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Ser 6227/L9229-1
17 August 1999

Ms. Claire Trombadore
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105

Subj: BASEWIDE QUALITY ASSURANCE PROJECT PLAN, HPS

Dear Ms. Trombadore:

In response to your letter of July 16, 1999 and in accordance with the Hunters Point Shipyard Federal Facilities Agreement, the Navy forwards the enclosed replacement page for the Basewide Quality Assurance Project Plan (QAPP).

The replacement page has been revised to state that as part of the Parcel B remedial action groundwater monitoring, the Navy will collect about ten percent of the well samples using low-flow (minimal drawdown) groundwater sampling procedures and not filter the samples prior to metal analysis for one year. The filtered versus unfiltered metal results and sampling methods will be assessed at that time.

We hope this will address the EPA's concern and allow the EPA QA office to issue an official letter of approval for the basewide QAPP.

If you have any questions regarding this letter, please contact Ms. Jil Finnegan, Code 6227, at (650) 244-2554.

RICHARD E. POWELL
By direction

Encl:

- (1) Installation-Specific Quality Assurance Project Plan Elements replacement page dated August 13, 1999

Copies to:

California Department of Toxic Substances Control (Attn: Mr. Chein Kao w/ 2 copies)
California Regional Water Quality Control Board (Attn: Mr. David Leland)
City & County of San Francisco, Department of Public Health (Attn: Ms. Amy Brownell)
Tetra Tech EMI (Attn: Mr. James Sickles w/o encl.)
I.T. Corp. (Attn: Mr. Don Marini)

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investigation results. Groundwater samples, with the exception of DNAPL samples, will be collected as described below:

- All measuring and sampling equipment will be decontaminated prior to sample collection from each well.
- The water level will be measured repeatedly, as detailed in PRC field SOP number 10, and the purge volume calculated.
- Prior to sampling, a submersible pump or stainless steel bailer will be used for purging a minimum of three casing volumes from each well.
- Indicator parameters (such as temperature, conductivity, and pH) will be monitored during purging to verify complete purging of static water in the well.
- If a well is purged dry before three casing volumes have been removed, the sample will be collected after the well has recovered to within 80 percent of the water level above the bottom of the well prior to purging or after 3 hours, whichever comes first. However, samples to be analyzed for VOCs will be obtained as soon as enough water is in the well to collect the sample.
- Water samples will be collected with a disposable Teflon bailer or from a submersible bladder pump or equivalent instrument.
- Samples analyzed for dissolved metals will be filtered in the field using a 0.45-micron membrane filter prior to filling sampling containers. The samples will be preserved with nitric acid immediately after filtering. Samples to be analyzed for total metals will not be filtered.
- Other sample containers will be filled directly from the bailer by the stopcock or pump discharge line. Sample containers, volumes, and preservation methods are specified in Tables 3-1 and 3-2.
- For a duration of one year beginning in August 1999, ten percent of the groundwater samples collected during the Parcel B remedial action groundwater monitoring field effort will be collected using low-flow (minimal drawdown) sampling procedures and will not be filtered prior to metals analysis. At the end of the year, the filtered results will be compared with the unfiltered results to determine future groundwater sampling procedures.

Subsurface water samples where DNAPLs are suspected will be collected as described below:

- All measuring and sampling equipment will be decontaminated prior to sample collection from each well.
- The water level will be measured repeatedly, as detailed in PRC field SOP number 10.

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- Samples will be obtained from the bottom of well using a peristaltic pump and collected in polypropylene containers.
- Samples will be visually inspected for DNAPLs. A hydrophobic dye will be added to the water sample. An estimate of the observed concentration of DNAPLs will be made in the field.
- Samples will be collected for VOC analyses prior to the purging of the well water.
- Groundwater sampling for other analytes will be conducted following the procedures described above.

The following information will be entered on the groundwater sampling form and/or a field notebook at the time of sampling:

- Sampler's name and initials
- Time and date of sample collection
- Station number and location
- Sample number
- Volume of each sample container
- Type of analysis
- Preservatives
- Purge volume and time of purging
- Unusual conditions (such as color, odor, or solids)
- Groundwater level prior to sampling
- Field conditions (such as weather and air temperature)
- Sampling technique
- Equipment used
- Indicator parameter measurements (such as pH, temperature, conductivity, and turbidity).

Each sample will be packaged and transported as described in Section 3.3 of this QAPjP.

DRAFT FINAL
INSTALLATION-SPECIFIC QUALITY ASSURANCE
PROJECT PLAN ELEMENTS

DATED 24 MAY 1996

THIS DOCUMENT WAS NOT SUBMITTED TO THE
RESTORATION RECORD FILE.

FOR ADDITIONAL INFORMATION, CONTACT:

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