contact Hollis Phillips at 415.432.6903. Thank you for your assistance with closing Former BP Site #11266.

Sincerely,

ARCADIS U.S., Inc.

Hollis E. Phillips, PG (No. 6887) Project Manager/Principal Geologist

Page: 2/3



Attachments

Figure 1 – Site Location Map
Figure 2 – Site Plan
Table 1 – Neat Cement Grout Estimated Volumes
Attachment A – Well Destruction Permits
Attachment B – Completion Photos
Attachment C – Well Completion Reports

Copies:

Geotracker upload/ACEH upload Raymond Yeung, Property Owner, 1541 Park Street, Alameda, California



Figures

10/29/2009 7:57 PM BY:

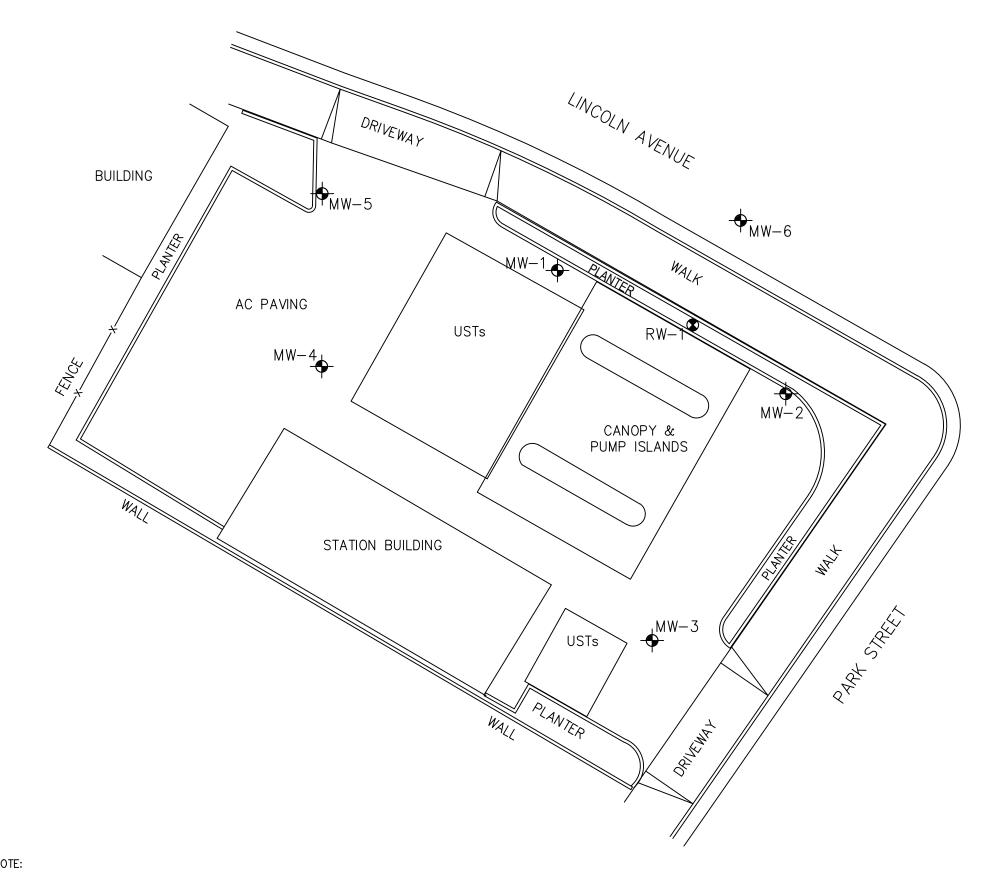
ARCADIS.CTB PLOTTED:

SETUP1 PLOTSTYLETABLE:

4:39 PM ACADVER:

ė





LEGEND

→ MONITORING WELL

RECOVERY WELL



FORMER BP SERVICE STATION #11266 1541 PARK STREET ALAMEDA, CALIFORNIA

SITE PLAN





Tables

Table 1 Neat Cement Grout Estimated Volumes CA-11266 1541 Park St., Alameda, CA 94501

Well ID	Total Depth (feet)	Boring Radius (feet)	Neat Cement Grout Estimated Volume (gallons)		
MW-1	25	0.17	15		
MW-2	25	0.17	15		
MW-3	25	25 0.17			
MW-4	25	0.17	15		
MW-5	25	0.17	15		
MW-6	25	0.17	15		
RW-1	30	0.5	50		



Attachment A

Well Destruction Permits

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 01/23/2013 By jamesy

Permit Numbers: W2013-0051 to W2013-0057

Permits Valid from 01/30/2013 to 01/31/2013

Application Id:

1358445541504

City of Project Site: Alameda

Site Location: **Project Start Date:**

1541 Park St. Alameda

Completion Date:01/31/2013

01/30/2013

Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org Assigned Inspector:

Applicant:

Arcadis - Hollis Phillips

Phone: 415-432-6903

Property Owner:

100 Montgomery, San Francisco, CA 94104 Ray Yeung

Phone: --

1541 Park St., Alameda, CA 94501

Phone: --

Client:

Atlantic Richfield Co. PO Box 1257, San Ramon, CA 94583

Total Due:

Receipt Number: WR2013-0025

Total Amount Paid:

\$2779.00 \$2779.00

Payer Name : Arcadis

Paid By: CHECK

PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 7 Wells

Driller: Gregg Drilling - Lic #: 485165 - Method: press

Work Total: \$2779.00

Specifications

P	ermit#	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR#
	/2013- 051	01/23/2013	04/30/2013	MVV1	8.00 in.	2.00 in.	6.00 ft	25.00 ft	2S/3W7N5	88010	Logs Only
	/2013- 052	01/23/2013	04/30/2013	MW2	8.00 in.	2.00 in.	6.00 ft	25.00 ft	2S/3W7N6	88010	Logs Only
	/2013- 053	01/23/2013	04/30/2013	MVV3	8.00 in.	2.00 in.	7.00 ft	25.00 ft	2S/3W7N7	88010	Logs Only
	/2013-)54	01/23/2013	04/30/2013	MW4	9.00 in.	2.00 in.	3.00 ft	25.00 ft	2S/3W7N8	89124	Logs Only
	/2013- 055	01/23/2013	04/30/2013	MW5	9.00 in.	2.00 in.	3.00 ft	25.00 ft	2S/3W7N9	89124	Logs Only
	/2013- 056	01/23/2013	04/30/2013	MW6	9.00 in.	2.00 in.	3.00 ft	25.00 ft	2S/3W7N10	89124	Logs Only
	2013- 057	01/23/2013	04/30/2013	RW-1	0.00 in.	2.00 in.	0.00 ft	30.00 ft	2S/3W7N30	92155	No Records

Specific Work Permit Conditions

- 1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Alameda County Public Works Agency - Water Resources Well Permit

- 3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
- 4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
- 5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
- 6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
- 8. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.



Attachment B

Completion Photos





Jack hammering and removing MW-3 well box.



MW-4 grouted to surface.





Pressure grouting MW-1.



Overdrilling top 5 feet of MW-6.





MW-5 surface completion.





Attachment C

Well Completion Reports

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In Well Completion Report of 1 Page 1 Refer to Instruction Pamphlet Owner's Well Number MW-1 No. e0170540 W N Date Work Began 02/14/2013 Date Work Ended 2/14/2013 Latitude Local Permit Agency Alameda County Public Works Agency APN/TRS/Other Permit Number <u>W2013-0051</u> Permit Date 1/23/13 Well Owner Geologic Log Orientation

O Vertical OAngle O Horizontal Specify_ Name Raymond Yeung **Drilling Method** Drilling Fluid Mailing Address 1541 Park St. Depth from Surface Description State CA Zip 94501 City Alameda Feet to Feet Describe material, grain size, color, etc A jack hammer was used to destroy the well box **Well Location** and surrounding cement. Neat grout was prepared Address 1541 Park St inspected, and then forced into the well at 25 psi City Alameda County Alameda for a total of 5 minutes. Grout was filled to the top N Longitude Latitude of casing. Cement was used to fill the surrounding Decimal Lat. Decimal Long. Datum space to the surface. The surface was completed APN Book 71 Page 202 Parcel 6 to match the surrounding material. Township _ Range_ Section . **Location Sketch** Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen O Other__ O Destroy Describe procedures and ma under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well O Vapor Extraction strate or describe distance of well from roads, buildings, fences, Other_N/A Please be accurate and complete Water Level and Yield of Completed Well Depth to first water (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring N/A Estimated Yield * Feet (GPM) Test Type _ Test Length . (Hours) Total Drawdown Total Depth of Completed Well N/A Feet *May not be representative of a well's long term yield. Casings Annular Material Depth from Borehole Wall Outside Screen Slot Size Depth from Material Type if Any Surface Diameter Thickness Diameter Fill Type Surface Description Feet to Feet (Inches) Feet to Feet (Inches) (Inches) (Inches) **Attachments Certification Statement** , the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief ☐ Geologic Log Name Gregg Drilling and Testing ☐ Well Construction Diagram Person, Firm or Corporation ☐ Geophysical Log(s) 950 Howe Road Martinez CA ☐ Soil/Water Chemical Analyses State Signed 🚣 Other . 485165 C-57 Licensed Water Well Contractor **Date Signed** Attach additional information, if it exists. C-57 License Number

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill in **Well Completion Report** of 1 Page 1 Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-2 No. e0170542 N W Date Work Began 02/14/2013 Date Work Ended 2/14/2013 Latitude Lonaitude Local Permit Agency Alameda County Public Works Agency APN/TRS/Other Permit Number W2013-0052 __ Permit Date <u>1/23/13</u> Geologic Log Well Owner O Horizontal OAngle Specify_ Name Raymond Yeung Drilling Method **Drilling Fluid** Mailing Address 1541 Park St. Depth from Surface Description City Alameda State CA Feet to Feet Describe material, grain size, color, etc. A jack hammer was used to destroy the well box **Well Location** and surrounding cement. Neat grout was prepared Address 1541 Park St. inspected, and then forced into the well at 25 psi City Alameda County Alameda for a total of 5 minutes. Grout was filled to the top atitude N Longitude of casing. Cement was used to fill the surrounding Decimal Lat. Decimal Long. space to the surface. The surface was completed APN Book 071 Page 0202 Parcel 006 to match the surrounding material. Township _ Range _ Section . Location Sketch Activity (Sketch must be drawn by hand after form is printed.) O New Well O Modification/Repair O Deepen O Other_ Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Other N/A Water Level and Yield of Completed Well Depth to first water (Feet below surface) Depth to Static (Feet) Date Measured Water Level Estimated Yield * **Total Depth of Boring** Feet (GPM) Test Type _ (Hours) Total Drawdown Total Depth of Completed Well N/A *May not be representative of a well's long term yield. Casings **Annular Material** Depth from Borehole Wall Outside Screen Slot Size Depth from Material Thickness Diameter Surface Diameter Type if Any Surface FIII Description Feet to Feet Feet to Feet (Inches) (Inches) (Inches) (Inches) **Attachments Certification Statement** Geologic Log , the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name Gregg Drilling and Testing ☐ Well Construction Diagram Person, Firm or Corporation ☐ Geophysical Log(s) 950 Howe Road Martinez ☐ Soil/Water Chemical Analyses State ☐ Other 485165 C-57 Licensed Water Well Contractor **Date Signed** C-57 License Number Attach additional information, if it exists.

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** of 1 Page 1 Refer to Instruction Pamphlet State Well Number/Site Number No. e0170544 Owner's Well Number MW-3 W | | N | Date Work Ended 2/14/2013 Date Work Began 02/14/2013 Local Permit Agency Alameda County Public Works Agency APN/TRS/Othe Permit Number <u>W2013-0053</u> Permit Date 1/23/13 Geologic Log Well Owner O Horizontal OAngle Specify_ Name Raymond Yeung **Drilling Method Drilling Fluid** Mailing Address 1541 Park St. Depth from Surface Description City Alameda State CA Feet to Feet Describe material, grain size, color, etc. A jack hammer was used to destroy the well box **Well Location** and surrounding cement. Neat grout was prepared, Address 1541 Park St. inspected, and then forced into the well at 25 psi City Alameda County Alameda for a total of 5 minutes. Grout was filled to the top Latitude N Longitude of casing. Cement was used to fill the surrounding Decimal Lat. Decimal Long. space to the surface. The surface was completed Parcel 006 APN Book 071 Page 0202 to match the surrounding material. Township __ Section ___ Range_ Location Sketch Activity (Sketch must be drawn by hand after form is printed.) O New Well O Modification/Repair O Deepen O Other_ Destroy Describe procedures and m under "GEOLOGIC LOG" Planned Uses O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Other N/A Water Level and Yield of Completed Well Depth to first water (Feet below surface) Depth to Static _ (Feet) Date Measured_ Water Level Total Depth of Boring Estimated Yield * (GPM) Test Type (Hours) Total Drawdown Total Depth of Completed Well N/A *May not be representative of a well's long term yield. Casings **Annular Material** Slot Size Depth from Borehole Wall Outside Screen Depth from Type Material Thickness Diameter Fiii Surface Diameter Type if Any Surface Description Feet to Feet Feet to Feet (Inches) (Inches) (Inches) (Inches) **Attachments Certification Statement** ☐ Geologic Log I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name Gregg Drilling and Testing ☐ Well Construction Diagram Person, Firm or Corporation Geophysical Log(s) 950 Howe Road CA ☐ Soil/Water Chemical Analyses State 485165 ☐ Other . C-57 Licensed Water Well Contractor Date Signed C-57 License Number Attach additional information, if it exists,

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** __ of <u>1</u> Page 1 Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-4 No. e0170546 Date Work Began 02/14/2013 Date Work Ended 2/14/2013 Latitude Local Permit Agency Alameda County Public Works Agency APN/TRS/Other Permit Number <u>W2013-0054</u> Permit Date 1/23/13 Geologic Log Well Owner Orientation

Overtical O Horizontal OAngle Name Raymond Yeung Specify Drilling Method **Drilling Fluid** Mailing Address 1541 Park St Depth from Surface Description City Alameda State CA Zip 94501 Describe material, grain size, color, etc. Feet to Feet A jack hammer was used to destroy the well box **Well Location** and surrounding cement. Neat grout was prepared. Address 1541 Park St. inspected, and then forced into the well at 25 psi City Alameda County Alameda for a total of 5 minutes. Grout was filled to the top Latitude N Longitude of casing. Cement was used to fill the surrounding Decimal Lat. Decimal Long. space to the surface. The surface was completed APN Book 071 Page <u>0202</u> Parcel 006 to match the surrounding material. Township ___ Section ___ Range ___ **Location Sketch** Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen O Other__ Planter Destroy Describe procedures and under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐Domestic ☐Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation Day O Sparging O Test Well O Vapor Extraction libustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. Other_N/A Water Level and Yield of Completed Well Depth to first water _ (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring Estimated Yield * Feet __(GPM) Test Type __ Test Length _ __ (Hours) Total Drawdown__ Total Depth of Completed Well N/A Feet *May not be representative of a well's long term yield. Casings **Annular Material** Depth from Borehole Wall Outside Slot Size Depth from Screen Material Surface Diameter Thickness Dlameter Type If Any Surface FIII Description Feet to Feet (Inches) (Inches) (Inches) (Inches) Feet to Feet **Attachments Certification Statement** , the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief ☐ Geologic Log Name Gregg Drilling and Testing ☐ Well Construction Diagram Person, Firm or Corporation Geophysical Log(s) 950 Howe Road Martinez ☐ Soil/Water Chemical Analyses Signed ☐ Other . 485165 C-57 Licensed Water Well Contractor Date Signed Attach additional information, if it exists. C-57 License Number

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** Page 1 Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-5 No. e0170546 Date Work Began 02/14/2013 Date Work Ended 2/14/2013 Latitude Local Permit Agency Alameda County Public Works Agency APN/TRS/Other Permit Number <u>W2013-0055</u> Permit Date 1/23/13 Geologic Log Well Owner Orientation

O Vertical O Horizontal OAngle Specify Name Raymond Yeung Drilling Method Drilling Fluid Mailing Address 1541 Park St. Depth from Surface Description City Alameda State CA Feet to Feet Describe material, grain size, color, etc. A jack hammer was used to destroy the well box **Well Location** and surrounding cement. Neat grout was prepared, Address 1541 Park St. inspected, and then forced into the well at 25 psi City Alameda County Alameda for a total of 5 minutes. Grout was filled to the top Latitude N Longitude of casing. Cement was used to fill the surrounding space to the surface. The surface was completed Decimal Lat. Decimal Long. APN Book 071 Page 0202 Parcei 006 to match the surrounding material. Township Section . Range _ Location Sketch Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen O Other_ Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Other N/A Water Level and Yield of Completed Well Depth to first water ___ (Feet below surface) Depth to Static (Feet) Date Measured Water Level Total Depth of Boring Estimated Yield * Feet (GPM) Test Type Test Length _ (Hours) Total Drawdown Total Depth of Completed Well N/A Feet *May not be representative of a well's long term yield. Casings **Annular Material** Depth from Borehole Wall Outside Screen Slot Size Depth from Material Diameter Thickness Diameter Surface Type if Any Surface FIII Description Feet to Feet (Inches) (inches) Feet to Feet (Inches) (Inches) **Attachments Certification Statement** ☐ Geologic Log I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name Gregg Drilling and Testing ■ Well Construction Diagram Person, Firm or Corporation ☐ Geophysical Log(s) 950 Howe Road CA ☐ Soil/Water Chemical Analyses State ☐ Other 485165 Date Signed C-57 Licensed Water Well Contracto C-57 License Number Attach additional information, if it exists.

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** Page 1 of 1 Refer to Instruction Pamphlet Owner's Well Number MW-6 No. e0170549 ı N W Date Work Began 02/15/2013 Date Work Ended 2/15/2013 Latitude Local Permit Agency Alameda County Public Works Agency APN/TRS/Other Permit Number 89124 Permit Date 1/23/13 **Well Owner** Geologic Log O Vertical Orientation OAngle O Horizontal Name Raymond Yeung Specify **Drilling Method Drilling Fluid** Mailing Address 1541 Park St Depth from Surface Description State CA Zip <u>94501</u> City Alameda Describe material, grain size, color, etc Feet to Feet A hollow stem auger was used to overdrill the **Well Location** top 5 feet in accordance with the City of Alameda's Address 1541 Park St requirements. Neat cement was prepared, City Alameda _ County Alameda inspected, and then used to pressure grout MW-6 Latitude N Longitude at 25 psi for 5 minutes. Cement was then used to Decimal Lat. Decimal Long. Datum fill the well to surface level and constructed to APN Book 071 Page 0202 Parcel 006 match the surrounding area. Township _ Section . _Range _ **Location Sketch** Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen O Other_ O Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐Domestic ☐Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well O Vapor Extraction litustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Other_N/A Nater Level and Yield of Completed Well Depth to first water (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring N/A Estimated Yield * Feet (GPM) Test Type _ (Hours) Total Drawdown Test Length _ Total Depth of Completed Well N/A Feet *May not be representative of a well's long term yield. Casings **Annular Material** Depth from Borehole Wall Outside Screen Slot Size Depth from Material Surface Diameter Thickness Diameter If Any Surface FIII Type Description Feet to Feet Feet to Feet (Inches) (inches) (Inches) (inches) Attachments **Certification Statement** I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief ☐ Geologic Log Name Gregg Drilling and Testing ■ Well Construction Diagram Person, Firm or Corporation 950 Howe Road Geophysical Log(s) Martinez CA ☐ Soil/Water Chemical Analyses State Other . Signed 485165 C-57 Licensed Water Well Contractor Date Signed Attach additional information, if it exists.

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** _ of 1 Page 1 Refer to Instruction Pamphiet Owner's Well Number RW-1 No. e0170551 Date Work Began 02/14/2013 Date Work Ended 2/14/2013 Local Permit Agency Alameda County Public Works Agency APN/TRS/Other Permit Number 92155 Permit Date __1/23/13 Geologic Log Well Owner Orientation

O Vertical O Horizontal OAngle Name Raymond Yeung Specify Drilling Method **Drilling Fluid** Mailing Address 1541 Park St. Depth from Surface Description City Alameda _ State <u>CA</u> Zip 94501 Feet to Feet Describe material, grain size, color, etc Well Location A jack hammer was used to destroy the well box and surrounding cement. Neat grout was prepared, Address 1541 Park St. inspected, and then forced into the well at 25 psi _ County Alameda City Alameda N Longitude _____ Min. for a total of 5 minutes. Grout was filled to the top Latitude _ of casing. Cement was used to fill the surrounding Datum_ Decimal Lat. Decimal Long._ space to the surface. The surface was completed Page <u>0202</u> APN Book <u>071</u> Parcel 006 to match the surrounding material. Township _____ Section __ _Range_ Activity Location Sketch (Sketch must be drawn by hand after form is printed.) O New Well O Modification/Repair O Deepen O Other__ O Destroy Describe procedures and mate under 'GEOLOGIC LOG' Planned Uses O Water Supply ☐Domestic ☐Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Usa additional paper if necessary. Please be accurate and complete. Other N/A Water Level and Yield of Completed Well Depth to first water _ __ (Feet below surface) Depth to Static Water Level _ (Feet) Date Measured _ Estimated Yield * _ Total Depth of Boring N/A __ (GPM) Test Type __ Feet _____ (Hours) Total Drawdown Test Length _ Total Depth of Completed Well N/A Feet *May not be representative of a well's long term yield. Casings **Annular Material** Depth from Depth from Borehole Wall Outside Screen Slot Size Material Diameter Thickness Diameter if Any FIII Description Surface Type Surface (Inches) (Inches) Feet to Feet Feet to Feet (Inches) (Inches) **Certification Statement Attachments** I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Geologic Log Name Gregg Drilling and Testing ■ Well Construction Diagram ☐ Geophysical Log(s) 950 Howe Road ☐ Soil/Water Chemical Analyses Signed 485165 Other _ C-57 Licensed Water Well Contractor ach additional information, if it exists. Date Signed C-57 License Number