Health Care Services

Alameda County Environmental Health
Meeting Sign-In Sheet

Sheaffs Garage
5930 College Avenue, Oakland, CA
RO0000377

Wednesday, November 29, 2017
10:00 AM

NAME	COMPANY	MAILING ADDRESS	PHONE	Signature	E-MAIL
Dilan Roe	Alameda County	1131 Harbor Bay Pkwy, Suite 250 Alameda, CA 94502	(510) 567-6767	Dilan Roe	dilan.roe@acgov.org
Mark Detterman	Alameda County	1131 Harbor Bay Pkwy, Suite 250 Alameda, CA 94502	(510) 567-6876	Mark J. Detterman	mark.detterman@acgov.org
Natasha Moller	Chevron	145 S. State College Blvd CA	714 671 3537	N Moller	natashamoller@chevron.com
David Patten	Chevron	6001 Bollinger Canyon Rd San Ramon, CA	925 786 2271	D P	drpatten@chevron.com
Kiersten Huey	GHD	5900 Hollis St #A Emeryville, CA	510 420-3347	Kiersten Huey	Kiersten.huey@ghd.com
Catalina Espino Devine	Chevron	6001 Bollinger Canyon Rd San Ramon CA	925-336-4396	Catalina Espino	espino@chevron.com
Brandon Wilken	GHD	2300 Clayton Rd, Suite 920 Concord CA 94520	925-200-1833	Brandon Wilken	brandon.wilken@ghd.com

December 11, 2017 Reference No. 311915

Mr. Mark Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Meeting Minutes
Former Chevron Service Station 90260
21995 Foothill Boulevard
Hayward, California
Fuel Leak Case No. RO0000383

Dear Mr. Detterman:

GHD is submitting the enclosed *Meeting Minutes* for the site referenced above on behalf of Chevron Environmental Management Company (CEMC) for a meeting attended by Alameda County Department of Environmental Health (ACDEH), CEMC, and GHD on November 29, 2017.

Please contact CEMC Project Manager David Patten at (925) 420-7877 or GHD Project Manager Kiersten Hoey at (510) 420 3347 if you have any questions or require additional information.

Cordially,

GHD

Kiersten Hoey

KH/cw/11
Encl. Meeting Minutes

cc: Dave Patten, Chevron EMC (*electronic only*)

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Minutes

December 1, 2017

Subject:	ACDEH Meeting for Site 90260 Hayward	**Ref. No.**	311915
Client:	Chevron Environmental Management Company		
From:	Brandon S Wilken	**Tel:**	925-849-1001

Venue/Date/Time: Alameda County Department of Environmental Health office / Nov. 29, 2017 / 10 AM

Attendees:

Dilan Roe (ACDEH)	Mark Detterman (ACDEH)	Natasha Molla (CEMC)
David Patten (CEMC)	Catalina Espino Devine (CETC)	Kiersten Hoey (GHD)
Brandon Wilken (GHD)		

Below is a summary of the meeting and action items to be completed.

- ACDEH is no longer allowing extension requests going forward.
- ACDEH would like for CEMC to consider using low flow groundwater sampling at all of their sites in ACDEH's jurisdiction.
- LTCP Groundwater Plume – ACDEH requested an updated CSM with all historical information and updated information regarding the residences located downgradient of the site. The following actions were agreed upon per ACDEH request:
    - GHD to propose semi-annual groundwater monitoring and sampling schedule using low flow sampling method.
    - GHD to complete LNAPL evaluation showing which wells have historically had LNAPL detections and which wells have been effectively remediated.
    - ACDEH recommends completing an offsite survey downgradient of the site and extending to the nearby creek to evaluate the types of building foundations, utilities; and existing sumps, and private active/inactive wells for a complete exposure pathway analysis.
    - GHD to indicate on tables and hydrographs the period when remediation commenced and ceased. Also indicate when low flow groundwater sampling began (Oct. 2017).
    - GHD plume maps should include grab-groundwater data to demonstrate state of petroleum hydrocarbon plume delineation.
        - Don't contour grab-groundwater data with data collected from monitoring wells, but they can be shown together on the figure with different color coding to differentiate between types of data.
        - GHD to use aerial photographs to create site base maps.
        - Need plume maps for TPHg, benzene, and ethylbenzene.
    - Geologic cross-sections should be updated.
        - Create cross-sections for mid-plume CPT and San Lorenzo Creek boring transects, show any stream channels observed.
        - Show foundations and creek bottom in relation to depth to groundwater and other pertinent data.

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- Map of San Lorenzo Creek Channel for:
  - Construction type
  - Where it discharges
  - Potential ecological receptors and risks

- LTCP Vapor Intrusion (VI)
  - ACDEH stated that there is no vapor intrusion risk onsite currently.
  - ACDEH recommends completing an offsite survey for building foundations, sumps, and wells within the petroleum hydrocarbon plume extent for a complete VI exposure pathway analysis. The survey will need to be planned right away in order to meet ACDEH deadline for submitting updated figures and tables by Feb. 2018.
  - GHD to evaluate id there is a 5 ft attenuation zone (<100 mg/kg TPH) between soil impacts and foundations/sumps per CA LTCP. If there is a 5 ft attenuation zone, the likelihood if VI risk is very low.
- LTCP Direct Exposure
  - Direct Contact with soils impacts under the LTCP does not appear to be a complete pathway.
  - GHD to verify naphthalene, PAHs, and metals soil data collected due to former used-oil waste tank onsite.
- Filled well located at 1180 Rex Road (unpermitted well) needs to be addressed. ACDEH agreed to help with this well.
  - ACDEH to contact Alameda County Public Works about unpermitted well and new well codes and possible enforcement actions to abandon well and remove exposure point.
- Submit data and figures by email to ACDEH by February 28, 2018 (due date will be established in ACDEH letter submitted at a later date).
- Follow up meeting, likely in March 2018, between ACDEH, CEMC, CETC, and GHD will occur approximately two weeks after the data and figures are received by ACDEH (date of meeting will be established in ACDEH letter submitted at a later date).
- March 2017 meeting will cover the following -
  - Discuss LTCP criteria to determine if they are complete or if there are data gaps.
  - Discuss potential remedial options if warranted.
- Potential Remedial Options Discussion
  - CETC stated that clear remedial objectives are needed to select appropriate remedial option. Discuss what are the remedial objectives for the site.
    - If the creek has aquatic species, use aquatic ESLs
    - If the creek does not have any aquatic species and it is used for stormwater drainage alternative remedial goal may potentially be used
  - CETC proposed oxygen/air injections to potentially address residual petroleum hydrocarbons in source area onsite to reduce lighter end hydrocarbons (TPHg mainly in MW-5). ACDEH agreed any potential remedial approach should be focused in onsite source zone, not offsite plume which is already attenuating.
    - Bring details of plan to next meeting (likely March 2018).

- GHD to review past Feasibility Studies to determine if Enhanced MNA with oxygen, Air Sparging, or Oxygen Injections have been evaluated previously.
    - ACDEH to determine if past oxygen injection feasibility evaluations meet the Public Comment criteria.

This confirms and records GHD's interpretation of the discussions which occurred and our understanding reached during this meeting. Please provide a written response within 10 days of the date issued if you agree with the meeting record and CEMC, GHD and CETC can proceed with agreed plan.