

Nowell, Keith, Env. Health

From: Nowell, Keith, Env. Health
Sent: Wednesday, April 19, 2017 2:51 PM
To: 'Craig Drizin'; Cockerham, Kyle@Waterboards
Cc: Heningburg, Benjamin@Waterboards; Khatri, Paresh, Env. Health; Roe, Dilan, Env. Health; Pat Hoban; Jered Chaney; Joshua Hannaleck
Subject: RE: Fieldwork Update #3: Alameda County Fuel Leak Case RO271/GeoTracker Global ID T0600100538/Claim 1275 (ECAP) - EXXON, 3055 35th Avenue, Oakland

Craig,

Thank you for the follow up re the status of the investigation. Alameda County Department of Environmental Health (ACDEH) staff is in agreement with regard to the collection of soil gas samples. This portion of the work plan should be placed on hold until the site dries out and depth to water increases.

The apparent confined groundwater condition is interesting. With the amount of precipitation that has fallen this rain season, a perch water layer may have been anticipated on the confining layer. It may be enlightening when incorporating the analytical results of this soil and groundwater investigation to the Site Conceptual Model.

Regards,
Keith Nowell

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From: Craig Drizin [mailto:craig@weber-hayes.com]
Sent: Tuesday, April 18, 2017 1:58 PM
To: Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>; Cockerham, Kyle@Waterboards <Kyle.Cockerham@waterboards.ca.gov>
Cc: Heningburg, Benjamin@Waterboards <Benjamin.Heningburg@waterboards.ca.gov>; Khatri, Paresh, Env. Health <paresh.khatri@acgov.org>; Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>; Pat Hoban <pat@weber-hayes.com>; Jered Chaney <jered@weber-hayes.com>; Joshua Hannaleck <joshua@weber-hayes.com>
Subject: Fieldwork Update #3: Alameda County Fuel Leak Case RO271/GeoTracker Global ID T0600100538/Claim 1275 (ECAP) - EXXON, 3055 35th Avenue, Oakland

Hi Keith & Kyle,

We started field work today and the field geologist reported saturated surface soils from approximately 1-2 feet below the ground surface (bgs) at the unpaved, vacant site. Based on this, previous observations of water in existing soil gas sample probes (see below), and the high probability of soil gas probe construction difficulties (saturated sand pack and/or bentonite bridging) – which could lead to poor quality data, Pat and I agree with our field geologist's

recommendation to NOT install the new soil gas sample probes (SG-15 through 20) at this time. (Let me know if you want me to send map with sample locations – it's 3MB and has been sent previously).

SOIL GAS PROBES SG-15 THROUGH 20 WILL NOT BE CONSTRUCTED DURING THE CURRENT FIELD MOBILIZATION. We propose to return to the site in June 2017 to install and sample soil gas probes SG15 through 20.

THE LABORATORY ANALYSES SUBMITTAL DUE MAY 8, 2017 WILL NOT HAVE SOIL GAS DATA, only soil and groundwater data.

Soil and groundwater samples are being collected during this mobilization from borings DP-10 through 16, as planned.

Our field geologist reports groundwater was first encountered in the on-site direct-push dual-tube boring DP-12 at approximately 27 feet bgs. After 5-feet of temporary screen was installed in this boring from 25-30 feet bgs, groundwater stabilized at approximately 8 feet bgs.

Call or reply if you have questions, or want to discuss.

Thanks,

Craig Drizin
Weber, Hayes and Associates
831-722-3580

From: Craig Drizin [<mailto:craig@weber-hayes.com>]

Sent: Tuesday, April 11, 2017 5:37 PM

To: Keith Nowell, Env. Health (Keith.Nowell@acgov.org) <Keith.Nowell@acgov.org>; Cockerham, Kyle@Waterboards (Kyle.Cockerham@waterboards.ca.gov) <Kyle.Cockerham@waterboards.ca.gov>

Cc: Heningburg, Benjamin@Waterboards (Benjamin.Heningburg@waterboards.ca.gov) <Benjamin.Heningburg@waterboards.ca.gov>; 'Khatri, Paresh, Env. Health' <paresh.khatri@acgov.org>; Dilan Roe <Dilan.Roe@acgov.org>; Pat Hoban <pat@weber-hayes.com>; Jered Chaney <jered@weber-hayes.com>; Joshua Hannaleck <joshua@weber-hayes.com>

Subject: Fieldwork Update #2: Alameda County Fuel Leak Case RO271/GeoTracker Global ID T0600100538/Claim 1275 (ECAP) - EXXON, 3055 35th Avenue, Oakland

Hi Keith & Kyle,

We returned and inspected and tried to clear water from the existing accessible soil gas sampling probes (using a peristaltic pump) SV-7 through 14 on April 5, 2017 (SV-9 not accessible, see below). What we found is summarized below (Locations shown on Figure 20R):

<u>Soil Gas Probe</u>	<u>Observations</u>
SV-7	Water in tubing, approximately 700 milliliters of water removed. Trace brown color to water
SV-8	Water in tubing, approximately 2,000 milliliters of water removed. Trace brown color to water
SV-10	Water in tubing, approximately 225 milliliters of water removed.
SV-11	Water in tubing, approximately 1,850 milliliters of water removed. Trace brown color to water
SV-12	Water in tubing, approximately 2,100 milliliters of water removed. Trace brown color to water
SV-13	Water in tubing, approximately 900 milliliters of water removed. Trace brown color to water

SV-14

Water in tubing, approximately 400 milliliters of water removed.

The presence of water does not bode well for getting samples from these or the probes proposed to be installed next week. Water will ruin (require expensive cleaning) a soil gas sample train (flow regulator and summa canister), and we immediately stop sampling if we see water in the soil gas probe tubing.

We plan to install the new soil gas probes and attempt to sample them and the existing probes during our planned field mobilization, April 18-20. We will let you know what we find/see while drilling the borings and installing the soil gas sample probes. We'll let you know if and where we are able to collect soil gas samples. Because this is an exceptionally wet year, if necessary and possible, we can try to collect soil gas samples in June as wet season samples and in October/November as dry season samples – this will depend on what samples we are able to collect next week.

Also, given the access issues described below, we currently only plan to install and sample DP-16 at the apartment building at 3015-3021 35th Avenue. This boring will be moved to a location between DP-16 and 17 shown on the attached Figure.

Keith – I'd like to meet you at the site next week during our field mobilization to connect the data to the physical reality of the site – let me know if there is a time that works for you.

Please let me know if anyone has any comments or questions about this information or our revised sampling plan.

All the best,

Craig Drizin
Weber, Hayes and Associates
831-722-3580

From: Craig Drizin [<mailto:craig@weber-hayes.com>]

Sent: Friday, March 31, 2017 5:54 PM

To: Keith Nowell, Env. Health (Keith.Nowell@acgov.org) <Keith.Nowell@acgov.org>; Cockerham, Kyle@Waterboards (Kyle.Cockerham@waterboards.ca.gov) <Kyle.Cockerham@waterboards.ca.gov>

Cc: Heningburg, Benjamin@Waterboards (Benjamin.Heningburg@waterboards.ca.gov) <Benjamin.Heningburg@waterboards.ca.gov>; 'Khatri, Paresh, Env. Health' <paresh.khatri@acgov.org>; Dilan Roe <Dilan.Roe@acgov.org>; Pat Hoban <pat@weber-hayes.com>; Jered Chaney <jered@weber-hayes.com>; Joshua Hannaleck <joshua@weber-hayes.com>

Subject: Fieldwork Update: Alameda County Fuel Leak Case RO271/GeoTracker Global ID T0600100538/Claim 1275 (ECAP) - EXXON, 3055 35th Avenue, Oakland

Hi Keith & Kyle,

We conducted the initial field work for the additional site investigation at the subject property on Tuesday, March 28, 2017.

Groundwater monitoring was conducted, including collecting samples from all of the monitoring and remediation wells associated with the site.

Boring locations were marked for USA and cleared with a utility locating contractor.

The proposed location for off-site boring DP-17 (see attached map, Figure 20R [Sample Loc 2017-02.pdf]) is not accessible due the presence of a metal gate leading to the backyard of the apartment building (see attached picture IMG_4368). The limited access drill rigs available to us will not pass through this gate – it does not open (backyard accessed by tenants through the apartment living space).

We recommend not installing proposed boring DP-17. We believe proposed boring DP-16 will be sufficient for gathering soil and groundwater information in this area. Boring B-16 is closest to Boring B-14, which had the highest concentrations of hydrocarbons in soil in this area, see Figure 5 of the Work Plan.

We investigated the existing accessible soil gas sampling probes, SV-7 through 14 (SV-9 not accessible, though we knocked on the door again – no answer). The status of these sample probes is summarized below (Locations shown on Figure 20R):

<u>Soil Gas Probe Condition</u>	<u>Vault Condition Observations</u>	<u>Tubing Cap Tight?</u>	<u>Tubing</u>
SV-7	Full of water	No	Water in tubing
SV-8 in ~1 minute, 15 minutes to equilibrate to 0" Hg	Moist	Yes	OK 7" Hg
SV-10	Full of water	No	Water in tubing
SV-11 tubing to surface – stop test	Moist	Yes	Test vacuum draws water up
SV-12 tubing to surface – stop test	Moist	Yes	Test vacuum draws water up
SV-13	Full of water	No	Water in tubing
SV-14	Full of water	No	Water in tubing

We plan to return to the site the week of April 3 with peristaltic pump to see if we can remove water from the tubing in the soil gas probes, and determine if we can collect samples from them. We will let you know what we find.

Call or reply if you have any questions or need additional information.

All the best,

Craig Drizin
Weber, Hayes and Associates
831-722-3580