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Ravi Sanga/R10/USEPA/US
07/20/2009 05:37 PM

To Susan McGroddy <SusanM@windwardenv.com>, tad@windwardenv.com

cc Marina Mitchell <MarinaM@windwardenv.com>, dan berlin <dberlin@anchorenv.com>, "Dave Schuchardt (Dave.Schuchardt@Seattle.Gov)" <Dave.Schuchardt@Seattle.Gov>, "Debra Williston (b) (6) "Debra Williston (debra.williston@kingcounty.gov)" <debra.williston@kingcounty.gov>, Gary Pascoe <(b) (6) t>, "Jeff Stern (jeff.stern@kingcounty.gov)" <jeff.stern@kingcounty.gov>, Lisa Gagnon <lgagnon@anchorenv.com>, Nancy Judd <NancyJ@windwardenv.com>, "Pete Rude (pete.rude@seattle.gov)" <pete.rude@seattle.gov>, Scott Becker <sbecker@integral-corp.com>, Susan McGroddy <SusanM@windwardenv.com>, "twang@anchorenv.com" <twang@anchorenv.com>, Maja Tritt/R10/USEPA/US@EPA, Gina Grepo-Grove/R10/USEPA/US@EPA, Lon Kissinger/R10/USEPA/US@EPA, Peter Leon <PLeon@parametrix.com>

bcc

Subject Re: Additional clam tissue analyses

Susie and Tad -- EPA does not accept the EWG proposed reporting limits for additional clam tissue analysis for EW. EPA has modified the table provided by the EWG, to include the minimum detected concentration for EW SVOCs of concern from the Lower Duwamish project. Cells shaded in red are where the minimum detected LDW concentration is well below the proposed EW RL. Cells shaded in yellow are where the minimum detected LDW concentration is slightly above the proposed EW RL. Cells shaded in green are where the minimum detected LDW concentration is well above the proposed EW RL. The MDLs from the LDW benthic invertebrate QAPP are also included for reference. Please use the same methodology for the new EW analysis as was used for the benthic invertebrate study for the LDW project.

As an additional comparison, the Lockheed West table that includes MDLs and RLs is also being provided (let me know if the format for the LW table is lost and I will resend as an attachment). Generally, RLs for the LW project are a factor of 10 below those proposed for the EW project.

Greater effort must be made by the EWG to achieve the Lowest Detected Values from the LDW Project. Prior to analyzing any samples please consult with EPAs QA office (Gina Grepo-grove @ 206 553 1632 or Maja Tritt @ 206 553 6265).

Please let me know if you have any questions.

Thanks

SVOC Reporting Limits_LDW.doc

Reported cPAH concentrations, reporting limits, and method detection limits for Macoma samples from the Lockheed West project.. Samples analyzed using 8270c, low level.

Contaminant	Reported Concentrations, mg/kg	RL	MDL

USEPA SF
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Benzo(a)anthracene	0.017	0.17	0.12	0.0005	0.000066
Benzo(a)pyrene	0.012	0.099	0.14	0.0005	0.000081
Benzo(b)fluoranthene	0.02	0.17	0.21	0.0005	0.00007
Benzo(k)fluoranthene	0.007	0.054	0.065	0.0005	0.000056
Chrysene	0.03	0.19	0.17	0.0005	0.000076
Dibenzo(a,h)anthracene	0.0015	0.0087	0.011	0.0005	0.000059
Dibenzofuran	0.0007	0.011	0.0058	0.0005	0.00013
Indeno(1,2,3-cd)pyrene	0.0077	0.032	0.036	0.0005	0.00064
2-methyl naphthalene	0.00061 J	0.0024	0.0027	0.00099	0.00044

Ravi Sanga, MS
Environmental Scientist - Remedial Project Manager
US EPA Region 10
Office of Environmental Cleanup
phone: (206) 553-4092
fax: (206) 553-0124

Susan McGroddy We are planning to do additional analyses on th... 07/16/2009 01:36:57 PM

Susan McGroddy <SusanM@windwardenv.com>

07/16/2009 01:36 PM

To Ravi Sanga/R10/USEPA/US@EPA, Maja Tritt/R10/USEPA/US@EPA, Lon Kissinger/R10/USEPA/US@EPA

cc Marina Mitchell <MarinaM@windwardenv.com>, dan berlin <dberlin@anchorenv.com>, "Dave Schuchardt (Dave.Schuchardt@Seattle.Gov)" <Dave.Schuchardt@Seattle.Gov>, "Debra Williston (b) (6) "Debra Williston (debra.williston@kingcounty.gov)" <debra.williston@kingcounty.gov>, Gary Pascoe <(b) (6) "Jeff Stern (jeff.stern@kingcounty.gov)" <jeff.stern@kingcounty.gov>, Lisa Gagnon <lgagnon@anchorenv.com>, Nancy Judd <NancyJ@windwardenv.com>, "Pete Rude (pete.rude@seattle.gov)" <pete.rude@seattle.gov>, Scott Becker <sbecker@integral-corp.com>, Susan McGroddy <SusanM@windwardenv.com>, "twang@anchorenv.com" <twang@anchorenv.com>

Subject Additional clam tissue analyses

We are planning to do additional analyses on the remaining clam tissue samples to achieve lower reporting limits for PAHs, bis-2-ethyl hexyl phthalate and pentachlorophenol. The samples will be analyzed at ARI. The samples will be reanalyzed for PAHs and bis-2-ethyl hexyl phthalate by EPA 8270-SIM and the pentachlorophenol will be reanalyzed by EPA 8041/8151. The existing RLs and the anticipated RLs for these analyses are compared to the ACGs for these chemicals in the attached spreadsheet. The holding times for these samples will expire July 29- August 1 so we will instruct the lab to extract the samples next week. Please let me know if you have any questions or concerns regarding these analyses. I am on vacation starting July 17th

and Marina Mitchell (812-5424) will be available to answer questions while I am gone next week.

Thanks.
Susie

Comparison of target reporting limits and ACGs.doc

Comparison of target reporting limits and ACGs (from Clam QAPP, Appendix C)

Analyte	Detection Frequency and Lowest Detected Value from the LDW Project	MDL for LDW Benthic Invert. QAPP	Observed RL[a]	Proposed RL[b]	Clam Tissue ACG (mg/kg ww)[b]	Receptor with ACG lower than MDL
EPA Method 8270D						
PAHs						
Acenaphthene			0.058-0.420	0.005	5.0	
Acenaphthylene			0.058-0.420	0.005	na	
Anthracene			0.058-0.420	0.005	25	
Benzo(a)anthracene	14/14, 0.012	0.00013	**0.058-0.420**	**0.005**	0.0011	humans
Benzo(a)pyrene	14/14, 0.003	0.00014	**0.058-0.420**	**0.005**	0.00011	humans
Benzo(b)fluoranthene	14/14, 0.007	0.00014	**0.058-0.420**	**0.005**	0.0011	humans
Benzo(k)fluoranthene	14/14, 0.006	0.00015	**0.058-0.420**	**0.005**	0.011	humans
Benzo(g,h,i)perylene			0.058-0.420	0.005	na	
Chrysene	14/14, 0.02	0.00015	0.058-**0.420**	0.005	0.11	humans
Dibenzo(a,h)anthracene	14/14, 0.00063	0.00018	**0.058-0.420**	**0.005**	0.00011	humans
Dibenzofuran	14/14, 0.0006	0.0002	0.058-**0.420**	0.005	0.084	humans
Fluoranthene			0.058-0.420	0.005	3.4	
Fluorene			0.058-0.420	0.005	3.4	
Indeno(1,2,3-cd)pyrene	14/14, 0.002		**0.058-0.420**	0.005	0.011	humans
1-Methylnaphthalene			0.058-0.420	0.005	na	
2-Methylnaphthalene	14/14, 0.0004		0.058-**0.420**	0.005	0.34	humans
Naphthalene			0.058-0.420	0.005	1.7	
Phenanthrene			0.058-0.420	0.005	na	
Pyrene			0.058-0.420	0.005	2.5	
Total PAHs[b]			0.058-0.420	0.005	4.0	

Analyte	Detection Frequency and Lowest Detected Value from the LDW Project	MDL for LDW Benthic Invert. QAPP	Observed RL[a]	Proposed RL[b]	Clam Tissue ACG (mg/kg ww)[b]	Receptor with ACG lower than MDL
Other SVOCs						
bis(2-ethylhexyl)phthalate	10/14, 0.056		0.058-**0.420**	**0.07-0.13**	0.058	humans
Pentachlorophenol	0/14, 0.39 RL		**0.290-2.100**	0.005	0.0067	humans

Note: Actual RLs will vary based on the amount of sample volume used for each analysis, matrix interferences, and the analytical dilution.

RLs in **bold** exceed the ACG.

[a] RLs from initial analysis by EPA 8270

[b] Proposed RLs for reanalysis by EPA 8270SIM (PAHs and bis(2-ethylhexyl)phthalate)and EPA 8041/8151 (pentachlorophenol)

ACG – analytical concentration goal

MDL – method detection limit

RL – reporting limit