Project:	07-3080.04 Schofield Barracks	Work Order:	7952	
TABIB	GG 0 1	4	<u> </u>	

LAB ID: SC & A Analysis Type: Gamma Spectroscopy
Reviewer: Stacey Sedano

Sample	Matrix	Collection Date	Date Received	Preparation Date	Hold Times Met? (Y, N< or N/A)	Analysis Date	Hold Times Met? (Y, N< or N/A)
SB-CZ-SS-2284-ST	Soil	9-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2285-ST	Soil	9-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2286-ST	Soil	9-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2287-ST	Soil	9-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2288-ST	Soil	9-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2289-ST	Soil	9-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2290-ST	Soil	9-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2291-ST	Soil	9-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2292-ST	Soil	09-2707	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2293-ST	Soil	09-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2293-ST	Soil	09-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2294-ST	Soil	09-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A
SB-CZ-SS-2295-ST	Soil	09-27-07	10-01-07	10-18-07	N/A	12-06-07	N/A

12/31/07

Date:

Validation Item	Acceptable (YES)	Not Acceptable (NO)	Not Applicable (N/A)
Sample Chain of Custody Review	, ,	. ,	
Are there printed names and signatures present in the Relinquished By and Received By Blocks?		X(1)	
Does the COC date match the Relinquished By date?	Х		
Is the Received By date consistent with sample custody transfer (Relinquished By)?	Х		
Have all the samples listed on the Chain of Custody have been analyzed? (Verify this by checking that the Memo and/or case narratives are consistent with the COC.)	Х		
Were the sample(s) preserved appropriately?			Х
Are all the samples included in the analytical report are listed correctly on the Chain of Custody?	Х		
Are the analytes reported consistent with the project requirements? (See Attached Sheet)	Х		
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Sample Receipt Checklist Review	T v		ı
Did the laboratory complete the Sample Receiving Checklist?	X		
Did the laboratory complete the Sample Receiving Checklist?  Are all receipt inspection items marked "Yes"? (If "No" are they acceptable?).	X X		
Did the laboratory complete the Sample Receiving Checklist?  Are all receipt inspection items marked "Yes"? (If "No" are they acceptable?).  Comments:			
Did the laboratory complete the Sample Receiving Checklist?  Are all receipt inspection items marked "Yes"? (If "No" are they acceptable?).  Comments:  Case Narrative/Analytical Report			
Did the laboratory complete the Sample Receiving Checklist?  Are all receipt inspection items marked "Yes"? (If "No" are they acceptable?).  Comments:			

Validation Item	Acceptable	Not Acceptable	Not Applicable
Are results that are flagged by laboratory necessary and complete, and are understandable comments provided?	Х	•	
Are the reporting units are correct and consistent? (pCi/g)	Х		
Laboratory Quality Control Sample Review Did the laboratory properly complete all required laboratory quality control			
samples at required frequencies?  LCS - 1 per matrix and one per batch or 1/20 samples whichever is more frequent  Matrix Spike – 1 per matrix and one per batch or 1/20 samples whichever is more frequent  Duplicates - 1 per matrix and one per batch or 1/20 samples whichever is more frequent  Blanks - 1 per matrix and one per batch or 1/20 samples whichever is more frequent	X(2)		
Are the laboratory quality control sample results acceptable (solids)?  LCS - 30% -69% estimated (J); >130% estimated (J); <30% unusable (R)  Matrix Spike – 20% -70% estimated (J); >130% estimated (J); <20%  unusable (R)  Duplicates - Duplicates – Normalized Absolute Difference (NAD)>1.96  estimated (J)	X(2,3,4)		
Comments:  2. Matrix Spikes are not necessary for Gamma Spec. 3. LCS and NAD results are all acceptable. 4. No Potential Blank contamination.			

Validation Item	Acceptable	Not Acceptable	Not Applicable
Other Evaluation Factors		-	
If a result has an uncertainty greater than the result, is the uncertainty is less than the required detection limit?	Х		
Are the sample hold times acceptable? (Six months or less for all Rad except <sup>3</sup> H, which is three months or less )			Х
Are total propagated uncertainty (TPU) values provided for all results?	X		
Are the aliquot sizes appropriate – (1 g minimum for dry solids)	X		
Are soil sample results reported on a dry-weight basis? (See Case Narrative)	X		
Were required detection limits achieved? (see "QA/QC Plan" Table 2.2)	X (5)		

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e soil sample results reported on a dry-weight basis?(See Case Narrative)	X	
ere required detection limits achieved? (see "QA/QC Plan" Table 2.2)	X (5)	
omments:		
5. Detection limit of 0.5 pCi/g was met for all samples for Th-2	234.	
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