From: Yen-Vy Van
To: Rob Rau
Subject: RE: Former Smitty Conoco #140 (EPA ID 4260087) - Oct 2012 Quarterly Report
Date: 01/08/2013 05:47 PM

[attachment "Smitty Conoco Oct 2012 GW Event Report 010913.pdf" deleted by Rob Rau/R10/USEPA/US]

Hi Rob

I agree with your point on chloride. We had it recommended by Regenesis as an additional indicator parameter to monitor – perhaps to evaluate for a charge balance during major ion analysis. We'll change the parameter to ferrous iron for the next groundwater event (late January 2013). It'll be a better indicator for degradation of BTEX compounds. Thank you for pointing that out. The final report for the October 2012 Quarterly Event is attached. I've also emailed it to the Yakama Nation.

Yen-Vy

From: Rau.Rob@epamail.epa.gov [mailto:Rau.Rob@epamail.epa.gov]
Sent: Thursday, January 03, 2013 8:26 AM
To: Yen-Vy Van
Subject: RE: Former Smitty Conoco #140 (EPA ID 4260087) - DRAFT Oct 2012 Quarterly Report

Hi Yen-Vy. The quarterly report looks good. Thank you! During future events it will be interesting to see what the VOCs trends are. One question - on page 3 you note electron acceptors such as nitrate, sulfate and chloride will be monitored for in future events. Not sure about chloride, is that more of a metabolic by product (mostly for chlorinated VOCs) rather than an electron acceptor. For a petroleum site, what useful geochemical information can be gleamed from looking at chloride trends?

Cheers

Rob
****

Rob Rau
U.S. EPA, Region 10
Office of Compliance & Enforcement, Ground Water Unit
1200 6th Ave, Suite 900, OCE-082
Seattle, WA 98101
tel: (206) 553-6285
fax: (206) 553-0151
email: rau.rob@epa.gov
R10 Tanks: http://www.epa.gov/r10earth/ust.htm

R10 Dive Unit: http://www.epa.gov/region10/dive

****

Yen-Vy Van ---12/28/2012 04:09:03 PM---Thank you Rob. Have fun bringing in 2013. Happy New Year! From: Rau.Rob@epamail.epa.gov [mailto:Rau

From: Yen-Vy Van <Yvan@aegwa.com>
To: Rob Rau/R10/USEPA/US@EPA
Date: 12/28/2012 04:09 PM
Subject: RE: Former Smitty Conoco #140 (EPA ID 4260087) - DRAFT Oct 2012 Quarterly Report

---

Thank you Rob. Have fun bringing in 2013. Happy New Year!

From: Rau.Rob@epamail.epa.gov [mailto:Rau.Rob@epamail.epa.gov]
Sent: Thursday, December 27, 2012 2:33 PM
To: Yen-Vy Van
Subject: Re: Former Smitty Conoco #140 (EPA ID 4260087) - DRAFT Oct 2012 Quarterly Report

Thanks Yen-Vy. I'll have a look and get back you if I have any comments.

Rob
****

Rob Rau
U.S. EPA, Region 10
Office of Compliance & Enforcement, Ground Water Unit
1200 6th Ave, Suite 900, OCE-082
Seattle, WA 98101
tel: (206) 553-6285
fax: (206) 553-0151
email: rau.rob@epa.gov
R10 Tanks: http://www.epa.gov/r10earth/ust.htm
R10 Dive Unit: http://www.epa.gov/region10/dive

****

Yen-Vy Van ---12/26/2012 11:44:09 AM---Hi Rob I hope you had a nice Christmas. Please find attached for your review the DRAFT report for t

From: Yen-Vy Van <Yvan@aegwa.com>
To: Rob Rau/R10/USEPA/US@EPA
Date: 12/26/2012 11:44 AM
Subject: Former Smitty Conoco #140 (EPA ID 4260087) - DRAFT Oct 2012 Quarterly Report

---

Hi Rob

I hope you had a nice Christmas. Please find attached for your review the DRAFT report for the October 2012 Quarterly Groundwater Event for the former Smitty Conoco #140 at Toppenish, WA.

I didn't prepare graphs to show trend for the benzene or other VOC as the data is not as clear as the TPH-G in terms of showing steady biodegradation (refer to Figure 2). Additional water quality parameters (nitrate, sulfate, and chloride) will be collected during the January 2013 quarterly event – we'll be comparing those results with the July 2012 results for assessment of overall biodegradation four to nine months after completion of the 2nd Phase IRA – Bioremediation work.

Please let me know if you've any questions. Thank you.

Sincerely,
Yen-Vy

Yen-Vy Van, P.G., P.H.G.
Principal Hydrogeologist
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501
360-352-9835/fax 8164
Cell: 360-507-2810
[attachment "Smitty Conoco Oct 2012 GW Event Report DRAFT 122612.pdf" deleted by Rob Rau/R10/USEPA/US]