

## Wickham, Jerry, Env. Health

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**From:** Wickham, Jerry, Env. Health  
**Sent:** Wednesday, December 11, 2013 8:22 AM  
**To:** 'Bob Clark-Riddell'  
**Subject:** RE: 1230 14th Street

Bob,

Thanks for the analysis. Based on the seasonal results for the site, I anticipate that additional groundwater sampling during the first quarter 2014 will not be required. Please submit the latest results and your recommendations in the fourth quarter 2013 groundwater monitoring report.

Regards,  
Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
phone: 510-567-6791  
[jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)

-----Original Message-----

From: Bob Clark-Riddell [<mailto:briddell@pangeaenv.com>]  
Sent: Tuesday, December 10, 2013 2:31 PM  
To: Wickham, Jerry, Env. Health  
Subject: RE: 1230 14th Street

Jerry,

I would agree with your general conclusion. I have hypothesized that during the highest water table elevation that rainwater infiltrates the former UST pit and open area and essentially dilutes site groundwater, resulting in very low seasonal hydrocarbon concentrations. The highest hydrocarbon concentrations are when groundwater elevation is near historic low or slightly above the historic low (when groundwater is slightly higher and intersecting shallower residual impact without being diluted).

Bob Clark-Riddell, P.E.  
Pangea Environmental Services, Inc.  
510.435.8664

-----Original Message-----

From: Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]  
Sent: Monday, December 09, 2013 8:59 AM  
To: Bob Clark-Riddell  
Subject: RE: 1230 14th Street

Bob,

In comparing seasonal sampling events, it appears that historic site concentrations are generally higher during the low water sampling events than during high water sampling events. Would you agree with this general conclusion regarding seasonal fluctuations for the site?

Regards,  
Jerry Wickham

Alameda County Environmental Health

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From: Bob Clark-Riddell [briddell@pangeaenv.com]  
Sent: Wednesday, December 04, 2013 2:33 PM  
To: Wickham, Jerry, Env. Health  
Subject: FW: 1230 14th Street

Hello Jerry,

In accordance with your July 11, 2013 letter, Pangea performed two additional post-remediation quarterly monitoring events. The events were performed on July 25, 2013 and October 20, 2013. The report is under preparation. At present our vendor would like to remove the DPE remediation equipment, but I thought it best to consult you first.

The tabulated results are attached for your consideration. We have not observed a significant rebound, but all post-remediation monitoring results are shortly after shutdown or when groundwater is near seasonal low. Do you anticipate requiring a monitoring event during the first quarter 2014 to evaluate rebound during seasonal high water table elevation (assuming sufficient precipitation)? Or are you satisfied with post-remediation data?

Any comments before we remove the DPE equipment? Thank you in advance.

Bob Clark-Riddell, P.E.  
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