

Detterman, Mark, Env. Health

From: Scott [SBittinger@stratusinc.net]
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To: Detterman, Mark, Env. Health
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MEETING SUMMARY
ALAMEDA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT OFFICE
JULY 7, 2015
FORMER OLYMPIC STATION
1436 GRANT AVENUE, SAN LORENZO, CALIFORNIA

ATTENDEES:

Mark Detterman, ACEHD
Phil Jaber, Property Owner
Gowri Kowtha, Stratus Environmental, Inc.
Scott Bittinger, Stratus Environmental, Inc.

DISCUSSION

Stratus personnel presented the group with a meeting agenda and a packet of materials that included a site plan that depicted the location of site borings and wells areas, figures depicting the concentrations and lateral extent of select fuel contaminants in soil and groundwater, information regarding remedial efforts by DPE, and graphical illustrations of contaminant concentrations versus time in select wells.

Mr. Kowtha initiated the meeting discussion by summarizing work activities performed over time, including removal of the USTs/dispensers in the late 1990's, limited overexcavation work, soil boring, well installation, and sampling activities, soil gas sampling, pilot testing of DPE and ozone injection, selection of DPE, and performance of DPE over time.

Mr. Jaber commented that he inherited the property issues from his parents, and has now been dealing with the situation for over 15 years. Mr. Jaber expressed concerns regarding extending project work beyond the area covered by the original service station. Mr. Detterman explained/discussed the need to evaluate the extent of impact, and in particular expressed concern regarding possible soil gas impacts to the shopping center located immediately west of the former gas station and the possibility of offgassing from a shallow contaminant plume. The group discussed the historically high concentrations of soil gas detected near the former service station building (now a smog shop). Mr. Kowtha indicated that current soil gas concentrations are likely to be substantially lower than historical data from 4-5 years ago due to DPE cleanup.

Additional assessment of groundwater and soil gas was discussed. It was verbally agreed that Stratus will prepare and submit a work plan for additional assessment of shallow soil and soil gas to the west (downgradient) of existing wells MW-5A and MW-6A. The group discussed historical groundwater analytical results from 'direct push' sampling, and the pros/cons of using this type of project approach.

Mr. Kowtha illustrated the locations of underground utilities near the site on his tablet, and information regarding these underground utilities, especially large diameter storm drains within Grant Avenue, were discussed.

Mr. Kowtha indicated his intention to spend funds available at the present time for performing DPE work and not assessment work. It was agreed that a work plan would be prepared promptly, but that implementation of the work plan might be delayed. The intention would be to prioritize spending on DPE remediation right now, while the equipment is already mobilized, and while groundwater levels are low due to the drought. Mr. Bittinger informed the group that groundwater sampling was scheduled to be performed in approximately late July and late October 2015. Stratus indicated that data from these events would be used in the decision making process as to how long to run the DPE system. Mr. Kowtha indicated that he did not wish to use vapor phase contaminant mass extraction rates as the only performance metric by which to evaluate success / failure of DPE, and that significant reductions in contaminant concentrations in groundwater were possible even when high vapor contaminant mass extraction rates were not occurring.

Mr. Detterman discussed data issues, including the 'biasing high' of groundwater analytical results collected by direct push methods, and the 'biasing low' of groundwater analytical results of samples collected from wells that have been used for remediation. Mr. Detterman explained that there was time necessary for contaminants to desorb and reach an equilibrium (asymptotic) condition following an event such as DPE, and that pulsing of remediation events near the end of the lifespan of the technology was important.

The group discussed that site was unlikely to have any issues associated with water supply well impacts, because the nearest known well was approximately 1,150 feet away from the property. The group discussed historical land use near the site, and that this could be a tool in locating 'old' water wells that may never have been destroyed. Mr. Detterman recommended performing a door-to-door survey within approximately 500 feet of the site in order to attempt to locate any undocumented private wells.

ACTION ITEMS

- Prepare a work plan for installation of shallow monitoring wells and soil gas probes to the west of the former station; the work plan would also propose a door-to-door water supply well survey near the site.
- Conduct third and fourth quarter 2015 well sampling, and use data as a basis for the time necessary to operate the DPE system.
- Collect soil gas samples near the former station and near the shopping center after termination of DPE.