

**RESPONSE TO COMMENTS  
DRAFT QUALITY ASSURANCE PROJECT PLAN (QAPP) (October 27, 1999)  
FOR SIX PHASE HEATING PILOT TEST  
NON-TIME-CRITICAL REMOVAL ACTION  
AT INSTALLATION RESTORATION SITE 14  
FORMER NAVAL STATION LONG BEACH  
LONG BEACH, CALIFORNIA**

**DCN: FWSD-RAC-00-0184**

December 1, 1999

Mr. Nars Ancog, Code 4EN3  
SWDIV, Naval Facilities Engineering  
1220 Pacific Highway  
San Diego, CA 92132

Comments: November 11, 1999

From: Mr. Michael Toy  
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Costa Mesa, CA 92626

Response: December 1, 1999

**Comments from SWDIV:**

Comment 1. Section 6.3.5. A statement should be added to this section that once the spike is added to the MS/MSD samples those samples are carried through the complete sample preparation process just as the other samples in the batch. This will clarify the process for the reader.

Response 1. Add the following **bold** statement to Section 6.3.5:

The matrix spike/matrix spike duplicate (MS/MSD) serves to determine whether matrix effects are affecting recoveries. **A MS/MSD is an aliquot of sample spiked with known concentrations of analytes prior to sample preparation and analyze as samples.** For inorganic analyses, only a single matrix spike is performed per batch. The recoveries are compared against each other and against the know amount of the spike. From this data, both accuracy and precision can be determined. The laboratory will perform MS/MSD at a frequency of one per 20 project samples.

Comment 2. Section 8.3. The document does not address Foster Wheeler's internal corrective action procedures should they be necessary as a result of a field audit as described in Section 8.1 or other situations that may arise. Include a discussion of internal corrective action procedures that may be employed.

Response 2. Add the following paragraph to the end of Section 8.3:

“Nonconformance identified during the field audit will be recorded on a Nonconformance Report. All nonconformance and corrective actions will be processed in accordance with Foster Wheeler procedure QC-3. This procedure is presented in Attachment 5 of the Final Contractor Quality Control Plan (Foster Wheeler, 1999). The Program Quality

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	Control Manager will monitor corrective action documentation, verify implementation of corrective action, track and analyze corrective action, and closeout corrective action documentation upon completion of corrective action.”
Comment 3. Table B.2, Step 6. Limits on Decision Errors - Quantify the error tolerance for this project. Error tolerance is usually expressed in terms of a statistically derived number (confidence limit). If a statistically derived number does not apply to the project due to judgmental sampling, state so in this section.	Response 3. Table B.2, Step 6. Replace with “Due to judgmental sampling, this step is not applicable.”
Comment 4. Table B.4. There are no Quality Control Acceptance Limits specified for the air analyses by Method TO-14. Will the limits from 8260B be used for assessment of the air data? If so, this should be indicated in the table. If not, state what limits will be used in assessing the air data.	Response 4. Limits have been added to Table B.4.

# FOSTER WHEELER

## FOSTER WHEELER ENVIRONMENTAL CORPORATION

### TRANSMITTAL/DELIVERABLE RECEIPT

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 Naval Facilities Engineering Command  
 Southwest Division  
 Mr. Richard Lovering, 02R.RL  
 1220 Pacific Highway  
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DATE: 12/06/99  
 CTO: 0012  
 LOCATION: NAVSTA Long Beach

FROM: Neil Fabian D.P.U. [Signature]  
 Neil Hart, Program Manager

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