Mr. Joe Kennedy
State of New Mexico
Environment Department
525 Camino De Los Marquess
Santa Fe, NM  87502

1. Attached please find a copy of the revised sampling plan for Site 47, POL Washrack (Atch 1). This plan includes the QA/QC plan required by the NMED.

2. Also attached is a copy of the analytical data derived from the Rapid Response Action at Site 47 (Atch 2). This information has been included to provide background information for the site.

3. Please review the referenced sampling plan. Questions regarding this subject should be directed to Warren Neff or Roger Wilkson at 479-3931.

HOWARD E. MOFFITT
Deputy Base Civil Engineer

Attachs
1. Revised Sampling Plan
2. Rapid Response Action

Readiness is our Profession
PROPOSED SAMPLING PLAN = SITE SD-47

HOLLoman AFB, NM

1 SQ = 5'

(NTS)

REDrawN 4MAR 92, LJG

× 4 FLOOR SAMPLES - METHOD 8240

-- 13 WALL SAMPLES (TAKEN BETWEEN 3.5 - 7.5 FT DEPTHS, BASED ON VISUAL OBSERVATIONS - METHOD 8240)
Holloman AFB Stockpile Sampling

100'

86'

125'

125'

9 grab TEP analysis

1 (expicit) 

10 samples total * samples should be taken at a depth of at least 34.5'
Components of an Adequate Laboratory Quality Assurance/Quality Control Plan

New Mexico Hazardous and Radioactive Materials Bureau Technical Support Group (505) 827-4300

1. All constituents identified above the MDL must be reported.
   The Method Detection Limit is defined as the estimated concentration at which the signal generated by a known constituent is three standard deviations above the signal generated by a blank, and represents the 99% confidence level that the constituent does exist in the sample.

2. The "tune" of the GC/MS for volatile organic constituents must be checked and adjusted (if necessary) each twelve (12) hour shift by purging 50 ng of a 4-bromofluorobenzene (BFB) standard. The resultant mass spectra must meet the criteria given in Table 1 before sample analysis proceeds.

3. The "tune" of the GC/MS for semi-volatile organic constituents must be checked and adjusted (if necessary) each twelve (12) hour shift by injecting 50 ng of a Decafluorotriphenylphosphine (DFTP) standard. The resultant mass spectra must meet the criteria given in Table 2 before analysis proceeds.

4. For every 20 samples perform and report:
   A. Duplicate spike for organics.
   B. Duplicate sample analysis for inorganics.
   C. Reagent blank, results provided for organic work.
   D. Surrogate and spike recoveries. See item 10.
   E. One check sample at or near the Practical Quantitation Limit for a subset of the parameters.

5. Analytical results must not be "blank corrected."

6. Any deviation from EPA-approved methodology must have a Written Standard Operating Procedure and NMED approval.

7. Detection limits must be generally in line with those listed in Appendix IX to §264.
8. The laboratory must document:
   A. That all samples were extracted, distilled, digested, or prepared (if appropriate) and analyzed within specified holding times.
   B. That if a sample for volatile analysis is received with headspace, this is reported.
   C. The date of sample receipt, extraction and analysis for each sample.
   D. Any problems or anomalies with the analysis should be documented.
   E. That all solids were analyzed dry and that the reported results are corrected to reflect a dry weight basis.

9. The name and signature of the lab manager must appear on each report.

10. The reported surrogate and spike recoveries must fall within:
    1. the historical (statistically based) acceptance limits, generated at the laboratory or
    2. the limits tabulated by the appropriate method from the current edition of SW-846, whichever limit is narrower. The actual historical recoveries must be submitted to HRMB with the analysis.

### TABLE 1

**BFB KEY IONS AND ABUNDANCE CRITERIA**

<table>
<thead>
<tr>
<th>Mass</th>
<th>Ion Abundance Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>15.0 - 40.0 percent of the base peak</td>
</tr>
<tr>
<td>75</td>
<td>30.0 - 60.0 percent of the base peak</td>
</tr>
<tr>
<td>95</td>
<td>base peak, 100 percent relative abundance</td>
</tr>
<tr>
<td>96</td>
<td>5.0 - 9.0 percent of the base peak</td>
</tr>
<tr>
<td>173</td>
<td>less than 2.0 percent of mass 174</td>
</tr>
<tr>
<td>174</td>
<td>greater than 50.0 percent of the base peak</td>
</tr>
<tr>
<td>175</td>
<td>5.0 - 9.0 percent of mass 174</td>
</tr>
<tr>
<td>176</td>
<td>greater than 95.0 percent but less than 101.0 percent of mass 174</td>
</tr>
<tr>
<td>177</td>
<td>5.0 - 9.0 percent of mass 176</td>
</tr>
</tbody>
</table>