

**From:** Carl Hadley [<mailto:carl.hadley@frontier.com>]  
**Sent:** Tuesday, May 28, 2013 12:57 PM  
**To:** 'Greg Challenger'; 'Ian J Zelo - NOAA Federal'; 'Hampton, Polly (Perkins Coie)'  
**Subject:** FW: K1304125 Adak Petroleum ADAK 2013

Here are the results direct from the lab. I quickly compiled the data into the following table with no guarantee of absolute accuracy. Especially for the PAH values. I simply summed up all the results for each sample there. But I'm not sure if that is what "PAH total" is getting at. Please correct me if I am wrong. I also didn't review the testing notes too carefully so there may be some explanation for the odd high value.

Only the samples at Location #1 came from barrels. The rest came from the ground near the stream.

Carl  
 Carl Hadley | [Cedarock Consultants, Inc.](#) | [425-788-0961](tel:425-788-0961)

		Thresholds / Limits		Results		
Symbol	Contaminant	TEL <sup>1</sup>	LEL <sup>1</sup>	Loc #1	Loc #2	Loc #3/4
As	Arsenic	5900		4870	3980	3290
Cd	Cadmium	596		479	524	999
Cr	Chromium, total	37300		13600	19600	10200
Cu	Copper	35700		135000	525000	114000
Pb	Lead	35000		55900	11500	18700
Hg	Mercury	174		90	59	150
Ni	Nickel	18000		12400	21400	14200
	PAHs, total (QM calculated)		4000	47	25	179
	PCBs, total (QM calculated)	34.1		31	ND	39
Zn	Zinc	123000		237000	123000	178000
<sup>1</sup> TEL – Threshold Effect Level; LEL – Lower Effect Level						
ND - Not detected						

\*note in the email correspondence an error was in the original chart. For this documentation only the corrected chart is shown.

**From:** Carl Hadley [<mailto:carl.hadley@frontier.com>]  
**Sent:** Monday, June 03, 2013 11:29 AM

**To:** 'Ian J Zelo - NOAA Federal'  
**Cc:** 'Greg Challenger'; 'Hampton, Polly (Perkins Coie)'  
**Subject:** Adak Petroleum Sediment

Ian,

During a conference call last week to discuss results of the sediment sample analysis, we discussed the potential for increased copper levels in Helmet Creek. We agreed that the presence of copper in samples collected near Helmet Creek is not related to the Adak Petroleum spill, but future copper levels in the creek may be affected by certain Restoration Work activities (e.g., old barrel removal; soil or sediment movement). In order to monitor the potential increase in copper levels in Helmet Creek during and after completion of the Restoration Work, we discussed having Adak Petroleum complete additional water quality sampling. Adak proposes the following:

Adak Petroleum will agree to:

- Collect one water quality sample from Helmet Creek downstream of Site #1 immediately prior to any restoration work being completed at Sites #1 - #4.
- Collect one water quality sample from Helmet Creek downstream of Site #1 within one day after restoration work is completed at Sites #1 - #4.
- Pay to have these two samples shipped and processed for copper by ALS Global (or equivalent), plus one more to be collected by the Trustees for a total of three samples.

The Trustees will agree to:

- Collect and ship one water quality sample from Helmet Creek downstream of Site #1 during the scheduled monitoring visit approximately one year after completion of the restoration work.

The results of the water quality sampling will not be used to modify any aspect of the consent decree or the Helmet Creek Restoration and Monitoring Work Plan; however, we understand that the results may be used as part of further discussions with the Navy regarding general clean-up of the area.

If agreeable to the Trustees, please respond to this email and we will proceed as proposed.

**Carl Hadley** | Cedarock Consultants, Inc. | [425-788-0961](tel:425-788-0961)

**Ian J Zelo - NOAA Federal**

Jun 4

to carl.hadley, Greg, Polly, bradley.dunker, dale.gardner, me, Jennifer, Michael, samant ha.carro., Veronica, Kate, mary.baker

Carl,

I have spoken with other NOAA reps, USFWS, ADFG, ADOL, ADEC and ADNR. Everyone agrees that the proposal laid out below is agreeable. Can you clarify the cost portion of the sampling conducted at the time of monitoring?

Thanks,

IZ

Ian Zelo  
Oil Spill Coordinator - DWH Fish/Oyster TWG Lead  
NOAA - Assessment and Restoration Division

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