

## **SKS Ecology Meeting – July 16, 2018**

Meeting Minutes (Rob Roberts, SoundEarth)

Attendees: Dale Myers, Mike Warfel, Rob Roberts, Ryan Bixby, Dave Cook

Intro: Dale started the meeting by noting that residual contaminated soil below 15 feet in the adjacent ROW will need to be addressed before site closure can occur at the SKS Shell Site. SES will need to provide an empirical demonstration as specified under MTCA showing that the residual soil contamination does not pose a threat to groundwater. A successful empirical demonstration would alleviate the need for an environmental covenant.

The final closure report will also need to describe in detail the footing drain and discharge system at the Whittaker building. SES will also need to document Lennar West Seattle Holdings, LLC's ("LMI") Metro sewer discharge permit in the closure report.

Mike asked whether SES or LMI knows current rate of discharge to the Metro sewer system. SES explained that it planned to install a flow meter at the building discharge point.

Dale explained that he was glad SES resolved the well decommissioning issue with Noel Phillip. He said all of the letters and notices would eventually be uploaded to the PPCD website along with the well closure documentation once available.

GW Monitoring: SES summarized the 2Q 2018 groundwater monitoring results and observed trends in concentrations of contaminants of concern. Dale and Mike agreed that the results are looking good. Mike requested that SES's trend charts include a "zoom-in" box with a smaller scale for the last few quarters because the lines as depicted at the meeting appear to be at flat-line zero. Rob asked Dale whether SES can reduce the number of locations for ROW sampling based on monitoring results over the past year or so. Dale responded that he wants to see the results of new wells MW111 and 112 for at least two quarters before reducing the number of locations for ROW sampling. Dale explained that modifying the number of wells sampled could be considered once the results from MW111 and MW112 are obtained.

Dale also explained that SES will need to analyze samples from MW103 in the future even if the only water encountered is end cap water. However, SES should note such condition in the report. If the well continues to be dry, replacement will not be required. However, if the new wells on Alaska Street sidewalk are above applicable MTCA cleanup levels for groundwater, SES may have to replace MW103 with a deeper screen.

Well installation: Rob explained the substantial delay encountered during the SDOT permitting process necessary to install new monitoring wells MW111 and MW112. Dale noted that any communications with other agencies—including SDOT permitting communications--should be summarized in status updates to ensure that there is a record in the event Ecology inquires about delays. Dale noted that Ecology has a new template for progress reports, but that we were not obligated to comply with it since

the SKS PPCD pre-dated the template. SES noted that 3Q groundwater sampling is currently scheduled for September 2018.

Schedule: SES proposed a discussion of the cleanup schedule. Dale stated that the project is “on schedule.”

Completion Strategy: Dale reiterated that SES needs to address residual soil contamination in the adjacent right-of-way through an empirical demonstration that the soil is not a threat to groundwater. Dale indicated that he and Bob Warren had discussed this issue.

In closing Dale noted that SES is doing a good job and that he was comfortable with the progress and schedule. Dale noted that the cleanup is in “monitoring mode” and that compliance groundwater monitoring should continue for now. Dale also noted that he is confident that contaminant concentrations will continue to degrade and that chemical injections are not required at this time. However, if groundwater does not continue to degrade after 5 years, then in-situ groundwater injections may be required.

Dale requested an updated contact list, especially when LMI gets close to closure.

Huling Site VCP review: Mike had not yet reviewed the Huling Cleanup Action Report. SES gave a summary of the cleanup:

- all on-property impacted soil was removed;
- groundwater sampling performed before soil removal demonstrated that it is MTCA compliant; and
- results obtained from new well MW113 located generally in the Kennedy UST area are non-detect for all COCs.