From:	Becker, Sunny (ECY)
Sent:	Monday, May 16, 2016 8:14 AM
To:	katherinebeeler@gmail.com
Cc:	Lui, Nancy (ECY)
Subject:	RE: Plastic Sales and Service Site - Public Comments

Hi Katherine,

Thanks for submitting comments on Plastic Sales cleanup site in Greenlake area, Seattle. Here are my responses to your comments. Please let me know if you have further questions.

Sunny Becker
Department of Ecology, Toxics Cleanup Program

Comment: The selected alternative includes ERH treatment and excavation to a depth of 16 ft bgs, but groundwater and soil contamination extends below 16 ft bgs. How will you ensure that the remaining soil at depth is remediated?

Response: Any contamination in the soil at depth will remain in place as part of a containment remedy. To insure the remedy is protective, an Environmental Covenant will be filed within 30 days of the completion of thermal treatment. Also, the building will have a vapor barrier and a passive venting system.

Comment: Given that the hydraulic conductivity is low in several areas, how will you ensure that the ERD substrate will be able to penetrate the aquifer and reach areas at a distance from the injection sites?

Response: The RI report indicates that the shallow aquifer has low hydraulic conductivity. However, contamination in the shallow groundwater continued to migrate down gradient. At this time, the extent of the shallow groundwater appears to be limited in the vicinity of Woodlawn Street. There is indication that the substrate from the ERD injection will find its way to the contamination in the groundwater down gradient as the contamination did. In addition, the proposed injection has a good coverage of the known groundwater contamination. There will be two rows of injection wells. One row along Woodlawn Street near the source, and another row along the North side of Woodlawn Street down gradient from the source. The two existing monitoring well in the middle of Woodlawn will also be used as injection wells.

Comment: What steps will be taken to prevent biofouling?
Response: If biofouling is observed at the site, the injection wells will be treated by mechanical agitation, by surging, water jetting, scrubbing, and/or air sparging to remove the fouling agent. Ethyl lactate, which functions as a surfactant, can be added to the well to scrub away the fouling agent. In addition, we can flush the wells with water to remove suspended or soluble debris that have been physically removed by mechanical agitation.

Comment: How will indoor air contamination during the treatment process be prevented?
Response: There will be no building on site when thermal treatment is in process.

From: Katherine Beeler [mailto:katherinebeeler@gmail.com]
Sent: Monday, March 28, 2016 6:27 PM
To: Becker, Sunny (ECY) <HLIN461@ECY.WA.GOV>
Subject: Plastic Sales and Service Site - Public Comments

Please see my comments on the Draft Final Revised Remedial Investigation/Feasibility Study Addendum, Plastic Sales and Service Site (March 9, 2016) below.

The selected alternative includes ERH treatment and excavation to a depth of 16 ft bgs, but groundwater and soil contamination extends below 16 ft bgs. How will you ensure that the remaining soil at depth is remediated? Given that the hydraulic conductivity is low in several areas, how will you ensure that the ERD substrate will be able to penetrate the aquifer and reach areas at a distance from the injection sites? What steps will be taken to prevent biofouling? How will indoor air contamination during the treatment process be prevented?

Thank you for your time.

Katherine Beeler
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