

Detterman, Mark, Env. Health

From: J. Glen Smith [Glen.Smith@apexcos.com]
Sent: Monday, April 18, 2016 2:14 PM
To: Detterman, Mark, Env. Health
Cc: Roe, Dilan, Env. Health; Jonathan Redding; Patrick Ellwood; Bob Robitaille
Subject: Supplemental Investigation Field Work Update

Mark,

I wanted to provide a brief update on our field work over the weekend (April 16).

We were successful in completing all 10 soil bores yesterday (long 12 hr day).

Soil samples were collected from all soil bores in accordance with our Work Plan. We collected additional soil samples and selected several additional soil samples for analysis.

Water samples were collected from all proposed locations with the exception of SGI-SB-03, 06, and 10.

We completed temporary piezometers at these three locations and will be onsite to check them for water between 9 – 12 on Monday.

SGI-SB-03, 06, and 10 have been patched and sealed using granulated bentonite to maintain the integrity of the sample location. We will be able to remove sufficient bentonite to check them to see if groundwater has entered into the excavation.

If they have groundwater, we will arrange to collect water samples from them Monday afternoon.

If groundwater is not present at these locations on Monday morning, then we propose we collect soil gas samples from them. We would need to order the sampling materials and this would most likely be completed Wed/Thurs next week.

Once either groundwater or soil gas samples have been collected from these locations, we will grout them closed in accordance with the Work Plan.

SGI-SB-03 and 06 are within the foot print of the proposed stairwell and elevator shaft, respectively. Collecting either water or soil vapor from these locations is important.

SGI-SB-10 is adjacent to a former pre-excavation hot spot the ACEDH was interested in evaluating. Collecting a water or soil vapor sample from this location is not as important as we were able to collect down gradient data.

SGI-SB-10 and 06 are not within a parking space and will not be blocked by cars. We will be able to access without an issue.

SGI-SB-03 is within a parking spot near the lot pay station. We have left a no parking sign here and placed the soil drums against the retaining wall at this location to prevent a car from parking in this one spot.

I'll provide a thorough update and recommendations on completing the work tomorrow after we determine if groundwater is present in these locations.

We inspected soil bores SGI-SB-03, 06, and 10 this morning (April 18) and found the following:

- SGI-SB-03 – soil bore is intact and remains dry
- SGI-SB-06 – soil bore is intact and remains dry
- SGI-SB-10 – soil bore is intact and has 0.8 feet of water in the bottom

Based on this information I recommend that we proceed with to following amended sampling strategy for these key locations:

- SGI-SB-03 – Collect Soil Vapor sample to compare to any concentrations detected in soil samples. Analyze soil vapor sample for VOC's and SVOCs.
- SGI-SB-06 – Collect Soil Vapor sample to compare to any concentrations detected in soil samples. Analyze soil vapor sample for VOC's and SVOCs.
- SGI-SB-10 – Collect Groundwater sample for VOC's (limited water in soil bore) and Soil Vapor samples to compare to any concentrations detected in soil/water samples. Analyze soil vapor sample for VOC's and SVOCs.

The soil bores are open from depth to approximately 2 feet below ground surface. The value of the soil vapor samples will be limited to a "hot > residential ESL" or "not hot < residential ESL" evaluation.

If we do not have soil vapors or soil contaminant concentrations exceeding the residential ESLs then we can say with a high level of confidence that the proposed elevators and stairwells do no pose a pathway concern.

Also, as discussed last week we have identified the following 4 groundwater samples to be expedited on a 24 hr turn around time with the lab for the analyses specified in the Work Plan.

- SGI-GW-01 - southern property line
- SGI-GW-02 - southern property line
- SGI-GW-04 - closest water sample (<5 feet distance) to proposed stairwell in the Southeast corner of the site.
- SGI-GW-08 - adjacent to former waste oil tank location
- SGI-GW-10 - Pre-excavation hot spot (VOCs only due to limited water in the soil bore)

In addition, the soil samples from the following locations were expedited on a 24 hr turn around time with the lab for the analyses specified in the Work Plan.

- SGI-SB-01 - southern property line
- SGI-SB-02 - southern property line
- SGI-SB-08 - adjacent to former waste oil tank location
- SGI-SB-10 - Pre-excavation hot spot soil that had elevated PID field screening detections.

Other soils samples are on a standard 10 day turn around time.

Regards,

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