

Wickham, Jerry, Env. Health

From: PDKing0000@aol.com
Sent: Friday, July 18, 2008 10:42 PM
To: Wickham, Jerry, Env. Health
Subject: RO357 Snow Cleaners Proposed Creek Bank Groundwater Sampling
Attachments: Creek Bank Groundwater Proposed Sampling Locations.pdf

Hi Jerry,

Following review of water sample results recently provided to you on 7/17/08 for boreholes B25, B26 and B27 for RO 357 Snow Cleaners, P&D proposes to determine if Stoddard solvent-range compounds and HVOCs detected in sample B26 (located in the creek bank) are encountered at other locations along the creek bank. A pdf of a map showing proposed borehole locations is attached with this e-mail (document Creek Bank Groundwater Proposed Sampling Locations.pdf).

As we discussed on the telephone on 7/17/08 short portions of the west side of the creek are not lined with concrete, specifically in the vicinity of borehole B26, proposed borehole B30, and proposed borehole B31. Although HVOCs and Stoddard solvent-range compounds were not detected in groundwater samples from boreholes B25 and B27, HVOCs were detected in groundwater samples collected from both boreholes B10 and B26, and Stoddard solvent-range compounds were detected in the groundwater sample from borehole B26. It is unclear if the petroleum and HVOCs detected in the groundwater sample from borehole B26 originated from upstream surface water dumping in the creek, or is from daylighting groundwater at the creek bank in the vicinity of borehole B26.

To investigate the possibility of the detected compounds in borehole B26 originating from a groundwater plume, proposed borehole B29 will be hand augered at a location approximately 15 feet horizontally from B26 as measured perpendicular to the creek bank.

To investigate the possibility of the detected compounds in borehole B26 being located elsewhere along the creek bank, proposed borehole B30 will be hand augered at the creek bank at a location in the vicinity of borehole B26 where the creek bank is not lined with concrete. The absence of concrete lining for the portion of the creek in the vicinity of borehole B26 and proposed borehole B30 may offer less resistance to groundwater flow in the vicinity of the creek, resulting in preferential movement of groundwater towards this unlined portion of the creek bank. Similarly, proposed borehole B31 will be hand augered in the creek bank at a nearby upgradient portion of the creek where the western bank of the creek is similarly unlined.

To investigate the possibility of the detected compounds in borehole B26 originating from the creek, proposed borehole B32 will be hand augered at the creek bank at a location upstream of borehole B26 where the creek bank is not lined with concrete. The proposed location is intended to be far enough upstream as to be outside of the possible perimeter of a petroleum and HVOC plume that could have originated at Snow Cleaners.

Groundwater was encountered at a depth of approximately 3 feet in boreholes B26 and B27, and very strong sulfurous odors and very dark gray and green discoloration were encountered in the soil beginning at a depth of approximately 1.5 feet below the ground surface in both boreholes. The absence of discoloration, odors and detectable concentrations of petroleum and HVOCs in upgradient borehole B25, in conjunction with the presence of oil-range compounds in the groundwater sample from borehole B27 and in conjunction with the suspected high organic content of the discolored and odiferous soil in the boreholes suggests that organic matter detected in the creek bank borehole groundwater samples from B26 and B27 could be related to historic upstream dumping of oil in the creek.

All of the groundwater samples will be collected from the boreholes using a new, clean polypropylene disposable bailer. The samples will be handled in accordance with procedures described in previous work plans for investigation of the Snow Cleaners site. Analysis will be performed for TPH (G, D, SS, BO) and for EPA 8260B compounds on a normal (5 business day) turn around basis. Copies of the sample results will be forwarded to you when they are received from the laboratory.

Please let me know if you have any questions. Thank you!



Best Regards,
Paul King
P&D Environmental, Inc.

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Creek Bank Groundwater Proposed Sampling Locations

LEGEND

- B27  Existing Borehole
- B32  Proposed Borehole

