

Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Thursday, December 09, 2010 9:03 AM
To: 'Ricky Bradford'
Cc: 'Stephen Lao'; Peter McIntyre; Robert Flory
Subject: RE: Low-Flow Sampling, Vic's Auto, 245 8th Street, Oakland, CA

Ricky,

We have no objections to the use of low-flow sampling for future groundwater monitoring.

Regards,
Jerry Wickham
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From: Ricky Bradford [<mailto:rbradford@aeiconsultants.com>]
Sent: Wednesday, December 08, 2010 4:38 PM
To: Wickham, Jerry, Env. Health
Cc: 'Stephen Lao'; Peter McIntyre; Robert Flory
Subject: Low-Flow Sampling, Vic's Auto, 245 8th Street, Oakland, CA

Good Afternoon Jerry –

During the previous quarterly monitoring event we conducted a study to compare the results of low-flow sampling with traditional sampling on sample-related turbidity and apparent hydrocarbon concentrations. The field activities and results were reported in the “Quarterly Site Monitoring Report (Third Quarter, 2010)”, dated October 30, 2010. An electronic version of this report can be found on GeoTracker. We discovered that the traditional purge samples collected from the source zone (MW-1, MW-6, and MW-7) contained a significant amount of petroleum-affected turbidity as an artifact of the sampling process. Sample-related turbidity was either significantly reduced or eliminated in the low-flow samples. We concluded that the reported concentrations for the low-flow samples collected in the source zone were more representative of the actual dissolved-phase concentration than the traditional samples because petroleum-affected turbidity (non-dissolved petroleum) was significantly reduced in most of the samples. Furthermore, groundwater data outside the source zone (MW-2, MW-5, and MW-9) showed no significant differences between the two sampling methods. Therefore, we recommended switching over to low-flow sampling starting with the fourth quarter, 2010 monitoring event. Before I issue the work order for the next monitoring event, I wanted to know if you concur with our conclusions and recommendation to switch over to low-flow sampling. Please call me if you have any questions or would like to discuss in more detail.

Best Regards,

Ricky Bradford
Project Engineer

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