

Attendees: John Izbicki (USGS), Matt Landon (USGS), Glenn (USGS via Phone), Halil Kavak (PNL), Raudel Sanchez (PNL), Chris Maxwell (Stantec), Dennis Maslonkowski (CH2MHill), Anne Holden (Water Board via Phone)

The main topic of the January 21, 2014 Technical Working Group (TWG) Background Study (BGS) Technical Exchange Meeting (TEM) in San Diego was a discussion regarding the USGS contract with the Water Board and the allocation of tasks for the BGS:

**USGS BGS Contract:**

Anne Holden is currently working on the USGS BGS field work contract. According to Anne the contract may take up to six months to get completed by both parties. Anne suggested that an interim solution may be to amend the current (contract was to develop the scope of work for the BGS by John) USGS and Water Board contract by expanding the length of the contract and adding additional funds. Amending the current contract may take up to three months to get completed. As a result USGS does not have the ability to spend any funds on equipment or travel until a contract with sufficient funds is in place.

USGS suggested using the USGS Matching Funds in the beginning of the BGS to purchase equipment and fund travel expenses. USGS also suggested an alternative solution to expedite the interim funding to the BGS by having the funding go through PNL. PNL agreed that this can be a possibility and will discuss this alternative with the CAC during the next CAC / IRP Manager Meeting scheduled for January 30, 2014. A USGS and PNL contract for the BGS will be for six months or until the larger USGS Water Board contract is completed. A USGS and PNL contract will need to go through USGS ethics for review. This alternative seems to be the most probable to expedite the funding for USGS for the BGS.

Anne has completed the MOU between the Water Board and PG&E for the BGS. The Water Board has approved the MOU and has sent it to PG&E for their approval. Approval of the MOU is expected in the next couple of weeks.

John submitted his BGS proposal for USGS approval. The BGS proposal was approved by USGS with only small modifications.

**BGS Task Allocation:**

USGS, CH2MHill, Stantec and PNL reviewed the task allocation table (See attached table) for the BGS that was prepared by John. All parties were in agreement with the tasks allocation table and assigned tasks.

John mentioned that there might be a May deliverable, 4 page Fact Sheet for the CAC providing detail about the work that has been performed through May. The Fact Sheet will be in a draft version and will be issued pending the status of the BGS contract.

*Task 1: Evaluation of existing data*

Dennis provided John the most current CH2MHill water quality database. John requested additional water quality data for domestic wells (number of data points for water quality results for domestic wells) and a table summarizing historical and current analytical labs used at Hinkley, groundwater collection procedures, analytical methods and QA/QC procedures. John stated that this information is required to perform the appropriate statistical analysis. Dennis will provide John the additional information requested for Task 1.

No work plan will be prepared for Task 1. John will provide a bullet list describing his statistical approach for Task 1 during the February 12 TWG BGS TEM.

*Task 2: Analysis of Rock and Alluvium*

Chris provided John a map and log of cores samples PG&E has in storage. John will review the map and log and will identify cores samples that will be used for the BGS. John will provide Chris a list of cores samples for the BGS and USGS will pick up the core samples from PG&E storage.

*Task 3: Collection and Analysis of Water*

CH2MHill will provide field support to USGS to collect groundwater samples. CH2MHill will extract groundwater from the well and USGS will provide all samples containers. BGS sampling event will be a separate sampling event from the quarterly groundwater event required by the Water Board. CH2MHill may take split samples with USGS at some of the wells, decision is still pending. The first USGS groundwater sampling event is tentatively scheduled for July, pending the outcome of the larger USGS and Water Board Contract.

*Task 5: Evaluation of Groundwater Movement*

John stated that Chris Stamos is currently working on the updated the USGS Modflow Model. Results of the updated USGS Modflow Model may be presented in the next TWG TEM BGS on February 12.

*Task 7: Estimation of Background Cr*

The final background number or numbers and how it will be determined was discussed. Chris and Dennis suggested that the sampling event to estimate the background number or numbers be initiated. John suggested the TWG wait until some interim results are reported from the BGS.

**Data Management:**

USGS generated data will be posted on the USGS server for the TWG and the public. CH2MHill and Stantec generated BGS data will be supplied to USGS via PNL. PNL will provide data and technical support to USGS. To ensure that BGS data is representative of the actual well collected, a universal agreed well numbering system will be established to identify data generated by PG&E and USGS. Additional discussion with PG&E regarding PNL scope of work for data management will be held in the next few weeks.

**Action Items:**

Anne will check with Water Board contract personnel if the current contract can be amended by increasing the length of the contract and adding additional funds. If the current contract can not be amended in a reasonable time then USGS and PNL will prepare a contract where the funds for the BGS will go through PNL to the USGS.

Dennis will provide John a summary of the number of water quality data measurements for domestic wells. Dennis will prepare a table summarizing the history of analytical labs used for groundwater analysis, groundwater collection procedures, groundwater analytical methods, QA/QC procedures at Hinkley. Dennis / Chris will also provide any GINT files to John.

John will review the log of cores available for the BGS from Stantec. John will select the cores and Stantec will set aside the cores selected by John. USGS will send personnel to Hinkley to pickup the cores once they are selected.