

December 9, 2014

Jillian Holloway Project Manager Marketing Business Unit Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 790-3513 JillianHolloway@chevron.com

RECEIVED

By Alameda County Environmental Health at 11:07 am, Dec 12, 2014

Alameda County Health Care Services Agency Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Unocal No. 5484 (351812) 18950 Lake Chabot Road, Castro Valley, California ACEH Fuel Leak Case No. RO0000352 GeoTracker Global ID T0600101453

I have reviewed the attached report dated December 9, 2014.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by AECOM, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13257(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Jillian Holloway

Project Manager

Attachment: Chabot Creek Findings Report by AECOM



AECOM 2020 L Street, Suite 400 Sacramento, CA 95811 www.aecom.com 916 414 5800 tel 916 414 5850 fax

December 9, 2014

Keith Nowell Alameda County Health Care Services Agency Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577 (*via internet upload*)

Subject: Chabot Creek Findings Report Unocal No. 5484 (351812) 18950 Lake Chabot Road, Castro Valley, California Fuel Leak Case No. RO0000352 Geotracker Global ID # T0600101453

Dear Mr. Nowell,

On behalf of Chevron Environmental Management Company's (EMC's) affiliate, Union Oil Company of California ("Union Oil"), AECOM has prepared this Chabot Creek Findings Report for Unocal No. 5484 located at 18950 Lake Chabot Road in Castro Valley, California.

This report is in response to the November 5, 2014 directive letter (**Attachment A**) for the site from Alameda County Environmental Health (ACEH) requesting clarification and additional information regarding Chabot Creek in the area of the site.

Technical Comments

The following summarizes the technical comments presented in the November 5, 2014 directive letter.

The 1997 Creek and Watershed Map of Hayward and San Leandro (watershed map) depicts an open channel segment of Chabot creek that approaches within 200 feet of the site with a similar shape to that presented in Figure 1 of the SCM. The site conceptual model (SCM) depicts "creeks, buried or drained" to the east and west of the site within 1,000 feet.

Response: AECOM contacted the San Francisco Estuary Institute (SFEI) and Fugro (map producer); see **Attachment B**, about the data presented on the 1997 watershed map vs. the 2011 watershed map. SFEI and Fugro were unable to speak to the accuracy of the data presented on the 1997 map however they explained that the creek was replaced by the storm drain system in the site area. The old open channel or drained sections of Chabot creek would have to be verified by a field inspection but were likely filled during development in the area. On November 24, 2014, AECOM conducted an inspection of Chabot Creek. The only evidence of potential historic stream features is a shallow swale which extends approximately 100 feet into Castro Valley Park which is located 700 feet upgradient from the site south of the intersection of Quail Avenue and Seven Hills Road.

Shallow groundwater observed at the site would likely intercept the unlined creek if it was within 200 feet of the site.

Response: There is no unlined creek section within 200 feet, the only remaining feature related to Chabot Creek is the lined culvert that was installed in 1961 which is 580 feet downgradient of the site, see **Attachment C**, **Figure 1** and **Figure 2**.

Contradictory statements between drained or buried sections of Chabot Creek vs. closest sections of Chabot Creek.

Response: The current status of Chabot Creek is clarified in Attachment C.

Alameda County Flood Control and Water Conservation District (ACFC&WD) may have future plans to naturalize Chabot Creek downgradient of the site.

Response: On November 18, 2014 AECOM contacted ACFC&WD regarding potential future plans to naturalize Chabot Creek. The ACFC&WD noted that there are no current or future plans to naturalize the downgradient sections of Chabot Creek currently within a lined culvert. The culvert has been lined since 1961, the culvert as-builts are included as **Attachment D**. Additionally the downgradient culvert goes through numerous residential properties with no easement which makes the naturalization of the creek unlikely.

Conclusion

The nearest surface water body to the site is Almond Reservoir located 3,080 feet west of the site. The entire length of Chabot Creek that is downgradient of the site is within a lined culvert with no future plans to naturalize the creek. Therefore there are no surface water bodies downgradient of the site that are likely to be impacted by site groundwater.

Remarks/Signatures

The interpretations in the attached documents represent AECOM's professional opinions which are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact James Harms at (916) 414-5800.

Sincerely,

James Harms 🜌 Project Manager

Jessica Law, PG No. 8840

Jessica Law, PG No. 884 Project Geologist Stamped:12/9/2014



cc: Jillian Holloway EMC (via electronic copy) Abdi Fugfugosh and Shukri Noor, property owners (via paper copy)

Attachments

Attachment A	ACEH Directive Letter
Attachment B	Agency Correspondence
Attachment C	Focused SCM Update
Attachment D	1961 Culvert As-Builts

Attachment A

ACEH Directive Letter

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

Alex Briscoe, Agency Director



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

November 5, 2014

Jillian Holloway Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583 (Sent via email to: <u>JillianHolloway@chevron.com</u>)

Abdi Fugfugosh and Shukri Noor 5171 Stone Canyon Drive Castro Valley, CA 94552-5525

Ed Ralston ConocoPhillips 76 Broadway Sacramento, CA 95818 (Sent via email to: <u>Ed.C.Ralston@p66.com</u>)

Subject: Fuel Leak Case No. RO0000352 and Geotracker Global ID T0600101453, UNOCAL #5484, 18950 Lake Chabot Rd., Castro Valley, CA 94546

Dear Ms. Holloway and Ms. Noor and Messrs. Fugfugosh and Ralston:

Thank you for the recently submitted documents entitled Focused Site Conceptual Model (SCM), dated September 12, 2014, and Case Closure Summary (CCS), dated October 10, 2014, both documents having been prepared by AECOM for the subject site (Site). Alameda County Environmental Health (ACEH) has reviewed the case file, including the recently submitted documents, and is of the opinion that this case may be closable; however, it is the opinion of ACEH that one data gap remains. The CCS indicates that the nearest surface water body is the Almond Reservoir located 3,080 feet west of the Site. However, the SCM depicts what is described as "Creeks, Buried or Drained" and notes that drained or buried sections of Chabot Creek are to the east and west of the site within 1,000 feet. Drained or buried sections of Chabot Creek are not further defined in the SCM. ACEH notes that data presented in the Creek and Watershed Map of Hayward and San Leandro (Watershed map), dated 1997 and prepared by the San Francisco Estuary Institute, depicts an open channel segment of Chabot Creek, or an un-named tributary (Chabot Creek), west of the Site, having a similar shape south of that portrayed in Figure 1 of the SCM. The Watershed map shows the creek trending south-southeasterly and appears to enter a culvert to the southwest of the Site. Based on the map, the open channel is down gradient of and approaches to within 200 feet of the Site. It is unclear to ACEH if the Chabot Creek depicted on Figure 1 of the SCM and that on the Watershed map are the same creek, and if so, if the creek occupies an open channel or is within a culvert.

As groundwater beneath the Site has been reported as shallow as 2.99 feet below the ground surface (bgs), ACEH is of the opinion that it is likely groundwater would intercept an unlined Chabot Creek channel if the creek is determined to be within 200 feet. It remains unanswered that if the creek channel is "drained", where the drained water goes, and what happens to the groundwater infiltrating the drained channel.

The most recent groundwater monitoring event, conducted on March 8, 2013, reported concentrations of total petroleum hydrocarbons as gasoline (TPHg), tertiary butyl alcohol (TBA) and 2-methylnaphthalene at 1,900

Ms. Holloway and Ms. Noor and Messrs. Fugfugosh and Ralston RO0000352, November 5, 2014, Page 2

micrograms per liter (mg/L), 480 mg/L, and 25 mg/L, respectively, in the down gradient monitoring well MW-7. These concentrations are at least an order of magnitude above the Environmental Screening Levels (ESLs) protective of surface water-fresh water aquatic habitats (ESL Table F-2a) of 100 mg/L TPHg, 12 mg/L TBA, and 2.1 mg/L 2-methylnaphthalene. Additionally, concentrations of benzene, naphthalene, and methyl tertiary butyl ether (MTBE) were also reported to exceed ESLs protective of surface water-fresh water aquatic habitats.

The third paragraph of the Sensitive Receptors section of the SCM states the closest section of Chabot Creek is over one-mile to the south. The paragraph continues, stating there are drained or buried sections of Chabot Creek to the east and west within 1,000 feet of the Site. The first sentence appears to contradict the second. ACEH is aware that the Alameda County Flood Control and Water Conservation District (ACFC&WD) has restored sections of Chabot Creek down gradient of the Site to provide natural habitat. To date, the creek restoration project for the bioengineered naturalized stream channel has included removal of concrete channel and underground culvert sections. It is the opinion of ACEH that the one remaining data gap for the subject fuel leak case is the location and status of the creek, including determining if there has been, or if there are plans for, stream-naturalization projects along the portion of the creek in the vicinity of the Site.

Therefore, at this junction, please evaluate the existence of an open channel for Chabot Creek, or an unnamed tributary, west of the Site. If it is found to exist, determine whether or not it occupies a concrete lined trench. If the creek has been diverted, explain the state of the remnant channel, and whether the former channel is a wetland created by intercepting groundwater. Please evaluate or investigate the potential for residual contamination down gradient of MW-7 to impact an open body of water, should the creek be unlined. Additionally, ACFC&WD should be contacted regarding the Chabot Creek restoration project to determine if there has been, or if there are plans for, stream-naturalization projects along the portion of the creek in the vicinity of the Site and present your findings in the report requested below.

Technical Report Request

Please upload technical reports to the ACEH ftp site (Attention: Keith Nowell), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

• January 6, 2015 – Chabot Creek Findings Report (file name: RO0000352_CORRES_R_yyyy-mm-dd)

If your email address does not appear on the cover page of this notification ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Thank you for your cooperation. ACEH looks forward to working with you and your consultants to advance the case toward closure. Should you have any questions regarding this correspondence or your case, please call me at (510) 567-6764 or send an electronic mail message at <u>keith.nowell@acgov.org</u>.

Sincerely,

Keith Nowell, P.G., Ch.G. Hazardous Materials Specialist Ms. Holloway and Ms. Noor and Messrs. Fugfugosh and Ralston RO0000352, November 5, 2014, Page 3

- Attachment 1: Responsible Party(ies) Legal Requirements / Obligations and ACEH Electronic Report Upload (ftp) Instructions
- cc: Alexis Fischer, Chevron Environmental Management Company, 6101 Bollinger Canyon Road, San Ramon, CA 94583 (Sent via email to: <u>JillianHolloway@chevron.com</u>)

Jim Harms, AECOM, 2020 L Street, Suite 400, Sacramento, CA 95811, (Sent via email to: jim.harms@aecom.com)

Dilan Roe, ACEH Keith Nowell, ACEH Geotracker, File

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please SWRCB visit the website for more information on these requirements (http://www.waterboards.ca.gov/water issues/programs/ust/electronic submittal/).

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

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

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	REVISION DATE: May 15, 2014		
	ISSUE DATE: July 5, 2005		
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010		
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions		

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Please <u>do not</u> submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection.
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- <u>Do not</u> password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection <u>will not</u> be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to <u>deh.loptoxic@acgov.org</u>
 - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to http://alcoftp1.acgov.org
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to <u>deh.loptoxic@acgov.org</u> notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

Attachment B

Agency Correspondence

From:	<u>DeLeon, Rosemarie L.</u>
To:	Harms, James
Cc:	Valderrama, Arthur
Subject:	RE: 18950 Lake Chabot Rd (351812 Site) Chabot Creek questions
Date:	Friday, November 21, 2014 9:13:32 AM
Attachments:	image001.png

James,

We don't have any information regarding the condition of tat channel prior to the 1961 culvert installation. I agree that as of 1997 the map should no longer shown an open channel that no longer exist.

Sincerely,

Rosemarie L. De Leon

Assistant Engineer

Construction & Development Services Department | Alameda County Public Works Agency 951 Turner Court, Room 100 | Hayward, CA 94545 e-mail: <u>roseld@acpwa.org</u> | (510) 670-5209 | (510) 670-5269 Fax

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From: Harms, James [mailto:James.Harms@aecom.com]
Sent: Wednesday, November 19, 2014 4:22 PM
To: DeLeon, Rosemarie L.
Cc: Valderrama, Arthur
Subject: RE: 18950 Lake Chabot Rd (351812 Site) Chabot Creek questions

Thank you both for your help. Is there any record of what the condition of the creek/channel was prior to the 1961 culvert installation? I am thinking that the 1997 watershed map which depicts an open channel in the area was simply an error.

Thank you

Jim Harms Environmental Scientist Environment D +1 916.414.5863 M +1 916.919.9210 James.Harms@aecom.com

AECOM 2020 L Street, Suite 400, Sacramento, CA 95811 USA Jim--

After some investigation, I don't think we have map data for that area for the timeframe you're interested in. Micha Salomon, one of our senior historical ecology specialists, has suggested it's possible the previous classification was an error on an earlier map, but he also recommends that you contact Janet Sowers at Fugro (j.sowers@fugro.com) for more current data from that area. If you haven't already, you might also try looking at pre-1998 DOQQs to see if the channel is visible in earlier imagery.

Good luck--I'm sorry we couldn't provide an answer.

Best, Marshall

On Wed, Nov 19, 2014 at 10:59 AM, Marshall Kunze <<u>marshallk@sfei.org</u>> wrote: Hi Jim--

I am looking into this and will get back to you on whether we have historical data on the stream channel you're querying.

Best, Marshall

On Tue, Nov 18, 2014 at 3:17 PM, Harms, James < <u>James.Harms@aecom.com</u>> wrote:

Marshall,

Thanks for talking to me on the phone. I've attached the watershed map and the letter from Alameda County Environmental Health(ACEH) asking us to gather more information. Basically the final part of site closure is investigating the nature of the storm drain/former Chabot Creek southwest of the site. We used the 2011 map attached that shows the creek being in an engineered culvert, the 1997 map (which I haven't seen) referenced by ACEH shows the same Creek being an open channel. My guess is that between 1997 and 2011 the culvert was installed I was curious if there is anything from the way the maps are produced that would support that assumption. I would assume that if there was currently an open channel the 2011 map would show that.

Thanks for your time,

Jim Harms Environmental Scientist Environment D <u>+1 916.414.5863</u> M <u>+1 916.919.9210</u> James.Harms@aecom.com

AECOM

2020 L Street, Suite 400, Sacramento, CA 95811 USA T <u>+1 916.414.5800</u> F <u>+1 916.414.5850</u> www.aecom.com

Marshall Kunze Senior Technology Specialist San Francisco Estuary Institute <u>510-746-7333</u> marshallk@sfei.org

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Marshall Kunze Senior Technology Specialist San Francisco Estuary Institute 510-746-7333 marshallk@sfei.org

From:	Sowers, Janet [FWLA]
To:	<u>Harms, James</u>
Cc:	marshallk@sfei.org; Micha Salomon
Subject:	RE: Watershed map questions for 351812 Castro Valley site
Date:	Thursday, November 20, 2014 10:09:28 AM

Jim,

I think the answer lies in the Explanation on the map. The entry "Creeks, buried or drained" is listed under "Historical features", along with other features such as lakes, tidal marshes, and willow groves, which were part of the historical landscape but no longer exist. In the case of Chabot Creek near your site, the creek was replaced by the current storm drain system. Such replacement may involve laying pipe in the channel and backfilling with earth ("buried"), or laying the pipe in a different location, diverting the flow from the creek into the pipe, and leaving the old channel as is ("drained" but still present as a dry swale). These usually get filled in during urban development. A field inspection would be required determine if any dry swales remain. Regardless, a dry swale would not likely qualify as a creek as it would not carry significant water flow.

The closest open channel creek is represented by the thick red line (engineered channel) near Castro Valley Boulevard. The storm drains that replaced Chabot Creek near your site empty into this channel, and further downstream into a natural reach of creek represented by the blue line (creek).

Hope this helps.

-Janet

From: Harms, James [mailto:James.Harms@aecom.com]
Sent: Wednesday, November 19, 2014 4:28 PM
To: Sowers, Janet [FWLA]
Subject: FW: Watershed map questions for 351812 Castro Valley site

Janet,

I was giving your name by Marshall at SFEI, see below. We are trying to find out if any of the sections of Chabot Creek noted near the our site are in anything besides a culvert. As you can see in the chain below Alameda County Environmental Health noted that on the 1997 version of the attached watershed map it was noted that open channel portions of Chabot Creek were present downhill from our site. If you have any information about the Creek in the area we are interested in that would be great.

Thank you

Jim Harms

Environmental Scientist Environment D +1 916.414.5863 M +1 916.919.9210 James.Harms@aecom.com

AECOM

2020 L Street, Suite 400, Sacramento, CA 95811 USA T +1 916.414.5800 F +1 916.414.5850 www.aecom.com From: Marshall Kunze [mailto:marshallk@sfei.org]
Sent: Wednesday, November 19, 2014 2:44 PM
To: Harms, James
Subject: Re: Watershed map questions for 351812 Castro Valley site

Jim--

After some investigation, I don't think we have map data for that area for the timeframe you're interested in. Micha Salomon, one of our senior historical ecology specialists, has suggested it's possible the previous classification was an error on an earlier map, but he also recommends that you contact Janet Sowers at Fugro (j.sowers@fugro.com) for more current data from that area. If you haven't already, you might also try looking at pre-1998 DOQQs to see if the channel is visible in earlier imagery.

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Best, Marshall

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Best, Marshall

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Thanks for your time,

Jim Harms Environmental Scientist Environment D <u>+1 916.414.5863</u> M <u>+1 916.919.9210</u> James.Harms@aecom.com

AECOM 2020 L Street, Suite 400, Sacramento, CA 95811 USA T <u>+1 916.414.5800</u> F <u>+1 916.414.5850</u> www.aecom.com

--Marshall Kunze Senior Technology Specialist San Francisco Estuary Institute 510-746-7333 marshallk@sfei.org

--Marshall Kunze Senior Technology Specialist San Francisco Estuary Institute 510-746-7333 marshallk@sfei.org

From:	DeLeon, Rosemarie L.
То:	Harms, James
Cc:	Valderrama, Arthur
Subject:	FW: 18950 Lake Chabot Rd (351812 Site) Chabot Creek questions
Date:	Wednesday, November 19, 2014 12:47:53 PM
Attachments:	image001.png
	CB-104 Sht.6- Zone 2 Line F.pdf

James,

Per your below request, attached is the record drawing of the culvert improvement in the vicinity of Keith Avenue and Lake Chabot Road. The culvert was constructed in 1961. Regarding your question of the subject line to be naturalize, the Flood Control District has no such plan at this time or in the immediate future.

We hope the information provided here helps you with the closure process with the Environmental health services.

Sincerely,

Rosemarie L. De Leon

Assistant Engineer Construction & Development Services Department | Alameda County Public Works Agency 951 Turner Court, Room 100 | Hayward, CA 94545 e-mail: <u>roseld@acpwa.org</u> | (510) 670-5209 | (510) 670-5269 Fax

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From: Harms, James [mailto:James.Harms@aecom.com]
Sent: Tuesday, November 18, 2014 4:30 PM
To: Valderrama, Arthur
Subject: 18950 Lake Chabot Rd (351812 Site) Chabot Creek questions

Arthur,

Thanks for the time on the phone. We are working on the final parts of the site closure for a former underground storage tank site that has been cleaned up. As part of this Alameda County Environmental Health (ACEH) asked for some more information about Chabot Creek near our site.

I've attached the request form ACEH, a figure from our closure request, and the watershed map. Basically between the 1997 and 2011 map sections of Chabot creek went from being depicted as open channel to in a culvert. If there is some information on when that happened, particularly near Keith Avenue off of Lake Chabot Rd, that would be great. If there are any drawings showing the culvert construction that would also be helpful. Additionally ACEH wanted us to find out if there are any plans to naturalize Chabot Creek in the area shown as the maximum plume extent in the aerial photograph figure, note the current plume is all located on the site we are working on.

Thank you

Jim Harms Environmental Scientist Environment D +1 916.414.5863 M +1 916.919.9210 James.Harms@aecom.com

AECOM

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From: DeLeon, Rosemarie L. [mailto:Roseld@acpwa.org]
Sent: Wednesday, November 19, 2014 12:47 PM
To: Harms, James
Cc: Valderrama, Arthur
Subject: FW: 18950 Lake Chabot Rd (351812 Site) Chabot Creek questions

James,

Per your below request, attached is the record drawing of the culvert improvement in the vicinity of Keith Avenue and Lake Chabot Road. The culvert was constructed in 1961. Regarding your question of the subject line to be naturalize, the Flood Control District has no such plan at this time or in the immediate future.

We hope the information provided here helps you with the closure process with the Environmental health services.

Sincerely,

Rosemarie L. De Leon

Assistant Engineer Construction & Development Services Department | Alameda County Public Works Agency 951 Turner Court, Room 100 | Hayward, CA 94545 e-mail: <u>roseld@acpwa.org</u> | (510) 670-5209 | (510) 670-5269 Fax

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From: Harms, James [mailto:James.Harms@aecom.com]
Sent: Tuesday, November 18, 2014 4:30 PM
To: Valderrama, Arthur
Subject: 18950 Lake Chabot Rd (351812 Site) Chabot Creek questions

Arthur,

Thanks for the time on the phone. We are working on the final parts of the site closure for a former underground storage tank site that has been cleaned up. As part of this Alameda County Environmental Health (ACEH) asked for some more information about Chabot Creek near our site.

I've attached the request form ACEH, a figure from our closure request, and the watershed map. Basically between the 1997 and 2011 map sections of Chabot creek went from being depicted as open channel to in a culvert. If there is some information on when that happened, particularly near Keith Avenue off of Lake Chabot Rd, that would be great. If there are any drawings showing the culvert construction that would also be helpful. Additionally ACEH wanted us to find out if there are any plans to naturalize Chabot Creek in the area shown as the maximum plume extent in the aerial photograph figure, note the current plume is all located on the site we are working on.

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Attachment C

Focused SCM Update

Site Conceptual Model Update Unocal No. 5484 (351812), RO352 18950 Lake Chabot Road Castro Valley, California

SCM Element SCM S	Sub-Element	Description	Reference	Data Tables/Graphics	Data Gaps	Work to Address Data Gap
	upply wells	information, the well locations are also shown on Figure 1. While the MTBE plume has been delineated to below the ESL by the existing monitoring wells, there is the potential for the plume to pass between downgradient well MW 5 and previously abandoned well MW-4. Therefore, this potential scenario has been considered and the potential maximum plume length for MTBE (which is the site	Receptor Survey Report, August 22. SWRCB 2012, Technical Justification for Groundwater Media-Specific Criteria, April 24. Creek and Watershed Map of Hayward & San Leandro, 2011	Table 1 - Water Supply Well Search Figure 1 - Receptor Map Figure 2 - Plume Extents Map Figure 3 - Groundwater Elevation Contour Map Attachment A - Culvert As-Builts Attachment B - ACFC&WD Emails	Evaluate the existance of an open channel or unlined section of Chabot Creek	Contacted ACFC&WD, SFEI, and Fugro. Conducted site reconnaissance on November 24, 2014.

Tables

Table 1 Water Supply Well Search Unocal No. 5484 (351812), RO352 18950 Lake Chabot Road Castro Valley, California

Well Owner	Date Installed	Total Depth (feet)	Use	Distance from Site (ft)	Direction from site	Source	Comment
Wilbert Martin	3/1977	50	Irrigation	3200	northeast	2006 DWR and 2014 ACPW	
Lorri Timond	not specified	unknown	not specified	4000	southeast	2006 DWR	
Eden Township Hospital	not specified	unknown	not specified	3900	south	2006 DWR	
Foothill Baptist Church	not specified	unknown	not specified	2700	south-southeast	2006 DWR	
C.H. Gossett	6/29/1954	70	Domestic	7,900	east	2014 ACPW	
Rees	8/1964	76	Domestic	6,000	south-southeast	2014 ACPW	
Bill Jensen	8/1/1980	220	Domestic	6,000	south-southeast	2014 ACPW	Deepening of well installed in 1964

Notes:

Well address not included due to privacy concerns.

DWR - Department of Water Resources

ACPW = Alameda County Public Works Department

Figures



cts\Chabot Creek Report\Figure 1_Receptor_Map_351812.mxd DD/GIS/Pr

0.125

0.25

Miles



Figure 1:Receptor Map

Unocal No. 5484 (351812), RO352 18950 Lake Chabot Road Castro Valley, California







- Groundwater Elevation in Feet Above Mean Sea Level
- Groundwater Contour Line in Feet Above Mean Sea Level



Attachments



From:	<u>DeLeon, Rosemarie L.</u>
To:	Harms, James
Cc:	Valderrama, Arthur
Subject:	RE: 18950 Lake Chabot Rd (351812 Site) Chabot Creek questions
Date:	Friday, November 21, 2014 9:13:32 AM
Attachments:	image001.png

James,

We don't have any information regarding the condition of tat channel prior to the 1961 culvert installation. I agree that as of 1997 the map should no longer shown an open channel that no longer exist.

Sincerely,

Rosemarie L. De Leon

Assistant Engineer

Construction & Development Services Department | Alameda County Public Works Agency 951 Turner Court, Room 100 | Hayward, CA 94545 e-mail: <u>roseld@acpwa.org</u> | (510) 670-5209 | (510) 670-5269 Fax

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From: Harms, James [mailto:James.Harms@aecom.com]
Sent: Wednesday, November 19, 2014 4:22 PM
To: DeLeon, Rosemarie L.
Cc: Valderrama, Arthur
Subject: RE: 18950 Lake Chabot Rd (351812 Site) Chabot Creek questions

Thank you both for your help. Is there any record of what the condition of the creek/channel was prior to the 1961 culvert installation? I am thinking that the 1997 watershed map which depicts an open channel in the area was simply an error.

Thank you

Jim Harms Environmental Scientist Environment D +1 916.414.5863 M +1 916.919.9210 James.Harms@aecom.com

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Attachment D

1961 Culvert As-builts

