Dimock Groundwater Site – Summary of Lab Efforts

1/10/2012

Analytical Parameters

Table 1 from Sampling Plan is complete. Latest version is on I: directory

R3 lab – Metals, VOAs, SVOCs, Anions, TP, NO2/NO3, TDS/TSS, ~~Alk~~, Glycols, Alcohols, O&G

R3 lab – After review of TestAmerica results the alcohols (including ethylene glycol and 2-methoxyethanol) will be analyzed primarily by SW-846 8015B. The QL is 10ppm. LC/MS/MS okay tentatively okay for 2-methoxyethanol (ppb); Assessing GC/MS (SVOCs) to add 1-methylnaphthalene; see below for specific issues

R9 lab – GRO/DRO, dissolved gases (methane/ethane)

R2 lab – MBAS

R6 lab – backup and tech assistance for alcohols

NAREL – Rad; Rn222 removed from list

Techlaw/T4 – micro, ISOTECH methods

Glycol/Alcohol Issues

LC/MS/MS –cannot see ethylene glycol. For 2-Methoxyethanol, LC/MS/MS can see at 10ppb. Since previous results were in the ppm range, 8015 can be used; need second-source standard. Sue and Jennie investigating purchase options

GC/FTIR – 8430 requires specialized equipment currently not available. Sue investigating purchase of specialized cell for waters.

GC/FID – method 8015 – Adam has tested 2-methoxyethanol. Confirmation column needed for 2-methoxyethanol; possibly use GC/MS or LC/MS/MS as confirmation. Still need to verify ethylene glycol. Need standard without methanol. Sue and Adam investigating purchase options. May need R6 or R5. Cindy and Stevie will contact regions on Wednesday. Adam needs additional week to finalize method issues.

GC/MS – 1-methylnaphthalene standard being ordered. Eric is testing to see if can run as 8270. Eric can see at 5ppb for 2-methoxyethanol. Extra acrylonitrile std for VOAs ordered.

Still waiting on arrival of standards. Cindy M. checking to see status of webforms PRs.

Data/Reporting

Need to discuss with Rich the data/reporting needs. We are prepared to generate SEDD deliverables which would be consistent for all labs.

Would like R3 lab to be the hub for regional lab support – central location for data packages and communication; samples can be shipped directly to labs by field contractor; contact and address information being compiled today.

LB discussed using separate work orders per sampling event (by week), if necessary.

Coolers/Bottles

R3 lab can provide some coolers to use for this project but probably don't have enough supply of bottles without further purchases.

Analytical Request/Logistics

Final ARF received from TechLaw (1/10/12). LB/TSB working on individual DAS assignments; Stevie clarified Table 1 information (bottle size for O&G, Total P screening info), Stevie confirmed that Alk & pH will be completed in field.

Kevin is working on clarifying Table 1 to document which methods are accredited and on-demand.

Stevie is compiling lab contact and address information for shipping.

Revised Sampling Plan received (1/10/12) – located on I:

Need call with other Regions to go over logistics (conference call Wednesday ?)

Status of Sampling

Currently project is still on hold. If approved, sampling would begin as early as Thursday (1/12) with samples arriving Friday. May need to address weekend work/impacts. Right now the approach is to sample a few homes the first round and then assess data to determine following rounds.

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