From:	Kady, Thomas
To:	Coltrain, Katrina; Prince, George; Todd.Downham@deq.ok.gov
Cc:	jonathan.d.mcburney@lmco.com
Subject:	FW: Wilcox QAPP
Date:	Friday, November 06, 2015 7:49:55 AM
Attachments:	SERAS-277-DQAPPR1-110515.docx

Revised QAPP.

Katrina, pls see Jon's comments below regarding your comments.

Jon/Katrina – I think we can determine groundwater flow using the CPT dissipation tests. We have a significant elevation change in topography at the site. We also seem to have a relatively consistent clay layer. With all the borings we'll do across the site, I expect determining groundwater flow in the overburden will be straightforward.

Tom

From: Mcburney, Jonathan D [mailto:jonathan.d.mcburney@lmco.com]
Sent: Thursday, November 05, 2015 4:08 PM
To: Kady, Thomas <Kady.Thomas@epa.gov>
Cc: richard.m.leuser@lmco.com
Subject: Wilcox QAPP

Tom,

Here is the latest QAPP. It is still draft, but should address pretty much everything at this point. I have incorporated most of Katrina's comments. I did not do the following (along with why):

I left Katrina at the top of the Org chart as we consider her "Your client". As far as we are concerned, information flows from us to you to her.

We left her on the project sign off sheet as well. This is a courtesy that we extend so that she can certify that she has read the QAPP. It in no way means that she must sign.

She mentions using the temporary wells to determine GW flow. I am somewhat leery of using them for this purpose simply because of the need for very accurate elevation data to properly determine slopes. The size of the site may make this very difficult. I'm not worried if my elevation of CPT/ROST or DPT holes are off by even as much as 6 inches, because in the grand scheme that will be fine (and we will get much better than 6 inches). For wells, we would need .1 ft or less accuracy.

The last item was the "analyte list" for field XRF. Right now we show Arsenic and Lead. We can add many others, but I wanted to discuss the pertinent metals with the team.

Jon McBurney
Project Engineer
Lockheed Martin/SERAS Contract
2890 Woodbridge Avenue
Edison, NJ
609-937-9116