

2/10/98 12:27

MEMO

TO: John Young

FROM: Lee Winn

DATE: February 10, 1998

RE: Sampling & Analysis Plan RFI NOD Response TA's 18 & 27

I have not seen the SOP's so there may be some changes required from these.

SAP page 1, section 1.0 Problem Definition, Table 1-1. Where are monitoring wells MW-2, and MW-3.

XEROX
SAP page 1, section 1.0 Problem Definition, What is the chemical composition of HMX? What are the degradation products? DNT? Formaldehyde? Are these being sampled for?

SAP page 1, section 1.0 Problem Definition, What are the degradation products of 1-2 dichloroethane (EDC)?

*CONSIDER
BY WINN* → SAP page 3, section 2.1, Bullet #1 samples . . . for a minimum of 3 quarters (9 months). Is this appropriate? At least 1 year?

SAP page 3, section 2.1, second paragraph "The data collected from this stage will be used to shorten the list of potential contaminants, ..." What about considering lengthening the list of contaminant list? First full year - full suite analysis then back off. *WELLS NOT DEVEL PROPERLY, RUN FULL SUITE ON ALL*

SAP page 3, section 2.2, Target Analytes, Was other data used to identify the COPCs gathered using the appropriate SW-846 Method (DL less than SAL/MCL). data in RFI suggests not.

SAP page 5, section 2.4.1 Well Development. Provide more detail. Refer to approved SOPs. *↑ PROVIDE TO SAP*

SAP page 5, section 2.4.2 Water Level. Provide more detail. Refer to approved SOPs.



SAP page 5, section 2.4.3 Stream Flow. Indicate construction schematics or describe in detail.

SAP pages 6-7, Table 2.3-1 :

Where is the location of MW-7, 18-1135 on the map?

What are the analytical constituents of MW-10 (18-1255)?

Where is the location of MW-12 and what are the proposed analytical constituents?

Where is the location of PCO-1?

Where are the locations for MW-18 and PCO-2?

Sample locations cont.

PS 18-10022, not listed in table 2.3-1 (in response).

Why is H-³S not being analyzed in 18-10022?

Number discrepancy, is 18-01684 equal to 1684?

18-10025 not listed on plate

18-1135 not listed on plate

36-2020, 36-2021, & 18-1196 not listed on table 2.3.-1 but shown in plate

AA - SAP, page 9, section 2.4.4.2 Surface Water Sampling. Has ER SOP 06.13 been approved? Although VOC not likely to be found with in surface water, Peristaltic pumping may not be appropriate for VOCs and SVOCs. Since proposed for analyses should be sampled correctly.

SAP, page 10, Figure 2.4.4-1. What is the existing screened interval on the existing monitoring wells? What is the size of the gravel pack in the existing monitoring well?

SAP, page 12, section 2.4.4.4 Field Samples. "Duplicates and PE samples will be submitted only for VOCs SVOCs, and HE because VOCs and HE are the primary COPCs in the area under investigation." Quality control samples should be collected for all analytical constituents.

***SAP, page 9, section 2.4.4.2, Table 2.4.4.-2 Field QC Samples. How many samples are expected? The QA/QC samples should at least be in accordance with LANL ERSOP01.06 REV (that SOP is inadequate).
which HRFB feels

SAP, page 9, section 2.4.4.5, Table 2.4.4-3 Analytical Method. Mercury Sample EPA

6010, Mercury is not analyzed by method 6010. LANL needs an adequate SW846 method for analyses ie cold vapor AA for Hg to ensure useable data. Use method 245.1 using the manual not cold vapor method. Additionally, these methods are for soil samples. There are other methods for water analysis.

IDW What procedures will be used for:
waste characterization
what types and vols are expected
how will it be collected
where will it be disposed?

NOT
ADDRESSED
AT
ALL

SEE LATEST
SAP OUTLINE

SAP, page 13, section 3.4.1 Evaluation of Potential Contamination Sources Within TA-18, first paragraph. "Observed concentrations of COPCs in wells within and down-gradient from TA-18 will initially be compared directly against the appropriate background concentration." Should be LANL background. site not appropriate specify LANL impacted background not appropriate. = LANL
BICARD

SAP, page 13, section 3.4.1 Evaluation of Potential Contamination Sources Within TA-18, second paragraph. "...statistical Methods for Groundwater Monitoring (Gibbons, 1994)." Is this NMED/EPA approved? "That is, the probability of a **false positive**.... False positive or false negative?"

CAN COMPARE
TO CNMFL SPEC TO
GET IDEA OF
CONCENTR FLUX